

**Carborundum Universal Limited**

Regd.off : 'Parry House', 43, Moore Street,
Chennai - 600 001, India.

Tel.: +91-44-3000 6161 Fax : +91-44-3000 6149

Email : cumigeneral@cumi.murugappa.com

Website : www.cumi.murugappa.com

CIN No. : L29224TN1954PLC000318.

10th July 2018

BSE Limited
1st Floor, New Trading Ring
Rotunda Building, P J Towers
Dalal Street, Fort
Mumbai 400 001

Stock Code: 513375

The Manager
Listing Department
National Stock Exchange of India Ltd.
Exchange Plaza, 5th Floor
Plot No. C/1, G Block
Bandra-Kurla Complex, Bandra (E)
Mumbai 400 051

Stock Code : CARBORUNIV-EQ

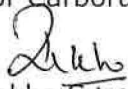
Dear Sirs,

Sub : Annual Report for the financial year ended 31st March 2018

We enclose a copy of the Annual Report of our Company comprising the financial statements, Directors report and Auditors report thereon for the financial year ended 31st March 2018 and the Notice convening the 64th Annual General Meeting of the Company, copies of which have been despatched to the shareholders of the Company.

Thanking you,

Yours faithfully
For Carborundum Universal Limited


Rekha Surendhiran
Company Secretary

Encl : a.a



murugappa



CARBORUNDUM UNIVERSAL LIMITED

CIN:L29224TN1954PLC000318

Registered Office: Parry House, 43 Moore Street, Chennai - 600001, India

Tel: +91-44-30006161; Fax: +91-44-30006149;

E-mail: investorservices@cumi.murugappa.com; Website: www.cumi-murugappa.com



NOTICE TO MEMBERS

NOTICE is hereby given that the Sixty fourth Annual General Meeting (AGM) of the Members of the Company will be held at 3.00 p.m. IST on Friday, 3rd August 2018 at TTK Auditorium (Main Hall), The Music Academy, New No. 168, TTK Road, Royapettah, Chennai 600 014 to transact the following business:

ORDINARY BUSINESS

Item No.1 - Adoption of Standalone Financial Statements

To consider and if deemed fit, to pass the following as an Ordinary Resolution:

RESOLVED THAT the Audited Standalone Financial Statements for the year ended 31st March 2018 and the Reports of the Board and Independent Auditors' thereon be and are hereby considered, approved and adopted.

Item No.2 - Adoption of Consolidated Financial Statements

To consider and if deemed fit, to pass the following as an Ordinary Resolution:

RESOLVED THAT the Audited Consolidated Financial Statements for the year ended 31st March 2018 and the Independent Auditors' Report thereon be and are hereby considered, approved and adopted.

Item No.3 - Declaration of Dividend

To consider and if deemed fit, to pass the following as an Ordinary Resolution:

RESOLVED THAT a final dividend of ₹1.25 per equity share of ₹1/- each be declared for the financial year ended 31st March 2018 and that the same be paid out of the profits of the Company to those shareholders whose names appear in the Register of Members as on 3rd August 2018 in case the shares are held in physical form and to the beneficial holders of the dematerialised shares as on 3rd August 2018 as per the details provided by National Securities Depository Limited and Central Depository Services (India) Limited in case the shares are held in electronic form.

RESOLVED FURTHER THAT the interim dividend of ₹1/- per equity share of ₹1/- each declared by the Board of Directors and paid for the financial year ended 31st March 2018 be and is hereby confirmed.

Item No.4 - Re-appointment of Mr. M A M Arunachalam, Director

To consider and if deemed fit, to pass the following as an Ordinary Resolution:

RESOLVED THAT Mr. M A M Arunachalam holding DIN 00202958, who retires by rotation and being eligible for re-appointment, be and is hereby re-appointed as a Director of the Company liable to retire by rotation.

SPECIAL BUSINESS

Item No.5 - Remuneration of Non-Executive Directors

To consider and if deemed fit, to pass the following as a Special Resolution:

RESOLVED THAT pursuant to the provisions of Sections 197, 198 and other applicable provisions, if any, of the Companies Act, 2013 and the Rules made thereunder and SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 (including any statutory modification(s) or re-enactment thereof for the time being in force), relevant provisions of the Memorandum and Articles of Association of the Company, the Directors of the Company (excluding Managing Director(s)/Executive Director(s)/Whole-time Director(s) but including the Alternate Directors) be paid remuneration by way of commission for a period of five financial years commencing from 1st April 2018, not exceeding 1% of the net profits of the Company computed in accordance with the provisions of Section 198 of the Companies Act, 2013 for each financial year.

RESOLVED FURTHER THAT the Board of Directors be and is hereby authorised to decide from time to time, the quantum and manner of distribution of commission, to one or more Directors, including the Chairman within the limit of 1% prescribed above.

RESOLVED FURTHER THAT the aforesaid commission shall be in addition to the fees payable to such Directors for attending the meetings of the Board and Committees thereof.

RESOLVED FURTHER THAT the Board of Directors be and is hereby authorised to take all such steps as may be necessary, desirable or expedient to give effect to this Resolution.

Item No.6 - Ratification of Cost Auditor's Remuneration

To consider and if deemed fit, to pass the following as an Ordinary Resolution:

RESOLVED THAT pursuant to the provisions of Section 148(3) and other applicable provisions of the Companies Act, 2013 read with the Companies (Audit and Auditors) Rules, 2014 (including any statutory modification(s) or re-enactment(s) thereof for the time being in force), the remuneration of ₹4,00,000 payable to M/s. S Mahadevan & Co. (Firm registration no. 000007) Cost Accountants, Chennai, appointed by the Board of Directors to conduct the audit of the cost accounting records of the Company for the financial year 2018-19, excluding applicable taxes and out of pocket expenses incurred by them in connection with the Cost Audit be and is hereby ratified and confirmed.

Item No.7 - Approval of offer/invitation to subscribe to Non-Convertible Debentures on Private Placement basis

To consider and if deemed fit, to pass the following as a Special Resolution:

RESOLVED THAT pursuant to the provisions of Sections 42, 71 and other applicable provisions of the Companies Act, 2013 (the Act) and the applicable Rules made thereunder (including any statutory modification(s) or re-enactment thereof for the time being in force) and in accordance with the applicable SEBI Regulations, guidelines, circulars as amended from time to time and subject to such other approvals as may be required, consent of the shareholders of the Company be and is hereby accorded to offer, issue and allot in one or more series or tranches, secured/unsecured Redeemable Non-Convertible Debentures (NCDs), on private placement basis, during the period from the conclusion of 64th AGM till the conclusion of 65th AGM to such person or persons, including one or more companies, bodies corporate(s), statutory corporations, commercial banks, lending agencies, financial institutions, insurance companies, mutual funds, pension/provident funds, individuals as the case may be, in such manner and wherever necessary or required, in consultation with merchant bankers/and or advisors or others, on such terms and conditions beneficial to the Company including rate of interest, tenure, security cover and for such purposes of the Company as the Board may in its absolute discretion decide at the time of issue of the NCDs, provided that the total amount so raised through issuance of such NCDs (including premium thereon, if any, as may be decided by the Board), shall not exceed an aggregate sum of ₹2500 million, within the overall borrowing limits of the Company.

RESOLVED FURTHER THAT the Board be and is hereby authorised to do all such acts, deeds, matters and things and execute all documents or writings, as may be necessary or proper or expedient for the purpose of giving effect to this resolution

including intimating the concerned authorities or such other regulatory body/ies and for matters connected therewith or incidental thereto including delegating all or any of the powers conferred herein to any Committee of the Directors or any Director(s) or Officer(s) of the Company to the extent permitted under the Act and the Rules thereunder.

By Order of the Board

Chennai,
May 4, 2018

Rekha Surendhiran
Company Secretary

Notes:

1. **A Member entitled to attend and vote at the AGM is entitled to appoint a proxy/proxies to attend and vote instead of himself/herself and the proxy need not be a Member. The proxy form in order to be effective should be deposited at the Registered Office of the Company, duly completed and signed, not less than 48 hours before the commencement of the Meeting. Proxies submitted on behalf of limited companies, societies, etc., must be supported by appropriate Resolutions/Authorisation, as applicable. A person can act as proxy on behalf of Members not exceeding fifty (50) and holding in aggregate not more than 10% of the total share capital of the Company. In case a proxy is proposed to be appointed by a Member holding more than 10% of the total share capital of the Company carrying voting rights, then such proxy shall not act as a proxy for any other person or Member. The proxy form for the AGM is enclosed.**

During the period beginning twenty four (24) hours before the time fixed for the commencement of the Meeting and ending with the conclusion of the Meeting, a Member is entitled to inspect the proxies lodged at any time during the business hours of the Company, provided not less than three (3) days advance notice in writing is given to the Company. Members/ Proxies are requested to bring their duly filled in attendance slips enclosed herewith to attend the Meeting mentioning therein the details of their DP and Client ID/Folio number. The route map showing directions to the venue of the AGM is annexed.

2. Corporate Members intending to send their authorized representatives to attend the Meeting are requested to send to the Company a certified copy of the Board resolution authorising their representative to attend and vote on their behalf at the Meeting.
3. The statement of material facts pursuant to Section 102 of the Companies Act, 2013 in respect of the businesses under item nos. 4 to 7 (though not required for item no.4) of the Notice to be transacted at the AGM is annexed hereto.

The requirement to place the matter relating to ratification of the appointment of Auditors by Members at every Annual General Meeting has been done away with pursuant to the provisions of the Companies (Amendment) Act, 2017 notified on 7th May 2018 by the Ministry of Corporate Affairs. Accordingly, the resolution for ratification of the appointment of Auditors made in the 63rd Annual General Meeting held on 31st July 2017 for a period of five years at a remuneration to be determined by the Board of Directors on the recommendation of the Audit Committee, is not required to be placed in this meeting.

4. The Register of Members and Share Transfer Books of the Company will remain closed from Friday, 27th July 2018 to Friday, 3rd August 2018 (both days inclusive) for the purpose of payment of final dividend for the financial year ended 31st March 2018. Subject to the provisions of the Act, the final dividend as recommended by the Board, if declared will be paid by 10th August 2018.
5. As per the provisions of the Companies Act, 2013, facility for making nomination is available to individuals holding shares in the Company. The prescribed nomination form can be obtained from the Registrar and Share Transfer Agent (RTA)/Depository Participant (DP).
6. Dividends remaining unclaimed/unpaid for a period of seven (7) years shall be transferred to the Investor Education Protection Fund. The Company has transferred unclaimed/unencashed dividends up to the Interim Dividend for FY 2010-11 to the Investor Education Protection Fund during the year ended 31st March 2018.

The Company has uploaded the details of unpaid and unclaimed amounts lying with it as on 31st July 2017 (date of last AGM) on the website of the Company www.cumi-murugappa.com as also on the website of the Ministry of Corporate Affairs. Members can ascertain the status of their unclaimed dividend amounts from these websites.

Members who have not encashed their warrants in respect of the final dividend declared in financial year 2010-11 and subsequent dividends thereon may write to the Company Secretary or RTA immediately for claiming their dividends.

Pursuant to the notification of Section 124(6) of the Companies Act, 2013 and Investor Education and Authority (Accounting, Audit, Transfer and Refund) Rules, 2016, the Company is also required to transfer the shares in respect of which dividend has not been paid or claimed for seven consecutive years or more. During the year 2017-18, the Company has transferred 515,895 equity

shares pertaining to 427 holders to the Investor Education and Protection Fund Authority. Further, the Company has also transferred 44,304 shares pertaining to 37 holders to the Investor Education and Protection Fund Authority during April 2018. The Company had issued the requisite notice to the shareholders concerned intimating them of the impending transfer of shares and had simultaneously published a notice in leading dailies in this regard. Further, the Company has uploaded the details of the same on its website for the information of its shareholders.

Shareholders are entitled to claim the shares from the Investor Education and Protection Fund Authority by making an application online in Form IEPF-5 available on the website <http://www.iepf.gov.in/IEPFA/refund.html> along with the requisite documents. Shareholders are requested to contact the Company's RTA - Karvy Computershare Private Limited or the Company in this regard.

7. The Securities and Exchange Board of India (SEBI) has mandated the submission of Permanent Account Number (PAN) by every Participant in securities market for registering transfers, transpositions, transmissions etc. Members holding shares in electronic form are therefore requested to submit the PAN to their Depository Participant with whom they maintain their demat accounts. Members holding shares in physical form are requested to submit their PAN details to the Company/RTA. In terms of SEBI circular dated 20th April 2018, a copy of the PAN card and original cancelled cheque leaf/ attested bank passbook showing name of the account holder and bank account details is required to be submitted to the RTA/Company.
8. Additional information pursuant to SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 in respect of the Director seeking re-appointment at the AGM is furnished and forms part of the Notice. The Director seeking re-appointment has furnished the requisite consents/ declarations for his re-appointment.
9. Electronic copy of the Annual Report is being sent to all the Members holding shares in dematerialised mode and whose e-mail IDs are available with the Depository Participant(s) and to all the Members holding shares in physical mode whose e-mail IDs are registered with the Company/RTA for communication purposes unless any Member has requested for a hard copy of the same. For Members who have not registered their e-mail address, physical copies of the Annual Report for FY 2017-18 is being sent through the permitted mode.
10. The business set out in the Notice will be transacted through electronic voting system. Pursuant to Section 108 of the

Companies Act, 2013 read with Rule 20 of the Companies (Management and Administration) Rules, 2014, and amendments thereof, the Company is pleased to offer e-voting facility to the Members to cast their votes electronically on all resolutions set forth in the Notice convening the 64th AGM. The Company has engaged the services of M/s. Karvy Computershare Private Limited to provide remote e-voting facility to enable Members to exercise their votes in a secured manner. The instructions for remote e-voting is provided at the end of this section.

The Board of Directors have appointed Mr. R Sridharan or failing him Mr. G Subramaniam of M/s. R Sridharan and Associates, Practising Company Secretaries as the Scrutiniser to scrutinise the e-voting process in a fair and transparent manner.

The Notice and the instructions for e-voting along with Attendance Slip and Proxy Form is being sent in electronic form to all the Members whose e-mail IDs are registered with the Company/their DPs for communication purposes unless any Member has requested for a hard copy of the same.

For Members who have not registered their e-mail address, physical copies of the aforesaid documents is being sent in the permitted mode. Members may also note that the Notice of the 64th AGM and the Annual Report 2017-18 will also be available on the Company's website www.cumi-murugappa.com. Physical copies of the aforesaid documents will also be available at the Registered Office of the Company for inspection during normal business hours on working days. Even after registering for e-communication, Members are entitled to receive the communication in physical form, upon making a request for the same. Members may please send in their requests to the Company's investor e-mail ID: investorservices@cumi.murugappa.com.

11. Members are requested to send their queries, if any, on the accounts or operations of the Company in advance to the Registered Office of the Company addressed to the Company Secretary or by e-mail to investorservices@cumi.murugappa.com to enable us to keep the information ready.
12. Members holding shares in physical form are requested to avail dematerialisation facility to eliminate all risks associated with holding in physical form and for ease in portfolio management. SEBI has mandated that requests for effecting the transfer of securities can be processed only if the securities are held in the dematerialized form with a Depository. For further information, please contact us at investorservices@cumi.murugappa.com or contact the RTA.
13. A shareholder satisfaction survey form is available on the website of the Company at <http://www.cumi-murugappa.com>.

[com/survey/index.php](http://www.cumi-murugappa.com/survey/index.php). Members who have not yet participated in the survey are requested to kindly give your valuable feedback by filling up the form in the above link.

14. Members who hold shares in physical form in multiple folios in identical names or joint holding in the same order of names are requested to send their share certificates to the RTA for consolidation into a single folio.
15. All documents referred to in the accompanying Notice and the statement under Section 102 of the Act, shall be open for inspection at the Registered Office of the Company during normal business hours (9.30 a.m. to 5.30 p.m.) on all working days upto the date of the AGM.
16. Members holding shares in physical form are requested to address all correspondence relating to their shareholding in the Company to M/s. Karvy Computershare Private Limited, RTA or the Company. Members holding shares in dematerialised form may send such correspondence to their respective DPs.
17. As an eco-friendly measure intending to benefit the society at large, we request you to be part of the e-initiative and register your e-mail address to receive all communication and documents including Annual reports from time to time in electronic form to the e-mail address provided by you. Members holding shares in dematerialised form, may send such communication to their respective DPs and those holding shares in physical form, may send such communication to the RTA or the Company. Even after registering for e-communication, Members are entitled to receive communication in physical form upon making a request for the same.
18. Instructions for remote e-voting:
Pursuant to the provisions of Section 108 of the Companies Act, 2013 and Rule 20 of the Companies (Management and Administration) Rules, 2014 as amended from time to time and the provisions of Regulation 44 of SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, Members are provided with the facility to cast their vote electronically, through the e-voting services provided by M/s. Karvy Computershare Private Limited (Karvy) on all Resolutions set forth in this Notice.
Members may please follow the below instructions for e-voting:
 - A. In case a Member receives an e-mail from Karvy [for Members whose e-mail IDs are registered with the Company/Depository Participants(s)]:
 - i. Launch internet browser by typing the URL: <https://www.evoting.karvy.com>
 - ii. Enter the login credentials (i.e. User ID and password). In case of physical folio, User ID will be Even number 3852

(refer the Even number in the Attendance Slip) followed by folio number. In case of Demat account, User ID will be your DP ID and Client ID. However, if you are already registered with Karvy for e-voting, you can use your existing User ID and password for casting your vote.

- iii. After entering these details appropriately, click on "LOGIN".
- iv. You will now reach password change Menu wherein you are required to mandatorily change your password. The new password shall comprise of minimum 8 characters with at least one upper case (A-Z), one lower case (a-z), one numeric value (0-9) and a special character (@, #, \$ etc.,). The system will prompt you to change your password and update your contact details like mobile number, e-mail ID etc. on the first login. You may also enter a secret question and answer of your choice to retrieve your password in case you forget it. It is strongly recommended that you do not share your password with any other person and that you take utmost care to keep your password confidential.
- v. You need to login again with the new credentials.
- vi. On successful login, the system will prompt you to select e-voting event i.e., Carborundum Universal Limited. Now you are ready for e-voting as "cast vote" page opens.
- vii. On the voting page, enter the number of shares (which represents the number of votes) as on the cut-off date under "FOR/AGAINST" or alternatively, you may partially enter any number in "FOR" and partially "AGAINST" but the total number in "FOR/AGAINST" taken together not exceeding your total shareholding as mentioned herein above. You may also choose the option ABSTAIN. If the Member does not indicate either "FOR" or "AGAINST" it will be treated as "ABSTAIN" and the shares held will not be counted under either head.
- viii. Members holding multiple folios/demat accounts shall choose the voting process separately for each folio/demat accounts.
- ix. Voting has to be done for each item of the Notice separately. In case you do not desire to cast your vote on any specific item it will be treated as abstained.
- x. You may cast your vote by selecting an appropriate option and click on "Submit".
- xi. A confirmation box will be displayed. Click "OK" to confirm else "CANCEL" to modify. Once you have voted on the resolution, you will not be allowed to modify your vote. During the voting period, Members can login any number of times till they have voted on the Resolution(s).
- xii. Corporate/Institutional Members (i.e. other than Individuals, HUF, NRI etc.,) are also required to send scanned certified

true copy (PDF) of the Board Resolution/Authorisation Letter etc., together with attested specimen signature(s) of the duly authorised representative(s), to the Scrutiniser at rsaevoting@gmail.com with a copy marked to evoting@karvy.com. The scanned image of the above mentioned documents should be in the naming format "CUMI - 64th AGM".

- B. Members holding shares in dematerialised form whose e-mail IDs are not registered with the Company/DPs and Members holding shares in physical form:
 - i. E-Voting Even Number - 3852 (EVEN), User ID and Password is provided in the Attendance Slip.
 - ii. Please follow all steps from sl. no. (i) to sl. no. (xii) above to cast your vote by electronic means.
- C. Voting at AGM: Members who have not cast their vote electronically through remote e-voting, can exercise their voting rights at the AGM. The Company will make necessary arrangements in this regard at the Venue.
- D. Other Instructions:
 - i. Any person who becomes a Member of the Company after despatch of Notice of the Meeting and holding shares as on the cut-off date i.e., 27th July 2018 may obtain the user ID and password by calling Toll Free No.1800 3454 001 or by sending an e-mail request to evoting@karvy.com.
 - ii. In case of any queries, you may refer Help & FAQ section in <https://evoting.karvy.com> (Karvy website) or call Karvy on 040-6716222; Toll Free No.1800 3454 001.
 - iii. You can also update your mobile number and e-mail ID in the user profile details of the folio which may be used for sending future communication(s).
 - iv. The voting rights of Members shall be in proportion to their shareholding as on the cut-off date 27th July 2018.
 - v. The e-voting period commences on Monday, 30th July 2018 (9.00 a.m. IST) and ends on Thursday, 2nd August 2018 (5.00 p.m. IST). During this period, Members of the Company, holding shares either in physical form or in dematerialised form, as on the cut-off date i.e., 27th July 2018, may cast their vote electronically in the manner and process set out herein above. The remote e-voting module shall be disabled for voting thereafter. Once the vote on a resolution is cast by the Member, the Member will not be allowed to change it subsequently.

The Scrutiniser shall immediately after the conclusion of voting at the AGM, first count the votes cast at the meeting, thereafter unblock the votes cast through remote e-voting in the presence of at least two (2) witnesses not in the employment of the Company

and make a consolidated Scrutiniser's Report of the votes cast to the Chairman of the Company. For the purpose of ensuring that Members who have cast their votes through remote e-voting do not vote again at the Meeting, the Scrutiniser will have access, after closure of the period for remote e-voting to the details of Members as the Scrutiniser may require except the manner in which the Members have cast their votes.

The results shall be declared on the date of the Meeting or not later than three days from the conclusion of the meeting. The results declared along with the Scrutiniser's Report shall be placed on the Company's website www.cumi-murugappa.com, as well as the website of Karvy i.e. <https://evoting.karvy.com> immediately after declaration of results by the Chairman/Authorised person and the Company shall simultaneously forward the results to NSE/BSE for placing it on their respective websites.

Voting facility will be provided to the Members who are not able to cast their vote electronically at the AGM venue. A Member can opt for only one mode of voting i.e. either through remote e-voting or voting at the AGM. If a Member casts votes by both modes, then voting done through remote e-voting shall prevail and the voting at AGM shall be treated as invalid. However, Members who have cast their vote by remote e-voting prior to the meeting can attend the meeting though they will not be entitled to cast their vote again.

Resolutions passed through e-voting would be deemed to have been passed as on the date of the AGM i.e., 3rd August 2018.

ANNEXURE TO THE NOTICE

Statement pursuant to Section 102 of the Companies Act, 2013

As required under Section 102 of the Companies Act, 2013 (Act), the following statement sets out all material facts relating to the businesses mentioned under item nos. 4 to 7 of the accompanying Notice:

Item No.4

Mr. M A M Arunachalam (DIN: 00202958) is liable to retire by rotation at this AGM pursuant to Section 152(6) of the Companies Act, 2013 and being eligible has offered himself for re-appointment. The Company has received the requisite consent and disclosure forms from him.

Mr. M A M Arunachalam's profile is provided in the Annual Report and the information pursuant to Regulation 36(3) of SEBI (Listing Obligations and Disclosure Requirements) Regulations,

2015 and Secretarial Standards on General Meetings is provided in the annexure.

Mr. M A M Arunachalam, also known as Mr. Arun Murugappan, aged 50 years is a Promoter of the Company. He is currently the Managing Director of Parry Enterprises India Limited and is also on the Board of Coromandel Engineering Company Limited. He has played an instrumental role in establishing key alliances for the Murugappa Group companies both in India and across the globe.

The Board considers his continued association with the Company beneficial to the Company and hence recommends his re-appointment as a Director liable to retire by rotation for approval by the Members of the Company.

Memorandum of Interest

Except Mr. M A M Arunachalam, being the appointee, none of the other Directors or Key Managerial Personnel of the Company or their relatives is interested or concerned, financially or otherwise in the aforesaid Ordinary Resolution.

Item No.5

The Non-Executive Directors including the Independent Directors of the Company bring with them significant professional expertise and rich experience in diverse fields such as technology, engineering, corporate strategy, banking, management, external affairs, legal and compliance. The Board is of the view that adequate compensation be given to the Non-Executive Directors in recognition for their time and efforts.

At the fifty-ninth Annual General Meeting held on 30th July 2013, the Members had approved payment of remuneration by way of commission, to Directors (including the Alternate Directors), who are neither in whole-time employment of the Company nor the Managing Director(s) of the Company for a period of five financial years commencing from 1st April 2013 for an amount not exceeding 1% of the net profits of the Company computed in accordance with the provisions of the Companies Act, 1956 for each financial year. As the validity of the approval expired on 31st March 2018, the resolution seeking renewal of the approval for another period of five financial years is placed before the shareholders.

The Remuneration policy adopted by the Board which provides the framework for remuneration of members of the Board of Directors, Key Managerial Personnel and other employees of the Company specifies that the Commission payable to Non-Executive Directors will be restricted to a fixed sum within the limits prescribed under Section 197 of the Companies Act, 2013 annually on the basis of

tenor in office during a financial year. The policy further provides that keeping with evolving trends in industries and considering the time and efforts spent by specific Non-Executive Directors, the Board may consider paying differential commission. Accordingly, in line with globally accepted practices, in view of the considerable time and efforts spent by the Chairman of the Company in connection with its affairs, he is paid a differential commission. For more details, please refer the Corporate Governance Report in pages 75 and 76 forming part of the Annual Report.

The Board of Directors at their meeting held on 4th May 2018 have recommended to the shareholders to consider granting approval for payment of remuneration to Non-Executive Directors upto a sum not exceeding 1% of the net profits of the Company computed in accordance with Section 198 of the Companies Act, 2013 for each financial year. The said commission payable shall be in addition to the fees payable to Non-Executive Directors for attending the meetings of the Board and Committees thereof. Details of Directors as required under Secretarial Standard on General Meetings is available in the Corporate Governance Report.

Section 197 of the Act states that remuneration payable to Directors who are neither Managing Director(s) nor Whole-Time Directors shall not exceed 1% of the net profits of the Company and such remuneration shall be subject to the approval of the Members by a special resolution, if the articles so require. Article 17.16 of the Articles of Association of the Company provides that such approval be obtained by means of a special resolution and accordingly the special resolution set out under item no. 5 of the notice is placed before the Members for approval.

Memorandum of Interest

All the Directors and their relatives except Mr. K Srinivasan, Managing Director are concerned or interested in the above resolution to the extent of the commission that they may receive. None of the key managerial personnel or their relatives is concerned or interested, financially or otherwise in the aforesaid Special Resolution.

Item No.6

Pursuant to the Companies (Cost Records and Audit) Rules, 2014 and any amendments thereof, the Company is required to maintain cost accounting records in respect of products of the Company covered under CETA categories like organic and inorganic chemicals, electrical or electronic machinery, steel, plastic and polymers, ores and mineral products, other machinery, base metals etc. Further, the cost accounting records maintained by the Company is required to be audited. The Board

on the recommendation of the Audit Committee, has approved the appointment and remuneration of M/s. S Mahadevan & Co., Cost Accountants, as the Cost Auditor to conduct the audit of the cost accounting records of the Company pursuant to the Companies (Cost Records and Audit) Rules, 2014 for the financial year 2018-19 on a remuneration of ₹4,00,000/- excluding applicable taxes and out of pocket expenses incurred by them in connection with the Audit.

As per Section 148 of the Companies Act, 2013, the remuneration payable to the Cost Auditor is required to be ratified by the shareholders of the Company. Hence, the Ordinary Resolution at item no.6 is placed before the Members for ratification and the Board recommends the same.

Memorandum of Interest

None of the Directors or Key Managerial Personnel of the Company or their relatives is concerned or interested, financially or otherwise, in the aforesaid Ordinary Resolution.

Item No.7

The Companies Act, 2013 (the Act) has brought in significant changes in the provisions and procedures relating to raising of funds through private placement of securities.

The Company in the ordinary course of business raises funds to meet its funding requirements through long term borrowings in the form of term loans, inter-corporate deposits, external commercial borrowings etc. Funding requirements can also be addressed by raising funds through private placement of securities including by issue of debentures. In 2015, the Company had sought the approval of the shareholders to raise upto ₹2500 million by issue of redeemable Non-Convertible Debentures (NCDs) on private placement basis which was renewed at the last AGM as per the requirements of the Act. Since then, the Company has not utilised the same and has not made any specific offer of NCDs on private placement basis.

The Act mandates that the Company shall obtain prior approval of its shareholders by means of special resolution in respect of borrowings through NCDs during the year. Hence, the approval granted by the shareholders in the last AGM is required to be renewed if the Company chooses to raise funds through issue of Debentures. Accordingly, approval of the Members is sought by way of special resolution under the applicable provisions of the Act and the Rules made thereunder for issue of the NCDs on private placement basis, for a maximum amount of ₹2500 million, including any premium thereon, if any, as may be decided by the Board and at such interest rates as may be negotiated, as a part of the long term borrowing programme of

the Company, during the period commencing from the conclusion of the 64th AGM till the date of conclusion of the 65th AGM. Members are also requested to grant necessary authorisations to the Board (including any Committee thereof) for offering the NCDs in one or more tranches within its overall borrowing limits.

The Board recommends the Special Resolution contained in item no.7 for approval of the Members of the Company.

Memorandum of Interest

None of the Directors and Key Managerial Personnel of the Company or their relatives is concerned or interested, financially or otherwise in the aforesaid Special Resolution.

By Order of the Board

Chennai,
May 4, 2018

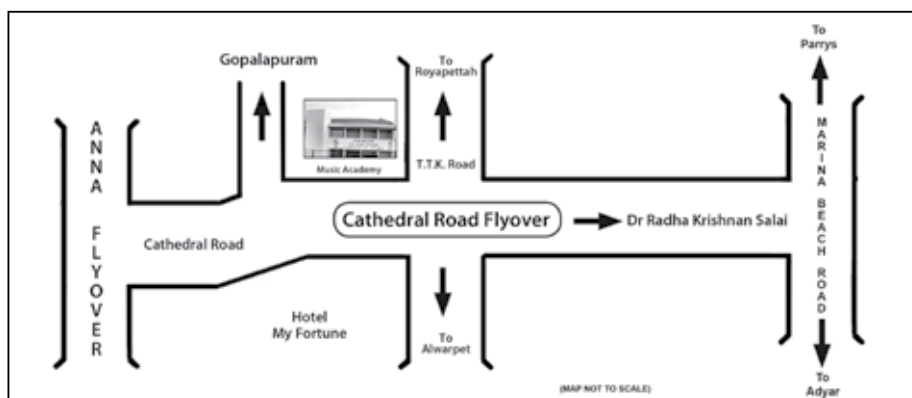
Rekha Surendhiran
Company Secretary

Disclosure under Reg. 36(3) of SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 and Clause 1.2.5 of Secretarial Standards on General Meetings

Name of Director	M A M Arunachalam
DIN	00202958
Date of Birth	18 th June 1967
Date of Appointment (Initial)	28 th October 2016
Qualification	Bachelor of Commerce, Loyola College, Chennai & holds a Masters in Business Administration from the University of Chicago
Expertise in specific functional areas	Has over 25 years of experience in diverse areas of Business Development and strategic initiatives.
Directorships in other companies (including foreign companies)	Coromandel Engineering Company Limited Parry Enterprises India Limited Ambadi Investments Limited New Ambadi Estates Private Limited M.A.Murugappan Holdings Private Limited AR Lakshmi Achi Trust Parry Murray & Company Ltd., UK (Foreign Company)
Memberships in Board Committees of other companies (includes membership details of all Committees)	Chairman Stakeholders Relationship Committee - Coromandel Engineering Company Limited Member Audit Committee, Corporate Social Responsibility Committee - Coromandel Engineering Company Limited
No. of shares in the Company	1,100,600 (represents shares held in individual capacity and as a Karta of HUF)
Inter-se relationship with any other Directors or KMP of the Company	Nil

Note: For further details, please refer the Corporate Governance Report section of the Annual Report.

ROUTE MAP TO AGM VENUE





Engineering the Future



CARBORUNDUM UNIVERSAL LIMITED
ANNUAL REPORT 2017-2018

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Note: Across this report, the word "CUMI" refers to "Carborundum Universal Limited."

Cautionary Statement

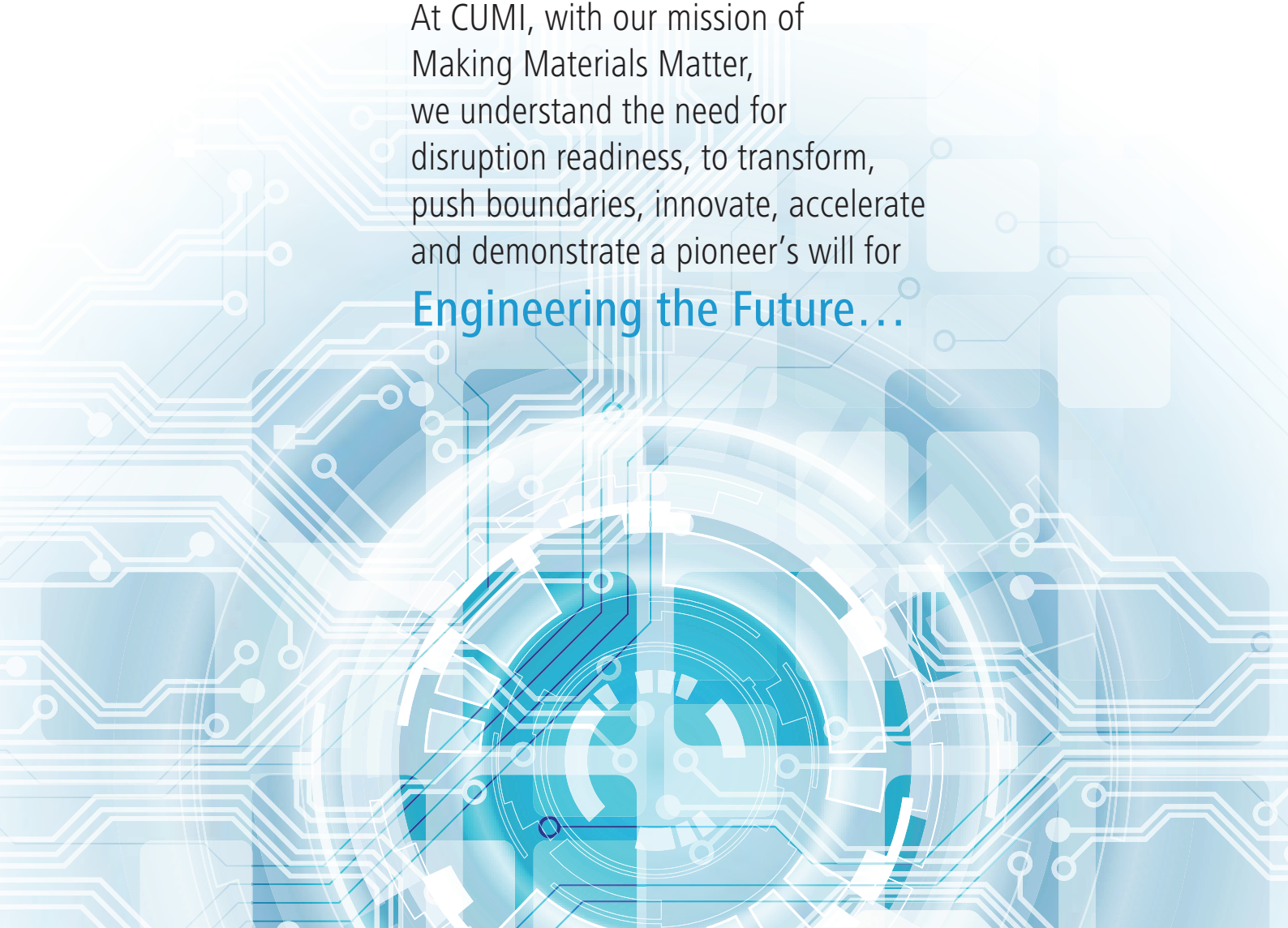
This Report contains statements relating to future business developments and economic performance that could constitute 'forward looking statements'. While these forward looking statements represent the Company's judgements and future expectations, a number of factors could cause actual developments and results to differ materially from expectations. The Company undertakes no obligation to publicly revise any forward looking statements to reflect future events or circumstances. Further, investors are requested to exercise their own judgement in assessing various risks associated with the Company and also the effectiveness of the measures being taken by the Company in tackling them, as those enumerated in this Report are only as perceived by the management.

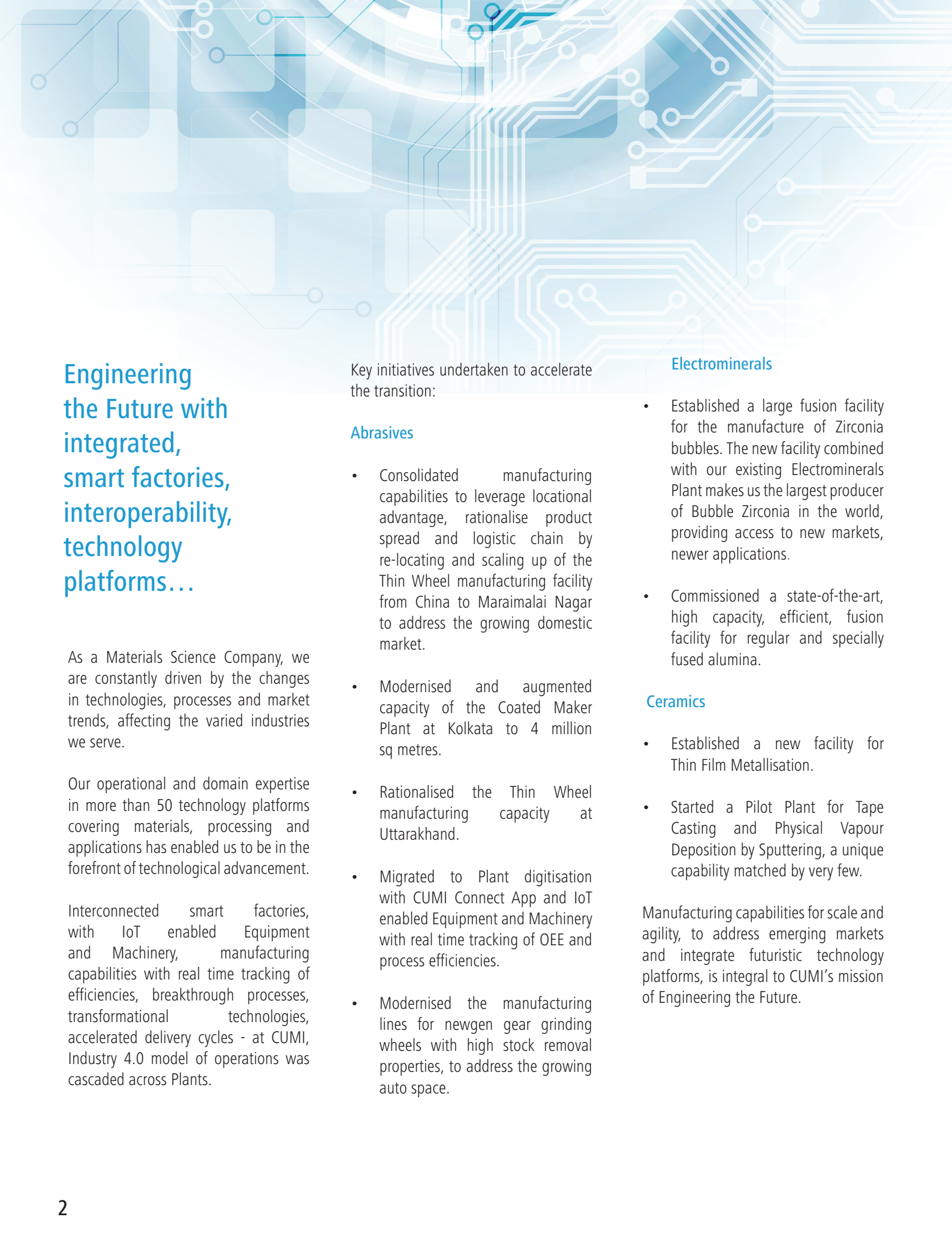
The product displayed in the wrapper is our gold coated metallised ceramic substrates used in microwave integrated circuit for space applications.

As the World races ahead to the
frontiers of a New Age of Technology,
Materials Science will determine
the Future of Human Civilization.

Materials with the potential to
completely transform the world,
are being discovered
and are waiting to usher in
disruptive innovation like
nothing we have ever seen before.

At CUMI, with our mission of
Making Materials Matter,
we understand the need for
disruption readiness, to transform,
push boundaries, innovate, accelerate
and demonstrate a pioneer's will for
Engineering the Future...





Engineering the Future with integrated, smart factories, interoperability, technology platforms...

As a Materials Science Company, we are constantly driven by the changes in technologies, processes and market trends, affecting the varied industries we serve.

Our operational and domain expertise in more than 50 technology platforms covering materials, processing and applications has enabled us to be in the forefront of technological advancement.

Interconnected smart factories, with IoT enabled Equipment and Machinery, manufacturing capabilities with real time tracking of efficiencies, breakthrough processes, transformational technologies, accelerated delivery cycles - at CUMI, Industry 4.0 model of operations was cascaded across Plants.

Key initiatives undertaken to accelerate the transition:

Abrasives

- Consolidated manufacturing capabilities to leverage locational advantage, rationalise product spread and logistic chain by re-locating and scaling up of the Thin Wheel manufacturing facility from China to Maraimalai Nagar to address the growing domestic market.
- Modernised and augmented capacity of the Coated Maker Plant at Kolkata to 4 million sq metres.
- Rationalised the Thin Wheel manufacturing capacity at Uttarakhand.
- Migrated to Plant digitisation with CUMI Connect App and IoT enabled Equipment and Machinery with real time tracking of OEE and process efficiencies.
- Modernised the manufacturing lines for newgen gear grinding wheels with high stock removal properties, to address the growing auto space.

Electrominerals

- Established a large fusion facility for the manufacture of Zirconia bubbles. The new facility combined with our existing Electrominerals Plant makes us the largest producer of Bubble Zirconia in the world, providing access to new markets, newer applications.
- Commissioned a state-of-the-art, high capacity, efficient, fusion facility for regular and specially fused alumina.

Ceramics

- Established a new facility for Thin Film Metallisation.
- Started a Pilot Plant for Tape Casting and Physical Vapour Deposition by Sputtering, a unique capability matched by very few.

Manufacturing capabilities for scale and agility, to address emerging markets and integrate futuristic technology platforms, is integral to CUMI's mission of Engineering the Future.



IoT enabled operations at Tiruvottiyur



Bubble Zirconia Plant, Edappally



IoT enabled smart products, application-interface maximising process efficiencies, future driven R&D incubating innovation breakthroughs, patent protected products and processes, domain expertise with new age materials - Engineering the Future was on full throttle at CUMI.

Abrasives

Ultra high speed grinding technologies, with stringent requirements in efficiency, close tolerance and quality are becoming an industry norm. CUMI's abrasive wheels have redefined grinding applications with their significant performance characteristics, offering high throughput, dimensional and thermal integrity, along with superior mechanical properties.

Products with design registration:

- The Fibonacci series of F Type, profiled wheels, with greater cutting and cooling efficiencies, saving time and energy for the automobile and bearing industry.
- IoT enabled, grinding wheel which monitors real time temperature in the grinding zone, applying necessary changes to the grinding parameters. This enables burn free, grinding of high value components.
- High precision wheels for grinding crankshaft and super alloys like Inconel and Titanium for Fasteners used in Aerospace applications.
- Collaborative development of unique grain and bond systems with the Electrominerals division.
- Spring grinding wheel, with very large diameter of 1500 mm for heavy duty applications in the Railway industry. A capability matched by very few Abrasive manufacturers in the world.

- Film backed, Coated Abrasives for fine polishing in ferrous and non ferrous, metal, glass and composite applications.
- 'Fero' light weight wheels with fibre reinforced polymer core for very high speed grinding applications. A patented product, engineered in collaboration with CUMI's Prodorite Division. In addition to its superior performance properties, the reusable fibre core reduces wastage, cost and carbon footprint, promoting sustainable processes - an important enabler in Engineering the Future.

Electrominerals

The Electrominerals division developed a range of application specific materials for diesel particulate filter, high performance Abrasive materials for battery and Engineered Ceramics and high and low temperature insulations.

Super Refractories & Prodorite

- Emerging technologies in composites are replacing conventional materials in many applications and also eliminating the limitations of manufacturing large parts. CUMI augmented the Vacuum Infusion Technology at its Ranipet facility gaining

the capability to manufacture large parts for niche applications in emerging industries such as Nacelle Cover for Wind Mills, Rail Coach interiors, etc.

- Developed a Carbon Fibre Reinforced Plastic (CFRP) core wheel material with superior performance characteristics for high speed grinding applications.
- Started the manufacture of WEARSHIELD, range of wear solutions, offering both durability and flexibility in operations.
- Created additional opportunities in horizontal deployment as import substitute for the replacement market.
- Designed and developed an import substitute for a Ceramic material used for Wear application.

SiC Foam





Engineering the Future with new age materials, disruptive innovation...

Ceramics

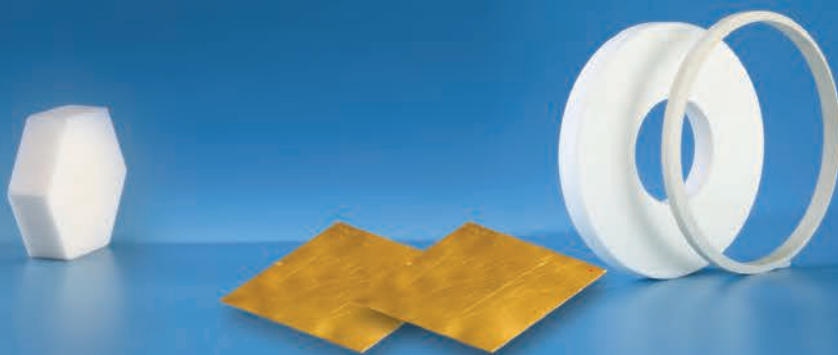
The Industrial Ceramics division filed several patents for innovative product and process designs, few of them for:

- Silicon Carbide Graphite Composite Material and Process.
- Zirconia Toughened Alumina Ceramic Composites.
- Partially Stabilized Zirconia & Zirconia Toughened Alumina based Ceramic Minimedia.
- Ceramic Reinforced Bulk Metallic Glass Composite.
- Early warning Wear Detection System.



In addition, a range of Ceramic products were developed for niche and specialised applications.

- Foraying into thin film Metallised Ceramic Substrate for Space and Ground Applications. CUMI would be the 1st Indian Company and among a select few globally to have Thin Film Metallised Ceramic Products in its portfolio.
- CUMITHERM-Z -Zirconia products for Thermal & Thermo-wear protection applications for Steel and Power Plant applications.
- Zirconia Toughened Alumina for Wear & Impact Resistance Applications.
- Zirconia based Ceramic Minimedia by Drip Casting Process, a collaborative engineering project with Electrominerals.
- Development of Hydrothermal Grade of Zirconia for High Performance Seals for the European Market.
- Development of in situ Stabilised Magnesia, partially Stabilised Zirconia and Yttria partially Stabilised Zirconia, for advanced structural applications.
- Initiated the development of Multi-Layer Co-Fired Ceramics (MLCC) for strategic applications. Trials are under progress with processes such as Debinding, Co-firing, Nickel plating and brazing for higher variants of the substrates.
- CUMITUFF 96 for Premium Wear and Thermal Applications.
- Collaborative Projects with Indian Institute of Technology, Madras for Nano and cutting edge technologies.
- Indigenised Armour Product Development.



Engineering the Future with collaborative partnering with customers & channel partners...

The Company continued its Industry 4.0 drive for 'smart manufacturing' with 'CUMI Connect' an IT Enabling Platform, providing digitisation and integration of all operations across its value chain. With real time data capturing from research and development to operations planning to marketing and sales, CUMI Connect has redefined efficiencies, reduced lead times and has proven to be a game changer in customer connectivity.

Advanced engineering mandates precision manufacturing with stringent levels of accuracy, precision, and complex part geometry. To ensure adherence to high quality standards, CUMI measures and tracks high speed machining processes at the Surface Technology Centre, a state-of-the-art simulation lab, before the products are launched in the market.

Customer engagement at major international industrial fairs and meets and Joint Development Plan agreements, added to new learnings and collaborative projects in advanced materials and alternate technologies.

CUMI's Electrominerals division achieved a technology leap with 'Boehmins'- a patented, speciality alumina project, slated for commercial production to create a variety of aluminas for specific, advanced applications.

Foraying with proprietary technology for manufacturing an array of nano materials including graphene, carbon nano tubes and its variants for advanced and emerging applications is an integral part of the Company's plans for Engineering the Future.

Customer interface at various trade fairs





Pilot Plant for 'Boehmins' patented Speciality Alumina



Engineering the Future with application expertise and customised solutions...

Super Refractories division continued its leadership position in engineering and application expertise in customised, high performance materials, for a wide spectrum of industries such as:

- Abrasion Resistant FRP products for Flue Gas Desulphurization applications in coal fired thermal power plant.
- High performance refractory for 2000 degree Celsius, high temperature applications in Carbon Black Industry.
- Shaped Dome refractory for Petrochemicals.
- Refractory lining material for applications in the Glass Industry.
- Silicon Carbide Kiln furniture, tiles and beams for the Ceramic Industry.
- High temperature Refractory for the Rocket Launching Pad of ISRO.



*Shaped Dome refractory
for Petrochemical industry*

Leveraging on its cross industry engineering capabilities and technical expertise, CUMI continued to build collaborative alliances and technical partnerships with customers and channel partners in each of its businesses, to offer products and solutions for Engineering the Future.



**CARBORUNDUM
UNIVERSAL LIMITED**

**MOS
350 RPM**

**USE BEFORE
MAR - 2019**

**A36 TDV 833 S
1508 X 150 X 700MM**

Spring grinding wheel, with very large diameter of 1500 mm for the Railway industry.

Exploring new frontiers and Engineering the Future...

From large diameter wheels and Refractory domes to ultra fine grains and wafer thin substrates, from high speed grinding operations to exploring new possibilities in engineering

surfaces, CUMI is building capabilities for the dynamically changing New Age of Technology and Materials Science.



Accelerating change and transformation with advanced manufacturing and design capabilities, sustainable processes, empowered people force, innovation led products, path breaking

research, customer partnering, value creation and increasing global footprint - CUMI is ready to explore new frontiers in Engineering the Future.

Installation Experts





Corporate Governance Award



HR Excellence Award

Engineering the Future with a collaborative workforce, empowered to deconstruct, design-think...

Our diverse, multi-cultural, 5,000 plus, people base, spanning 5 continents, provides us a dynamic and collaborative eco system, to share learnings, transact and do business in different countries across the world.

To accelerate the shift to a fast changing, digitally driven world, the focus was to build 'adapt-absorb-accelerate' people capabilities, with disruptive innovation and creative thinking, to create value for the organization.

Unlocking potential through training platforms, accelerated leadership development programmes, career progression modules, rewards and recognition programmes, communication and engagement initiatives fostering design thinking formed an integral part of building a robust, people resource, ready to Engineer the Future.



TPM Awards for Abrasive division - Hosur, Sriperumbudur, Maraimalai Nagar



TPM - Champion of Champions Award



ECGC Award- Engineering- in the 'Diversified Product Category

Continuing awards and recognition spanning divisions and functions, cascaded a winning culture across the Company, serving as a catalyst for Engineering the Future with excellence.



TPM Award- IC, Hosur



Graduates of the CUMI Leadership Programme with Great Lakes Institute of Management Studies

Engineering the Future through a commitment to stakeholder and society...



Practical sessions for CCSD students

CUMI's Corporate Social Responsibility initiatives are centred on providing need based support to the neighbouring communities in which it operates.

CUMI Centre for Skill Development (CCSD), a direct CSR initiative institutionalized by the Company trains youngsters from the less privileged background, providing them with employability skills. The Skill development centres both at Hosur and Edapally, offer students a comprehensive module, including skill based technical training with soft skills and personality development, thereby enhancing their employability potential.

The first two batches of trainees have graduated during the year, with many emerging as toppers in regional and national level skill competitions.

CUMI also contributes largely to the socio-welfare initiatives of the neighbouring communities across its various locations ranging from health camps, environmental and sustainability awareness sessions, women entrepreneur development programmes, through its various platforms such as Community Development Centre, CUMI - ASK Centre, CUMI Community Outreach Services, etc.



Employee engagement initiatives - Volzhsky Abrasive Works, Russia

As a committed, environment friendly organisation, CUMI's Plants across the country adhere to the highest standards in Environment Management and have been accredited with ISO 14001 certificate. The Company supports green cover development, with tree planting drives and sustainable practices across locations.

CUMI's Plants are also BS-OHSAS 18001-2007 certified for occupational health and safety management systems, reinforcing its commitment for providing and maintaining a safe and hygiene working environment.



Edappally Plant

CUMI's high standards of Governance in all its activities driven by the Five Lights - Spirit of the Murugappa Group, has been duly recognised with the conferment of the Golden Peacock award for Corporate Governance, during the year.

The Spirit of the Murugappa Group

These **five lights** guide us
as we navigate through professional
and personal decisions.

The light of

RESPONSIBILITY

that gives us the humility to
think about the world around us

The light of

INTEGRITY

that gives us the courage to
always do the right thing

The light of

PASSION

that provides us with
the desire to win

The light of

RESPECT

that inspires people
around us to perform

The light of

QUALITY

which makes us
dream of excellence

CHAIRMAN'S MESSAGE

The world around us is dynamically changing providing us ample opportunities to create technological solutions for the future and progress collectively in "Making Materials Matter."



Dear Shareholders,

The year 2017-18 turned out to be a very good year for CUMI with revenue growth resuming double digit levels driven by better performance across all major segments. The global economy grew with a broad based momentum from continuing strong performance in the Euro region, Japan, China and the United States. With the world economy enjoying a synchronised recovery, the emerging and developing economies also grew at a notable pace. The growth in advanced economies is forecasted to continue in the near term and the growth in emerging market and developing economies is expected to rise as well. Indian economic growth is also projected to increase lifted by strong private consumption as well as the diminishing transitory effects of the changes in its tax regime.

CUMI, its subsidiaries and joint venture companies had a good year with consolidated revenues (after normalising for excise duty) increasing by twelve per cent over the previous year. The recommissioning of the relocated plants from overseas across various locations into India were completed successfully, ably aiding the growth in overall operations. With a firm focus on delivering operational efficiencies through Total Productive Maintenance (TPM) practices across all plants, not only did the production efficiency improve but also it enhanced the overall profitability duly supported by prudent cost management efforts. It gives me immense pleasure to share with you that while the Industrial Ceramics and Bonded Abrasives plants of the Company at Hosur, Tamilnadu were awarded the JIPM excellence award in TPM after a very rigorous evaluation this year, the plants in Sriperumbudur and Maraimalai Nagar, recipients of the excellence awards in the year 2014-15 were conferred consistent TPM commitment awards in due recognition of their sustainable practices. The capital expenditure programmes which were predominantly for relocation and maintenance were well executed. Prudent working capital management continued to keep the Company debt free and capital expenditure was met from internal accruals.

Abrasives

Abrasives, CUMI's largest business segment recorded a nine per cent growth during the year riding on macro-economic factors like infrastructure development as well as its strengths of new products and expanding dealer & distribution network. Though the year commenced on a challenging note with the implementation of the Goods and Service Taxes creating some uncertainty in the distribution network, the business improved subsequently. The business maintained its competitive edge by increasing indigenous sourcing of input materials and bringing in better efficiencies through TPM practices across plants. With the Russian subsidiary, Volzskhy Abrasive Works introducing newer products and exploring newer territories, the Abrasives sales in Russia was also higher this year. Sterling Abrasives, the Indian subsidiary manufacturing specialist conventional Abrasives performed well. Wendt India, the joint venture company which addresses the Super Abrasives, Grinding machines & Precision components market also delivered better

performance in terms of revenue and recorded a significant increase in its profitability due to changes in product mix. Performance of CUMI Abrasives and Ceramics Company, China which is now operating on a new business model post discontinuance of in-house manufacturing operations last year, stabilised during the year with its operational loss coming down significantly.

Ceramics

The Ceramics business did well during the year with the consolidated sales being eleven per cent higher than the previous year. The Metallized Cylinder Plant set up last year with equipment from NTK, Japan commenced production during the year and is expected to rapidly scale up. With continuing marketing efforts targeting newer markets and partnering with global customers, the Engineered Ceramics and Wear Ceramics segments also did very well. In-house raw materials used in the production of Engineering Ceramics and Metallized Ceramics gives this business division a competitive edge over the market. The Lined Equipment business at CUMI Australia continued to do well and CUMI America on the back of the benefits accruing from initiatives driven over the last few years has minimised its losses thus improving the consolidated performance. With investments in new technology for enhancing its product range for various user industries, in particular, Iron & Steel, the Refractories business is poised to grow well. The performance of the Company's joint venture Murugappa Morgan Thermal Ceramics engaged in manufacture of Ceramic Fibre products remained flat owing to subdued market conditions.

Electrominerals

The Electrominerals business of CUMI which did not do very well last year rebounded well with an eighteen per cent growth in revenues. The new regulations in China benefited this segment thus increasing volumes both in domestic and international markets across product lines. Despite an increase in overall profitability, the business continues to be impacted by increasing input costs, mainly power resulting from continuing lower rainfall in Maniyar, India which houses the division's hydel power plant as well as increase in mineral prices globally. Volzhsky Abrasives, Russia ran at near full capacity and though the volumes were higher than last year, the maintenance issues in the external power grid leading to power outages impacted performance. The lower sales of Fused Zirconia in South Africa and high input cost adversely impacted the consolidated sales which however was still higher than the previous year.

Southern Energy Development Corporation Limited, the gas based power generation subsidiary recorded good revenues though marginally less than the previous year consequent upon reduction in gas supply as compared to the previous year. It recorded a growth of over twenty one percent in profitability. Net Access, the subsidiary providing IT facilities management and allied services recorded a marginal growth in turnover and profitability in the midst of competitive market conditions and certain strategic projects not taking off as envisaged.

After due consideration of the performance for the year, future projects and the cash flow position of the Company, the Board has considered an enhanced dividend of ₹2.25 per share for the year (29% more than the previous year) of which ₹1.00 per share has already been paid as interim dividend during the year.

Being a materials science technology oriented organisation, research and development plays a crucial role in CUMI's growth trajectory and is a significant driving force. During the year, the number of research centres recognised by the Department of Scientific and Industrial Research, Government of India increased from six to seven, each serving as Centers of Excellence, fueling the technology initiatives across the organisation. Over 45 IPRs were created across various divisions during the year. Dedicated knowledge sharing sessions and training sessions were organised across the Company to reinforce the commitment to be technologically progressive. An IPR manual was prepared and this serves as a ready reckoner to employees who are constantly seeking to innovate, for protection of their ideas. Across CUMI operations, many technologists and scientists are working within and across divisions in a collaborative manner to enhance capabilities in the technologically advancing external environment.



The year 2017-18 continued to be a year of accolades and recognitions for CUMI. Besides being the recipient of the coveted TPM excellence awards across various business divisions, CUMI also received the prestigious Golden Peacock award in the engineering sector for Corporate Governance in due recognition of its governance practices. The Electrominerals division was conferred the HR excellence by the Confederation of Indian Industry (CII).

The CUMI Centre for Skill development (CCSD), the CSR initiative of CUMI addressing the training and development requirements of rural and underprivileged youth and honing their skills for future employment continued to function well. The year witnessed the graduation of the first and second batch of students who not only passed with flying colours but went on to be adjudged as winners in various regional and national level skill competitions.

Safety at the workplace continues to be top priority and receives highest attention from the Board. Besides periodic training and awareness sessions, dedicated safety training workshops were held for identification and elimination of unsafe working conditions. The Safety, Health and Environment risks are periodically monitored and the mitigation measures are reviewed considering its paramount significance on the operations.

While supporting the businesses in fulfilling their strategic intent and directions, the various teams at corporate office have been very agile in adapting to the dynamic regulatory scenario not only ensuring compliance but also in quickly aligning the processes and procedures to the revised regulatory norms.

The CUMI team across the world, under the able leadership of Mr. K Srinivasan, Managing Director and leaders across geographies pursues the core objective of engineering the future with excellence. During my interaction with them during visits, I'm most touched by their commitment and passion. It is indeed very gratifying to see them develop capabilities with conviction and confidence to address the future opportunities. Mr. R Rajagopalan after having served the Company for over 38 years retired as the Business Head of the Refractories division. We wish him well in his retirement. We welcome Mr. V G Rajendran who has taken over the helm of affairs of this division from Mr. Rajagopalan. I also wish to acknowledge Mr. Sridharan Rangarajan's valuable contribution to the Company during his term as Chief Financial Officer (CFO) since 2011 before moving to the Group in January 2018, as its CFO.

CUMI's Board of Directors continue to be a source of great inspiration and wise counsel to me. Their exercise of sound judgement while advising the team and me personally on the business as well as challenging us to greater levels of achievement is most commendable and I am thankful to them for being generous with their time and wisdom.

I take this opportunity to pay homage to Late Mr. M V Murugappan, former Chairman of the Company who passed away on 19th September, 2017 at the age of 81. Mr. M V Murugappan had been longest serving Managing Director of the Company from 1979 to 2000 before he took over the Chairmanship. Under his leadership, CUMI not only grew as India's leading manufacturer of Abrasives but his vision for technological leadership in the domain of materials led to several expansions including setting up of Industrial Ceramics division as well as investments in backward integration projects in hydro-electric and thermal energy, projects which were far ahead of times and continuing to give us a competitive edge even today.

The world around us is dynamically changing providing us ample opportunities to create technological solutions for the future and progress collectively in "Making Materials Matter." Towards this, the encouragement and unstinted support we receive from each of our stakeholders be it customers, suppliers, vendors, bankers and of course you shareholders is indeed wonderful for which my colleagues and I are most grateful.

With warm regards,

M M Murugappan



In loving memory of
Shri M V Murugappan
1936 - 2017



The passing away of Shri M V Murugappan, our former Chairman on 19th September, 2017, ends an important era in CUMI's history. A gentleman, visionary and a person far ahead of times, he Engineered the Future of CUMI, as its longest serving Managing Director, introducing breakthrough technologies and emerging business streams that have proven to be a competitive edge for the Company today.

A humble and gentle humanist, a passionate environmentalist, a champion of various social causes, he commanded deep respect not only from the industry but also from the scientific community and academic institutions, for his wisdom, nobility and futuristic thinking.

"Sir, as you move from finite to infinite, your unseen hand on our shoulder will ever so gently guide us in all that we do."

BOARD OF DIRECTORS

Engineering the Future
through vision driven
leadership...



Board of Directors during their visit to the Edappally Plant
(Standing L-R) K Srinivasan, P S Raghavan, Bharati Rao,
M M Murugappan, Sujain S Talwar, T L Palani Kumar,
Aroon Raman, M A M Arunachalam, Sanjay Jayavarthanavelu

M M Murugappan, 62 years

Mr. Murugappan holds a Masters degree in Chemical Engineering from the University of Michigan, USA. Besides serving as the Chairman of Coromandel International Limited, Tube Investments of India Limited, Wendt (India) Limited and TI Financial Holdings Limited, he is on the Boards of several companies including Mahindra & Mahindra, IIT Madras Research Park and Cyient. He was elected as a fellow of the Indian Ceramic Society and is also a member of the American Institute of Chemical Engineers, Indian Institute of Chemical Engineers, Plastics & Rubber Institute. He is also a member of the Board of Governors, IIT Madras and is the Executive Chairman of the Murugappa Corporate Advisory Board.

T L Palani Kumar, 68 years

Mr. Palani Kumar is a Graduate in Chemical Engineering from the Indian Institute of Technology, Madras and a Post Graduate (Diploma) in Business Administration from the Indian Institute of Management, Ahmedabad. He has served as the Chief Executive Officer of Escorts Tractors Limited & New Holland Tractors Private Limited and as the Managing Director of Bharat Aluminium Company Limited. He is also on the Boards of Fostiima Integrated Learning Resources Private Limited and SBI Capital Markets Limited.

Aroon Raman, 58 years

Mr. Aroon Raman holds a Master's degree in Economics from Jawaharlal Nehru University, New Delhi and a MBA from Wharton School, USA. He was the Managing Director of Raman Boards and then Raman Fibre Science Private Limited. He has served as Chairman of Confederation of Indian Industry, Karnataka. Besides being the Managing Director of Telos Investments & Technologies Private Limited he is also on the Boards of various companies including Wheels India, Brigade Enterprises, TVS Automobile Solutions and EduTech NTT Private Limited.

Sanjay Jayavarthanavelu, 49 years

Mr. Sanjay Jayavarthanavelu holds a Master's degree in Business Administration from Philadelphia University, USA. Currently, he is serving as the Chairman and Managing Director of Lakshmi Machine Works and as the Chairman of Super Sales, Lakshmi Life Sciences and Quattro Engineering India. He is also on the Boards of several companies viz., The Lakshmi Mills Company, Lakshmi Technology and Engineering Industries, etc.

Bharati Rao, 69 years

Mrs. Bharati Rao holds a Masters degree in Economics and is a Certified Associate of the Indian Institute of Bankers. She brings in over three-decades of rich experience in Banking and Finance. Having joined State Bank of India in the year 1972, she rose to become its Deputy Managing Director, holding concurrent charge of few of its associate banks and non-banking subsidiaries besides being an Advisor for mergers and acquisitions. She is also on the Boards of Tata Teleservices, Chalamandalam Investment and Finance Company, SBI Capital Markets, Can Fin Homes, Wheels India Limited, etc.

M A M Arunachalam, 50 years

Mr. M A M Arunachalam, also known as Arun Murugappan is an MBA graduate from the University of Chicago. He is the Managing Director of Parry Enterprises India Limited. A fourth generation member of the Murugappa family, he drives the business development and strategic initiatives for the Company by identifying opportunities for its divisions – General Marketing Division (GMD), Parry Travels and Tuflex India. He is also on the Board of Coromandel Engineering Company Limited.

P S Raghavan, 62 years

Mr. Raghavan holds a Bachelor's degree in Physics from St. Stephen's College, Delhi as well as in Electronics & Communications Engineering from the Indian Institute of Science, Bangalore. Being in the Indian Foreign Service since 1979, he has held various diplomatic assignments in Moscow, Warsaw (Poland), London (UK), Ho Chi Minh City (Vietnam) and Pretoria (South Africa). He has been the Joint Secretary in the Prime Minister's Office dealing with Foreign Affairs, Nuclear Energy, Space, Defence and National Security; Secretary in the Ministry of External Affairs and the Indian Ambassador to countries like Russia, Ireland and Czech Republic etc. He is presently, the Convenor of National Security Advisory Board of India of the National Security Council Secretariat of the Government of India.

Sujain S Talwar, 54 years

Mr. Sujain Talwar is a qualified solicitor in India and England & Wales with over 25 years of experience. He is the founding partner of Economics Law Practice, a law firm that has consistently been ranked as a top 10 law firm, with over 150 lawyers and offices in 6 cities. He has in the past worked with reputed law firms such as Crawford Bayley, Pinsent Masons etc. He has been named as a leading individual for his 'depth of knowledge' 'innovative approach' and 'timely deliverables' by the Legal 500.

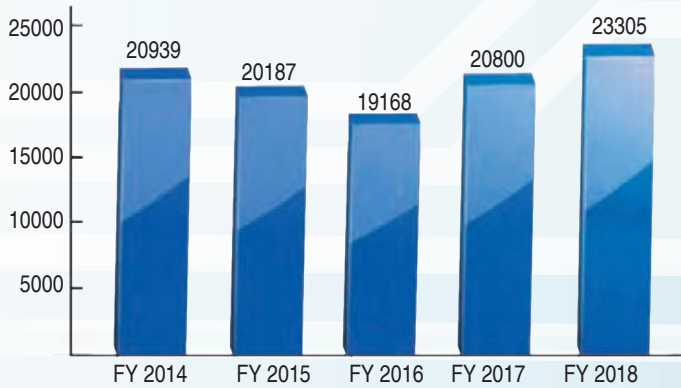
K Srinivasan, 60 years

Mr. Srinivasan is a Graduate in Mechanical Engineering from REC, Surathkal, Karnataka. He earlier worked with Widia India, Philips India and Wendt India Limited. He has been associated with the Company since 1999 and was part of the team that set up the first overseas operations in Australia. He has been serving as a Board Member of the Company since 2005 and is currently the Chairman of Murugappa Morgan Thermal Ceramics Limited. He is on the Boards of Wendt India, Sterling Abrasives and Volzhsky Abrasive Works etc.

FINANCIAL HIGHLIGHTS

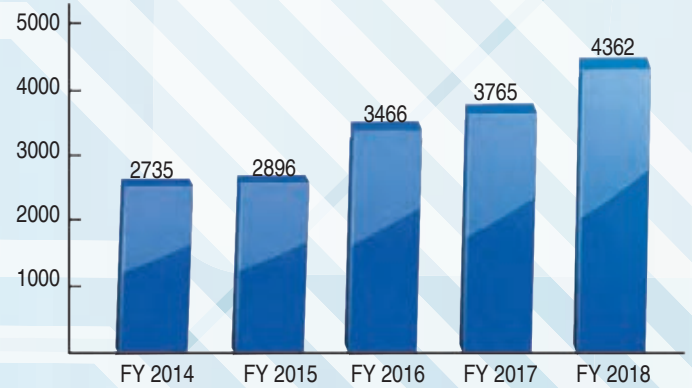
NET SALES

₹ million



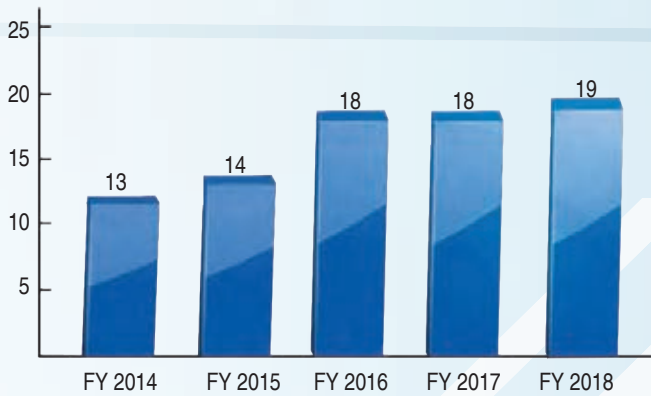
EBITDA

₹ million



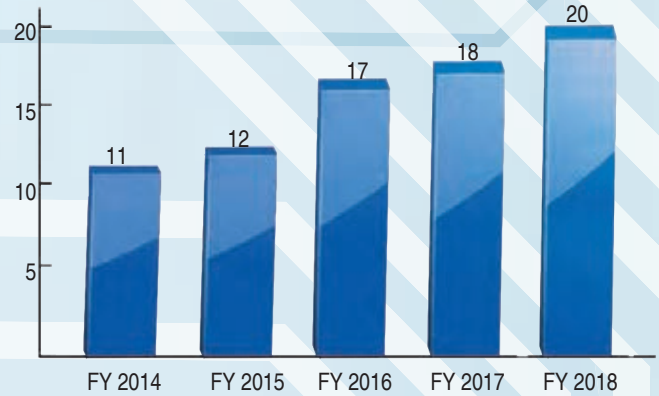
EBITDA MARGIN

%



RETURN ON CAPITAL EMPLOYED

%



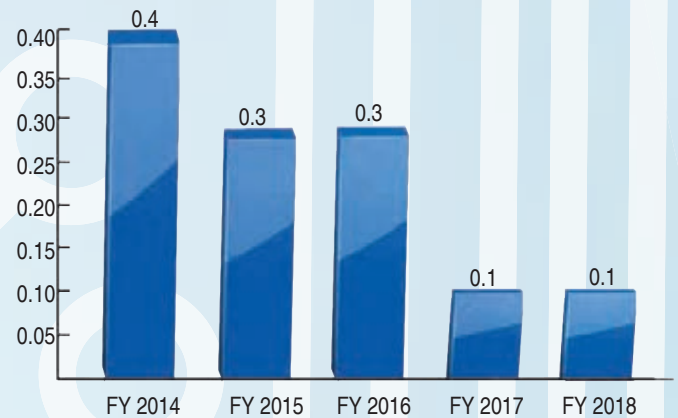
EARNINGS PER SHARE

₹



DEBT / EQUITY

x



Financial Highlights

₹ million

Summary information	Consolidated performance					Standalone performance				
	2018 [#]	2017 [#]	2016 [#]	2015	2014	2018 [#]	2017 [#]	2016 [#]	2015	2014
Net Sales	23305	20800	19168	20187	20939	15514	13828	12735	11518	11276
EBITDA *	4362	3765	3466	2896	2735	2805	2464	2385	1800	1645
PBIT *	3302	2800	2598	1892	1825	2067	1795	1764	1212	1154
PBT	3216	2619	2369	2204	1543	2052	1707	1675	1994	1024
PAT	2156	1749	1441	1326	915	1435	1218	1164	1483	728
Net Fixed Assets	6508	6626	6222	7204	8260	4474	4595	4435	4070	4283
Net Working Capital	7366	5578	4143	3790	4491	4709	3487	2888	2939	2593
Non Current Investments	1232	1195	1293	78	81	2569	2541	2561	2375	1306
Shareholders Network	15643	13828	11923	10887	11060	11697	10550	9584	8599	7336
Loan Funds	1294	1559	3199	3402	4563	18	26	1091	835	1188
Ratio Analysis										
Performance Ratios										
EBITDA / Net Sales %	19%	18%	18%	14%	13%	18%	18%	19%	16%	15%
PBIT / Net Sales %	14%	13%	14%	9%	9%	13%	13%	14%	11%	10%
Asset Turnover times	1.3	1.2	1.1	1.1	1.1	1.4	1.3	1.3	1.3	1.2
Return on Capital Employed %	20%	18%	17%	12%	11%	19%	17%	17%	13%	14%
Return on Equity	15%	14%	13%	12%	8%	13%	12%	13%	19%	10%
International Revenue (net) share %	45%	45%	44%	46%	50%	23%	23%	21%	20%	19%
Leverage Ratios										
Interest Cover times	50.7	20.8	15.1	11.4	9.7	191.2	28.1	26.8	20.7	12.7
Debt Equity Ratio	0.1	0.1	0.3	0.3	0.4	0.0	0.0	0.1	0.1	0.2
Debt / Total Assets	0.1	0.1	0.2	0.2	0.2	0.0	0.0	0.1	0.1	0.1
Liquidity Ratio										
Current Ratio	2.8	2.4	1.8	1.7	1.8	3.0	2.7	2.2	2.6	2.2
Activity Ratio										
Inventory Turnover days	65	66	71	74	73	57	60	62	63	59
Receivable Turnover days	67	66	68	71	68	69	67	68	71	69
Creditors No. of days	38	38	41	49	46	50	47	43	43	43
Cash Cycle days	94	94	98	96	95	76	80	87	91	85
Investor related Ratios										
Earning Per Share (₹)	11.4	9.3	7.7	7.1	4.9	7.6	6.5	6.2	7.9	3.9
Dividend Per Share (₹)	NA	NA	NA	NA	NA	2.25	1.75	1.50	1.25	1.25
- Interim	NA	NA	NA	NA	NA	1.00	1.00	1.50	0.75	0.75
- Final (proposed and paid in subsequent year)	NA	NA	NA	NA	NA	1.25	0.75	-	0.50	0.50
Dividend Payout %	NA	NA	NA	NA	NA	33.5%	29.6%	26.0%	16.0%	36.6%
Price to Earnings Ratio	30.2	27.0	22.8	25.4	25.3					
Enterprise Value / EBITDA	14.9	12.8	10.3	12.6	10.0	NA	NA	NA	NA	NA
Enterprise Value / Net Sales	2.8	2.3	1.9	1.8	1.3	NA	NA	NA	NA	NA

* excluding exceptional income/expenses (Net)

The figures mentioned herein above for the years ended 31st March 2018, 31st March 2017 and 31st March 2016 are based on Indian Accounting Standards (Ind AS), hence not comparable with previous year figures prepared under previous GAAP.

Glossary

A Performance Ratios

EBITDA/Net Sales %	EBITDA = PBT + Interest + Depreciation - Exceptional items Net Sales = Gross Sales - Excise duty on Sales
PBIT/Net Sales %	PBT + Interest - Exceptional items
Asset Turnover times (excluding Investments)	Net sales/ Average of Total assets excluding Investments
Return on Capital Employed %	PBIT/Average Capital Employed
Return on Equity	PAT/Average of Shareholder's Funds

B Leverage Ratios

Interest Cover times	EBITDA/Interest cost
Debt Equity Ratio	Total Debt/Shareholders Funds
Debt/Total Assets	Total Debt/Total Assets

C Liquidity Ratio

Current Ratio	Current Assets/Current Liabilities
---------------	------------------------------------

D Activity Ratio *

Inventory Turnover days	Average Inventory / (Turnover/365)
Receivable Turnover days	Average Receivables / (Turnover/365)
Creditors No of days	Average Trade Creditors / (Turnover/365)
Cash Cycle days	Inventory Turnover + Receivables Turnover - Creditors No of days
* - based on Turnover and average of opening/closing parameters	

E Investor related Ratios

Price to Earnings Ratio	Average share of monthly high low/EPS
Enterprise Value/EBITDA	Total Enterprise Value [^] /EBITDA
Enterprise Value/Net Sales	Total Enterprise Value [^] /Net Sales
[^] Enterprise Value	Market Capitalisation + Loan funds + Non controlling interest - Cash & Cash equivalents

CORPORATE INFORMATION

BOARD AND COMMITTEES

The Board of Directors

M M Murugappan, Chairman (DIN 00170478)
T L Palani Kumar (DIN 00177014)
Sanjay Jayavarthanavelu (DIN 00004505)
Aroon Raman (DIN 00201205)
Bharati Rao (DIN 01892516)
M A M Arunachalam (DIN 00202958)
P S Raghavan (DIN 07812320)
Sujjain S Talwar (DIN 01756539)
K Srinivasan, Managing Director (DIN 00088424)

Committees of the Board

Audit Committee

T L Palani Kumar, Chairman
Sanjay Jayavarthanavelu
Bharati Rao
Sujjain S Talwar

Nomination and Remuneration Committee

T L Palani Kumar, Chairman
Aroon Raman
Sanjay Jayavarthanavelu

Corporate Social Responsibility Committee

Aroon Raman, Chairman
P S Raghavan
K Srinivasan

Risk Management Committee

P S Raghavan, Chairman
Aroon Raman
K Srinivasan

Stakeholders Relationship Committee

M M Murugappan, Chairman
M A M Arunachalam
K Srinivasan

MANAGEMENT COMMITTEE

K Srinivasan, Managing Director
N Ananthaseshan, President - Abrasives
Rajesh Khanna, President - Ceramics
P S Jayan, Executive Vice President - Electrominerals
M Muthiah, Executive Vice President - Human Resources

COMPANY SECRETARY

Rekha Surendhiran
Carborundum Universal Limited
Parry House, 43, Moore Street,
Chennai 600 001
Tel: +91-44-30006141; Fax: +91-44-30006149
E-mail: rekhas@cumi.murugappa.com

STATUTORY AUDITORS

Price Waterhouse Chartered Accountants LLP

BANKERS

State Bank of India
Standard Chartered Bank
Bank of America
The Hongkong and Shanghai Banking Corporation Ltd.
BNP Paribas

REGISTRAR AND SHARE TRANSFER AGENT

Karvy Computershare Private Limited
Unit: Carborundum Universal Limited
Karvy Selenium Tower B, Plot 31-32, Gachibowli,
Financial District, Nanakramguda, Hyderabad - 500 032.
Tel: +91-40-67162222, Fax: +91-40-23420814
Toll Free no.: 1800-345-4001
E-mail: einward.ris@karvy.com; website: www.karvy.com
Contact Person: Mrs. Varalakshmi P - Asst. General Manager

Directors' Report

Your Directors have the pleasure in presenting the 64th Annual Report together with the Audited Financial Statements for the year ended 31st March 2018. The Management Discussion & Analysis Report which is required to be furnished as per SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 (hereinafter referred to as the Listing Regulations) has been included in the Directors' Report so as to avoid duplication and overlap.

ECONOMIC OVERVIEW & COMPANY PERFORMANCE

Economic Overview

The global economic growth strengthened in 2017 led by investment recovery, rebound in manufacturing & trade and an upswing in commodity prices. The momentum was driven by continued strong growth in emerging Asia, resurgence in European economy, tax cuts in the United States and improved spending in advanced economies. Stock market boom, bitcoin bubble, higher trade indices, low fear factor, rising Eurozone GDP and protectionist measures by certain developed economies defined the year 2017.

As per International Monetary Fund, the global economy grew at 3.8 per cent. The growth was broad-based and almost 75 per cent of the countries registered a growth. Even more important was the fact that some of the countries that had high unemployment, such as many in the Euro area participated in the growth surge and experienced strong employment growth. Wage growth however remained tepid in advanced economies despite falling unemployment rates. A lower wage growth led to controlled inflation which had a positive impact on the financial markets.

Some of the larger emerging market economies, such as Argentina, Brazil and Russia came out of recession. China managed to maintain its rate of expansion, dispelling fears over a potential sharp slowdown as it continues to mature after decades of rapid growth. Metal and fuel prices were supported by stronger momentum in global demand as well as supply constraints in the energy sector, including hurricane-related stoppages in the United States, financial disruptions in Venezuela and security problems in the regions of Iraq. Equity valuations for major capital markets continued their ascent to register record highs as central banks maintained accommodative monetary policy amidst a moderate inflation. An improved economic outlook and an increased risk appetite boosted asset prices and suppressed volatility.

In India, the pace of key structural initiatives continued in 2017-18. The Real Estate (Regulation and Development) Act, 2016 provisions came into effect from 1st May 2017. The Goods and Services Tax (GST) regime came into effect from 1st July 2017. As per Asian Development Bank, India's GDP growth in FY 2017 was at 6.6% compared to 7.1% in FY 2016. The reduction in growth was driven by lingering effects of demonetisation which impacted the informal sector in the first half of FY 2016-17 and the teething issues related to implementation of the GST which hampered operations of small and medium-sized enterprises and exporters for major part of the year. Despite these short-term costs, the benefits of reforms coupled with Government's

steps to improve the ease of doing business and kick starting capital investments by way of infrastructure development projects are likely to bolster growth in the current year and future. The signs of pick up in the economy can be witnessed from the improvement in indicators of industrial production and automobile sales in later part of the year 2017. The biggest challenges for 2018 would be rising oil prices, increasing inflationary pressures, tighter financial conditions and higher fiscal deficit. The key to this conundrum lies in the revival of consumer demand and private investment.

Company Performance

Revenues

During the year, the standalone business grew by 5 per cent and the consolidated revenues by 7 per cent driven by better performance of all the businesses. The growth is not comparable to previous year's growth since in the year 2016-17, excise duty was included in revenue for the full year, whereas for the FY 2017-18 excise duty is included only for the first quarter period. On a comparable basis without considering excise duty, standalone and consolidated sales both grew by 12 per cent.

The following table summarises the standalone and consolidated revenues - both segment and geography wise:

₹ million					
	2017-18		2016-17		Growth
	% share	Amount	% share	Amount	%
Standalone					
Abrasives	55	8636	57	8592	1
Ceramics	26	4056	26	3899	4
Electrominerals	26	4107	23	3396	21
Eliminations	(6)	(1025)	(6)	(918)	12
Total	100	15774	100	14969	5
India	77	12201	79	11832	3
Rest of the world	23	3573	21	3136	14
Total	100	15774	100	14969	5
Consolidated					
Abrasives	44	10363	46	10163	2
Ceramics	21	5068	21	4724	7
Electrominerals	38	8887	35	7694	16
Power	1	239	1	265	(10)
IT Services	2	401	2	394	2
Eliminations	(6)	(1379)	(6)	(1241)	11
Total	100	23579	100	21999	7
India	55	13048	58	12669	3
Rest of the world	45	10531	42	9330	13
Total	100	23579	100	21999	7

Demand expansion from user industries, inflation of metal and commodity prices, introduction of new products and focus on newer markets resulted in a better top line growth.

The Company's consolidated revenues from India increased by 3 per cent and from rest of the world increased by 13 per cent. At

a consolidated level, Abrasives sales grew by 2 per cent, Ceramics sales grew by 7 per cent and the Electrominerals segment grew by 16 per cent.

As detailed earlier, the growth over previous year is not comparable considering the change in inclusion of excise duty in revenues.

On a comparable basis, the Company's consolidated revenues from India increased by 11 per cent and from rest of the world increased by 13 per cent. At a consolidated level, Abrasives sales grew by 9 per cent, Ceramics sales grew by 11 per cent and the Electrominerals segment grew by 18 per cent.

Manufacturing

The manufacturing team played a key role, helping the Company in the growth momentum through effective production planning and order execution. The plants in India operated at about 70 per cent

capacity utilisation levels. Some product segments like Coated Abrasives continued to run at near full capacity. Continuing implementation of Total Productive Maintenance (TPM) at shop floors lead to improvement in efficiency of machines and the entire production process. Two plants of the Company at Hosur were awarded TPM excellence award and the Plants at Sriperumbudur and Maraimalai Nagar were conferred the higher level TPM consistency Award by Japan Institute of Plant Maintenance (JIPM).

Capital expenditure during the year across all geographies was majorly in the nature of quality enhancement, line balancing and general infrastructure.

Earnings & Profitability

The Company's standalone financial results are summarised in the table below:

₹ million

	As a % of Gross Sales	2017-18	As a % of Gross Sales	2016-17	Increase %
Gross Sales		15774		14969	
Other Operating Income		249		229	
Revenue from Operations		16023		15198	
Other Income		310		343	
Total Income		16333		15541	
Expenses					
Cost of material Consumed	37	5796	34	5121	13
Purchase of stock in trade	4	709	5	818	(13)
Movement of Inventory	1	138	0	12	1050
Excise Duty on sale of goods	2	260	8	1141	(77)
Employee benefits expense	11	1742	10	1533	14
Finance Cost	0	15	1	88	(83)
Depreciation and amortisation	5	739	4	669	10
Other expenses	31	4882	30	4452	10
Total Expenses	91	14281	92	13834	3
Profit before tax	13	2052	11	1707	20
Profit after tax	9	1435	8	1218	18
Total Comprehensive Income	9	1465	8	1138	29

Aided by the growth in revenues, standalone profit before tax improved to ₹2052 million from ₹1707 million in the previous year.

The Company uses a variety of raw materials for its products - Bonds, Yarn, Grains, Calcined Alumina, Tabular Alumina, Mullite, Pet Coke, Bauxite, Zircon Sand amongst others. The sourcing is a prudent mix of indigenous and imported materials. Aided by judicious sourcing and optimising throughput in production, material consumption improved during the year.

Other expenses increased from ₹4452 million in preceding year to ₹4882 million in the current year. The increase reflects the volume growth, cost increases and investment in preparing the organisation for the expansion programmes being undertaken.

Power and fuel cost also increased during the current year. Captive power generation from the Company's Hydel power unit in Maniyar continued to be lower this year due to inadequate rainfall. The power consumption was also higher in line with the higher volumes produced compared to the previous year. Employee benefits expense increased by 14 per cent during the year, which is a combination of both increase in head count and salary.

The overall employee cost was at 11 per cent of the revenues. The revenues of last year had excise duty for the entire year where as the revenues for this year had excise duty for the first three months on account of implementation of GST with effect from 1st July 2017. Hence the employee cost as a percentage of the revenues is not directly comparable.

Profit before interest and tax margin expanded at all the divisions owing to higher sales and better operating leverage.

Finance costs were at ₹15 million compared to ₹88 million in the previous year. Profit after tax of ₹1435 million was higher compared to

that of the previous year ₹1218 million. Total Comprehensive Income increased from ₹1138 million to ₹1465 million.

The consolidated profit before tax (before share of profit from associates and joint ventures) entity-wise is represented below:

	₹ million	
	2017-18	2016-17
CUMI Standalone	2052	1707
Subsidiaries including step down subsidiaries:		
Indian		
Net Access India Limited	37	35
Southern Energy Development Corporation Limited	71	90
Sterling Abrasives Limited	134	101
Foreign		
CUMI (Australia) Pty Limited	152	143
CUMI International Limited	284	240
Volzhsky Abrasives Works	1187	784
Foskor Zirconia Pty Limited	(162)	(19)
CUMI America Inc.	(33)	(98)
CUMI Middle East FZE	8	5
CUMI Abrasives & Ceramics Company Limited	(9)	1
Thukela Refractories Isithebe Pty Limited	(0)	(2)
CUMI Europe s.r.o.	(8)	1
Total of Subsidiaries	1661	1281
Inter Company Eliminations	(643)	(560)
Consolidated Profit before tax	3070	2428
Consolidated Profit after tax attributable to owners	2156	1749

On a consolidated basis, the profit before tax (before share of profit from associates and joint ventures) increased from ₹2428 million to ₹3070 million. Profit after tax and non-controlling interests was ₹2156 million (previous year ₹1749 million).

The performance of the subsidiaries is detailed separately in this Report. Segmental profitability improved across all segments owing to higher volume, selective price increase mitigating the cost push and efficient cost management.

Financial Position

An overview of the Company's financial position - on a Standalone and Consolidated basis is given below:

	₹ million					
Financial position	Standalone			Consolidated		
	31.03.2018	31.03.2017	% change	31.03.2018	31.03.2017	% change
Net Fixed assets (including goodwill)	4474	4595	(3)	7659	7774	(1)
Investments - Non current	2569	2541	1	1232	1195	3
Other assets:						
- Inventories	2604	2268	15	4380	3867	13
- Trade receivables	3267	2563	27	4751	3806	25
- Cash and cash equivalents	740	67	1004	1847	1298	42
- Other assets	705	939	(25)	1116	1282	(13)
Total assets	14359	12973	11	20985	19222	9
Liabilities (Other than loans)	2644	2397	10	3432	3178	8
Net assets	11715	10576	11	17553	16044	9
Sources of funding:						
Total equity attributable to owner	11697	10550	11	15644	13828	13
Non - Controlling interest				615	657	(6)
Loan outstanding:						
- Long term borrowings	11	18	(40)	66	67	(1)
- Payable within one year	7	8	(9)	46	68	(33)
- Short term borrowings	-	-		1182	1424	(17)
Total loans	18	26	(31)	1294	1559	(17)
	11715	10576	11	17553	16044	9
Loans (net of cash and cash equivalents)	(722)	(41)	1659	(553)	261	(311)

On a consolidated basis, the total equity attributable to owners as on 31st March 2018 was ₹15644 million. There was an increase (net of dividend) to the extent of ₹1816 million. Non-controlling interest was at ₹615 million.

Liabilities (other than loans) was ₹3432 million. The loan outstandings reduced from ₹1559 million to ₹1294 million. Net fixed assets (including

goodwill) decreased from ₹7774 million in the last year to ₹7659 million during the current FY 2017-18.

Cash Flow

The Company's cash flow generation is healthy. The following table summarises the Company's consolidated and standalone cash flows for the current and previous years:

₹ million

Cash flow	Standalone		Consolidated	
	2017-18	2016-17	2017-18	2016-17
Cash flow from Operations	2001	2284	3238	3741
Taxes paid	(685)	(515)	(1109)	(788)
Cash flow from operating activities	1316	1769	2129	2953
Capital Expenditure (Net of disposal)	(577)	(750)	(920)	(1061)
Cash flow from other investing activities	290	293	172	248
Cash flow from investing activities	(287)	(457)	(748)	(813)
Cash flow from financing activities	(356)	(1329)	(832)	(2071)
Net Increase/(Decrease) in Cash & Cash equivalents	673	(17)	549	69
Net Cash and Cash equivalents at the beginning of the year	67	84	1298	1136
Effect of exchange rate changes on the balances of cash and cash equivalents held in foreign currencies	-	-	0	93
Cash and Cash equivalents at the end of the year	740	67	1847	1298

On a standalone basis, net cash generation from operations was ₹1316 million in FY 2017-18 compared to previous year's ₹1769 million.

Net cash outflow on account of investing activities was ₹287 million majorly towards addition of property, plant and equipment. Net cash outflow on account of financing activities was ₹356 million which is attributable primarily to repayment of borrowings and dividends paid. The net increase in cash and cash equivalents was ₹673 million against a decrease of ₹17 million in FY 2016-17.

On a consolidated basis, net cash generation from operations was ₹2129 million in FY 2017-18. Net cash outflow on account of investing activities was ₹748 million. Net cash outflow on account of financing activities was ₹832 million which is attributable primarily to repayment of borrowings and dividends paid. The net increase in cash and cash equivalents was ₹549 million against an increase of ₹69 million in FY 2016-17.

SHARE CAPITAL

The paid up equity share capital as on 31st March 2018 was ₹188.96 million. The capital increased during the year by ₹0.30 million, consequent to allotment of shares upon exercise of Stock Options by employees under the Company's Employee Stock Option Scheme, 2007 and Employee Stock Option Plan 2016.

DIVIDEND

Considering the past dividend payout ratio and the current year's operating profit, the Board has considered it appropriate to recommend a final dividend of ₹1.25/- per equity share of ₹1/- each. It may be recalled that in February 2018, an interim dividend at the rate of ₹1/- per equity share of ₹1/- each was declared and paid. This aggregates to a total dividend of ₹2.25/- per equity share of ₹1/- each for the year, which is higher

than the previous year. The Company's Dividend Policy is available at <https://www.cumi-murugappa.com/policies.html>. The dividend paid as well as being recommended for the year ended 31st March 2018 is in line with this policy.

TRANSFER TO RESERVES

An amount of ₹500 million has been transferred to the General Reserve of the Company as at 31st March 2018.

PERFORMANCE OF BUSINESS SEGMENTS

The business profile, market developments and current year performance are elaborated in the following sections:

Abrasives

Business Profile

The business is into manufacture and sales of Abrasives. The key product segments are Bonded Abrasives, Coated Abrasives, Super Abrasives and allied products.

An Abrasive is a substance which grinds, cleans, scours, abrades or removes solid material by rubbing action or by impact. Abrasives are mineral like materials available in different shapes, sizes and types according to need. Abrasive materials and Abrasive products are utilised in several end user industries such as manufacture of Machinery, Electrical & Electronic equipment, Transportation and Metal fabrication among others.

The division has more than sixty years of experience in Abrasives manufacturing. The techno-commercial knowledge of the team and their wealth of experience has been the strength of the division in manufacturing world class products.

In order to match all international standards and to compete globally, the division sources its raw materials both from the Electrominerals division and from best suppliers across the world. These cost-effective manufacturing techniques and quality control systems form the core of the division's objectives - best products and customer satisfaction at affordable prices.

The business is driven by a combination of manufacturing and marketing entities. There are ten manufacturing plants located in India, Russia and Thailand. The marketing entities in North America, Middle East, China and distributors across the globe enables the divisions to reach across geographies.

The Company caters to customers located around 55 plus countries through its network of manufacturing facilities and marketing establishments.

Industry Scenario

The global Abrasives market is segmented based on region. Asia Pacific represents the largest and the fastest growing market for the Abrasives industry and China is the largest producer of Abrasive materials and Abrasive products. The growing demand for various types of Abrasives from Transportation, Building & Construction and other durable goods industries is expected to drive the Asia Pacific Abrasives market. Growth in the United States - which holds the world's second largest national market for Abrasives, is expected to deliver good growth. The market is dominated by leading players operating across the globe.

In India, the Abrasives industry is catered to few leading players serving major portion of the Indian market. Imports are predominantly in the high and low end Abrasives. The Bonded Abrasives and the Coated Abrasives are important segments in the Indian scenario and contribute maximum in terms of revenues to this industry. The unorganised market is to the extent of thirty per cent of overall market. The implementation of Goods and Services Tax brought about an uniform regime for all players to compete in the market evenly. In the domestic Russian market, there are three major players. The Company is one of the major players in Vitrified Bonded Abrasives.

Sales Overview

The focus for the Abrasives business was to grow topline at better than the market growth rate with significantly better profitability. Accordingly, the Abrasives business on a standalone basis recorded a growth in revenues (without excise duty) from ₹7866 million to ₹8470 million with improvement in margins.

The year started with the announcement of the implementation of Goods and Service Tax. The business faced a challenging first quarter owing to significant reduction in order incoming from dealers consequent to migration to the new tax regime. The business subsequently improved. Restocking resumed and in the subsequent quarters, the order book improved significantly.

The Coated business continued to register good growth in the conventional products in domestic market. The growth came about by way of launch of new products, focus on technical products, strong

brand recall and dealers' readiness to invest in this product segment as well as quality consistency of the products. Coated Abrasives division is now at a stage where the market is growing and the demand for its products are good. These are largely driven by the consistent quality and availability. Both these attributes are direct outcomes of the TPM processes implemented and practised in the facilities at Maraimalai Nagar and Sriperumbudur which received the prestigious JIPM award for TPM consistency this year. The business during the year launched breakthrough products in this category. With the capacity running full, this would be expanded in the coming years.

Distribution leadership has been one of the strategic pillars for the Company's growth and the business has been making steady progress on this front. During the year, the business aggressively appointed new channel partners and expanded its dealer network both in India and abroad. Retail development and industrial storming initiatives were conducted for better market penetration. Introduction of newer industrial products were pursued during the year which were sold through industrial distribution chain.

The Abrasives sales in Russia was higher this year owing to introduction of new products and targeting newer territories. Sterling Abrasives which addresses the agriculture related applications delivered a good growth during the year.

Manufacturing

Manufacturing supported the marketing initiatives well in terms of timely delivery, product performance and consistency.

The key strategy over the years has been to increase the indigenous sourcing and lowering the gap between exports and imports to ensure sustainable profitability in the Abrasives business. Business continued to focus on pursuing dual strategy - firstly, of moving from traditional Brown to Semi-friables to gain significant competitive advantage; secondly, of offering superior Coated technical products with high performance Zirconia and Ceramic grains.

In order to cater to increased demand for Coated products, the division pursued contract manufacturing and as detailed above, the capacity would be augmented during this year.

The Company has adopted TPM not only as a tool but also as its strategic initiative and this has given it a competitive edge today. TPM is an organisation-wide strategy to increase the effectiveness of production environment, especially through methods of increasing the effectiveness of equipment. The TPM journey, which started in 2011 marked the beginning of an era of change. The Bonded Abrasives Plant in Hosur was conferred the JIPM award for TPM excellence in Category A this year.

In the mass market Thin wheel product category, the business has reorganised the production capacities across various plants to optimise production capacity, capability and market proximity. The Non-standard business was engaged in productivity improvement for customers with continued slew of new product launches.

The division worked on various research and development opportunities in the field of precision grinding, 3D printing, light metal grinding etc.

Considering the changing landscape of manufacturing technologies, the division would continue in its effort to build capabilities in newer fields and technologies.

CUMI Abrasives and Ceramics Company, China, which is now operational on a trading model has stabilised with the new business model.

Key Financial Summary

₹ million

Particulars	Standalone			Consolidated		
	2017-18	2016-17	Change (%)	2017-18	2016-17	Change (%)
Revenue (excluding excise duty)	8470	7866	8	10184	9379	9
Segment results (PBIT)	1225	1047	17	1325	1133	17
Capital employed	3354	3122	7	5025	4629	9
Share to total revenue of CUMI (%)	55	57		44	45	
(without eliminations)						
Share to segment results (PBIT) of CUMI (%)	59	58		42	43	

Ceramics

Business Profile

The Ceramics business has three product groups viz., Industrial Ceramics, Super Refractories and Anti-corrosives.

Industrial Ceramics business offers Alumina and Zirconia products of technical ceramic grades addressing Wear protection, Electrical insulation, Thermal protection and Ballistic protection applications. The Super Refractories product group supplies Fired, Monolithic, Flow control products, POW Wellflier and fibre as also Refractory design and installation services addressing the insulation and thermal resistance requirements of industries. The Refractory fibre, Refractory design and installation businesses are addressed through our joint ventures Murugappa Morgan Thermal Ceramics Limited and Ciria India Limited. The Anti-corrosives product group offers Acid resistant bricks, Polymer concrete cells and various other products addressing the anti-corrosion requirements of industries.

The key user industries for Ceramics business are Power Generation and Transmission, Coal washeries, Grain handling, Sanitary tiles and Sanitary ware, Ballistic protection, Cement, Non-ferrous metals, Iron and Steel industries, Carbon black, Insulators, Furnace building, Glass, Petrochemicals and Construction.

The operations are carried out through ten manufacturing/service facilities located in India, Australia and Russia. The subsidiaries in North America, Middle East and China also support this business in getting an extended customer reach.

The Industrial Ceramics business based out of India is largely a global business and majority of the sales volumes are through exports. The Refractory business in India is predominantly a local business.

The Company is one of the major players in India, Australia and Russia in specific product groups.

Industry Scenario

There has been no significant change in the Ceramics industry structure in India, which is catered to by a few major players.

With the acquisition of manufacturing assets and customer database of NTK, Japan in FY 2015-16, the Company is now the second largest

Aided by buoyancy in revenues, cost reduction projects and others initiatives, the Abrasives business recorded an increase in standalone operating profits before interest and taxes at ₹1225 million from ₹1047 million last year. At a consolidated level, the profits grew from ₹1133 million last year to ₹1325 million this year.

producer of Metallized Cylinders in the world. In the Wear Ceramics space, there are six major players globally - the Company is one of the reputed players in the world. In the Engineering Ceramics, there are around five players globally with the Company being relatively smaller in size.

In Australia, CUMI is one of the major players in the Lined Equipment and Mineral processing industry. There are about a dozen players in the industry, most of whom market products imported from China and USA.

Refractory industry in India is a highly fragmented market with a market size of around ₹60 billion. The Company's product profile caters to the top end temperature range applications.

The Refractory industry in Russia is a highly fragmented market and Volzhsky Abrasives Works (VAW) caters primarily to the Aluminium industry in Russia.

Sales Overview

Revenues (excluding excise duty) of the Ceramics business grew by 9 per cent on a standalone basis from ₹3688 million to ₹4013 million.

Metallized Cylinders and Wear Ceramics products business continued the marketing efforts in targeting newer markets and partnering with global customers. Selective price increases were taken for majority of the products to mitigate cost push. Significant efforts in repair and maintenance of domestic Wear ceramics led to ceramic conversion of key equipment by customers in Steel and Cement Industry. The business established entry into Japanese markets through qualifications at OEM's for supply of Ceramic lined bends. New products with backing materials were developed for addressing high impact applications. The business participated in Industry specific expos like Ceramitec, Powergen, Japan Fine Ceramics Expo, Hannover Messe, Fuel Cell Expo etc., to increase visibility, business development and for keeping abreast with the changing technology.

The Refractory business delivered good growth compared to the previous year. The division's sales were driven by growth in Fired Refractories and Anti-corrosive segments. The business bagged Annual rate contracts from Steel and Cement players. This business is likely to benefit from the commodity upcycle and expansion of capacity in user industry viz., Steel, Cement, Carbon Black, Glass etc. In Russia, Nitride Bonded Silicon Carbide Refractories, registered growth in revenues.

Key Financial Summary

₹ million

Particulars	Standalone			Consolidated		
	2017-18	2016-17	Change (%)	2017-18	2016-17	Change (%)
Revenue (excluding excise duty)	4013	3688	9	5025	4514	11
Segment results (PBIT)	542	509	6	759	704	8
Capital employed	2984	2820	6	3902	3694	6
Share to total revenue of CUMI (%) (without eliminations)	26	27		22	22	
Share to segment results (PBIT) of CUMI (%)	26	28		24	27	

Manufacturing

The new Metallized Cylinder manufacturing line with assets from NTK, Japan was commissioned and the production commenced during the year. The total combined capacity of Metallized Cylinder now is 1.72 million numbers. Approval for new cylinders has been obtained from global customers after rigorous testing spanning over many months. The contract manufacturing for base level Ceramics which started in 2014-15 continued successfully during the current year. Third production line was established during the year enabling the business to cater to higher volume requirements from the customer.

The Industrial Ceramics division started its TPM journey in 2014-15 and with sustained and intense efforts, cleared TPM Health Check by CII TPM Club of India during January 2017. The division cleared the JIPM second stage assessment during November 2017 for TPM Excellence level I award, a key milestone in Company's quest for excellence. The division finally received the coveted Category A TPM Excellence award in March 2018 from JIPM.

Continuing its quest for manufacturing excellence, the rolled throughput yield has been on a continuous upward trajectory since 2015-16. Operation Equipment Effectiveness parameter also registered a new high during the year. The division could implement multi-cavity mould for near net shape moulding and commissioned Ceramic Injection Moulding line. In-house raw material was produced for Engineering Ceramics and Metallized Ceramics product enabling a better grip on the quality and the timely availability.

The Refractory business in last three years has invested in new technology mainly for Iron & Steel and Foundry industries. The business has also invested in consumable (flow control) products mainly for mini Steel industry and the products are taking its shape and developments on these product range have been proved with customers. These product lines are of standard regular consumables off the shelf. With strengthened dealer network, constant revenues has been planned during the coming year.

Electrominerals

Business Profile

The major product groups of this segment are Fused Alumina (comprising Brown and White Alumina), Silicon Carbide (crude, macro and fine), Fused Zirconia, Alumina Zirconia, Pearl Zirconia and Zircon Mullite. The Company also manufactures a range of 'specialities' like Semi Friable,

Azure-S and fine powders for niche markets. The operations are carried out through eight manufacturing facilities located in India, Russia and South Africa.

The business focusses on aggressive growth in the export market with suitable product portfolios and provides customers with application specific products, with an objective to attain improved product profitability. For this, the business ensures speedy execution of projects and enhanced asset utilisation.

The business intends to continue its focus on special products through internal capability building and strategic partnerships in the market place to promote its products in different parts of the world.

Key user industries for this business are Abrasives, Refractories, Steel, Photovoltaic, Brake linings, Nuclear energy, Wooden laminates, Friction composites, Diesel Particulate Filter Semiconductor and others.

The business has captive bauxite mines, sand mines and a captive power plant.

Industry Scenario

The focus on improving the ecosystem by initiating environmental regulations and pollution controls in China has brought about a paradigm shift in the industry. China has catapulted itself from a low cost producer of materials to a responsible supplier of quality products and an environmental compliant country. The other players including the Company, who were always into supplying quality products with superior environment friendly production processes, emerged more competitive in the transformed market. This new scenario has led to an inflationary situation.

The Fused Alumina installed capacity globally continued to be around 2 million tons with major capacities being in China, some of which could possibly be shut due to new environment regulations. The Company is largely a local player with customers based in India. Apart from the domestic players, imported products have a visible share in the Indian market. Competitive imports become favourable or unfavourable depending on Free Trade Agreements between countries, duty structures, country specific developments and exchange rates.

In the Silicon Carbide space, the installed capacity would be anywhere to the extent of 1.5 million to 2 million tons with large portion of it being in China. Here as well it can be estimated that some amount of capacities could be shut due to the current situation prevailing in China.

VAW, Russia with a capacity of 0.08 million tons is the one of the largest single location capacities in the world.

In the Fused Zirconia space, the global capacity could be approximately 0.07 million tons. China would occupy around 25 per cent of the global market. The Company with a capacity of 0.01 million tons is a significant player globally.

The Company continues to retain its position as one of the reputed manufacturers of Silicon Carbide and Fused Zirconia.

Sales Overview

The Electrominerals business recorded revenues of ₹4055 million compared to last year standalone revenues of ₹3191 million.

The year 2017 was beneficial to the Company owing to stricter pollution controls and new environmental regulations in China. The fused aluminum oxide business of the Company capitalised this opportunity and increased its volume and prices in the domestic and international markets across product lines.

The fine powder business of Silicon Carbide at Kakkanad, Kerala has seen renewed heights with one of the world's largest manufacturer of Diesel Particulate Filter approving the fine powder for their requirement. The business registered good growth from a low base for this product category.

With the Automobile, Steel and Glass business starting to do better in 2017, the demand from Abrasives and Refractory customers were higher during the year.

The Russian subsidiary ran at near full capacity. The volumes were higher in the current year considering last year, the business registered lower production on account of transformer shutdown. The business being a significant net exporter in foreign currency, is mitigated from the risk of rouble currency fluctuations.

Manufacturing

The business focused on manufacturing strategies like outsourcing of activities for augmenting volumes with minimum investment, protection of intellectual properties through appropriate process and product patents, spear heading innovation and TPM measures to be competitive and efficient in control of cost as an underlining measure to attain the targeted production volumes.

The relocated Alumina facility from South Africa scaled up and delivered

the products as per the market requirements. The modernised Alumina plant with efficient furnace system gave the business the advantage of producing high end variants of Alumina. This also helped the business in augmenting the production and sales volume of Alumina beyond what was contemplated at the start of the year.

The raw material sourcing team had to grapple up with multiple challenges. Zircon Sand, Bauxite, Alumina and Electrode prices were facing turmoil in the international and domestic market. While the electrode price increase has affected the business, the long term contract for Alumina supply and own source of bauxite has insulated the business from the raw material price fluctuations for Fused Alumina business.

The shortage of availability and hike in raw material prices - Zircon sand and Electrode affected the scaling up of operations of relocated Zirconia Bubble facility, situated in India. The South African subsidiary, Foskor Zirconia which is into production of Monoclinic Zirconia was also affected due to volatile input pricing. A process modification in Zirconia processing is expected to give the bubble processing a cost advantage and an opportunity to use low end/local raw materials. A rationalisation in the price of electrode is expected in China and the business would be sourcing maximum requirement from these suppliers.

The Indian policy makers and regulators also enacted and introduced policies and regulations restricting usage of materials, mining activities and imposing stricter norms for environmental compliance. In this respect, the business faced challenges in sourcing raw materials like Petroleum Coke, Quartz and Bauxite. The business successfully identified alternate sources of suppliers and carried out efficiency improvements in production to tide over the situation.

New adjacencies were explored in the areas of Carbon and related businesses.

The Russian plant ran at full capacity in the current year without any production disruptions. Input costs were kept at market competitive levels by way of prudent sourcing strategies. The business continued in its journey of introducing various grit sizes in the market. Toughening of environmental regulations in China is estimated to augur well for the business going forward by way of price increase of Crystalline and Metallurgic product ranges.

The profit before interest and tax increased from ₹909 million to ₹1269 million on a consolidated basis.

Key Financial Summary

₹ million

Particulars	Standalone			Consolidated		
	2017-18	2016-17	Change (%)	2017-18	2016-17	Change (%)
Revenue (excluding excise duty)	4055	3191	27	8834	7489	18
Segment results (PBIT)	325	212	54	1269	909	40
Capital employed	2396	2488	(4)	5632	5514	2
Share to total revenue of CUMI (%) (without eliminations)	26	23		38	36	
Share to segment results (PBIT) of CUMI (%)	16	12		40	35	

FINANCE

During the year, the Company generated ₹1316 million of cash surplus from its operations on a standalone basis.

All debts have been serviced on time. The Company's long and short term borrowings (other than financial lease of ₹18.1 million) as on 31st March 2018 stands Nil. The capital expenditure program of ₹577 million was financed from internal accruals.

The Company continued to have healthy cash generation in the year, due to prudent capital expenditure and efficient working capital management. The surplus has been parked in liquid mutual funds. The Company continues to be debt free despite capacities being created over the years. On similar lines, the debt at a consolidated level has come down by 17 per cent compared to the previous year from ₹1559 million to ₹1294 million. Borrowings net of cash and cash equivalent level at a consolidated level stands at ₹(553) million i.e Company has surplus cash.

The debt equity ratio for the Company, is almost nil at a standalone level and 0.08 at a consolidated level. The Company's Balance Sheet remains robust and it augurs well for the Company to venture into its next phase of growth.

The credit ratings of the Company, 'A1+' for short-term borrowings and 'AA+Stable' for long-term borrowings were re-affirmed by CRISIL. Over the years, the Company has been resorting to a prudent mix of rupee and foreign currency borrowings to finance its operations and achieve reduction in financing cost. The Finance Cost at a standalone level is at ₹15 million compared to ₹88 million last year. The Company earned ₹6 million by investing surplus cash available for short term.

At a consolidated level, the interest cost has come down from ₹181 million to ₹86 million. The repayment of loans has helped in bringing down the finance cost. The capital expenditure program of ₹920 million was financed from internal accruals.

With the Indian entity enjoying a significant natural hedge, a cautious approach was adopted to hedge the remaining exposures. The Company adopts prudent tax management policies.

There are no material changes and commitments, affecting the financial position of the Company which have occurred between 31st March 2018 and the date of this report.

INDIAN ACCOUNTING STANDARDS (IND AS) - IFRS CONVERGED STANDARDS

The Company, its subsidiaries and joint ventures in India adopted Ind AS with effect from 1st April 2016 pursuant to the Companies (Indian Accounting Standard) Rules, 2015 notified by Ministry of Corporate Affairs on 16th February 2015.

INTERNAL CONTROL

The Company has an Internal Control System commensurate with the size, scale and complexity of its operations. The controls have been designed and categorised based on the nature, type and the risk rating

so as to effectively ensure the reliability of operations with adequate checks and balances.

The Internal Audit team evaluates the effectiveness and adequacy of internal controls, compliance with operating systems, policies and procedures of the Company and recommends improvements, if any. Significant audit observations and the corrective/preventive action taken or proposed to be taken by the process owners are presented to the Audit Committee. Periodic review of adherence to the agreed action plan is carried out. The scope of Internal Audit is annually determined by the Audit Committee considering the inputs from the Statutory Auditor and the Management.

Capital and revenue expenditure are monitored and controlled with reference to approved budgets. Investment decisions are subject to detailed evaluation and formal approval according to schedule of authority in place. Periodical review of capital expenditure with reference to benefits forecasted is done. Physical verification of assets is also periodically undertaken.

The Audit Committee reviews the overall functioning of Internal Audit on a periodical basis. The Committee also discusses with the Auditors periodically on their views on the financial statements including the financial reporting system, compliance with accounting policies & procedures, adequacy and effectiveness of the Internal Control Systems in the Company.

INTERNAL FINANCIAL CONTROLS

Internal Control is a process, effected by an entity's Board of Directors, Management, and other personnel, designed to provide reasonable assurance regarding the achievement of objectives relating to operations, reporting and compliance - as defined by the Committee of Sponsoring Organisations (COSO) of the Treadway Commission (appointed by SEC USA).

As per Section 134 of the Companies Act, 2013, the term 'Internal Financial Controls' (IFC) means the policies and procedures adopted by the Company for ensuring:

- (a) orderly and efficient conduct of its business, including adherence to company's policies,
- (b) safeguarding of its assets,
- (c) prevention and detection of frauds and errors,
- (d) accuracy and completeness of the accounting records, and
- (e) timely preparation of reliable financial information.

The three key components of IFC followed by the Company are:

- i. Entity Level controls (ELC) that the management relies on to establish the appropriate "tone at top" relative to financial reporting are - Code of Conduct, Enforcement of Delegation of Authority, Hiring and Retention practices, Whistle blower mechanism and other approved policies and procedures.
- ii. Process Level controls (PLC), to ensure that processes are predictable, stable and consistently operating at the targeted level of performance, with only a normal variation are classified into

Manual or IT - Dependent Manual or Automated Controls. They are also classified as Preventive or Detective.

- iii. General IT Controls to ensure appropriate functioning of IT applications and systems built by the Company to enable accurate and timely processing of financial data are - User Access rights management and Logical access; Change management controls; Password policies and practices; Patch management and License management; Backup and Recovery of data.

The adequacy of Internal Financial Controls is ensured by:

- Documentation of the risks and controls associated with the major processes;
- Validation and classification of existing controls to mitigate risks;
- Identification of improvements and upgrades to the controls;
- Improving the effectiveness of controls on residuary risks through data analytics;
- Performing testing of controls by the independent Internal Audit;
- Implementation of sustainable solutions to Audit observations.

The Audit Committee periodically evaluates Internal Financial Controls to ensure that they are adequate and operating effectively.

HUMAN RESOURCES

The Company's focus on the key organisational asset - its employees remains top priority. The Company continues to focus on hiring right candidates, looking at the employee's entire life cycle, ensure timely interventions that help build a long lasting and fruitful career for them. With this in mind, the Company has initiated several positive changes in its Human Resource practices during the year. Being a material science technology Company innovation, learning & development, capability development are significant tools for keeping the employees engaged in making materials matter.

Innovation

As business world becomes more complex and competitive, the necessity of innovation becomes the primary focus of any successful organisation. Leveraging the prevailing culture of freedom to perform there has been a focused effort in seeding innovation and nurturing ideation in the Company. CUMind - a customised innovation framework, based on the design thinking methodology was launched across all SBUs during the year. This framework enables entrepreneurial minds to conceive, design and deliver new products, businesses, processes and innovations for CUMI irrespective of their role or function. Grouped under the umbrella of CUMind, there are four different types of modules - DOT, LOG, CUBE and ARC (class room learning modules to prototype). Employees in business divisions as well as corporate have gone through these structured workshops and many more are planned in the coming years. During the year, an IPR manual was developed in-house to serve as a ready reckoner for employees to protect the various kinds of IPRs being created within the Company.

Results of this initiative is very visible, as the workshop projects have led to increasing patents being filed by the Company. Additionally to keep the spotlight on innovation, patents and copyrights are being regularly monitored by the leadership.

Capability Building and Talent Development

The Company's experience in grooming internal talents benefitted the organisation immensely. Last year saw the launch of the CUMI Leadership Program in academic collaboration with a premier B-School in Chennai. This highly coveted programme was designed to prepare the identified High-potential talent for leadership roles and higher responsibilities. The program covered various management topics like Business Strategy, Marketing Management, Personal Growth Lab etc. Now, the participants are working on individual projects to implement the learnings from these classroom modules. In addition to this, a set of young managers from CUMI who were selected after a rigorous assessment, have successfully completed the Young Leadership Program at the Group level.

Learning & Development

The Company's endeavor to be a learning organisation continued regardless of the business conditions. The training initiatives have been re-defined with the objective of building capability across the organisation into a 5 Pillar approach to training. These five pillars are categorised as needs arising out of performance gaps, training to manage specific business requirements appropriate to work levels.

A series of initiatives were taken to scale up management and leadership capabilities at different levels. At the base of the pyramid, supervisory development workshops were launched for to improve crucial soft skills which are delivered online in hour-long modules every week for six months. The new managers underwent a transition program on "Managing High Performance Team" where they were introduced to different skills and work styles. On the people side of the management, seasoned managers were part of a program on "Managers as Coaches" conducted by the Murugappa Development Centre that introduced them to coaching, counselling and mentoring as a form of grooming team members.

As the Company's workforce is getting younger, the training methods are being revamped to suit the Millennials. The Graduate Engineer trainee batch, were part of a blended learning initiative called YOLO (Your Own Learning Opportunity), to manage their transition into a workplace in a systematic and effective manner. This is a year-long intervention consisting of a combination of behavioral and basic work related technical skills.

A program to focus exclusively on the Four Disciplines of Execution was launched for the Abrasives division to propel performance through excellence in Execution. This model involved weekly WIG (Wildly Important Goal) sessions, coaching and structured follow-up. This was complemented by a pricing workshop for the sales to get an insight into the pricing process.

A new frontier Thors e-learning, US was introduced in training with a focus on enhancing technical and problem solving skills through contemporary training methodologies to cater to different learning preferences of the workforce. In-house e-learning modules have been developed to capture tacit knowledge in niche areas. In the boundary less world that we now live and work, it is important to develop sensitivity to different cultures and work styles - "Globesmart" tool has been introduced, employees interfacing with global clients and vendors have been provided access to an online learning tool.

Talent Acquisition

CUMI's efforts of bringing in diverse workforce from premier engineering and management institutes across different geographies (as pipeline of talent for future) continued during the year. The talents identified and on board the Company have been given exciting projects, some in areas of adjacencies as well as breakthrough products. In order to nurture the new recruits and align them with the objectives of the organisation, various initiatives like mentoring by senior leaders have been used extensively to connect and communicate.

Career Progression

The Career Progression Framework has been used in about 40 per cent employee movements during the year. Employee transitions involve increase in responsibilities, change in location/SBU/department etc. and this framework ensures employees expand their experience across various platforms and technologies so that they will have a broader view of the business to take up larger roles in future.

Performance

With changes in business expectations, the Performance Management System has also been modified and improved to have better alignment with the performance and goals. The performance management process for senior roles introduced individual qualitative assessment on parameters like People leadership, Execution Excellence and Process Excellence; thus keeping these as the focus areas of performance. Customer Centricity (internal or external) and Innovation is being added as part of performance assessment for them. Robust performance system with inbuilt feedback process caters to addressing the performance gaps as well, wherever required. Additional qualitative assessment on specified parameters helps keeping focus on customer, people and results.

Sponsoring Higher Education

Employees from various SBUs have successfully completed their Company sponsored Masters of Technology in Manufacturing Management course, through a Distance Learning module. This program has been a great success over the years, both in terms of enhancing the capabilities of the employees and as a pride-inducing factor. Similarly a certification program has been launched for junior supervisors in collaboration with a reputed engineering college. The curriculum covers technical modules applicable for supervisor cadre and has been jointly developed by the Company and the college. There are periodic assessments through written tests, mini projects and internal marks.

Employee Relations

The drivers of Employee Engagement Dipstick survey were the guiding light of all employee related initiatives across the Company. The Hosur Bonded Abrasives unit and the Koratty Minerals unit have successfully signed Long Term Settlement during the year. As an outcome of the settlement, there is significant improvement in the flexibility and productivity. Industrial relations have been very cordial and productive across all units.

The Company continues its commitment to employ and empower women through various initiatives including extended maternity leave policies and friendly work place policies. The Company has a policy on prevention

of Sexual Harassment at workplace in line with the requirement of the Sexual Harassment of Women at the Workplace (Prevention, Prohibition & Redressal) Act, 2013. An Internal Complaints Committee (ICC) has been set up to redress any complaint regarding sexual harassment and the ICC did not receive any complaint during the year.

In alignment with the sustainable community building philosophy, the CUMI Center for Skill Development at Hosur and Edapally continued to play a significant role in honing the skills of its students from the less privileged community to support their eventual employment. The Company and its employees work closely with the communities in the neighbourhood of its plants and provides need based support including children's education, infrastructure development, medical camps and tree planting and other eco-friendly initiatives. For more details refer the Corporate Social Responsibility section of this Report.

Safety and Health

Offering a safe workspace has always been a priority for the Company. The Safety Risk mitigation plan was meticulously enforced during the year. The efforts in terms of safety patrolling, identifying & removing unsafe conditions, analysing near misses & eliminating them and offering training to maintain awareness amongst the operating teams continued. Safety Manuals have been prepared and published. Mandatory health check-ups and the online health monitoring system helps in actively tracking the health and associated risks for employees. Additionally, the behavioural safety awareness programmes through safety kiosks have been set up and are now functional in units.

ACHIEVEMENTS AND AWARDS

The year 2017-18 continued to be a year of recognition for the Company in varied fields.

The Sriperumbudur & Maraimalar Nagar plants, recipients of the prestigious Japan Institute of Plant Maintenance (JIPM) for TPM excellence in year 2015 received the JIPM award for Excellence in Consistent TPM commitment during the year. The Bonded Abrasives Plant and the Industrial Ceramics Plant in Hosur were conferred the JIPM award for TPM excellence in Category A this year marking a historical event of four divisions of the Company being recognised with these coveted awards in Kyoto, Japan during March 2018.

The Company also received the Golden Peacock award for Corporate Governance in the engineering sector for the year 2017 in due recognition of its governance practices.

The Electrominerals division was conferred HR excellence award by the Confederation of Indian Industry (CII). The Maniyar team of this division also won the Safety award 2017 from the Factories & Boilers department, Government of Kerala.

The total staff on rolls of the Company (including joint ventures and subsidiaries) as on 31st March 2018 was 5074 with 3285 employees in India (previous year 5203 with 3427 employees in India).

PERFORMANCE OF SUBSIDIARIES

Volzhsky Abrasive Works, Russia operated its Silicon Carbide plant to near capacity. Sales increased from RUB 4267 million to

RUB 5095 million due to higher volumes in Silicon Carbide and uninterrupted production. Abrasives and Refractories sales grew compared to last year owing to introduction of new products and expanding target markets. On the profitability front, the entity registered a growth in profitability (after tax) from RUB 585 million to RUB 814 million.

Foskor Zirconia, South Africa recorded a sales of ZAR 155 million compared to ZAR 191 million last year. The entity's profit after tax dropped from 5 million ZAR loss to a loss of 33 million ZAR. The adverse movement arose due to significant high input cost and lower sales volumes.

In CUMI Australia, the business in Lined Equipment continued to be good. Sales grew from AUD 16.3 million to AUD 18.1 million. Profit after tax grew from AUD 2 million to AUD 2.1 million.

Sterling Abrasives had a sales of ₹803 million, compared to the last year's sales of ₹712 million. Profit after tax increased from ₹66 million to ₹91 million. The user industry for this company is primarily the agro industry.

CUMI Abrasives and Ceramics Company, the Chinese subsidiary had a sales of CNY 22 million for the year, which is same as last year's level. The loss was CNY 0.9 million compared to profit of 0.06 million last year.

The sales of CUMI America recorded a good growth - USD 7.5 million from USD 6.2 million driven mainly by the increase in sales of both Bonded Abrasives and Industrial Ceramics. The loss was at 0.5 million USD in the current year as against USD 1.5 million loss in the previous year.

For CUMI Middle East, sales grew from USD 2.3 million to USD 3.2 million. Profits for the year were at USD 0.12 million against a profit of USD 0.07 million during the previous year.

Southern Energy Development Corporation Limited (SEDCO), the gas based power generation subsidiary, recorded a sales of ₹239 million as against ₹265 million last year consequent to constrained supply in gas from Oil and Natural Gas Corporation. Profit after tax de-grew from ₹62 million to ₹51 million.

Net Access India, which provides IT facilities management and other allied services increased its sales from ₹394 million to ₹401 million. Profit after tax grew from ₹24.1 million to ₹27.3 million.

CUMI International Limitd, Cyprus recorded a revenue of USD 5.1 million representing mainly dividend income as against last year's income of USD 5.5 million.

CUMI Europe s.r.o, based out of Europe made a loss of CZK 2.6 million.

Performance of associates and joint ventures are given in note no. 6A and 6B respectively of the consolidated financials. Consolidated Financial Statements (incorporating the financial results of the Company, its subsidiaries and associates/joint ventures) have been provided in the Annual Report. Other than the associates/joint ventures referred in the Annual Report, there are no associate/joint venture companies within the meaning of Section 2(6) of the Companies Act, 2013. A statement containing the key financial highlights of each subsidiary, based on the Financial Statements prepared by them under applicable local regulations for their respective financial years, is also provided in the Annual Report.

ENTERPRISE VALUE ADDITION

The Company has been able to constantly add value and the summary of value addition is given below in the table:

₹ million

Particulars	2017-18	2016-17	2015-16	2014-15	2013-14
Generation of Gross Value added	4550	3959	3789	3071	2829
(Excludes exceptional income)					
Breakup on Application of Value added					
Payment to employees and directors	1760	1549	1429	1309	1270
Payment to shareholders (on payment basis)	330	189	377	235	281
Payment to Government	732	543	564	374	349
Payment to Lender	0	33	64	49	44
Towards replacement and expansion	1728	1645	1355	1104	885
	4550	3959	3789	3071	2829

- Gross value added is Revenue Less Expenditure (excluding depreciation + expenditure on employee & directors service + Long term interest)
- Payment to Government is Current tax + Dividend distribution tax
- Towards replacement and expansion is Retained earning + Depreciation + Deferred tax

RISKS, CONCERNS AND THREATS

The Company has constituted a Risk Management Committee aligned with the requirements of the Companies Act, 2013 and Listing Regulations. The details of the Committee and its terms of reference are set out in the Corporate Governance Report forming part of this Report.

The Company has a robust business risk management process to identify, evaluate and mitigate risks impacting business including those which may threaten the existence of the Company. This framework seeks to create transparency, minimise adverse impact on the business objectives and enhance the Company's competitive advantage. This also defines the risk management approach across the enterprise at various levels including documentation and reporting. The framework has different risk models which help in identifying risk trends, exposure and potential impact analysis at a Company level as also separately for the business segments. The Company also has developed a structured risk management policy encompassing the risk management objectives, principles, process, responsibility for implementation, maintenance of risk registers, risk reporting framework etc. Risk management also forms an integral part of the Company's Business Plan.

The Company operates across various technology platforms and product verticals built over the years. Relative advantages and disadvantages of such technologies are studied and advances are tracked. Any new technology may impact the performance of the Company in the long run. The Company seeks to address these technology gaps through continuous benchmarking of the existing manufacturing processes with developments in the industry and in this connection has made arrangements with technical research institutions and technology consultants. The Company has been making investments in the next level of Industry 4.0 in select modules. Industry 4.0 is the current trend of automation and data exchange in manufacturing technologies.

Considering that Electrominerals products are produced by way of fusion process which consumes a lot of electricity, power cost remains one of the key levers which can favourably or adversely affect our profitability based on the changes in the electricity cost. Apart from pricing, in some locations, availability of power becomes a constraint. Getting access to captive power and creating facilities for captive power generation continues to be a vital strategy of CUMI. The Company also explores ways to source power from open access at competitive rates.

Fuel cost increase is another area of concern. Petroleum based products are used, either as a direct raw material or as a fuel for the firing process. Any increase in the cost of fuel impacts the profitability adversely. Improvements in firing technologies are avenues which the Company continues to pursue for dealing with the challenges. The Company is also pursuing projects to reduce the risk exposed on variability of fuel prices.

The Company deals with multiple currencies and is thus exposed to translation risk on account of adverse currency movements. Foreign Exchange risk on foreign denominated loans, imports and exports are mitigated by adopting a country-based Forex policy, periodic monitoring and use of hedging instruments. Efforts are being taken to manage both

exports and imports to ensure that at Company level, there is a natural hedging mechanism.

As a risk mitigation measure of the cyber security threat and in continuation of the IT security review plan, during the year the Company undertook a mobile application security assessment as well as a review of the security programme management. The findings were deliberated and the priorities drawn out including promoting information security awareness amongst the employees, strengthening network security posture, installing security incidence & event management platform, carrying out proactive vulnerability assessment & penetration testing etc. and enhancing Information Security policies & procedures across various business units.

The Company's input materials are not commoditised and does not warrant any specific hedging to be undertaken. With respect to output materials, adverse impact of changes in commodity prices on user industries could impact the sales which are mitigated by development of alternate products, establishing new range of applications etc. as detailed above. The other mitigation measures for dealing with increase in fuel costs, non-availability of raw materials etc. have been dealt separately in the above paragraphs.

BUSINESS OUTLOOK AND OPPORTUNITIES

Global growth is expected at 3.9 per cent next year as per IMF supported by strong momentum, favourable market sentiment and recovery in commodity prices favouring commodity exporters.

Reversing two years of declining growth, Indian economy is set to expand at 7.3 per cent in 2018-19 and at 7.6 per cent in 2019-20, aided by various growth oriented new policy measures, as per Asian Development Bank. India would become the fastest growing large economy for next two years given that China's growth forecast is lower than that of India. The main growth driver for Indian economy would be rural consumption, continued infrastructure development projects and healthy exports growth on the back of pick-up in growth in advanced economies.

The pick-up in infrastructure capex - Central Government's road construction push - Bharatmala Pariyojana would be significantly positive for the Company.

Normalisation of domestic markets post GST disruption, growth of Stainless Steel, Aerospace, Railways and Robotic industries, Urbanisation & Infrastructure and Light weighting trends will favourably impact Company's business.

Growth in Automobiles and Auto ancillary industry would open up opportunities for high performance Minerals and Abrasives business. Growth in commercial vehicles led by pick up in infrastructure capex, increased mining activity and commodity business, would favourably impact Company's business.

The Company's significant share of sale comes from outside India. Globally, the marketing and manufacturing entities are spread across Middle East, Europe, China, Russia and North America. The uptick in the global economy with rising commodity price would benefit the

Company. The demand for the Company's products would be favourably spurred by industrialisation activity, rising per capita income and consumer spending, enhanced manufacturing activities and increase in investments.

FIXED DEPOSITS

The Company has not accepted any deposits from the public falling within the ambit of Section 73 of the Companies Act, 2013 read with Companies (Acceptance of Deposits) Rules, 2014 and no amount of principal or interest was outstanding as on the Balance Sheet date.

LOANS AND INVESTMENTS

The particulars of loans, guarantees and investments covered under Section 186 of the Companies Act, 2013 are given below:

₹ million			
Description	As on 31.03.2017	Movement (Net of Deletions)	As on 31.03.2018
Loans given by the Company	-	-	-
Corporate guarantee given by the Company	1691.08	35.56*	1726.64
Investments made by the Company	2541.16	27.41**	2568.57

*Due to Exchange difference

**On account of fair valuation

Current Investments - investment in mutual funds as on 31.03.2018 was ₹544.79 million.

RELATED PARTY TRANSACTIONS

The Company as per the requirements of the Companies Act, 2013 and Regulation 23 of the Listing Regulations has a Policy for dealing with Related Parties.

In line with its stated policy, all Related Party transactions are placed before the Audit Committee for review and approval. Prior approval of the Committee is obtained on a quarterly basis for transactions which are of foreseen and repetitive nature. Omnibus approvals in respect of transactions which are not routine or which cannot be foreseen or envisaged are also obtained as permitted under the applicable laws. The list of Related Parties is reviewed and updated periodically as per the prevailing regulatory conditions.

The details of transactions proposed to be entered into with Related Parties are placed before the Audit Committee for approval on an annual basis before the commencement of the financial year. Thereafter, a statement containing the nature and value of the transactions entered into by the Company with Related Parties is presented for quarterly review by the Committee. Further, revised estimates or changes, if any to the proposed transactions for the remaining period are also placed for approval of the Committee on a quarterly basis. Besides, the Related Party transactions entered during the year are also reviewed by the Board on an annual basis.

All transactions with Related Parties entered during the financial year were in the ordinary course of business and on an arm's length basis. There are no materially significant related party transactions made by the Company with its Promoters, Directors, Key Managerial Personnel or their relatives which may have a potential conflict with the interest of the Company at large. There are no contracts or arrangements entered

into with Related Parties during the year to be disclosed under Sections 188(1) and 134(h) of the Companies Act, 2013 in form AOC-2.

The Company's policy on dealing with Related Parties as approved by the Board is available on the Company's website at the following link <https://www.cumi-murugappa.com/policies.html>. None of the Directors and KMPs had any pecuniary relationship or transaction with the Company other than those relating to remuneration in their capacity as Directors/Executives and corporate action entitlements in their capacity as shareholders of the Company.

CORPORATE SOCIAL RESPONSIBILITY

The Murugappa Group is known for its tradition of philanthropy and community service. The Group's philosophy is to reach out to the community by establishing service oriented philanthropic institutions in the field of education and healthcare as the core focus areas. The Company being a constituent of the Group has been upholding this tradition by earmarking a part of its income for carrying out its social responsibilities.

The Company continues to engage in Corporate Social Responsibility (CSR) activities directly as well as through implementation agencies.

The Company set up the CUMI Centre for Skill Development (CCSD) in year 2012 at Hosur, to build a skill bank of a technically competent and industry ready work force from the less privileged sections of the Society. During the FY 2015-16, the Company replicated this model in Edapally, Cochin. CCSD provides specialised training based on National Council on Vocational Training syllabus for the rural youth drawn from socially and underprivileged sections of the society. Three year training is imparted with a stipendiary payment and free boarding facilities, thus enabling the enrolled students to earn while they learn. The job oriented skill training enhances their employability and aids in uplifting their socioeconomic status. The technically trained students can be employed by any industrial entity once they complete the training programme. The Company continues to harness the potential of CCSD centres so far established. During the year, 64 students from the CCSD, Hosur passed with flying colours and graduated from the Centre. The Company takes pride in informing that few students have earned accolades at national/ regional level for their par excellence performance in academic and technical areas.

In addition to the CCSD, the Company has also been contributing to the cause of health and education by making grants to AMM Foundation, an autonomous charitable trust, engaged in philanthropic activities in the field of education and healthcare since 1953. During the year, the Company's focus areas for these grants were in the education sector through contributions to Vellayan Chettiar Higher Secondary School, Tiruvottiyur (VCHSS) - which has been making a difference in the field of education for the past 50 years. The school runs with the vision - To provide Quality Education with good virtues, for the under privileged and marginalised communities around Tiruvottiyur. With an objective to provide the students of the VCHSS adequate facilities for excelling in sports, the Company through the agency undertook a project during the year for development of playground (football ground) in addition to meeting the running expenditure of the school. Besides the above, the Company also actively pursued local community assistance programmes

in and around its plant and office locations anchored by its employees. The Company's CSR policy is available on the Company's website at the following link <https://www.cumi-murugappa.com/policies.html>. The Annual report on the CSR activities in the prescribed format is annexed hereto as Annexure A and forms part of this Report.

BUSINESS RESPONSIBILITY REPORTING

The Company's ethical and responsible behaviour complements its corporate culture. Being a public listed company, the Company recognises that its accountability is not limited only to its shareholders from a financial perspective but also to the larger society in which it operates. During 2016-17, consequent to the mandatory reporting of its business responsibility initiatives under the Listing Regulations, the Company had formulated a consolidated Policy on Business Responsibility which lays down the broad principles guiding the Company in delivering its various responsibilities to its stakeholders. The Policy is intended to ensure that the Company adopts responsible business practices in the interest of the social set up and the environment so that it contributes beyond financial and operational performance. A copy of the Policy is available at <https://www.cumi-murugappa.com/policies.html> and the Business Responsibility Report for the year ended 31st March 2018 in terms of Regulation 34 of the Listing Regulations is annexed to this report as Annexure B.

GOVERNANCE

Board of Directors and Key Managerial Personnel

As at 31st March 2018, the Board of the Company comprised nine Directors of which majority (six) are independent. During the year, Mr. P S Raghavan and Mr. Sujain S Talwar were appointed as Additional Directors and their appointment as Independent Directors of the Company for a term of 5 years effective 9th May 2017 was approved by the shareholders at the 63rd Annual General Meeting held on 31st July 2017.

Mr. M Lakshminarayan and Mr. Shobhan M Thakore, Independent Directors who were appointed for a term of three years at the 60th Annual General Meeting held on 1st August 2014 retired on 31st July 2017. The Board places on record its appreciation for the services rendered by Mr. Lakshminarayan and Mr. Shobhan Thakore during their tenor as Directors of the Company including as members of the various Committees of the Board.

Following the changes in the Board composition, the constitution of the various Committees of the Board were also reviewed and revised during the year, the details of which are provided in the Corporate Governance Report.

Further, the shareholders at the last Annual General Meeting held on 31st July 2017 approved the re-appointment of Mr. K Srinivasan for a further period of two years from 23rd November 2017 till 22nd November 2019.

Mr. M A M Arunachalam, retires by rotation at the forthcoming Annual General Meeting and being eligible has offered himself for re-appointment. A proposal for his re-appointment is included in the Notice convening the 64th Annual General Meeting for consideration and approval by the shareholders.

The Company has received declarations from all its Independent Directors confirming that they meet the criteria of independence prescribed both under the Companies Act, 2013 and the Listing Regulations.

Mr. K Srinivasan, Managing Director and Ms. Rekha Surendhiran, Company Secretary continue to be the Key Managerial Personnel of the Company as per Section 203 of the Companies Act, 2013. During the year, Mr. Sridharan Rangarajan stepped down from his position as Chief Financial Officer of the Company effective the closing hours of 17th January 2018 on account of his elevation as President & Group - CFO of the Murugappa Group. The position of the Chief Financial Officer is vacant since then and the Company having identified suitable candidate(s) is in the process of filling up the vacancy.

Board Meetings

During the year, six Board Meetings were held, the details of which are given in the Corporate Governance Report.

Board Evaluation

Pursuant to the provisions of the Companies Act, 2013 and the Listing Regulations, the Board carried out an annual performance evaluation of its own performance, the Directors individually as well as the evaluation of the working of its various Committees as per the evaluation framework adopted by the Board on the recommendation of the Nomination and Remuneration Committee. Structured assessment forms were used in the overall Board evaluation comprising various aspects of the Board's functioning in terms of structure, its meetings, strategy, governance and other dynamics of its functioning besides the financial reporting process, internal controls and risk management. The evaluation of the Committees was based on their terms of reference fixed by the Board besides the dynamics of their functioning in terms of meeting frequency, effectiveness of contribution etc.

Separate questionnaires were used to evaluate the performance of individual Directors on parameters such as their level of engagement and contribution, objective judgement etc. The Managing Director's evaluation was based on leadership qualities, strategic planning, communication, engagement with the Board etc.

The Chairman was also evaluated based on the key aspects of his role. The performance evaluation of the Independent Directors was carried out by the entire Board. The performance evaluation of the Chairman, the Board as whole and the Non-Independent Directors was carried out by the Independent Directors at their separate meeting held during the year.

Policy on Appointment and Remuneration of Directors

Pursuant to Section 178(3) of the Companies Act, 2013, the Nomination and Remuneration Committee of the Board has formulated the criteria for Board nominations as well as the policy on remuneration for Directors and employees of the Company.

The criteria for Board nominations lays down the qualification norms in terms of personal traits, experience, background and standards for independence besides the positive attributes required for a person to be inducted into the Board of the Company. Criteria for induction into Senior Management positions have also been laid down.

The Remuneration policy provides the framework for remunerating the members of the Board, Key Managerial Personnel and other employees of the Company. This Policy is guided by the principles and objectives enumerated in Section 178(4) of the Companies Act, 2013 and reflects the remuneration philosophy and principles of the Murugappa Group to ensure reasonableness and sufficiency of remuneration to attract, retain and motivate competent resources, a clear relationship of remuneration to performance and a balance between rewarding short and long-term performance of the Company. The policy lays down broad guidelines for payment of remuneration to Executive and Non-Executive Directors within the limits approved by the shareholders. Further details are available in the Corporate Governance Report.

The Board Nomination criteria and the Remuneration policy are available on the website of the Company at <https://www.cumi-murugappa.com/policies.html>.

Composition of Audit Committee

The Audit Committee of the Board comprises only Independent Directors. Mr. T L Palani Kumar is the Chairman and other members are Mr. Sanjay Jayavarthanavelu, Mrs. Bharati Rao and Mr. Sujain S Talwar who was inducted into the Committee on 9th May 2017 in view of the retirement of Mr. M Lakshminarayan on 31st July 2017. During the year, five Audit Committee meetings were held, the details of which are provided in the Corporate Governance Report.

Statutory Auditors

During the year, the office of M/s. Deloitte Haskins & Sells, Chartered Accountants, (FR No. 008072S) Chennai as the Statutory Auditors of the Company expired at the conclusion of the 63rd Annual General Meeting (AGM) held on 31st July 2017. The Board places on record its appreciation for the services rendered by M/s Deloitte Haskins & Sells during their long tenor as Auditors of the Company.

In line with the requirements of the Companies Act, 2013, the Company with the approval of the shareholders at the Annual General Meeting held on 31st July 2017 appointed M/s. Price Waterhouse Chartered Accountants LLP, (Reg. No. FRN 012754N/N500016) (PWC) as the Statutory Auditors of the Company to hold office from the conclusion of 63rd Annual General Meeting until the conclusion of the 68th Annual General Meeting at a remuneration of ₹38,66,000/- for the FY 2017-18 subject to annual ratification by the shareholders at every AGM, if required under the relevant provisions of the Act at a remuneration decided by the Board based on the recommendation of the Audit Committee. The Companies (Amendment) Act, 2017 has dispensed with the requirement of annual ratification of the Statutory Auditor's appointment. However, as on the date of this report, the said provision has not yet been notified. In case the above is not notified prior to the date of the Annual General Meeting, then the proposal seeking approval of the shareholders for ratification of the Auditor's appointment would be placed at the 64th AGM. The Board at its meeting held on 4th May 2018, based on the recommendation of the Audit Committee, has determined the remuneration of the Statutory Auditors as ₹42,00,000/- for the FY 2018-19 (excluding out of pocket expenses incurred by them in connection with the Audit and applicable taxes).

As required under Regulation 33 of the Listing Regulations, the Auditors have confirmed that they hold a valid certificate issued by the Peer Review Board of the Institute of Chartered Accountants of India.

The Report given by M/s. Price Waterhouse Chartered Accountants LLP on the Financial Statements of the Company for the year ended 31st March 2018 is provided in the financial section of the Annual Report. There are no qualifications, reservations, adverse remarks or disclaimers given by the Auditors in their report.

Cost Auditors

Pursuant to Section 148 of the Companies Act, 2013 read with Companies (Cost Records and Audit) Rules, 2014 and amendments thereof, the Company is required to maintain cost accounting records in respect of products of the Company covered under CETA categories like Organic and Inorganic chemicals, Electrical or Electronic machinery, Steel, Plastic and Polymers, Ores and Mineral products, other Machinery, Base Metals etc. Further, the cost accounting records maintained by the Company are required to be audited.

The Board, on the recommendation of the Audit Committee, had appointed M/s. S Mahadevan & Co. (firm no. 000007), Cost Accountants, Chennai to audit the cost accounting records maintained by the Company under the said Rules for the FY 2017-18 on a remuneration of ₹400,000/-. Further, the said firm has also been appointed by the Board to conduct the cost audit for the FY 2018-19 at the same remuneration.

The Companies Act, 2013 mandates that the remuneration payable to the Cost Auditor is ratified by the Members. Accordingly a resolution seeking the shareholder's ratification of the remuneration payable to the Cost Auditor for the FY 2018-19 is included in the Notice convening the 64th Annual General Meeting.

Secretarial Audit

M/s. R Sridharan & Associates, Practising Company Secretaries, Chennai was appointed as the Secretarial Auditor to undertake the Secretarial Audit of the Company for the FY 2017-18. The report of the Secretarial Auditor is annexed to and forms part of this Report (refer Annexure F). There are no qualifications, reservations, adverse remarks or disclaimers given by the Secretarial Auditor in the Report.

Compliance Management

The Company's in house compliance management system tracks compliances across the various factories and offices of the Company. This tool has a comprehensive coverage of the various applicable laws and is periodically updated based on the regulatory changes.

Corporate Governance

In terms of Regulation 34(3) read with Schedule V of the Listing Regulations, a separate section on Corporate Governance including the certificate from a Practising Company Secretary confirming compliance is annexed to and forms an integral part of this Report.

CEO/CFO Certificate

Mr. K Srinivasan, Managing Director has submitted a certificate to the Board on the integrity of the Financial Statements and other matters as required under Regulation 17(8) of the Listing Regulations.

DIRECTORS' RESPONSIBILITY STATEMENT

Pursuant to the provisions contained in Section 134(3)(c) of the Companies Act, 2013, the Board to the best of its knowledge and belief and according to the information and explanations obtained by it confirm that:

- in the preparation of the annual accounts, for the financial year ended 31st March 2018, applicable accounting standards have been followed and no material departures have been made from the same;
- the accounting policies mentioned in Note 3 of the Notes to the Financial Statements have been selected and applied consistently and judgments and estimates that are reasonable and prudent have been made so as to give a true and fair view of the state of affairs of the Company at the end of the financial year and of the profit of the Company for that period;
- proper and sufficient care has been taken for the maintenance of adequate accounting records in accordance with the provisions of the Companies Act, 2013 for safeguarding the assets of the Company for preventing and detecting fraud and other irregularities;
- the annual accounts have been prepared on a going concern basis;
- that internal financial controls to be followed by the Company have been laid down and that such internal financial controls are adequate and operating effectively;
- proper systems have been devised to ensure compliance with the provisions of all applicable laws and that such systems are adequate and operating effectively.

EXTRACT OF ANNUAL RETURN

The extract of the Annual Return in the prescribed form MGT 9 is annexed to and forms part of this Report (refer Annexure E).

SECRETARIAL STANDARDS

The Company is in compliance with the Secretarial Standard on Meetings of the Board of Directors (SS-1) and Secretarial Standard on General Meetings (SS-2).

ENERGY CONSERVATION, TECHNOLOGY ABSORPTION AND FOREIGN EXCHANGE EARNINGS & OUTGO

The information on energy conservation, technology absorption, expenditure incurred on Research & Development and forex earnings/

outgo as required under Section 134(3)(m) of the Companies Act, 2013 read with Rule 8 of the Companies (Accounts) Rules, 2014 is annexed to and forms part of this Report (refer Annexure C).

SIGNIFICANT AND MATERIAL ORDERS PASSED BY THE REGULATORS OR COURTS

There are no significant and material orders passed by the regulators or courts or tribunals impacting the going concern status of the Company and its future operations.

PARTICULARS OF EMPLOYEES

The information on employees and other details required to be disclosed under Rule 5 of the Companies (Appointment and Remuneration of Managerial Personnel) Rules, 2014 is annexed to and forms part of this Report (refer Annexure D).

Under the Company's Employee Stock Option Scheme 2007, no Option grants have been made since February 2012. The Employee Stock Option Plan 2016 (ESOP 2016) was implemented in February 2017 with the approval of the shareholders and currently governs the grant of Options to employees. During the year 2017-18, a grant of 70,214 options was made to eligible employees. The disclosures with respect to Options granted under the ESOP 2007 and ESOP 2016 are contained in the Corporate Governance Report. Further, the disclosures relating to Stock Options as per Securities and Exchange Board of India (Share based Employees Benefits) Regulations, 2014 read with the circular issued by SEBI on 16th June 2015 has been provided on the Company's website and is available in the link <https://www.cumi-murugappa.com/policies.html>. Both the ESOP Scheme 2007 and ESOP 2016 are in compliance with the SEBI (Share Based Employee Benefits) Regulations, 2014.

ACKNOWLEDGEMENT

The Board gratefully acknowledges the co-operation received from various stakeholders of the Company viz., customers, investors, channel partners, suppliers, government authorities, banks and other business associates during the year. The Board also places on record its sincere appreciation of all the employees of the Company for their commitment and continued contribution to the Company.

Chennai
May 4, 2018

On behalf of the Board
M M Murugappan
Chairman

Annexures to the Directors' Report

All information furnished in the annexures relates to Carborundum Universal Limited, India as a standalone entity

ANNEXURE A

ANNUAL REPORT ON CORPORATE SOCIAL RESPONSIBILITY (CSR) ACTIVITIES

1. A brief outline of the Company's CSR policy, including overview of projects or programs proposed to be undertaken and a reference to the web-link to the CSR policy and projects/programs
The Company is cognizant of its responsibility towards the society in which it operates and has been engaged in CSR activities directly through the establishment of skill development centre as well indirectly through contributions to AMM Foundation, an autonomous charitable trust, in the field of Education and Healthcare, in addition to pursuing activities for the benefit of community around its local areas of operations.

In line with its objectives and practices, the CSR policy focuses on Health, Education and Skill Development. The policy is uploaded in the website of the Company.

2. Website link where the CSR policy is uploaded
<http://www.cumi-murugappa.com/policies.html>

3. The composition of the CSR Committee#
Mr. Aroon Raman (Chairman)
Mr. P S Raghavan (Independent Director)
Mr. K Srinivasan (Managing Director)
#Mr. Shobhan Thakore was the Chairman of the Committee till 31st July 2017. Consequent to his term as an Independent Director ending on 31st July 2017, the Committee was re-constituted with the induction of two new members during the year on 9th May 2017.

4. Average net profit of the Company for last three financial years ₹1265.54 million

5. Prescribed CSR Expenditure (two per cent of the amount as in item 4 above) ₹25.31 million

6. Details of CSR spent during the financial year
(a) Total amount spent for the financial year ₹25.61 million
(b) Amount unspent, if any Nil

(c) Manner in which the amount spent during the financial year is detailed below:

Sl.no	CSR Project or activity identified	Sector in which the project is covered	Project or Programs - location	Amount Outlay/direct by Co.	Amount spent on the projects or programs - 1) direct expenditure 2) overheads	Cumulative Expenditure upto reporting period	Amount spent Direct/ agency
1	CUMI Centre for Skill Development	Enhancing employment skills in manufacturing sector	Hosur, Krishnagiri District, Cochin, Ernakulam District	12.65	12.95	12.95	Direct
2.	Grant to Vellayan Chettiar Higher Secondary School (VCHSS)	Education	Tiruvottiyur, Chennai	12.66	12.66	12.66	Agency
Total				25.31	25.61		

Agency: AMM Foundation

*With an objective to provide the students of the VCHSS adequate facilities for excelling in sports, the Company through the agency undertook a project during the year for development of playground (football ground) in addition to meeting the running expenditure of the school which is under execution.

7. Reasons for shortfall in spend: NA

8. The implementation and monitoring of CSR Policy for the FY 2017-18 is in compliance with the CSR objectives and Policy of the Company.

On behalf of the Board

Chennai
May 4, 2018

K Srinivasan
Managing Director

Aroon Raman
Chairman - CSR Committee

Annexure B

Business Responsibility Report

SECTION A: GENERAL INFORMATION ABOUT THE COMPANY

1.	Corporate Identity Number (CIN) of the Company	L29224TN1954PLC000318
2.	Name of the Company	Carborundum Universal Limited
3.	Registered address	'Parry House' 43 Moore Street Chennai - 600001
4.	Website	www.cumi-murugappa.com
5.	E-mail id	cumigeneral@cumi.murugappa.com
6.	Financial Year reported	1 st April 2017 to 31 st March 2018
7.	Sector(s) that the Company is engaged in (industrial activity code-wise)	
	Group	Class
	Sub-class	Description
	Sector	
	239	2399
	2393	23939
	239	2393
	23939	Manufacture of other porcelain and ceramic products
	007	0072
	00729	Mining of other non-ferrous metal ores
		Abrasives
		Ceramics
		Electrominerals
8.	List three key products/services that the Company manufactures/provides (as in Balance Sheet)	Abrasives, Ceramics and Electrominerals
9.	Total number of locations where business activity is undertaken by the Company	
	(a) Number of International Locations (Provide details of major 5)	On a standalone basis, the Company does not have any manufacturing unit located outside India
	(b) Number of National Locations	On a standalone basis, the Company carries manufacturing operations across 19 locations in India
10.	Markets served by the Company	Local/State/National/International - All markets

SECTION B: FINANCIAL DETAILS OF THE COMPANY

1.	Paid up Capital (INR)	₹ 188.96 million
2.	Total Turnover (INR)	₹ 16333.19 million
3.	Total Profit after taxes (INR)	₹ 1434.79 million
4.	Total Spending on Corporate Social Responsibility(CSR) as percentage of profit after tax (%)	2.02% of the average net profits in the preceding three financial years.
5.	List of activities in which expenditure in 4 above has been incurred	(a) Skill Development - Enhancing employment skills of under privileged youth in the manufacturing sector (b) Education For further details, please refer the Corporate Social Responsibility Report (Annexure A of Directors' Report)

SECTION C: OTHER DETAILS

1.	Does the Company have any Subsidiary Company/Companies?	Yes. As on 31 st March 2018, the Company has 5 direct subsidiaries. Its wholly owned subsidiary - CUMI International Limited has 7 subsidiaries. Out of the total 12 subsidiaries, 3 are situated in India and 9 are situated outside India.
2.	Do the Subsidiary Company/Companies participate in the BR Initiatives of the parent company?	Each subsidiary company carries out BR initiatives as per their local requirements.
3.	Do any other entity/entities (e.g. suppliers, distributors etc.) that the Company does business with, participate in the BR initiatives of the Company? If yes, then indicate the percentage of such entity/entities? [Less than 30%, 30-60%, More than 60%]	The Company does business with reputed organisations who undertake BR initiatives as per their respective organisational policies. The CUMI Centre for Skill Development, a direct CSR initiative of the Company, is joint collaboration with Wendt (India) Limited, joint venture company.

Business Responsibility Report

SECTION D: BR INFORMATION

1. Details of Director responsible for BR

(a) Details of the Director responsible for implementation of the BR policy/policies

1.	DIN	00088424
2.	Name	K Srinivasan
3.	Designation	Managing Director

(b) Details of the BR head

No.	Particulars	Abrasives	Ceramics	Refractories & Prodorite*	Electrominerals
1.	DIN	NA	NA	NA	NA
2.	Name	N Ananthaseshan	Rajesh Khanna	R Rajagopalan	P S Jayan
3.	Designation	President - Abrasives	President- Ceramics	EVP - Refractories & Prodorite	EVP - Electrominerals
4.	Telephone number	91-44-30006161			
5.	E-mail ID	cumibrr@cumi.murugappa.com			

*Consequent to Mr. R Rajagopalan's retirement on 30th April 2018, the BR head for this division is Mr. V G Rajendran, Senior Vice President - Refractories and Prodorite.

2. Principle-wise (as per NVGs) BR Policy/policies

(a) Details of compliance

No.	Questions	P1	P2	P3	P4	P5	P6	P7	P8	P9
i.	Do you have a policy/policies for	Y	Y	Y	Y	Y	Y	Y	Y	Y
ii.	Has the policy been formulated in consultation with the relevant stakeholders?	The policy(ies) has been framed keeping in mind the interests of the stakeholders at large.								
iii.	Does the policy conform to any national/international standards?	Various practises/processes emanating out of the policy(ies) conform to national/international standards.								
iv.	Has the policy been approved by the Board? If yes, has it been signed by MD/owner/CEO/appropriate Board Director?	Y	Y	Y	Y	Y	Y	Y	Y	Y
v.	Does the Company have a specified committee of the Board/Director/Official to oversee the implementation of the policy?	Y	Y	Y	Y	Y	Y	Y	Y	Y
vi.	Indicate the link for the policy to be viewed online?	https://www.cumi-murugappa.com/policies.html								
vii.	Has the policy been formally communicated to all relevant internal and external stakeholders?	The policy(ies) has been disseminated on the Intranet as well as on the website of the Company.								
viii.	Does the Company have in-house structure to implement the policy/policies?	Y	Y	Y	Y	Y	Y	Y	Y	Y
ix.	Does the Company have a grievance redressal mechanism related to the policy/policies to address stakeholders' grievances related to the policy/ policies?	The individual policies by and large prescribe a grievance redressal mechanism for the stakeholders concerned. Wherever, the individual policies do not explicitly state the grievance redressal mechanism, grievances can be addressed to cumibrr@cumi.murugappa.com.								
x.	Has the Company carried out independent audit/evaluation of the working of this policy by an internal or external agency?	The Internal Auditors of the Company review the implementation of policies from time to time. The Company's various factories have been subject to audit by external certification agencies. No dedicated Business Responsibility audit has been conducted.								

(b) If answer to the question at serial number 2(a)(i) against any principle is 'No', please explain why: Not applicable

No.	Questions	P1	P2	P3	P4	P5	P6	P7	P8	P9
i.	The Company has not understood the Principles									
ii.	The Company is not at a stage where it finds itself in a position to formulate and implement the policies on specified principles									
iii.	The Company does not have financial or manpower resources available for the task									
iv.	It is planned to be done within next 6 months									
v.	It is planned to be done within the next 1 year									
vi.	Any other reason (please specify)									

Not applicable

Business Responsibility Report

3. Governance related to BR

- i. **Indicate the frequency with which the Board of Directors, Committee of the Board or CEO assess the BR performance of the Company. Within 3 months, 3-6 months, annually, more than 1 year.**

The assessment is a continuous process and there is no defined frequency at which this assessment is done.

- ii. **Does the Company publish a BR or a Sustainability Report? What is the hyperlink for viewing this report? How frequently it is published?**

The Company publishes BR report annually and the report is available at <https://www.cumi-murugappa.com/policies.html>.

SECTION E: PRINCIPLE-WISE PERFORMANCE

Principle 1: Businesses should conduct and govern themselves with ethics, transparency and accountability.

1. **Does the policy relating to ethics, bribery and corruption cover only the Company? Yes/No. Does it extend to the group/ joint ventures/ suppliers/ contractors/ NGOs/ others?**

Commitment to ethical and lawful business conduct is a fundamental shared value of the Board of Directors, Senior Management and all other employees of the Company. CUMI's value systems are aligned with the Murugappa Group's Values and Beliefs guided by the Five Lights - spirit of the Murugappa Group: Integrity, Quality, Passion, Respect and Responsibility towards all stakeholders and the communities that the Company operates in and serves. The Company as well as all companies within the CUMI Group - its subsidiaries, associates or joint ventures are governed by this philosophy as well as the requirements of their local jurisdictions.

CUMI's Right path - a corporate manual setting out the corporate culture lays down the guidelines required to be adhered to by every employee both in letter and spirit. This manual prepared with a view to give clarity on ethical issues, maintaining transparency in all dealings and practice ethics in a dynamic business environment is required to be adhered by all employees. The Company's Code of Conduct, Code of Conduct for Prevention of Insider Trading, Diversity policy, Policy on prevention of sexual harassment, ethical guidelines on stakeholder dealing, Whistle Blower policy which are also enshrined in the Right Path serve as a guiding norm in matters relating to ethics, anti-bribery and anti-corruption for all employees.

The Company has a policy to do business with suppliers/ contractors and others who are aligned with its value systems. Appropriate due diligence is exercised while selecting them. While last year the Company was conferred the prestigious Golden Peacock Award in Corporate Ethics, this year the Company has been awarded

the Golden Peacock Award for Corporate Governance in due recognition of its governance practises.

2. **How many stakeholder complaints have been received in the past financial year and what percentage was satisfactorily resolved by the management?**

During the year, there was one referral made under the Whistle Blower policy of the Company. No complaint was referred under the BRR grievance redressal mechanism. The referral made was investigated and closed satisfactorily.

Principle 2: Businesses should provide goods and services that are safe and contribute to sustainability throughout their life cycle.

The Company undertakes to assure safety and optimal resource use over the life-cycle of its products. The Company being material science technology oriented continuously innovates and strives for optimal resource use over the life cycle of the products it manufactures.

1. **List up to 3 of your products or services whose design has incorporated social or environmental concerns, risks and/or opportunities:**

Abrasives:

- Metal working fluids manufactured by the Abrasives segment are water solubles designed for easier effluent treatment, thereby having a low negative impact on environment.
- 'Fero' Grinding Wheel, developed with a fiber reinforced core can be re-cycled subsequent to use. This not only helps in keeping the costs under control, but also assists in reducing the carbon footprint.

Electrominerals:

- Two modern fusion facilities have been introduced to improve particulate emission control system.
- Azure S - Improvements in the Selective Catalytic Reduction systems to avoid scrubbing process. A new product SiC fine powder is developed which is used as a part of emission control from Diesel vehicles.

Industrial Ceramics:

- Technical Ceramics - Furniture for Solid Oxide fuel cells - used in alternate mode of power generation for green energy equipment.

The Company has dedicated state of the art Research and Development centres across its businesses certified by the Department of Scientific and Industrial Research (DSIR) serving as centres of excellence for research and strengthening the platform for competency & sustainable growth.

Business Responsibility Report

2. For each such product, provide the following details in respect of resource use (energy, water, raw material etc.) per unit of product (optional):

a. Reduction during sourcing/production/distribution achieved since the previous year throughout the value chain?

- Significant part (~30 per cent) of the energy requirement for the Electrominerals division - the major user of electric energy is from our own Hydro power station - green energy.
- Almost entire power requirement in Tamil Nadu is met by SEDCO - our own gas based power station - clean power.
- Kilns and processes are designed to consume low energy per unit of production. This is managed by programs impacting both the primary and secondary energy consumption points through EnMS.
- SPC (Specific Power Consumption) & SFC (Specific Fuel Consumption) programmes are driven using TPM methodologies.
- The Company has assisted in TPM and 5S implementation at the suppliers' end to improve material yields and reduce energy consumption.
- A new backing treatment process has been developed and implemented by the Coated Abrasives manufacturing plant which is expected to save one million liters of water per month.
- The Industrial Ceramics Division has installed a high capacity Effluent Treatment plant with which the permeate recovery from RO plant can be improved up to 85%. Using this RO permeate, about 18KL/Day water has been recycled.
- The Company uses a cleaner gaseous fuel (LPG) in Metallized Cylinder manufacturing line. Combustion efficiency of gas firing is higher when compared to that of gas fuels. Further, the thermal mass of refractories in these furnaces is reduced to enable a faster firing cycle and thereby reducing the peak temperature of firing by 5 per cent. This has helped in minimising the energy consumption to extent of 20 per cent when compared to that liquid fuels and long firing cycle.
- The Electrominerals Division has set up a bio-waste treatment system for canteen wastes.
- We are a zero discharge Company in almost all locations.

As the Company's product range is over 20,000 SKUs, unit consumption is not an appropriate measure.

b. Reduction during usage by consumers (energy, water) has been achieved since the previous year?

- We have been continuously developing superior Grinding wheels that are more efficient in material removal resulting in lower power consumption by user entities.
- We develop superior Grains that have higher material removal per unit energy.

- The 'Fero' Grinding Wheels, developed with a fibre reinforced core, has achieved reduction of wheel weight to the tune of 20 per cent, capable of higher speeds and thereby reducing the power consumption.

3. Does the Company have procedures in place for sustainable sourcing (including transportation)? If yes, what percentage of your inputs was sourced sustainably?

The Company's integrated operations ensures sustainable exploitation of the available resources. Joint project opportunities amongst various business units improve efficiencies in sourcing besides resulting in product efficiencies.

Conscious efforts are made to ensure that everyone connected with the Company be it the designers, producers, value chain members, customers and recyclers are made aware of their responsibilities.

The Total Productivity Maintenance (TPM) practices across plants helps in not only achieving operational efficiencies but also results in energy conservation and sustainable operations. Usage of materials which are either recycled or capable of recycling assumes top priority. During the year, the Coated Abrasives Division, Sriperumbudur Plant received the JIPM Award for Excellence in Consistent TPM commitment. The JIPM Award for TPM Excellence, Category A was received by the Bonded Abrasives Division, Hosur Plant. Again JIPM Award for Excellence in Consistent TPM commitment was received by the Maraimalai Nagar Abrasives Plant and the Industrial Ceramics Division, Hosur received the JIPM Award for TPM Excellence, Category A. The recognition for TPM practises across various plants resonates with our focus for sustainable operations across the organisation.

4. Has the Company taken any steps to procure goods and services from local & small producers, including communities surrounding their place of work? If yes, what steps have been taken to improve the capacity and capability of local and small vendors?

The Company's global and complex operations does not complement the procurement of goods and services from local and small producers in its location of manufacturing operations. However, the Company interacts with the local & small producers at regular intervals on the business and quality requirements. Assured volumes instils confidence in them to supply quality products by adopting sustainable and safe practices. The Company from time to time provides training and guidance on optimum use of resources, thereby saving cost and time. This has resulted in the small producers manufacturing products which are benchmarks in quality, thereby gaining an edge over the market.

5. Does the Company have a mechanism to recycle products and waste? If yes what is the percentage of recycling of products and waste (separately as <5%, 5-10%, >10%)?

Duly recognising that over-consumption results in unsustainable exploitation of the planet's resources, the business units in the Company are committed to promoting sustainable consumption, including recycling of resources.

Business Responsibility Report

The Company has sustainable processes in place to recycle the products and waste, post completion of the manufacturing life cycle.

The Company has an integrated value cycle mapping process. For example: the setters (a process consumable) used in the Ceramic plant(s) is post usage sent to the Refractory plant(s) for use in Castable manufacture.

All process wastes of the Coated Abrasive plant(s) are treated and the recovered Grains are used in Refractory manufacture. The treated main waste is in the form of skeleton waste from jumbos. More than 50% of the gross loss from this waste is recovered in the form of marketable products. Further, the loss of grains in green form is completely recovered.

The Industrial Ceramics Division has created an in-house facility for making wooden pallets from scrap wood instead of fresh procurement of wood thus leading to saving in consumption of plywood and timber.

In the Electrominerals Division, the byproducts/semi-converted materials of major products is being recycled completely.

Principle 3: Businesses should promote the well-being of all employees.

Any organisation is as good as the people who work for it. The trusting and caring ecosystem allows the Company to nurture a workforce that works passionately in tandem with its core values.

The Company is committed to providing equal opportunities both at the time of recruitment as well as during the course of employment irrespective of caste, creed, gender, race, religion, disability etc. The Company strives to keep the workplace environment safe, hygienic, humane, upholding the dignity of the employees including conducting trainings and sending suitable communications on regular basis. The Company's strategic pillars for capability talent development, propelling performance and other dedicated HR initiatives continue to facilitate constant upgradation of the skill and competency of the employees.

CUMind, a customised innovation framework was launched last year enabling entrepreneurial minds to conceive, design and deliver new products, businesses, processes etc. to ensure the operations remain relevant and sustainable.

To enhance technical know-how, sponsorship support is extended in Bachelors/Masters programmes in technology. The dedicated learning and development programmes enhance the right skill sets and relevant knowledge to employees to achieve operational and futuristic benefits. The learning solutions are designed as per the training need analysis. Proactive steps and structured problem solving mechanisms with focus on people issues and periodical communication on business related issues ensure cordial industrial relations.

Providing and maintaining a safe and hygiene working environment is a continuous process at CUMI. Periodic awareness sessions, training on usage of protective equipments, identifying and eliminating unsafe conditions are given top priority. Most of our plants are

BS-OHSAS 18001-2007 certified for occupational health and safety management systems. The Company continues its commitment to employ and empower women and its initiatives such as friendly work place policies for women, policy for prevention of sexual harassment, redressal mechanism in the form of Internal Complaints Committee, women welfare Committees etc. augurs well.

- Total number of employees:** The number of employees as on 31st March 2018 (including Non-Management staff) was 2071.
- Total number of employees hired on temporary/ contractual/ casual basis:** 2830
- Number of permanent women employees:** 73
- Number of permanent employees with disabilities:** 7
- Do you have an employee association that is recognized by Management?**

Yes. There are recognised trade unions affiliated to various trade union bodies.

- What percentage of your permanent employees are members of this recognised employee association?**
About 55 per cent of the employees are members of recognized employee associations.
- Number of complaints relating to child labour, forced labour, involuntary labour, sexual harassment in the last financial year and pending, as on the end of the financial year.**

No.	Category	No. of complaints filed during the financial year	No. of complaint pending as on end of financial year
1.	Child labour/forced labour/involuntary labour	Nil	Nil
2.	Sexual harassment	Nil	Nil
3.	Discriminatory employment	Nil	Nil

- What percentage of your under mentioned employees were given safety & skill up-gradation training in the last year?**

No.	Category of employees	Safety Training	Skill upgradation
1.	Permanent Employees	94%	94%
2.	Permanent Women Employees	100%	85%
3.	Casual/Temporary/Contractual Employees	90%	72%
4.	Employees with Disabilities	100%	70%

Principle 4: Businesses should respect the interests of, and be responsive towards all stakeholders, especially those who are disadvantaged, vulnerable and marginalised

- Has the Company mapped its internal and external stakeholders?**

Yes. The Company has identified its internal and external stakeholders.

Business Responsibility Report

2. Out of the above, has the Company identified the disadvantaged, vulnerable & marginalised stakeholders?

The Company's Corporate Social Responsibility (CSR) policy drives the initiatives undertaken by the Company towards the benefit of the disadvantaged, vulnerable and marginalised stakeholders. The systems and process in place to systematically identify stakeholders and for understanding their concerns and for engaging with them is reviewed from time to time. The feedback mechanism available for shareholders and customers to assess the services levels and other complaints follows the spirit laid down herein.

3. Are there any special initiatives taken by the Company to engage with the disadvantaged, vulnerable and marginalised stakeholders?

The Company on a periodical basis undertakes dedicated activities as a part of its CSR initiatives for the disadvantaged, vulnerable and marginalised stakeholders in and around the Company's factories/plants. Education, sports and health aids are provided to schools in rural/under-developed areas and to schools supporting differently abled children. The Company acknowledges the importance of skill development in this competitive environment and has set up the CUMI Centre for Skill Development (CCSD) with the motto of 'Honing Skills Helping Life' at Hosur & Cochin and plans to gradually replicate this model to its other locations. The CCSD has been set up to build a skill bank of a technically competent and industry ready work force by providing specialised training based on National Council Vocational Training syllabus for the rural youth drawn from socially and economically backward sections of the society. The Company also pursues other local community assistance programmes in and around its plant and office locations.

Principle 5: Businesses should respect and promote human rights.

1. Does the policy of the Company on human rights cover only the Company or extend to the group/joint ventures/ suppliers/ contractors/NGOs/others?

The Company's policy on human rights is imbibed in its values represented in the Five Lights guiding the Company, its group companies and their employees across all spheres. The alignment with this value system is expected out of any person dealing with the Company.

2. How many stakeholder complaints have been received in the past financial year and what per cent was satisfactorily resolved by the Management? Nil under this principle.

Principle 6: Business should respect, protect, and make efforts to restore the environment.

1. Does the policy related to Principle 6 cover only the Company or extends to the group/joint ventures/ suppliers/contractors/ NGOs/others?

Safeguarding and protecting the environment is a shared value of the Company and its subsidiaries, joint ventures and associates.

However, these companies have their own Safety, Health and Environment policies depending on the nature of their business and the local regulatory requirements. The Company's suppliers and contractors would be governed by their respective policies. The Company exercises due diligence in the selection of suppliers/ contractors/others who are aligned with its value system.

2. Does the Company have strategies/ initiatives to address global environmental issues such as climate change, global warming, etc.?

Being in the manufacturing business, the Company has mechanisms in place to ensure compliance with the applicable environmental laws. The Company is committed to be an environment friendly organisation and has a dedicated Environmental Policy across all its business units. The Company is an active player in practising initiatives to address environmental issues and ensuring sustainable development. Almost all the locations of the Company have received the ISO 14001 certificate for their Environment Management Systems and ISO 9001 for Quality Management Systems. Most of the plants are seen as Model Plants with Zero Discharge and Zero Emission. Further, the Risk Management framework covering the Environmental risks is reviewed on a periodical basis and the steps that are required to be taken for mitigating the related risks are analysed and implemented.

The Company also recognises the significance of a greener belt by virtue of which a number of saplings are planted on a yearly basis to reduce the carbon footprint.

3. Does the Company identify and assess potential environmental risks?

Yes. Identification of potential environmental risks and the mitigation plan thereon is a continuous process. A report of the same is also placed before the Risk Management Committee of the Board of Directors on a periodical basis. Further, the Company also ensures that the effluent/ emissions are within the permissible limits as prescribed by the statutory authorities.

4. Does the Company have any project related to Clean Development Mechanism?

No, the Company has not undertaken any specific project related to the Clean Development Mechanism as per the Kyoto Protocol. However, all the manufacturing locations of the Company are certified ISO 14001 (Environment Management System), QMS - ISO 9001 (Quality Management System), OHSAS - 18001. Most of the plants are also certified with the EnMS ISO 5001:2011.

5. Has the Company undertaken any other initiatives on - clean technology, energy efficiency, renewable energy, etc.?

The Company utilises its resources in an optimal and responsible manner ensuring sustainability through reduction, re-use, re-cycling and managing waste. Appropriate measures to check and prevent pollution are undertaken and wherever required assessment of environmental consequences, if any, is taken up with due regard to public interest. Equitable sharing of access and commercialization

Business Responsibility Report

of biological and other natural resources and associated traditional knowledge is encouraged. The Company seeks to improve its environmental performance by adopting cleaner production methods, promotion of energy efficient and environmental friendly technologies. Suitable processes and systems are developed with contingency plans and processes that help in preventing, mitigating and controlling environmental damages caused due to the Company's operations.

The Company partners with global leaders in the space of Solar (photovoltaic) energy, Clean coal, SOFC (solid oxide fuel cells), windmills and VLBS (Very large scale Battery storage). We co-create products for these companies/ industries. Finer details on product/ solutions cannot be provided due to contractual obligations.

For more details on the energy conservation initiatives - please refer Annexure C of the Directors' report for the FY 2017-18.

6. Are the emissions/waste generated by the Company within the permissible limits given by CPCB/SPCB for the financial year being reported?

Yes, the Company being in manufacturing business, at all times ensures compliance with the applicable environmental laws. The Environment Policy of the Company and the ISO-14001 certification of its facilities reiterates its commitment to be an environment friendly organization setting standards in environment management.

7. Number of show cause/legal notices received from CPCB/SPCB which are pending (i.e. not resolved to satisfaction) as on end of financial year: Nil

Principle 7: Businesses, when engaged in influencing public and regulatory policy, should do so in a responsible manner.

1. Is your Company a member of any trade and chamber or association? Yes

- Confederation of Indian Industry
- Indian Ceramic Society
- Indian Refractory Manufacturers Association
- Kerala High Tension and Extra High Tension Industrial Electricity Consumers' Association
- Kerala Management Association
- MMA
- Employers Federation of India
- South India Chamber of Commerce
- SIGMA - Europe
- Lucideon in UK

2. Have you advocated/lobbied through above associations for the advancement or improvement of public good?

The Company is not actively involved in lobbying. However, as a responsible corporate citizen, the Company as a part of industry associations/chambers makes recommendations/ representations before regulators and associations for advancement and improvement of the industrial climate in India. The Company also

represents its views/opinions on energy security & management, water, food security and sustainable business principles through various forums.

Principle 8: Businesses should support inclusive growth and equitable development.

1. Does the Company have specified programmes/ initiatives/ projects in pursuit of the policy related to Principle 8?

The Company upholds the Murugappa Group's tradition by earmarking a part of its income for carrying out its social responsibilities, even before the mandatory CSR provisions under the Companies Act, 2013 were notified. The Company believes that social responsibility is not just a corporate obligation that has to be carried out but it is one's dharma. Therefore, our philanthropic endeavours are a reflection of our spiritual conscience and this provides us a way to discharge our responsibilities to the various sections of the society.

The CSR Committee, constituted for implementation of the well-defined CSR policy laid out by the Company, reviews the spend to be made and the projects for which such funds need to be allocated. The CSR policy highlights the responsibility statement of the Company towards CSR, the principles guiding the initiative, the manner of implementation and the reporting thereof. Skill Development, education and health care are the priority focus areas for the CSR initiatives of the Company.

The Company set up the CUMI Centre for Skill Development (CCSD) in year 2012 at Hosur, to build a skill bank of a technically competent and industry ready work force. During the year 2015-16, the Company replicated this model in Edapally, Cochin. The Centre provides specialised training based on National Council Vocational Training syllabus for the rural youth drawn from socially and underprivileged sections of the society. The three year training is imparted with a stipendiary payment and free boarding facilities, thus enabling the enrolled students to earn while they learn. The job oriented skill training enhances their employability and aids in uplifting their socioeconomic status. The technically trained students can be employed by any industrial entity once they complete the training programme. Running its 5th year of operation, the CUMI Centre for Skill Development (CCSD) believes in providing the right environment to candidates who emerge from deprived backgrounds and hone their skills to meet the future skill challenges of the world and not just for organisational purposes. Strategically located at Hosur (as well as in Cochin) connecting the borders of Karnataka, Tamil Nadu and Andhra Pradesh, the centre aims at attracting a diverse population also focusing specially on girl children as a healthy mix in each batch of students. During the year 2017-18, 34 new students were inducted into CCSD.

A portion of the CSR spend is also allocated for projects in the field of education/healthcare through implementing agency. The Company makes contributions to the Vellayan Chettiar Higher Secondary School (VCHSS), Tiruvottiyur, which has been making a difference in the field of education for the past 50 years. Tiruvottiyur being an area dominated by the fisher folk, most of the students

Business Responsibility Report

in VCHSS belong to this community. With about 3000 students, this Government aided school provides quality education to the marginalised. The school runs with the vision - To provide Quality Education with good virtues, for the under privileged. The school caters to the students from the marginalised communities around Tiruvottiyur. The educational qualification of the parents is maximum limited to schooling. Most families also face socioeconomic difficulties due to problems like alcoholism resulting in health issues, desertion by families etc. More than 250 students from the school receive educational assistance through the Touch a life scheme. Almost all the students benefiting from this scheme belong to single parent family. With the amounts funded through CSR, this school is now equipped with laboratories for Physics, Chemistry, Botany, Microbiology & Zoology, a Computer Centre and a General Science Lab for high school and middle school sections to facilitate experiential learning among the students. With an objective to provide the less privileged students adequate facilities for excelling in sports such as athletics/football, the Company through AMM Foundation is developing a playground for the students of VCHSS in addition to meeting the running expenditure of the School.

2. Are the programmes/projects undertaken through in-house team/own foundation/external NGO/government structures/ any other organization?

The Corporate Social Responsibility initiatives of the Company are implemented through an in-house team as well as through implementing agency - AMM Foundation which is an autonomous charitable trust.

3. Have you done any impact assessment of your initiative?

Replicating the CCSD model of Hosur in Cochin is a result of the impact assessment conducted by the Company. The additional CSR initiative during the year in the form of playground for the school is resultant of the impact assessment undertaken in that area.

4. What is your Company's direct contribution to community development projects?

Please refer the CSR report in Annexure A of the Directors' report for the FY 2017-18 for complete details on the spend made by the Company during the financial year ended 31st March 2018.

5. Have you taken steps to ensure that this community development initiative is successfully adopted by the community?

The Company's dedicated CCSD team operating at Hosur and Cochin constantly engages with the NGO's, residential associations etc. in and around the factories to understand and identify the deserving candidates from various backgrounds. Further, the students enrolled with CCSD along with their parents meet the executives of the centre on a monthly basis along with the residential association representatives and discuss on the positives that have been achieved through the programme. A two way flow of feedback - one from the Centre regarding the student's performance and another from the parent's end ensures that the student's development is taken utmost care of. Further, the representatives of the self-help groups, who also participate in the meeting, give their opinion on any other development programmes that can be initiated for the betterment of

the students. The students enrolled at the centre are also highlighted the importance of being a responsible citizen; they regulate traffic at important junctions, initiate 5S, Cleanliness Drives from their hostel rooms to external environment. The confidence and the professional conduct shown by the students is an acknowledgement to the Company of its successful implementation of the CCSD initiative.

The indirect programmes for assisting communities in and around plant locations has also positively impacted & influenced those in the nearby communities.

Principle 9: Businesses should engage with and provide value to their customers and consumers in a responsible manner.

1. What percentage of customer complaints/consumer cases are pending as on the end of financial year?

The total number of customer complaints across all businesses which were pending at the end of the year constitutes less than 5 per cent which have been subsequently resolved.

2. Does the Company display product information on the product label, over and above what is mandated as per local laws?

Yes. Wherever relevant, the Company encourages that its packaging/labelling contain detailed information regarding safe handling, storage and use, which is over and above what is mandated as per local laws.

3. Is there any case filed by any stakeholder against the Company regarding unfair trade practices, irresponsible advertising and/or anti-competitive behaviour during the last five years and pending as on end of financial year: None

4. Did your Company carry out any consumer survey/consumer satisfaction trends?

Yes. The Company on a periodical basis conducts various consumer survey/satisfaction trends. The Company put its customers at the fulcrum of its business strategy. The Company understands their requirements and provides them holistic solutions rather than merely supplying materials.

The Company collaborates meaningfully with its customers for co-creating sustainable products and solutions. Dedicated customer/dealer meetings, customer plant visits, transparent and compliant product labelling ensures awareness creation for the product usage and safe disposal. Customer visits are not necessarily confined to their product needs but also extends to sharing of best practices like TQM, TPM etc. It is also worthy to note that a significant portion of the Company's business pertains to offering customised products. Hence, customer's requirements rank very high to the Company.

The Business Responsibility Policy of the Company governing its business sustainability efforts is available on the Company's website www.cumi-murugappa.com.

Chennai
May 4, 2018

On behalf of the Board
M M Murugappan
Chairman

ANNEXURE C

I. ENERGY CONSERVATION

All business divisions of the Company pursued energy conservation efforts relentlessly during the year. The energy conservation measures undertaken during the year were in the nature of identifying and optimising the power consumption in various power intensive equipments, modifying the manufacturing process, replacing with efficient energy conserving equipments, enhancing cycle time and sourcing of alternate fuels.

Dust collectors, fans and other consumer appliances were replaced with energy efficient products. LED lightings and boiler flue gas excess air control were installed. Material lifts were modernised. Installation of variable frequency drive for kilns, circulation fans, hot air blowers, induction lamp were some of the activities that were carried out towards conservation of energy.

Graphite electrode, which is used as a consumable in electric arc fusion process, has seen a sharp rise in its prices during the year. In order to mitigate this significant cost push arising out of galloping graphite electrode price, the Company successfully established a new fusion process, which enabled substantially lesser consumption of graphite electrode coupled with reduction in power consumption.

The above energy saving measures implemented across divisions considerably benefitted the Company. Further, energy savings was achieved by prudent sourcing of power from exchanges.

During the year ended 31st March 2018, a capital investment of around ₹26 million was made on energy conservation equipments across the various SBUs.

II. TECHNOLOGY ABSORPTION

Efforts made towards technology absorption, adaptation and innovation

In line with the overall divisional strategy, development of high performance, innovative and exciting products was the main focus during the year 2017-18.

Joint programs with various vendors and other divisions were initiated to improve capability and costs. New resins, new vitrified bond systems, grinding aids and new processes were used to develop a range of high performance products that offered growth in respective product groups. Key new Bonded Abrasives products launched in the market were Micro grit grinding wheels, improved Ball Lapping wheels, Gear grinding wheels, Ceramic grain based thread, Flute grinding wheels and F-type wheels. In the Coated Abrasives range high-performance Zirconia Belts were developed. These products were successfully established in Indian Market and in specific global markets. The business worked on developing solutions for auto-after, car door frame and Crank and Cam grinding applications with a focus on creating a full basket of products for its distributors and end users. Light weight grinding wheels with resilient core that would draw lesser power were established as a concept.

The Ceramics business worked on a collaborative research for Tape casting process and Metallization process on Alumina substrates.

Electromineral division focussed on developing cost effective process for monoclinic zirconia and sintered mulite, establishing ready to press powders and developing high performance low cost product Z450.

Benefits derived as a result of the above efforts:

The Company could establish improved range of Coated Abrasives products and Resin bonded grinding wheels with hi performance binders. High performance range of Non-woven products were introduced. New range of low temperature fired Vitrified wheels for precision grinding were presented to target markets.

The Refractory business could establish cutting edge products for Ceramics, Iron and Steel and Carbon Black industry. The industrial ceramics vertical could successfully launch Zirconia based Ceramic product for various markets. Electromineral business could develop raw material security for value added products, identify and develop market for co-generated by-product and create value in the by-products.

Imported technology:

No new technology was imported during the year. The details of the technology imported in the last three years reckoned from the start of FY 2017-18 are:

Technology imported	Roll Grinding wheel
Year of import	2014-15
Has technology been fully absorbed	Yes
If not fully absorbed, areas where this has not taken place, reasons thereof and future plans of action	-

III. EXPENDITURE ON RESEARCH AND DEVELOPMENT

The Company has set up several DSIR (Department of Science and Industrial Research) approved Research and Development (R&D) centres at all its divisions. Across the CUMI group of companies, there was continuous focus on technology innovations including creation of several IPs in form of patent/design/trademark registrations, peer review paper presentations in international forums and journals. The Company was instrumental in generating over 45 IPs in form of patent/design/trademark registrations during the year.

R&D efforts during the year continued to focus on new product/applications development. The Abrasives business was able to successfully establish products for aerospace industry. Range of Coated products and Resin Bonded Grinding wheels were expanded with Hi-performance binders. Range of Non-Woven products with improved structure and stable dimensions were successfully launched. R&D activities were also carried out in Refractory division for Iron and Steel, Cement, Foundry and Petrochemical industries. Electrominerals division worked towards development of own raw material in line with the backward integration strategy, imparting surface modification properties in specific applications like Coated and Bonded Abrasives. R&D centres continued to work for the future products to address the changing business environment - Light weighing, surface conditioning, combination backings etc.

EXPENDITURE ON R & D

Description	2017-18
Capital including CWIP	26.56
Recurring	131.76
Total - A	158.32
Sales - B (excluding excise duty)	15513.76
Total expenditure as a percentage of Sales	1.02%

Chennai
May 4, 2018

IV. FOREIGN EXCHANGE EARNINGS AND OUTGO

Particulars	2016-17	2017-18
Foreign Exchange Earnings	3140	3571
Foreign Exchange Outgo		
- Revenue	2960	3427
- Capital	425	141

On behalf of the Board
M M Murugappan
Chairman

ANNEXURE D

STATEMENT OF EMPLOYEES' REMUNERATION

I. The details of top ten employees in terms of remuneration drawn during the financial year 2017-18 as per Rule 5(2) of the Companies (Appointment and Remuneration of Managerial Personnel) Rules, 2014 duly amended by the Companies (Appointment and Remuneration of Managerial Personnel) Amendment Rules, 2016 are as follows:

Name and Age	Designation/Nature of duties	Gross remuneration paid (₹)	Qualification & experience (years)	Date of commencement of employment	Previous employment
1	2	3	4	5	6
Srinivasan K (60)	Managing Director	22,226,368	B Tech (Mech) (38)	30.01.2002	Vice President - Wendt (India) Limited
Ananthaseshan N (55)	President, Abrasives	11,338,615	M.Sc (Applied Science), M.Tech Material Science (32)	19.02.1986 ^(e)	-
Sridharan Rangarajan (52)	President, Corporate	10,508,421	B Com, ACA, Grad CWA (32)	22.06.2011	CFO, Indian Operations - TIMKEN
M Muthiah (58)	Executive Vice President, Human Resources	9,022,889	MA (SW) and PG Dip in Management (34)	15.10.2003	Plant HR Head-Hyundai Motor India Limited
Rajagopalan R (60)	Executive Vice President, Refractories & Prodorite	7,768,052	B E (Mech), MBA (Oubs) (38)	01.10.1980 ^(e)	-
Shyam S Rao (55)	Senior Vice President, Industrial Ceramics Division	7,032,397	B.Tech Metallurgy, MS Material Science, PhD Material Science (24)	07.05.1999	Widia India Limited
Jayan P S (58)	Executive Vice President, EMD	5,631,725	B.Sc & B.Tech (30)	30.05.1987 ^(e)	-
Srikanth C (52)	Senior Vice President, Marketing - Abrasives	5,183,682	BE Mechanical Engineering & MBA Marketing (31)	05.09.1992	Cutfast Abrasives Tools Limited
Vijayalakshmi D (52)	Senior Associate Vice President, Corporate Communications	4,518,803	B.Sc Physics (30)	21.01.2010	Ogilvy Public Relations Worldwide
Ramesh Kalyanaraman (49)	Senior Associate Vice President, Technology - Abrasives	4,421,565	M.Tech (27)	06.07.1991 ^(e)	-

Notes:

(a) Remuneration shown above includes salary, allowances, Company's contribution to provident, superannuation and gratuity funds, medical facilities and perquisites valued as per income tax rules. During the year, no Options were granted under the Employees Stock Option Scheme, 2007. However, during the year

eligible employees were granted in aggregate 70,214 Options under the Employees Stock Option Plan, 2016. The employee wise grant details are available in the disclosure under SEBI (Share Based Employee Benefits) Regulations, 2015 uploaded in the website of the Company. The Employee Stock Options granted to employees in the earlier period are accounted based on fair value as per Indian Accounting standards.

- (b) The employment of the above persons is whole-time in nature and terminable with 3 months notice on either side. Effective 18th January 2018, Mr. Sridharan Rangarajan has been deputed to Murugappa Management Services Limited.
- (c) Mr. K Srinivasan was re-appointed as the Managing Director by the Board from 23rd November 2017 till 22nd November 2019 with the approval of shareholders at the 63rd Annual General Meeting. He is subject to the service conditions of the Company.
- (d) The above mentioned employees are not relatives (in terms of the Companies Act, 2013) of any Director of the Company. Further, no employee of the Company is covered by the Rule 5(2)(iii) of the Companies (Appointment and Remuneration of Managerial Personnel) Rules, 2014 (employee holding by himself or with his family shares of 2% or more in the Company and drawing remuneration in excess of the Managing Director). Hence, the details required under Rule 5(3) (viii) is not applicable.
- (e) Date of joining as graduate engineer trainee.
- (f) The remuneration details are for the financial year 2017-18 and all other particulars are as on 31st March 2018.
- (g) None of the employees of the Company other than Mr. K Srinivasan, Managing Director, Mr. Ananthasheshan N, President - Abrasives, Mr. Sridharan Rangarajan, President - Corporate (on deputation) were in receipt of remuneration for the FY 2017-18 in excess of Rupees one crore and two lakh Rupees per year or eight lakh and fifty thousand Rupees per month.

II. The details of remuneration during the year 2017-18 as per Rule 5(1) of the Companies (Appointment and Remuneration of Managerial Personnel) Rules, 2014 as amended by the Companies (Appointment and Remuneration of Managerial Personnel) Amendment Rules, 2016 as are as follows:

- (i) Ratio of remuneration of each Director to the median remuneration of the employees of the Company for the financial year:

Name	Designation	Ratio
Mr. M M Murugappan	Chairman	21.15
Mr. T L Palani Kumar	Independent Director	2.22
Mr. Sanjay Jayavarthanavelu	Independent Director	1.95
Mr. Aroon Raman	Independent Director	1.97
Mrs. Bharati Rao	Independent Director	1.92
Mr. M A M Arunachalam	Non-Executive Director	1.96
Mr. P S Raghavan*	Independent Director	1.74
Mr. Sujjain S Talwar*	Independent Director	1.91
Mr. K Srinivasan	Managing Director	46.05

* Appointed as an Independent Director w.e.f. 9th May 2017.

- (ii) Percentage increase in the remuneration of each Director, Chief Executive Officer, Chief Financial Officer, Company Secretary in the financial year:

Name	Designation	Increase (%)
Mr. M M Murugappan	Chairman	0.25
Mr. T L Palani Kumar	Independent Director	0.94
Mr. Aroon Raman	Independent Director	9.83
Mr. Sanjay Jayavarthanavelu	Independent Director	(1.05)
Mrs. Bharati Rao	Independent Director	(2.63)
Mr. M A M Arunachalam**	Non-Executive Director	NA
Mr. P S Raghavan*	Independent Director	NA
Mr. Sujjain S Talwar*	Independent Director	NA
Mr. K Srinivasan	Managing Director	11.94
Ms. Rekha Surendhiran	Company Secretary	14.07

*Joined the Board during 2017-18, hence not comparable.

**Joined the Board during 2016-17, hence not comparable.

#Mr. Sridharan Rangarajan ceased to be the Chief Financial Officer effective closing hours of 17th January 2018.

Notes:

- The decrease in the remuneration of the Non-Executive Directors was mainly on account of the number of Board meetings attended by them during the year. The increase in Director's remuneration is also related to the re-constitution of several Board Committees during the year consequent to the change in Board composition resulting in increase in sitting fee received by them for attending meetings of the Committees in which they were inducted.
 - Mr. K Srinivasan's remuneration for the year 2017-18 includes an un-availed LTA component of FY 2015-16 received during the year which has been appropriately factored in while computing the increase % above.
 - Ms. Rekha Surendhiran's remuneration for the FY 2017-18 has been adjusted appropriately for the un-availed LTA component pertaining to the previous year. This has been factored in while computing the increase % above.
- (iii) Percentage increase in the median remuneration of employees in the financial year: 2.82 per cent (employees who were in employment for the whole of FY 2016-17 & whole of FY 2017-18 considered for this purpose in the respective financial years).
- (iv) Number of permanent employees on the rolls of the Company as on 31st March 2018: 2071
- (v) The average percentile increase already made in the salaries of employees other than the managerial personnel in the last financial year is 9.63 per cent and the average percentage increase in the managerial remuneration is 9.51 per cent (employees/Directors who were in employment for whole of FY 2016-17 as well as whole of FY 2017-18 considered for this purpose).

The decrease in remuneration of the Non-Executive Directors was mainly on account of the number of Board meetings attended by them during the year. The increase in Director's remuneration is also related to the re-constitution of several Board Committees during the year consequent to the change in Board composition resulting in increase in sitting fee received by them for attending meetings of the Committees in which they were inducted.

Annual increase in employees remuneration is based on Company and individual performance. The individual performance parameters varies based on employee cadres. For management cadre employees, the performance is based on parameters such as financial performance, customer perspective, internal process improvements and learning & development. For non-management cadre and others, the performance is based on operational performance of SBUs/locations/ branches and long term settlements. This also applies to the Managing Director.

The Managerial remuneration is subject to regulatory ceiling limits. Other than Managing Director, the remuneration of Directors comprises only sitting fees and commission.

There are no exceptional circumstances for increase in managerial remuneration.

- (vi) Affirmation that the remuneration is as per the Remuneration policy of the Company: The Company affirms that the remuneration is in compliance with its Remuneration policy.

On behalf of the Board
M M Murugappan
 Chairman

Chennai
 May 4, 2018

ANNEXURE E

Extract of Annual Return

Form No. MGT-9
EXTRACT OF ANNUAL RETURN
as at the financial year ended on 31st March 2018

[Pursuant to section 92(3) of the Companies Act, 2013 and rule 12(1) of the Companies (Management and Administration) Rules, 2014]

I. REGISTRATION AND OTHER DETAILS

i) Corporate Identification Number	L29224TN1954PLC000318
ii) Registration Date	21.04.1954
iii) Name of the Company	Carborundum Universal Limited
iv) Category/Sub-Category of the Company	Company Limited by Shares/Indian Non-government Company
v) Address of the Registered office and contact details	'Parry House', 43, Moore Street, Chennai - 600001 Tel: +91-44-30006161 Fax: +91-44-30006149 e-mail: investorservices@cumi.murugappa.com
vi) Whether listed company Yes / No	Yes
vii) Name, Address and Contact details of Registrar and Transfer Agent	Karvy Computershare Private Limited Unit: Carborundum Universal Limited Karvy Selenium Tower B, Plot 31-32, Gachibowli, Financial District, Nanakramguda, Hyderabad 500032 Tel: +91-40-67162222 Fax: +91-40-23420814 e-mail: einward.ris@karvy.com

II. PRINCIPAL BUSINESS ACTIVITIES OF THE COMPANY

All the business activities contributing 10% or more of the total turnover of the Company shall be stated:

Sl. No.	Name and Description of main products/services	NIC Code of the Product/service	% to total turnover of the Company*
1	Abrasives	23993	54.70
2	Ceramics	23939	25.54
3	Electrominerals	00729	19.76

*Does not include inter-segment sales

Extract of Annual Return

III. PARTICULARS OF HOLDING, SUBSIDIARY AND ASSOCIATE COMPANIES

Sl. No.	Name and address of the Company	CIN	Holding/ Subsidiary/ Associate	% of Shares held	Applicable Section
Direct holding					
1	Net Access India Limited 'Parry House', VI Floor, 43 Moore Street, Chennai - 600 001	U74999TN1997PLC039545	Subsidiary	100.00	2(87)(ii)
2	Southern Energy Development Corporation Limited 'Parry House', 43 Moore Street, Chennai - 600 001	U40100TN1985PLC012425	Subsidiary	84.76	2(87)(ii)
3	Sterling Abrasives Limited Plot No 45/46 G I D C Industrial Estate, Odhva Road Ahmedabad - 382 415	U29259GJ1979PLC003467	Subsidiary	60.00	2(87)(ii)
4	CUMI International Limited 284 Arch. Makarou III Ave. Fortuna Court, 2 nd Floor, 3105 Limassol Cyprus	Company Incorporated outside India	Subsidiary	100.00	2(87)(ii)
5	CUMI (Australia) Pty Limited Level 1, 56 Hudson Street, Hamilton NSW 2303	Company Incorporated outside India	Subsidiary	51.22	2(87)(ii)
Holding through CUMI International Limited (a wholly owned subsidiary)					
6	Volzhsky Abrasives Works 404130 Volzhsky, Volgograd Region, 6 th Avtodoroga, 18 Russia	Company Incorporated outside India	Subsidiary	98.07	2(87)(ii)
7	Foskor Zirconia (Pty) Limited PO Box.1, Phalaborwa, South Africa, 1390	Company Incorporated outside India	Subsidiary	51.00	2(87)(ii)
8	CUMI America Inc 7310 Turfway Road, Ste 550, Florence Kentucky 41042 USA	Company Incorporated outside India	Subsidiary	100.00	2(87)(ii)
9	CUMI Middle East FZE No. 315, BC - 3 PO Box. 16190, RAK FZE Trade Zone, Ras Al Khaimah, United Arab Emirates	Company Incorporated outside India	Subsidiary	100.00	2(87)(ii)
10	CUMI Abrasives & Ceramics Company Limited East of Donghuan Road, Yanjiao Development Zone, Sanhe City, Hebei Province, P.R., China, 065201	Company Incorporated outside India	Subsidiary	100.00	2(87)(ii)
11	Thukela Refractories Isithebe Pty Ltd. No.1 Yellow Street, Isithebe, South Africa	Company Incorporated outside India	Subsidiary	100.00	2(87)(ii)
12	CUMI Europe s.r.o Bucharova 2657/12 bld c 158000 Prague, Czech Republic	Company Incorporated outside India	Subsidiary	100.00	2(87)(ii)
Joint Ventures					
13	Murugappa Morgan Thermal Ceramics Limited PB NO 1570, Dare House Complex 5 th Floor Extn 2, NSC Bose Road, Chennai - 600 001	U26919TN1982PLC009622	Associate/ Joint Venture	49.00	2(6)
14	Ciria India Limited P-11 Pandav Nagar, Mayur Vihar Phase-1 New Delhi - 110 091	U74899DL1997PLC091417	Associate/ Joint Venture	30.00	2(6)
15	Wendt (India) Limited 105, 1 st Floor, Cauvery Block, National Games Housing Complex, Koramangala, Bangalore - 560 047	L85110KA1980PLC003913	Associate/ Joint Venture	39.87	2(6)

Extract of Annual Return

IV. SHAREHOLDING PATTERN (Equity share capital breakup as percentage of total equity)

i) Category-wise shareholding

Sl. No	Category of Shareholders	No. of Shares held at the beginning of the year (1 st April 2017)				No. of Shares held at the end of the year (31 st March 2018)				% Change during the year
		Demat	Physical	Total	% of Total Shares	Demat	Physical	Total	% of Total Shares	
A. Promoters										
(1) Indian										
a)	Individual/HUF	7,544,438	-	7,544,438	4.00	7,260,318	-	7,260,318	3.84	(0.16)
b)	Central/State Govt(s)	-	-	-	-	-	-	-	-	-
c)	Bodies Corporate	58,946,944	-	58,946,944	31.25	56,446,944	-	56,446,944	29.87	(1.37)
d)	Banks/FI	-	-	-	-	-	-	-	-	-
	Sub-total (A)(1)	66,491,382	-	66,491,382	35.25	63,707,262	-	63,707,262	33.72	(1.53)
(2) Foreign (A)(2)										
a) NRIs -										
	Individuals	289,600		289,600	0.15	-	-	-	-	(0.15)
b) Others -										
	Individuals	-	-	-	-	-	-	-	-	-
c)	Bodies Corporate	-	-	-	-	-	-	-	-	-
d)	Banks/FI	-	-	-	-	-	-	-	-	-
	Sub-total (A)(2)	289,600	-	289,600	0.15	-	-	-	-	(0.15)
	Total shareholding of Promoter (A) = (A)(1)+(A)(2)	66,780,982	-	66,780,982	35.40	63,707,262	-	63,707,262	33.72	(1.68)
AA. Promoter Group										
	Individuals/HUF (AA)(1)	6,482,904	-	6,482,904	3.44	6,507,004	-	6,507,004	3.44	0.01
	Bodies Corporate/ others (AA)(2)	9,287,320	-	9,287,320	4.92	9,936,920	-	9,936,920	5.26	0.34
	Total shareholding of Promoter Group (AA)=(AA)(1)+(AA)(2)	15,770,224	-	15,770,224	8.36	16,443,924	-	16,443,924	8.70	0.34
	Total shareholding of Promoter & Promoter Group (A)+(AA)	82,551,206	-	82,551,206	43.76	80,151,186	-	80,151,186	42.42	(1.34)

Extract of Annual Return

Sl. No	Category of Shareholders	No. of Shares held at the beginning of the year (1 st April 2017)				No. of Shares held at the end of the year (31 st March 2018)				% Change during the year
		Demat	Physical	Total	% of Total Shares	Demat	Physical	Total	% of Total Shares	
B. Public Shareholding										
(1) Institutions										
a)	Mutual Funds	32,701,316	-	32,701,316	17.33	39,639,657	-	39,639,657	20.98	3.64
b)	Banks/FI	363,845	-	363,845	0.19	160,183	-	160,183	0.08	(0.11)
c)	Central/State Govt(s)	-	-	-	-	-	-	-	-	-
d)	Venture Capital Funds	-	-	-	-	-	-	-	-	-
e)	Insurance Companies	5,387,570	-	5,387,570	2.86	4,799,098	-	4,799,098	2.54	(0.32)
f)	FIs	10,070,343	3,000	10,073,343	5.34	8,730,708	3,000	8,733,708	4.62	(0.72)
g)	Foreign Venture Capital Funds	-	-	-	-	-	-	-	-	-
	Sub-total (B)(1)	48,523,074	3,000	48,526,074	25.72	53,329,646	3,000	53,332,646	28.22	2.50
(2) Non-Institutions										
a) Bodies Corporate										
i)	Indian	13,234,396	143,110	13,377,506	7.09	11,729,118	141,090	11,870,208	6.28	(0.81)
ii)	Overseas	-	-	-	-	-	-	-	-	-
b) Individuals										
i)	Shareholders holding nominal share capital upto ₹1 lakh	25,687,308	3,012,195	28,699,503	15.21	26,449,040	2,607,071	29,056,111	15.38	0.16
ii)	Individual shareholders holding nominal share capital in excess of ₹1 lakh	12,042,857	140,460	12,183,317	6.46	10,432,254	140,460	10,572,714	5.60	(0.86)
c) Others										
i)	Clearing members	86,294	-	86,294	0.05	76,606	-	76,606	0.04	(0.01)
ii)	NRI	3,164,245	31,260	3,195,505	1.69	3,085,265	31,260	3,116,525	1.65	(0.04)
iii)	Trusts	24,485	-	24,485	0.01	21,910	-	21,910	0.01	(0.00)
iv)	NBFCs Registered with RBI	14,200	-	14,200	0.01	241,950	-	241,950	0.13	0.12
v)	Investor Education and Protection Fund Authority	-	-	-	-	515,895	-	515,895	0.27	0.27
	Sub-total (B)(2)	54,253,785	3,327,025	57,580,810	30.52	52,552,038	2,919,881	55,471,919	29.36	(1.16)
	Total Public Shareholding (B)=(B)(1)+(B)(2)	102,776,859	3,330,025	106,106,884	56.24	105,881,684	2,922,881	108,804,565	57.58	1.34
C. Shares held by Custodian for GDRs & ADRs		-	-	-	-	-	-	-	-	-
Grand Total (A+B+C)		185,328,065	3,330,025	188,658,090	100.00	186,032,870	2,922,881	188,955,751	100.00	NA

*Decrease in shareholding % of promoter/promoter group holding includes increase in share capital arising on account of allotment of equity shares to employees who have exercised their options during the year under the Company's ESOP Scheme 2007 and ESOP Plan 2016.

Extract of Annual Return

(ii) Shareholding of Promoters

Sl No.	Shareholder's Name	Shareholding at the beginning of the year			Shareholding at the end of the year			% Change in shareholding during the year
		No. of shares	% of total shares of the Company	% of shares Pledged / encumbered to total shares	No. of shares	% of total shares of the Company	% of shares Pledged / encumbered to total shares	
1	M V Murugappan (deceased)#	204,200	0.11	0.00	-	0.00	0.00	(0.11)
2	M V Murugappan HUF	215,600	0.11	0.00	215,600	0.11	0.00	(0.00)
3	M V Murugappan jointly M A Alagappan and M M Murugappan	480	0.00	0.00	480	0.00	0.00	(0.00)
4	M V Subbiah	514,294	0.27	0.00	514,294	0.27	0.00	(0.00)
5	M A Alagappan	1,274,400	0.68	0.00	1,274,400	0.67	0.00	(0.00)
6	A Vellayan	303,260	0.16	0.03	303,260	0.16	0.03	(0.00)
7	A Venkatachalam	598,900	0.32	0.03	598,900	0.32	0.03	(0.00)
8	M M Murugappan	696,340	0.37	0.00	985,940	0.52	0.00	0.15
9	M M Venkatachalam	449,400	0.24	0.00	524,420	0.28	0.00	0.04
10	M A M Arunachalam	1,100,600	0.58	0.03	1,100,600	0.58	0.03	(0.00)
11	S Vellayan	694,544	0.37	0.00	694,544	0.37	0.00	(0.00)
12	Arun Alagappan	471,400	0.25	0.00	471,400	0.25	0.00	(0.00)
13	V Arunachalam	183,740	0.10	0.00	183,740	0.10	0.00	(0.00)
14	V Narayanan	205,900	0.11	0.00	205,900	0.11	0.00	(0.00)
15	M M Muthiah	289,600	0.15	0.00	-	0.00	0.00	(0.15)
16	M M Veerappan	289,600	0.15	0.00	-	0.00	0.00	(0.15)
17	Arun Venkatachalam	186,840	0.10	0.00	186,840	0.10	0.00	(0.00)
18	M V Subramanian	79,920	0.04	0.00	-	0.00	0.00	(0.04)
19	M V Muthiah	75,020	0.04	0.00	-	0.00	0.00	(0.04)
20	Murugappa Holdings Limited	55,432,284	29.38	0.00	-	0.00	0.00	(29.38)
21	Ambadi Investments Limited (formerly known as Ambadi Investments Private Limited)	3,121,960	1.65	0.00	56,054,244	29.67	0.00	28.01
22	Ambadi Enterprises Limited	384,700	0.20	0.00	384,700	0.20	0.00	(0.00)
23	TI Financial Holdings Limited (formerly known as Tube Investments of India Limited)	6,000	0.00	0.00	6,000	0.00	0.00	0.00
24	E.I.D. Parry (India) Limited	2,000	0.00	0.00	2,000	0.00	0.00	0.00
25	New Ambadi Estates Private Limited	-	-	-	-	-	-	-
26	Coromandel International Limited	-	-	-	-	-	-	-
27	Murugappa & Sons (M.V. Murugappan, M.A. Alagappan and M.M. Murugappan hold shares on behalf of the Firm)	-	-	-	-	-	-	-
28	Tube Investments of India Limited (formerly known as TI Financial Holdings Limited)	-	-	-	-	-	-	-
Total		66,780,982	35.39	0.09	63,707,262	33.72	0.09	(1.68)

* The above table does not include the holdings of promoter group aggregating to 16,443,924 shares (8.7%) as at 31st March 2018.

* Decrease in shareholding % is due to increase in share capital arising on account of allotment of equity shares to employees who have exercised their Options during the year under the Company's ESOP Scheme 2007 and ESOP Plan 2016.

Shares have been transmitted to Spouse (Promoter Group).

Extract of Annual Return

(iii) Change in Promoters' Shareholding:

Sl.No.	Particulars	Shareholding at the beginning of the year		Cumulative Shareholding during the year	
		No. of shares	% of total shares of the Company	No. of shares	% of total shares of the Company
1	Aggregate holdings at the beginning of the year	6,67,80,982	35.40		
2	Transactions during the year ended 31st March 2018				
i)	Murugappa Holdings Limited				
	At the beginning of the year	5,54,32,284	29.38		
	Transactions during the year ended 31 st March 2018				
	Transfer-28/08/2017 (Transfer of shares on account of merger of Murugappa Holdings Limited with Ambadi Investments Limited formerly known as Ambadi Investments Pvt. Limited)	5,54,32,284	29.38	-	-
	At the end of the year	-	-	-	-
ii)	Ambadi Investments Limited (formerly known as Ambadi Investments Private Limited)				
	At the beginning of the year	31,21,960	1.65		
	Transactions during the year ended 31 st March 2018				
	Transfer-28/08/2017 (Transfer of shares on account of merger of Murugappa Holdings Limited with Ambadi Investments Limited formerly known as Ambadi Investments Pvt. Limited)	5,54,32,284	29.37	5,85,54,244	31.03
	Transfer-30/03/2018 (Sale)	(25,00,000)	(1.32)	5,60,54,244	29.67
	At the end of the year			5,60,54,244	29.67
iii)	Mr. M V Murugappan				
	At the beginning of the year	2,04,200	0.11		
	Transfer-31/10/2017 (Transmission of shares)	(2,04,200)	(0.11)	-	-
	At the end of the year	-	-		
iv)	Mr. M M Muthiah				
	At the beginning of the year	2,89,600	0.15		
	Transfer-27/03/2018 (transfer by way of gift)	(2,89,600)	(0.15)	-	-
	At the end of the year	-	-		
v)	Mr. M M Veerappan				
	At the beginning of the year	2,89,600	0.15		
	Transfer-27/03/2018 (transfer by way of gift)	(2,89,600)	(0.15)	-	-
	At the end of the year	-	-		
vi)	M V Muthiah				
	At the beginning of the year	75,020	0.04		
	Transfer-28/03/2018 (transfer by way of gift)	(75,020)	(0.04)	-	-
	At the end of the year	-	-		
vii)	M V Subramanian				
	At the beginning of the year	79,920	0.04		
	Transfer-28/03/2018 (transfer by way of gift)	(79,920)	(0.04)	-	-
	At the end of the year	-	-		
viii)	M M Murugappan				
	At the beginning of the year	6,96,340	0.37		
	Transfer-27/03/2018 (acquisition by way of gift)	2,89,600	0.15	9,85,940	0.52
	At the end of the year	-	-	9,85,940	0.52
ix)	M M Venkatachalam				
	At the beginning of the year	4,49,400	0.24		
	Transfer-28/03/2018 (acquisition by way of gift)	75,020	0.04	5,24,420	0.28
	At the end of the year	-	-	5,24,420	0.28
3	Aggregate holdings at the end of the year			6,37,07,262	33.72

1. There was no change in promoter's shareholding other than the details specified above.

2. Decrease in shareholding percentage includes increase in share capital arising on account of allotment of employees who have exercised their options during the year under the Company's ESOP Scheme 2007 and ESOP Plan 2016.

3. The above table does not include changes in shareholding of Promoter Group during the year.

Extract of Annual Return

(iv) Shareholding Pattern of top ten Shareholders (other than Directors & Promoters)

Sl. No.	For each of the top 10 shareholders	Shareholding at the beginning of the year		Cumulative Shareholding during the year	
		No. of shares	% of total shares of the Company	No. of shares	% of total shares of the Company
1	HDFC Trustee Company Limited (under various schemes)				
	At the beginning of the year	16,864,050	8.94		
	Transactions during the year ended 31 st March 2018				
	Transfer-05/05/2017 (Purchase)	8,300	0.00	16,872,350	8.94
	Transfer-19/05/2017(Sale)	(10,000)	(0.01)	16,862,350	8.94
	Transfer-16/06/2017(Sale)	(4,000)	(0.00)	16,858,350	8.94
	Transfer-28/07/2017(Sale)	(1,500)	(0.00)	16,856,850	8.93
	Transfer-25/08/2017(Sale)	(16,000)	(0.01)	16,840,850	8.92
	Transfer-13/10/2017 (Purchase)	500,000	0.26	17,340,850	9.18
	Transfer-13/10/2017(Sale)	(504,500)	(0.27)	16,836,350	8.92
	Transfer-27/10/2017 (Purchase)	24,000	0.01	16,860,350	8.93
	Transfer-27/10/2017(Sale)	(24,000)	(0.01)	16,836,350	8.91
	Transfer-02/02/2018(Sale)	(203,153)	(0.11)	16,633,197	8.81
	Transfer-09/02/2018(Sale)	(100,000)	(0.05)	16,533,197	8.75
	Transfer-16/02/2018(Sale)	(167,900)	(0.09)	16,365,297	8.66
	Transfer-23/02/2018(Sale)	(14,500)	(0.01)	16,350,797	8.65
	Transfer-09/03/2018 (Purchase)	867,947	0.46	17,218,744	9.11
	Transfer-09/03/2018(Sale)	(867,947)	(0.46)	16,350,797	8.65
	Transfer-16/03/2018 (Purchase)	100,000	0.05	16,450,797	8.71
	Transfer-23/03/2018 (Purchase)	423,000	0.22	16,873,797	8.93
	At the end of the year			16,873,797	8.93
2	SBI Magnum Midcap Fund/SBI Mutual Fund				
	At the beginning of the year	4,935,210	2.62		
	Transactions during the year ended 31 st March 2018				
	Transfer-16/03/2018 (Sale)	(887,907)	(0.47)	4,047,303	2.14
	At the end of the year			4,047,303	2.14
3	Smallcap World Fund, Inc				
	At the beginning of the year	4,365,000	2.31		
	Transactions during the year ended 31 st March 2018				
	At the end of the year			4,365,000	2.31
4	Amrit Petroleums Private Limited (now called Shamyak Investment Private Limited)				
	At the beginning of the year	4,000,000	2.12		
	Transactions during the year ended 31 st March 2018				
	At the end of the year			4,000,000	2.12
5	Reliance Capital Trustee Company Limited				
	At the beginning of the year	-	-		
	Transactions during the year ended 31 st March 2018				
	Transfer-05/01/2018 (Purchase)	31,034	0.02	31,034	0.02
	Transfer-12/01/2018 (Purchase)	657,966	0.35	689,000	0.36
	Transfer-19/01/2018 (Purchase)	200,000	0.11	889,000	0.47
	Transfer-02/02/2018 (Purchase)	179,441	0.09	1,068,441	0.57
	Transfer-23/03/2018 (Purchase)	16,700	0.01	1,085,141	0.57
	Transfer-30/03/2018 (Purchase)	2,020,000	1.07	3,105,141	1.64
	At the end of the year			3,105,141	1.64
6	General Insurance Corporation of India				
	At the beginning of the year	3,000,000	1.59		
	Transactions during the year ended 31 st March 2018				
	At the end of the year			3,000,000	1.59

Extract of Annual Return

Sl. No.	For each of the top 10 shareholders	Shareholding at the beginning of the year		Cumulative Shareholding during the year	
		No. of shares	% of total shares of the Company	No. of shares	% of total shares of the Company
7	L&T Mutual Fund Trustee Limited				
	At the beginning of the year	25,82,179	1.37		
	Transactions during the year ended 31 st March 2018				
	Transfer-07/04/2017 (Purchase)	20,000	0.01	26,02,179	1.38
	Transfer-14/04/2017 (Purchase)	38,200	0.02	26,40,379	1.40
	Transfer-21/04/2017 (Purchase)	27,800	0.01	26,68,179	1.41
	Transfer-05/05/2017 (Purchase)	15,300	0.01	26,83,479	1.42
	Transfer-12/05/2017 (Purchase)	2,94,300	0.16	29,77,779	1.58
	Transfer-19/05/2017 (Purchase)	39,000	0.02	30,16,779	1.60
	Transfer-26/05/2017 (Purchase)	15,000	0.01	30,31,779	1.61
	Transfer-02/06/2017 (Purchase)	80,600	0.04	31,12,379	1.65
	Transfer-09/06/2017 (Purchase)	36,700	0.02	31,49,079	1.67
	Transfer-16/06/2017 (Purchase)	38,524	0.02	31,87,603	1.69
	Transfer-23/06/2017 (Purchase)	1,19,118	0.06	33,06,721	1.75
	Transfer-30/06/2017 (Purchase)	1,42,347	0.08	34,49,068	1.83
	Transfer-07/07/2017 (Purchase)	81,635	0.04	35,30,703	1.87
	Transfer-14/07/2017 (Purchase)	41,900	0.02	35,72,603	1.89
	Transfer-21/07/2017 (Purchase)	18,517	0.01	35,91,120	1.90
	Transfer-28/07/2017 (Purchase)	5,000	0.00	35,96,120	1.91
	Transfer-11/08/2017 (Purchase)	33,628	0.02	36,29,748	1.92
	Transfer-18/08/2017 (Purchase)	81,836	0.04	37,11,584	1.97
	Transfer-25/08/2017 (Purchase)	3,85,646	0.20	40,97,230	2.17
	Transfer-01/09/2017 (Purchase)	35,000	0.02	41,32,230	2.19
	Transfer-15/09/2017 (Purchase)	50,652	0.03	41,82,882	2.22
	Transfer-29/09/2017 (Purchase)	26,048	0.01	42,08,930	2.23
	Transfer-13/10/2017 (Purchase)	1,10,000	0.06	43,18,930	2.29
	Transfer-20/10/2017 (Purchase)	62,000	0.03	43,80,930	2.32
	Transfer-27/10/2017 (Purchase)	2,47,610	0.13	46,28,540	2.45
	Transfer-31/10/2017 (Purchase)	47,143	0.02	46,75,683	2.48
	Transfer-03/11/2017 (Purchase)	24,497	0.01	47,00,180	2.49
	Transfer-10/11/2017 (Purchase)	96,208	0.05	47,96,388	2.54
	Transfer-17/11/2017 (Purchase)	3,60,586	0.19	51,56,974	2.73
	Transfer-24/11/2017 (Purchase)	57,523	0.03	52,14,497	2.76
	Transfer-01/12/2017 (Purchase)	65,341	0.03	52,79,838	2.80
	Transfer-08/12/2017 (Purchase)	2,75,833	0.15	55,55,671	2.94
	Transfer-15/12/2017 (Purchase)	1,71,991	0.09	57,27,662	3.03
	Transfer-22/12/2017 (Purchase)	2,29,067	0.12	59,56,729	3.15
	Transfer-05/01/2018 (Purchase)	29,152	0.02	59,85,881	3.17
	Transfer-12/01/2018 (Purchase)	2,52,522	0.13	62,38,403	3.30
	Transfer-19/01/2018 (Purchase)	20,996	0.01	62,59,399	3.31
	Transfer-26/01/2018 (Purchase)	7,699	0.00	62,67,098	3.32
	Transfer-02/02/2018 (Purchase)	1,27,960	0.07	63,95,058	3.39
	Transfer-09/02/2018 (Purchase)	1,04,677	0.06	64,99,735	3.44
	Transfer-16/02/2018 (Purchase)	2,02,900	0.11	67,02,635	3.55
	Transfer-23/02/2018 (Purchase)	1,17,523	0.06	68,20,158	3.61
	Transfer-09/03/2018 (Purchase)	3,35,586	0.18	71,55,744	3.79
	Transfer-16/03/2018 (Purchase)	2,97,839	0.16	74,53,583	3.94
	Transfer-23/03/2018 (Purchase)	15,000	0.01	74,68,583	3.95
	At the end of the year			74,68,583	3.95

Extract of Annual Return

Sl. No.	For each of the top 10 shareholders	Shareholding at the beginning of the year		Cumulative Shareholding during the year	
		No. of shares	% of total shares of the Company	No. of shares	% of total shares of the Company
8	American Funds Insurance Series Global Small Capitalization Fund				
	At the beginning of the year	24,40,000	1.29		
	Transactions during the year ended 31 st March 2018				
	Transfer-04/08/2017 (Sale)	(15,957)	(0.01)	24,24,043	1.28
	Transfer- 11/08/2017 (Sale)	(31,831)	(0.02)	23,92,212	1.27
	Transfer-18/08/2017 (Sale)	(5,73,060)	(0.30)	18,19,152	0.96
	Transfer-25/08/2017 (Sale)	(79,152)	(0.04)	17,40,000	0.92
	At the end of the year			17,40,000	0.92
9	Franklin India Smaller Companies Fund				
	At the beginning of the year	23,74,305	1.26		
	Transactions during the year ended 31 st March 2018				
	Transfer-12/01/2018 (Sale)	(2,00,000)	(0.11)	21,74,305	1.15
	At the end of the year			21,74,305	1.15
10	Aditya Birla Sun Life Trustee Private Limited				
	At the beginning of the year	23,30,440	1.24		
	Transactions during the year ended 31 st March 2018				
	Transfer-07/04/2017 (Sale)	(750)	(0.00)	23,29,690	1.23
	Transfer-21/04/2017 (Purchase)	49,690	0.03	23,79,380	1.26
	Transfer-21/04/2017 (Sale)	(24,690)	(0.01)	23,54,690	1.25
	Transfer-28/04/2017 (Purchase)	25,000	0.01	23,79,690	1.26
	Transfer-12/05/2017 (Purchase)	15,200	0.01	23,94,890	1.27
	Transfer-19/05/2017 (Purchase)	3,500	0.00	23,98,390	1.27
	Transfer-26/05/2017 (Purchase)	5,00,000	0.27	28,98,390	1.54
	Transfer-29/09/2017 (Purchase)	12,500	0.01	29,10,890	1.54
	Transfer-13/10/2017 (Purchase)	3,75,000	0.20	32,85,890	1.74
	Transfer-13/10/2017 (Sale)	(4,50,000)	(0.24)	28,35,890	1.50
	Transfer-20/10/2017 (Purchase)	75,000	0.04	29,10,890	1.54
	Transfer-20/10/2017 (Sale)	(2,25,000)	(0.12)	26,85,890	1.42
	Transfer-27/10/2017 (Purchase)	2,25,000	0.12	29,10,890	1.54
	Transfer-05/01/2018 (Purchase)	1,18,448	0.06	30,29,338	1.60
	Transfer-12/01/2018 (Purchase)	3,100	0.00	30,32,438	1.61
	Transfer-19/01/2018 (Purchase)	42,000	0.02	30,74,438	1.63
	Transfer-09/02/2018 (Purchase)	8,75,000	0.46	39,49,438	2.09
	Transfer-09/02/2018 (sale)	(8,75,000)	(0.46)	30,74,438	1.63
	Transfer-23/03/2018 (Purchase)	9,000	0.00	30,83,438	1.63
	At the end of the year			30,83,438	1.63
11	Aadi Financial Advisors LLP				
	At the beginning of the year	21,83,509	1.16		
	Transactions during the year ended 31 st March 2018				
	At the end of the year			21,83,509	1.16

Notes:

1. As the Company is listed, its shares are traded on a daily basis and hence the above dates refer to the respective beneficiary position dates.
2. The above list comprises top 10 shareholders as on 1st April 2017 and as on 31st March 2018.
3. The % change in holding despite nil changes during the year is on account of increase in share capital upon allotment of equity shares to employees who have exercised their options under the Company's ESOP Scheme 2007 and ESOP Plan 2016.
4. The holdings of the shareholders have been combined based on PAN and folio no./client ID.

Extract of Annual Return

(v) Shareholding of Directors and Key Managerial Personnel

Sl. No.	For each of the Directors and KMP	Shareholding at the beginning of the year		Cumulative Shareholding during the year	
		No. of shares	% of total shares of the Company	No. of shares	% of total shares of the Company
1	M M Murugappan				
	At the beginning of the year	696,340	0.37		
	Transfer-27/03/2018 (acquisition by way of gift)	289,600	0.15	985,940	0.52
	At the end of the year	-	-	985,940	0.52
2	M A M Arunachalam				
	At the beginning of the year	1,100,600	0.58		
	Transactions during the year ended 31 st March 2018	-	-	-	-
	At the end of the year			1,100,600	0.58
3	K Srinivasan				
	At the beginning of the year	357,530	0.19		
	Transactions during the year ended 31 st March 2018				
	Allotment of equity shares on exercise of options under the ESOP Scheme 2007 - 22/08/2017	38,000	0.02	395,530	0.21
	At the end of the year			395,530	0.21
4	Sridharan Rangarajan**				
	At the beginning of the year	10,000	0.01		
	Transactions during the year ended 31 st March 2018	-	-	-	-
	As at 17 th January 2018			10,000	0.01

* None of the other Directors and Key Managerial Personnel hold shares in the Company.

** Mr. Sridharan Rangarajan stepped down as the Chief Financial Officer w.e.f. the closing hours of 17th January 2018.

V. INDEBTEDNESS OF THE COMPANY INCLUDING INTEREST OUTSTANDING/ACCRUED BUT NOT DUE FOR PAYMENT

₹ million

	Secured Loans excluding deposits	Unsecured Loans	Deposits	Total Indebtedness
Indebtedness at the beginning of the financial year				
i) Principal Amount	25.98	-	-	25.98
ii) Interest due but not paid	-	-	-	-
iii) Interest accrued but not due	-	-	-	-
Total (i+ii+iii)	25.98	-	-	25.98
Change in Indebtedness during the financial year				
• Addition	421.14	-	-	421.14
• Reduction	429.03	-	-	429.03
Net Change	(7.89)	-	-	(7.89)
Indebtedness at the end of the financial year				
i) Principal Amount	18.09	-	-	18.09
ii) Interest due but not paid	-	-	-	-
iii) Interest accrued but not due	-	-	-	-
Total (i+ii+iii)	18.09	-	-	18.09

VI. REMUNERATION OF DIRECTORS AND KEY MANAGERIAL PERSONNEL

A. Remuneration to Managing Director, Whole-time Directors and/or Manager: Mr. K Srinivasan, Managing Director

₹ million

Sl. no.	Particulars of Remuneration	Total Amount
1	Gross salary	22.20
	(a) Salary as per provisions contained in section 17(1) of the Income-tax Act, 1961	
	(b) Value of perquisites u/s 17(2) of Income-tax Act, 1961	0.03
	(c) Profits in lieu of salary under section 17(3) Income-tax Act, 1961	-
2	Stock Option*	-
3	Sweat Equity	-
4	Commission as % of profit	-
5	Others	-
	Total (A)	22.23
	Ceiling as per the Act	104.75

*The deemed benefit on exercise of Options under the Company's ESOP Scheme 2007 has not been considered as there was no cost to the Company.

Extract of Annual Return

B. Remuneration to other Directors

₹ million

Sl. no.	Particulars of Remuneration	Name of the Director								Total
1	Independent Directors	T L Palani Kumar	M Lakshminarayan*	Shobhan M Thakore*	Sanjay Jayavarthanavelu	Aroon Raman	Bharati Rao	P S Raghavan**	Sujain S Talwar**	
	Fee for attending Board/ Committee meetings	0.32	0.13	0.10	0.19	0.20	0.18	0.17	0.25	1.54
	Commission	0.75	0.25	0.25	0.75	0.75	0.75	0.67	0.67	4.84
	Others	-	-	-	-	-	-	-	-	-
	Total(1)	1.07	0.38	0.35	0.94	0.95	0.93	0.84	0.92	6.38
2	Other Non-Executive Directors	M M Murugappan	M A M Arunachalam							Total
	Fee for attending Board/ Committee meetings	0.21	0.19							0.40
	Commission	10.00	0.75							10.75
	Others	-	-							-
	Total(2)	10.21	0.94							11.15
	Total Managerial Remuneration (B)=(1+2)									17.53
	Overall ceiling as per the Act excluding sitting fees									20.95

* Mr. M Lakshminarayan and Mr. Shobhan M Thakore retired from the Board effective closing hours of 31st July 2017.

** Mr. P S Raghavan and Mr. Sujain S Talwar were appointed as Directors w.e.f. 9th May 2017.

C. Remuneration To Key Managerial Personnel other than MD/Manager/WTD

₹ million

Sl. no.	Particulars of Remuneration	Key Managerial Personnel			
		CEO	Company Secretary	CFO**	Total
1	Gross salary		4.09	8.48	12.57
	(a) Salary as per provisions contained in section 17(1) of the Income-tax Act, 1961				
	(b) Value of perquisites u/s 17(2) Income-tax Act, 1961		0.02	0.03	0.05
	(c) Profits in lieu of salary under section 17(3) Incometax Act, 1961		-	-	-
2	Stock Option	NA*	-	-	-
3	Sweat Equity		-	-	-
4	Commission		-	-	-
	- as % of profit				
	- others				
5	Others		-	-	-
	Total		4.11	8.51	12.62

* The Company has a Managing Director whose details are provided above in VI A above.

** Mr. Sridharan Rangarajan stepped down as the Chief Financial Officer w.e.f closing hours of 17th January 2018 and above remuneration represents his remuneration till the date he was the KMP of the Company.

VII. Penalties/Punishment/Compounding of Offences against the Company, Directors, other officers in default in respect of provisions of the Companies Act, 2013 - Nil

Chennai
May 4, 2018

On behalf of the Board
M M Murugappan
Chairman

SECRETARIAL AUDIT REPORT

FOR THE FINANCIAL YEAR ENDED 31st MARCH, 2018

[Pursuant to Section 204(1) of the Companies Act, 2013 and Rule No.9 of the Companies (Appointment and Remuneration of Managerial Personnel) Rules, 2014]

To,
The Members,
Carborundum Universal Limited
Parry House, 43 Moore Street
Chennai - 600001

We have conducted the secretarial audit of the compliance of applicable statutory provisions and the adherence to good corporate practices by Carborundum Universal Limited [Corporate Identification Number: L29224TN1954PLC000318] (hereinafter called "the Company"). Secretarial Audit was conducted in a manner that provided us a reasonable basis for evaluating the corporate conducts/statutory compliances and expressing our opinion thereon.

Based on our verification of Company's books, papers, minute books, forms and returns filed and other records maintained by the Company and also the information provided by the Company, its officers, agents and authorized representatives during the conduct of secretarial audit, We hereby report that in our opinion, the Company has, during the audit period covering the financial year ended on 31st March, 2018 complied with the statutory provisions listed hereunder and also that the Company has proper Board-processes and compliance mechanism in place to the extent, in the manner and subject to the reporting made hereinafter:

We have examined the books, papers, minute books, forms and returns filed and other records maintained by the Company for the financial year ended on 31st March, 2018 according to the provisions of:

- (i) The Companies Act, 2013 (the Act) and the rules made there under and the Companies Act, 1956 to the extent applicable;
- (ii) The Securities Contracts (Regulation) Act, 1956 ('SCRA') and the rules made there under;
- (iii) The Depositories Act, 1996 and the Regulations and Bye-laws framed there under;
- (iv) During the year under review the Company has complied with the provisions of Foreign Exchange Management Act, 1999 and the rules and regulations made thereunder to the extent of Overseas Direct Investment. There is no Foreign Direct Investment and External Commercial Borrowings during the year under review;
- (v) The following Regulations and Guidelines prescribed under the Securities and Exchange Board of India Act, 1992 ('SEBI Act'):-

- (a) The Securities and Exchange Board of India (Substantial Acquisition of Shares and Takeovers) Regulations, 2011;
- (b) The Securities and Exchange Board of India (Prohibition of Insider Trading) Regulations, 2015;
- (c) During the year under review, the Company has not issued any new securities mandating compliance of the provisions of the Securities and Exchange Board of India (Issue of Capital and Disclosure Requirements) Regulations, 2009;
- (d) The Employee Stock Option Plan, 2016 approved under the Securities Exchange Board of India (Share Based Employee Benefits) Regulations, 2014 and the Employee Stock Option Scheme, 2007 approved under the Securities Exchange Board of India (Employee Stock Option Scheme and Employee Stock Purchase Scheme) Guidelines, 1999.
- (e) During the period under review, the Company has neither issued any debentures nor has any outstanding debentures to be redeemed and hence the compliance of the provisions of the Securities and Exchange Board of India (Issue and Listing of Debt Securities) Regulations, 2008 is not applicable;
- (f) The Securities and Exchange Board of India (Registrars to an Issue and Share Transfer Agents) Regulations, 1993 regarding the Companies Act and dealing with client;
- (g) During the year under review, the Company has not delisted its Securities from any of the Stock Exchanges in which it is listed and hence the compliance of the provisions of the Securities and Exchange Board of India (Delisting of Equity Shares) Regulations, 2009 is not applicable; and
- (h) The Company has not bought back any shares during the period under review and hence the provisions of compliance of the Securities and Exchange Board of India (Buyback of Securities) Regulations, 1998 is not applicable;
- (vi) We have reviewed the systems and mechanisms established by the Company for ensuring compliances under the other applicable Acts, Rules, Regulations and Guidelines prescribed under various laws which are applicable to the Company and categorized under the following major heads/groups:
 - 1. Factories Act, 1948;
 - 2. Labour laws and other incidental laws related to labour and employees appointed by the Company including those on

contractual basis as relating to wages, gratuity, prevention of sexual harassment, dispute resolution, welfare, provident fund, insurance, compensation etc.;

3. Industries (Development & Regulation) Act, 1991;
4. Acts relating to consumer protection including The Competition Act, 2002;
5. Acts and Rules prescribed under prevention and control of pollution;
6. Acts and Rules relating to Environmental protection and energy conservation;
7. Acts and Rules relating to hazardous substances and chemicals;
8. Acts and Rules relating to electricity, fire, petroleum, drugs, motor vehicles, explosives, boilers etc.;
9. Acts relating to mining activities;
10. Acts relating to protection of IPR;
11. The Information Technology Act, 2000;
12. Land revenue laws and
13. Other local laws as applicable to various plants and offices.

With respect to Fiscal laws such as Income Tax, Professional Tax, Goods and Service Tax etc., based on the information and explanation provided to us by the management and officers of the Company and certificates placed before the Board of Directors, we report that adequate systems are in place to monitor and ensure compliance of fiscal laws as mentioned above.

We have also examined compliance with the applicable clauses / regulations of the following:

- (i) Secretarial Standards with respect to Meetings of Board of Directors (SS-1) and General Meetings (SS-2) issued by The Institute of Company Secretaries of India.
- (ii) The Uniform Listing Agreement entered into with BSE Limited and the National Stock Exchange of India Limited pursuant to the provisions of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015.

During the period under review the Company has complied with the provisions of the Act, Rules, Regulations, Guidelines, Standards etc. mentioned above.

We further report that

The Board of Directors of the Company is duly constituted with proper balance of Executive Directors, Non-Executive Directors and Independent Directors. The changes in the composition of the Board of Directors that took place during the period under review were carried out in compliance with the provisions of the Act.

Adequate notice is given to all Directors before the schedule of the Board Meetings, agenda and detailed notes on agenda were sent at least seven days in advance, and a system exists for seeking and obtaining further information and clarifications on the agenda items before the meeting and for meaningful participation at the meeting. Notes on agenda which are circulated less than the specified period, the necessary compliances under the Companies Act, 2013 and Secretarial Standards on Board Meetings are complied with. There are certain businesses that can be transacted through Video Conferencing / Audio Visual means as provided for under the Companies Act, 2013 and the relevant Rules made there under. The Company has properly convened & recorded in compliance with Rule 3 of Companies (Meetings of Board and its Powers) Rules, 2014 businesses that have been transacted through Video Conferencing / Audio Visual means.

Based on the verification of the records and minutes, the decisions were carried out with the consent of the Board of Directors / Committee Members and no Director / Member dissented on the decisions taken at such Board / Committee Meetings.

We further report that based on the review of compliance mechanism established by the Company, we are of the opinion that the management has adequate systems and processes commensurate with its size and operations, to monitor and ensure compliance with all applicable laws including labour laws, rules, regulations and guidelines.

We further report that during the audit period, that there were no specific events having major bearing on the Company's affairs in pursuance of above referred laws, rules, regulations, guidelines and standards during the period under review.

For R.Sridharan & Associates

Company Secretaries

CS R.Sridharan

CP No. 3239

FCS No. 4775

UIN: S2003TN063400

Chennai
May 4, 2018

Corporate Governance Report

[PURSUANT TO SCHEDULE V OF THE SECURITIES AND EXCHANGE BOARD OF INDIA (LISTING OBLIGATIONS AND DISCLOSURE REQUIREMENTS) REGULATIONS, 2015]

Corporate Governance refers to a system of rules, practices and processes by which a company is directed and controlled. It provides the structure through which a company sets its objectives and the framework within which these objectives are pursued in the context of the social, regulatory and market environment.

Governance essentially involves aligning the interests of the various stakeholders in a Company and encompasses practically every sphere of management, from action plans and internal controls to performance measurement and corporate disclosures. The purpose is to facilitate effective and prudent management essential for the long term success of a company.

1. CUMI'S CORPORATE GOVERNANCE PHILOSOPHY

Carborundum Universal Limited ("CUMI"), a constituent of the Murugappa Group, is committed to the highest standards of Corporate Governance in all its activities and processes. Key elements in Corporate Governance are transparency, internal controls, risk management, internal/external communications and good standards of safety, health, environment and quality. The Board recognises that governance expectations are constantly evolving and is committed to keeping its governance standards under continuous review to meet both letter and spirit of the law and its own demanding levels of business ethics. CUMI considers Corporate Governance as the cornerstone for sustained superior performance and for serving all its stakeholders. The Company's continuing contribution to the society through meaningful Corporate Social Responsibility initiatives, be it direct initiatives through the CUMI Skill Development Centre or indirect initiatives through contributions to eligible implementing agencies in the core sectors of health & education, plays a significant role in its governance initiatives. The entire process begins with the functioning of the Board of Directors, with leading professionals and experts serving as Independent Directors and representing in various Board Committees.

The Company has always believed in and practices the highest standards of Corporate Governance since its inception and considers that sound governance practices are crucial for its smooth and efficient operations as well as its ability to attract investments, balancing the interests of all its stakeholders and providing shareholder value. The behaviour and ethics of an organisation are considered to be two defining characteristics of any Company critical to not only successful leadership but also in ensuring long term sustainability. CUMI's ethical and responsible behaviour complements its corporate culture which is guided by the following norm:

"The fundamental principle of economic activity is that no man you transact with will lose; then you shall not".

The Corporate Governance philosophy of the Company is driven by the fundamental principles of:

- Adhering to the governance standards beyond the letter of law;
- Maintaining transparency and high degree of disclosure levels;
- Maintaining clear distinction between personal and corporate interest;

- Having a transparent corporate structure driven by business needs; and
- Ensuring compliance with applicable laws.

The Company's constant endeavour for corporate excellence has been well recognised through incessant awards and accolades reiterating its commitment to governance standards. While the Company won the coveted Golden Peacock award for Corporate Ethics last year, in recognition of its governance initiatives and processes, it has been conferred this prestigious award for Corporate Governance in the engineering sector during the year.

2. BOARD OF DIRECTORS

The Board being aware of its fiduciary responsibilities, recognises its responsibilities towards all stakeholders and upholds highest standards in all matters concerning the Company. It has empowered responsible persons to implement its broad policies and guidelines besides setting up adequate review processes.

The Board provides strategic guidance on affairs of the Company in addition to reviewing the performance and monitoring the implementation of plans periodically. The Independent Directors provide an objective judgement on matters placed before them.

The Company's day to day affairs are managed by the Managing Director, assisted by a competent Management team under the overall supervision of the Board. The Company's commitment to ethical and lawful business conduct is a fundamental shared value of the Board, Senior Management and all its employees.

Consistent with its Values and Beliefs represented by the Five Lights - spirit of the Murugappa Group, the Company has formulated a Code of Conduct applicable to the Board and Senior Management which is posted on the website of the Company at <https://www.cumi-murugappa.com/policies.html>. An annual declaration is obtained from every person covered by the Code of Conduct. A declaration to this effect signed by the Managing Director is annexed to this Report.

The Board is committed to representing the long-term interests of the stakeholders, providing effective governance over the Company's affairs and exercising reasonable business judgement on the affairs of the Company.

2.1 Composition

The Board has been constituted in an appropriate manner, to preserve its independence and to separate the Board functions of governance and management. The Board members are eminent persons and have collective experience in diverse fields of technology, engineering, banking, foreign affairs, management, legal and compliance. The Directors are elected based on their qualification and experience in varied fields. The Board has formulated a Board Diversity policy to ensure an optimum composition such that the talent of all members of the Board blend together to be as effective as possible. The Board has an appropriate mix of Executive/Non-Executive as well as Independent Directors including a Woman Director to ensure proper governance and management.

As at 31st March 2018, the Board comprises 9 members with a majority of them being Independent Directors.

Name	Category	No. of Directorships / (Chairmanships) in Companies including CUMI ^(a)	No. of other Directorships	No. of Committee memberships / (Chairmanships) in Companies including CUMI ^(b)	No. of Board meetings attended	Attendance at last AGM	Shares held in CUMI
M M Murugappan DIN - 00170478	Promoter & Non-Executive Director	10 (7)	5	8 (5)	6	Yes	985,940
T L Palani Kumar DIN - 00177014	Non-Executive & Independent Director	2	1	1 (1)	6	Yes	Nil
Sanjay Jayavarthanavelu DIN - 00004505	Non-Executive & Independent Director	10 (4)	2	2	4	Yes	Nil
Aroon Raman DIN - 00201205	Non-Executive & Independent Director	4	3	3	5	No	Nil
Bharati Rao DIN - 01892516	Non-Executive & Independent Director	10	-	9 (1)	4	Yes	Nil
M A M Arunachalam DIN - 00202958	Promoter & Non-Executive Director	4	4	3 (1)	6	Yes	1,100,600
P S Raghavan DIN - 07812320	Non-Executive & Independent Director	1	-	-	5	Yes	Nil
Sujain Suresh Talwar DIN - 01756539	Non-Executive & Independent Director	1	5	1	6	Yes	Nil
K Srinivasan DIN - 00088424	Managing Director	4 (1)	6	3	6	Yes	395,530

(a) Excluding Alternate Directorships and Directorships in Foreign companies, Private companies (which are not subsidiary or holding company of a Public company) and Section 8 companies;

(b) Only Audit & Stakeholders Relationship Committee of Public companies;

(c) Inter-se relationship between Directors - Nil;

(d) Mr. M Lakshminarayan and Mr. Shobhan M Thakore, Independent Directors retired from the Board at the closing hours of 31st July 2017 on account of completion of their term of appointment;

(e) Mr. P S Raghavan and Mr. Sujain S Talwar were appointed as Directors on 9th May 2017;

(f) Shareholding of Directors represents the shares held by them in individual capacity and excludes shares held as Trustees.

2.2 Changes in Board composition during the financial year 2017-18

During the year ended 31st March 2018, there were no changes in the Board composition other than as detailed below:

Name	Category	Nature of change
P S Raghavan Sujain Suresh Talwar	Non-Executive & Independent Director	Appointed as Additional Directors by the Board on 9 th May 2017. Their appointment as Independent Directors w.e.f. 9 th May 2017 was approved by the shareholders at the 63 rd Annual General Meeting held on 31 st July 2017.
M A M Arunachalam	Promoter & Non-Executive Director	Appointed as an Additional Director by the Board on 28 th October 2016. He was appointed as a Director at the 63 rd Annual General Meeting held on 31 st July 2017.
Mr. M Lakshminarayan	Non-Executive & Independent Director	Retired from the Board at the closing hours of 31 st July 2017 on account of completion of his term as an Independent Director.
Mr. Shobhan M Thakore	Non-Executive & Independent Director	Retired from the Board at the closing hours of 31 st July 2017 on account of completion of his term as an Independent Director.

2.3 Board Meetings

The Board meets at regular intervals and has a formal schedule of matters reserved for its consideration and decision to ensure that it exercises full control over significant, strategic, financial, operational and compliance matters. These include setting performance targets, reviewing operational and financial performance against set targets, evolving strategy, approving investments, ensuring adequate availability of financial resources, overseeing risk management and reporting to the shareholders.

The Board is regularly briefed and updated on key business activities and is provided with presentations and information on the operations, financial performance and other matters concerning the Company. Besides, information on statutory compliance of applicable laws, minutes of meetings of the Committees of the Board, summary of decisions taken at the Board meetings of the subsidiary companies and information required under the Listing Regulations are provided to the Board on a quarterly basis. The Board periodically reviews the compliance of applicable laws and gives appropriate directions,

wherever necessary. Timely and relevant information is provided by the Company to the Directors to facilitate effective participation and contribution during the meetings.

The Company has laid down procedures to inform the Board members about the risk assessment and minimisation procedures. The Board reviews the significant business risks identified by the Management and the mitigation process being undertaken.

The Board periodically reviews the matters required to be placed before it, monitors the overall performance of the Company and inter alia reviews and approves the quarterly financial statements, business plan, capital expenditure etc. The dates of the Board meetings are fixed in advance for the full calendar year to enable maximum attendance from the Board members. During the year ended 31st March 2018, six Board meetings were held on 9th May 2017, 31st July 2017, 1st November 2017, 13th February 2018, 14th February 2018 and 29th March 2018. As required under the Companies Act, 2013, the Company facilitates participation of a Director who is unable to attend the Board/Committee meetings physically, through video conference or other audio visual means in the manner prescribed under the relevant regulations.

During the year ended 31st March 2018, there was no Indian subsidiary Company which could be classified as material non-listed Indian subsidiary as per the terms of the Listing Regulations i.e., whose net worth exceeds 20% of the consolidated net worth of the Company or which has generated more than 20% of the consolidated income of the Company in the preceding financial year. The Board reviews the significant transactions and arrangements of the unlisted subsidiary companies besides being apprised of their business plan and performance. The Company has also formulated a policy for determining 'material subsidiaries' in line with the requirements of the Listing Regulations. A copy of the policy is available on the website of the Company and the link is <https://www.cumi-murugappa.com/policies.html>.

In line with the Companies Act, 2013 and the Listing Regulations, the Company has in place policies for determining 'materiality' for disclosure of events/information to stock exchanges, policy for preservation and archival of documents, dividend distribution policy, business responsibility policy and policy for prevention of sexual harassment at workplace.

The above policies are periodically reviewed by the Board.

2.4 Separate Meeting of Independent Directors

Besides the formal Board meetings, the Independent Directors hold meetings without the participation of Non-Independent Directors and members of the Management. During the year, the Independent Directors met on 29th March 2018 and reviewed the performance of Non-Independent Directors and the Board as a whole, reviewed the performance of the Chairman taking into account views of the Executive and Non-Executive Directors and also assessed the quality, quantity and timeliness of flow of information between the Management and the Board.

2.5 Board familiarisation

The members of the Board are provided with many opportunities to familiarise themselves with the Company, its Management and

operations. At the time of appointing a Director, a formal letter of appointment is given to him/her, along with a Directors' handbook which inter alia explains the role, function, duties and responsibilities expected of him/her as a Director of the Company. The handbook also enumerates the list of compliance obligations and other disclosures required from the Director under the Companies Act, Listing Regulations and other relevant regulations. Newly inducted Audit Committee members are provided with an Audit Committee manual which broadly covers the regulatory scenario in India, current practices in the Company, Indian and Global best practices etc. These handbooks are updated periodically for regulatory as well as policy changes and updated copies of the handbooks are provided to all the Directors. Further, the Code of Conduct which includes the values, principles and beliefs guiding the Company and the duties and responsibilities of the Directors including an Independent Director is given to the Director at the time of induction as well as annually. In addition, the Board members have opportunity and access to interact with the Senior Management.

By way of an introduction to the Company, the newly inducted Director is presented with a corporate dossier which traces the Company's history over 60 years of its existence and gives a glimpse of value chain of its products. The Managing Director at the first Board meeting in which the new Director participates or at a mutually convenient time makes a detailed presentation on the Company, its various business segments and profile, manufacturing locations, organisation structure and other market related information. Exclusive plant visits are also organised for the new Director. Further, with a view to familiarise the existing Directors with the Company's operations on an ongoing basis, plant visits are periodically organised for the Directors. During the year, a visit of the facilities of the Company at Edapally and Kakkanad, Cochin was undertaken by the Board members on 13th February 2018. Further, as a part of their Board induction, Mr. P S Raghavan and Mr. Sujain S Talwar visited the Company's facilities at Hosur, Tamil Nadu. In addition, Mr. Aroon Raman visited one of the facilities of the Company's joint venture - M/s Murugappa Morgan Thermal Ceramics Limited at Moti Bhayon, Ahmedabad and had interactions with the operating team. In the backdrop of a dynamic regulatory scenario, regulatory changes impacting the Company is briefed at meetings on quarterly basis.

The above initiatives help the Directors to understand the Company, its businesses and the regulatory framework in which the Company operates, thus enabling him/her to effectively fulfil their role as a Director of the Company. The details of the familiarisation programme is also uploaded and is available on the Company's website at the following link <https://www.cumi-murugappa.com/policies.html>.

2.6 Board evaluation

During the year, the Board conducted an evaluation of its own performance, individual Directors as well as the working of the Committees as per the Board evaluation framework adopted by it. The manner and criteria for the evaluation of the Directors including the Independent Directors of the Company is detailed in the Directors' Report.

3. Board Committees

The Board has constituted various Committees for support in discharging its responsibilities. There are five Committees constituted by the Board - Audit Committee, Nomination and Remuneration Committee, Risk Management Committee, Stakeholders Relationship Committee and Corporate Social Responsibility Committee. The Company Secretary acts as the Secretary to the Committees of the Board.

The Board at the time of constitution of each Committee determines the terms of reference and also delegates further powers from time to time. Various recommendations of the Committees are submitted to the Board for consideration & approval and the minutes of all meetings of the Committees are circulated to the Board for information.

In addition to the above, the Board from time to time constitutes committees of Directors for specific purposes. During the year, no meetings of such Committees were held.

3.1 Audit Committee

Terms of Reference

The role of the Audit Committee includes overseeing the financial reporting process and disclosure of financial information, review of financial statements before submission to the Board, review of adequacy of internal control system, findings of internal audit, whistle blower mechanism, related party transactions, scrutiny of inter-corporate loans & investments, approval and review of related party transactions, valuation of assets/undertakings of the Company, appointment of registered valuers etc., besides recommending the appointment of Auditors and their remuneration to the Board as well as approval of payments to Statutory Auditors for non-audit services and review of effectiveness of audit process. The Audit Committee also reviews the financial statements of unlisted subsidiary companies, in particular, the investments made by them.

Composition & Meetings

The Audit Committee comprises entirely Independent Directors and all members of the Committee are financially literate. The Chairman of the Board, the Statutory Auditor, Internal Auditor and members of the Management Committee are invited to attend all meetings of the Committee. The Cost Auditor is invited to attend meetings in which the Cost Audit Report is being considered. Further, as a good Corporate Governance practice, a separate discussion of the Committee with the Statutory Auditors and the Internal Auditors without the presence of the Management team is held periodically.

Considering Mr. M Lakshminarayan's retirement from the Board effective the closing hours of 31st July 2017, the Audit Committee was re-constituted by the Board with the induction of Mr. Sujain S Talwar as a member on 9th May 2017.

During the year, the Committee had five meetings for reviewing the financial statements and considering the internal audit reports and audit plan.

The composition and attendance of the Committee members at the meetings held during the year are given below:

Name of member	No. of meetings attended (No. of meetings held)*
T L Palani Kumar (Chairman)	5 (5)
M Lakshminarayan	2 (2)
Sanjay Jayavarthanavelu	3 (5)
Bharati Rao	3 (5)
Sujain S Talwar	4 (4)

* Number of meetings held during tenor of membership in the Committee

3.2 Nomination and Remuneration Committee

Terms of Reference

The role of the Committee is to (a) recommend to the Board the appointment of Directors (b) recommend re-election of Directors retiring by rotation (c) recommend the remuneration including pension rights and periodic increments of the Managing/Wholetime Director(s) (d) determine the annual incentive of the Managing/Wholetime Director(s) (e) recommend to the Board, the commission payable annually to each of the Non-Wholetime Directors, within the limits fixed by shareholders (f) formulate, implement, administer and superintend the Employee Stock Option Plan/Scheme(s) of the Company (g) formulating criteria for appointment of Directors and Senior Management and identification of persons who may be qualified to be appointed in these positions (h) devise policy on Board diversity (i) formulate criteria for evaluation of Independent Directors/Board, evaluation of the Directors' performance (j) recommend Remuneration policy to the Board (k) ensuring Board Diversity etc.

The Committee has formulated the criteria for determining the qualifications, positive attributes and independence of a Director and the criteria for Senior Management positions in terms of Section 178(3) of the Companies Act, 2013 besides laying down the criteria for Board evaluation. The Board evaluation including that of the Independent Directors is done based on the evaluation framework detailed elsewhere in the Directors' Report. The Company also has in place a Board approved policy on the remuneration for Directors, Key Managerial Personnel and other employees which had been duly recommended by the Committee. The policy is available in the link <https://www.cumi-murugappa.com/policies.html>.

Board Diversity Policy

The Company recognises and embraces the benefits of having a diverse Board and the Board diversity policy sets out the approach in this regard. A truly diverse Board comprising of appropriately qualified people with a broad range of experience relevant to the business of the Company, is integral to its success and is also an essential element in maintaining a competitive advantage on a sustainable basis. In line with the policy, the Board is balanced by members having complementary knowledge, expertise and skills in areas such as business strategy, finance, foreign affairs, legal, marketing, manufacturing, technology and such other areas that the Board considers desirable.

Criteria for Board Nomination

The Nomination and Remuneration Committee is responsible for identifying persons for initial nomination as Directors as well as evaluating incumbent Directors for their continued service. The Committee has formulated a criteria in terms of Section 178 of the Companies Act, 2013 and the Listing Regulations inter alia detailing the qualifications in terms of personal traits, experience & background, fit & proper, positive attributes and independence standards to be considered for nominating candidates for Board positions/ re-appointment of Directors.

Criteria for Senior Management

The Nomination and Remuneration Committee is also responsible for identifying persons who are qualified to be appointed in Senior Management. The Committee has formulated a criteria in terms of personal traits, competencies, experience & background, etc. to be considered for nominating candidates to Senior Management positions.

Composition & Meetings

The Committee comprises three members with all of them being Independent Directors. With the changes in the composition of the Board on account of the retirement of Mr. M Lakshminarayan and Mr. Shobhan M Thakore from the Board effective the closing hours of 31st July 2017, the Nomination and Remuneration Committee was re-constituted during the year. Mr. Aroon Raman and Mr. Sanjay Jayavarthanavelu were inducted as members of the Committee on 9th May 2017.

The Committee met on three occasions during the year. The composition and attendance of Committee members are given below:

Name of Member	No. of meetings attended (No. of meetings held)*
M Lakshminarayan (Chairman till 31 st July 2017)	2 (2)
T L Palani Kumar (Chairman from 1 st August 2017)	3 (3)
Shobhan M Thakore	2 (2)
Sanjay Jayavarthanavelu	1 (2)
Aroon Raman	1 (2)

* Number of meetings held during tenor of membership in the Committee

3.3 Risk Management Committee

Terms of Reference

The Board has constituted a Risk Management Committee for monitoring the risk management process in the Company.

The role of this Committee is to review the annual risk management framework to ensure that they are comprehensive & well developed, to periodically review the process for systematic identification and assessment of the business risks, to assess the critical risk exposures by specialised analysis and quality reviews and report to the Board the details of any significant developments relating to these and the steps being taken to manage the exposures, identify and make

recommendations to the Board, to the extent necessary on resources action and staffing required for effective risk management.

As a part of review of the risk management framework undertaken during the year, the Committee formulated a risk management policy with the following key objectives:

- Strengthening the business performance by informed decision making and planning.
- Adding sustainability value to the activities of the Company.
- Enhancing risk awareness amongst employees.
- Having in place an early warning mechanism for identification of threats/opportunities.
- Enabling optimum resources allocation and efficient use.
- Promoting an innovative culture with proper understanding of risks.

Composition & Meetings

The Committee comprises two Independent Directors and the Managing Director. The Management Committee members comprising the Senior Management executives are invited to the Committee meetings.

Consequent to changes in the composition of the Board on account of the retirement of Mr. M Lakshminarayan effective the closing hours of 31st July 2017, the Risk Management Committee was re-constituted by the Board with the induction of Mr. P S Raghavan and Mr. Aroon Raman as members on 9th May 2017.

The Committee met on two occasions during the year. The composition and attendance of Committee members are given below:

Name of Member	No of meetings attended (No. of meetings held)
P S Raghavan (Chairman)	2 (2)
Aroon Raman	2 (2)
K Srinivasan	2 (2)

3.4. Stakeholders Relationship Committee

Terms of Reference

The terms of reference of this Committee includes formulation of investors' servicing policies, review of redressal of investors complaints and approval/overseeing of transfers, transmissions, transpositions, splitting, consolidation of securities, issue of certificates, demat/remat requests, finalisation of terms of issue of debt instruments including debentures, approval of their allotment, administering the unclaimed shares suspense account, authorising the terms of various borrowings & creating security in respect thereof, allotment of shares on exercise of Options by employees under the Employees Stock Option Scheme/plan and performing other functions as delegated to it by the Board from time to time.

Composition & Meetings

During the year, the Stakeholders Relationship Committee was re-constituted by the Board with the induction of Mr. M A M Arunachalam as a member on 9th May 2017.

The Committee met on four occasions during the year.

The composition and attendance of Committee members are given below:

Name of Member	No of meetings attended (No. of meetings held)*
M M Murugappan (Chairman)	4 (4)
M A M Arunachalam	3 (3)
K Srinivasan	4 (4)

* Number of meetings held during tenor of membership in the Committee

During the year, there was one investor service complaint pertaining to dematerialisation of shares which was resolved to the satisfaction of the shareholder. There were no investor service complaints pending as at 31st March 2018.

Ms. Rekha Surendhiran, Company Secretary continues to be the Compliance Officer for the purpose of compliance with the requirements of the Listing Regulations.

Karvy Computershare Private Limited, Hyderabad, is the Company's Registrar and Share Transfer Agent (RTA). The contact details are available in the General Shareholder Information section of the Report.

3.5 Corporate Social Responsibility Committee

Terms of Reference

The Board has constituted a Corporate Social Responsibility (CSR) Committee in line with the requirements of the Companies Act, 2013 for assisting the Board in discharging its corporate social responsibility. The Board has approved a CSR policy formulated and recommended by the Committee which is uploaded and available on the Company's website at the following link <https://www.cumi-murugappa.com/policies.html>. The functions of the Committee include recommending the amount of expenditure to be incurred on the CSR activities, monitoring the implementation of CSR activities as per the CSR policy of the Company from time to time etc.

Composition & Meetings

The Committee comprises two Independent Directors and the Managing Director as its members. The Management Committee members are invited to the Committee meetings.

The Committee met on two occasions during the year. During the year, owing to the changes in the composition of the Board on account of the retirement of Mr. Shobhan M Thakore effective the closing hours of 31st July 2017, the CSR Committee was re-constituted with the induction of Mr. P S Raghavan as a member of the Committee on 9th May 2017. The composition and attendance of Committee members are as follows:

Name of Member	No. of meetings attended (No. of meetings held)*
Shobhan M Thakore (Chairman till 31 st July 2017)	1 (1)
Aroon Raman (Chairman from 1 st August 2017)	2 (2)
P S Raghavan	1 (1)
K Srinivasan	2 (2)

* Number of meetings held during tenor of membership in the Committee

4. DIRECTORS' REMUNERATION

4.1 Policy

The ability to attract and retain talented and quality resources is a significant characteristic of any successful organisation. The Company's Remuneration policy formulated by the Nomination and Remuneration Committee provides the framework for remuneration of the Board members as well as all employees including the Key Managerial Personnel. This policy is guided by the principles and objectives as enumerated in Section 178 of the Companies Act, 2013 and Listing Regulations to ensure reasonableness and sufficiency of remuneration to attract, retain and motivate competent resources, a clear relationship of remuneration to performance and a balance between rewarding short and long-term performance of the Company.

The compensation of the Managing Director comprises a fixed component and a performance incentive based on certain pre-agreed parameters. The compensation is determined based on levels of responsibility and scales prevailing in the industry. The Managing Director is not paid sitting fees for any Board/Committee meetings attended by him. The Managing Director is also eligible for employee Stock Options.

Equity based compensation is considered to be an integral part of employee compensation across various sectors which enables alignment of personal goals of employees with organisational objectives. Under the Employee Stock Option Scheme 2007, the Managing Director was granted Options, the summary of which is given in this report. No fresh grants were made under the above scheme during the year. During the year 2016-17, Mr. K Srinivasan, Managing Director was granted 370,400 Stock Options under the Employee Stock Option Plan 2016 (ESOP 2016). However, Mr. K Srinivasan offered to surrender the Options granted to him under ESOP 2016 with an intention to make the same available for the other eligible employees of the Company at an appropriate time. Respecting his views, the Nomination and Remuneration Committee considered his request for surrender of 370,400 Options under ESOP 2016 and approved the cancellation of the same during the year.

The compensation to the Non-Executive Directors takes the form of commission on profit. Though shareholders have approved payment of commission up to 1 per cent of net profit of the Company for each year, the actual commission paid to the Directors is restricted to a fixed sum within the above limit. This sum is reviewed periodically taking into consideration various factors such as performance of the Company, time spent by the Directors for attending to the affairs and business of the Company and extent of responsibilities cast on Directors under general law and other relevant factors.

In keeping with evolving trends in industry, the practice of paying differential commission to Directors based on time and efforts spent by them has also been adopted. Given the size and nature of its operations and also the rich experience that Mr. M M Murugappan, Chairman possesses in the field of engineering, a considerable amount of time is spent by him in connection with the operations of the Company. Apart from playing an active role in guiding and advising on matters connected with strategy and management, he spends considerable time on developing/managing relationships with the Company's business

partners both in India and overseas. The Chairman also plays an active role in matters connected with CUMI's organisation culture which is critical for the Company to deliver superior performance besides devoting time for technology related issues impacting the Company. Further, the Chairman spends a lot of time participating in various events, conclaves and functions of Industry bodies, Academic Institutions and interactions with high level State Authorities representing the Company. Under his chairmanship, the Company has grown globally from ₹4060 million to over ₹23000 million.

The Non-Executive Directors are also paid sitting fees within the limits prescribed under the Companies Act, 2013 for every Board/Committee meetings attended by them.

4.2 Remuneration for FY 2017-18

Non-Executive Directors

₹ million		
Name	Sitting Fees	Commission [@]
M M Murugappan	0.21	10.00
T L Palani Kumar	0.32	0.75
Sanjay Jayavarthanavelu	0.19	0.75
Aroon Raman	0.20	0.75
Bharati Rao	0.18	0.75
M A M Arunachalam	0.19	0.75
P S Raghavan	0.17	0.67
Sujjain Suresh Talwar	0.25	0.67
M Lakshminarayan*	0.13	0.25
Shobhan M Thakore*	0.10	0.25
Total	1.94	15.59

@ will be paid after adoption of accounts by shareholders at the 64th Annual General Meeting.

* retired from the Board effective closing hours of 31st July 2017.

Managing Director

₹ million		
Name	K Srinivasan ^(a)	Amount
Fixed Component	Salary & Allowances	13.67
	Retirement benefits*	3.45
	Perquisites	0.03
Variable Component	Incentive ^(a)	5.08

*includes contribution to National Pension System of PFRDA.

(a) Represents incentive paid during the financial year 2017-18 in respect of the financial year 2016-17

(b) As per the terms of his remuneration, the Managing Director is eligible for an annual incentive based on a balanced scorecard which comprises Company financials, Company scorecard and personal objectives. For the financial year 2017-18, a sum of ₹5.72 million has been provided in the accounts for this purpose. The actual amount will be decided by the Nomination and Remuneration Committee in August 2018.

(c) With respect to the Employee Stock Options granted to the employees under the Employees Stock Option Scheme, 2007 and the Employee Stock Option Plan 2016, the Options are accounted based on fair value, as prescribed by the Indian Accounting Standards (IND AS). No Stock Options were granted to Mr. K Srinivasan under the Employee Stock Option Scheme, 2007 (grants discontinued since February 2012). During the year, no Options were granted to Mr. K Srinivasan under the Employee Stock Option Plan 2016. However, based on the request from Mr. K Srinivasan to surrender

370,400 Options granted to him on 4th February 2017 at ₹257.55/- being the market price prior to date of grant, the Nomination and Remuneration Committee considered and approved the cancellation of these Options. As required under Listing Regulations, the details of the Options granted to and held by Mr. K Srinivasan under Company's ESOP Scheme 2007 are given below:

Particulars	No. of Options	Exercise price
Options granted	443,800	
Options vested	443,800	
Options cancelled	66,570	₹91.80/- being the market price prior to the date of grant
Options lapsed	-	
Options exercised	377,230	
Options outstanding	-	

As on 31st March 2018, there are no outstanding Options granted to Mr. K Srinivasan, Managing Director.

5. GENERAL BODY MEETINGS

5.1 Last three Annual General Meetings

Financial Year	Date	Time	Venue
2014-15	03.08.2015		
2015-16	03.08.2016	3.00 PM	TTK Auditorium, Music Academy, 168 (Old No.306) TTK Road, Royapettah, Chennai 600014
2016-17	31.07.2017		

5.2 Special Resolutions passed during the last three Annual General Meetings

Sl. No.	Item of business	Passed on
1.	Approval of offer/invitation to subscribe to Non-Convertible Debentures up to ₹2500 million on Private Placement basis.	03.08.2015
2.	Approval of offer/invitation to subscribe to Non-Convertible Debentures up to ₹2500 million on Private Placement basis.	03.08.2016
3.	Approval of offer/invitation to subscribe to Non-Convertible Debentures up to ₹2500 million on Private Placement basis.	31.07.2017

5.3 Postal Ballot

During the year, there were no resolutions passed through postal ballot and as at the year end, there are no proposals to pass special resolutions through postal ballot except those requiring to be passed pursuant to the Companies Act, 2013 which will be done after providing adequate notice to the shareholders.

6. WHISTLE BLOWER POLICY/VIGIL MECHANISM

The Company has established a whistle blower mechanism to provide an avenue to raise concerns, if any, in line with the Company's commitment to the high standards of ethical, moral and legal conduct of business. The mechanism also provides for adequate safeguards against victimisation of employees who avail of the mechanism and also for appointment

of an Ombudsperson who will deal with the complaints received. The policy also lays down the process to be followed for dealing with complaints and in exceptional cases, also provides for direct appeal to the Chairperson of the Audit Committee. In line with the requirements of the Companies Act, 2013, the policy coverage extends to the Directors of the Company and the Ombudsman for dealing with any referrals made by Board members is the Chairman of the Audit Committee. The Whistle blower policy is available on the Company's website at the following link <https://www.cumi-murugappa.com/policies.html>. It is affirmed that during the year, no employee was denied access to the Audit Committee.

7. PREVENTION OF INSIDER TRADING

The Company has adopted a Code of Conduct for Prevention of Insider Trading with a view to regulate trading in securities by the Directors and designated employees of the Company. The Code requires pre-clearance for dealing in the Company's shares for all transactions by Directors and designated employees (together called Designated Persons) and prohibits the purchase or sale of Company's securities by Designated Persons while in possession of unpublished price sensitive information in relation to the Company. Further, trading in securities is also prohibited for Designated Persons during the period when the Trading Window is closed. The Company Secretary is responsible for implementation of the Code. During the year, the Company has established an online system for monitoring the compliance of the Code by its designated employees. The Company also has in place a Code for practices and procedures for fair disclosure of unpublished price sensitive information which is available on the website of the Company.

8. DISCLOSURES

During the year, there were no material transactions with Related Parties. The Company has devised a policy on dealing with Related Party Transactions and the same is available in the website of the Company in the link <https://www.cumi-murugappa.com/policies.html>. The disclosures relating to commodity price risks/foreign exchange risk and hedging activities of the Company have been made in the Directors' Report. The requirements of Regulation 17 to Regulation 27 of the Listing Regulations and clauses (b) to (i) of Regulation 46(2) to the extent applicable to the Company have been complied with as disclosed in this Report. Further, there were no instances of non-compliance by the Company nor were there any penalties or strictures imposed on the Company by the stock exchange, SEBI or any statutory authority on any matter related to capital markets in the preceding three years.

9. MEANS OF COMMUNICATION

Your Company recognises the significance of dissemination of timely and relevant information to shareholders. In order to enable the stakeholders to understand the financial results in a meaningful manner, the Company gives a press release along with the publication of quarterly/annual financial results. The quarterly unaudited financial results and the annual audited financial results are normally published in Business Standard (in English) and Makkal Kural (in Tamil). Press releases are given to all important dailies. The financial results, press releases and presentations made to institutional investors/analysts are posted on the Company's website i.e. <https://www.cumi-murugappa.com>.

10. MANAGEMENT DISCUSSION & ANALYSIS

In order to avoid duplication and overlap between the Directors Report and a separate Management Discussion & Analysis (MD&A), the information required to be provided in the MD&A has been given in the Directors' Report itself as permitted by the Listing Regulations.

11. NON-MANDATORY REQUIREMENTS

The quarterly financial results are published in leading financial newspapers, uploaded on the Company's website, and any major developments are conveyed in the press releases issued by the Company and posted on the Company's website. The Company therefore did not send the half yearly performance update individually to the shareholders of the Company.

The expenses incurred by the Chairman in performance of his duties are reimbursed.

As recommended in Part E of Schedule II to Regulation 27(1) of the Listing Regulations, the post of Chairperson and Managing Director are held by separate persons.

During the year, the Internal Auditor/Statutory Auditor have had separate discussions with the Audit Committee without the presence of the Management team.

Further, there are no qualifications or adverse remarks by the Company's Auditors in the Company's Financial Statements and the Secretarial Audit Report for the FY 2017-18.

Other non-mandatory requirements have not been adopted at present.

12. CEO/CFO CERTIFICATION

Mr. K Srinivasan, Managing Director has given a certificate to the Board on matters relating to financial reporting, compliance with relevant statutes and adequacy of internal control systems as contemplated in Regulation 17(8) read with Part B of Schedule II of the Listing Regulations. During the year, Mr. Sridharan Rangarajan stepped down as the Chief Financial Officer (CFO) of the Company with effect from the closing hours of 17th January 2018 considering his taking up the role of Group-CFO of the Murugappa Group. The position of the Chief Financial Officer is vacant since then and the Company having identified suitable candidate(s) is in the process of filling up the vacancy.

13. PRACTISING COMPANY SECRETARY'S CERTIFICATE ON CORPORATE GOVERNANCE

The certificate from a Practising Company Secretary on Corporate Governance is annexed.

14. GENERAL SHAREHOLDER INFORMATION

A separate section in this regard is annexed and forms part of this Report.

15. SHAREHOLDERS SATISFACTION SURVEY

An online survey is posted on the Company's website at the following link <https://www.cumi-murugappa.com/survey/index.php>.

Shareholders who have not yet submitted the survey can go to the above link and take part in the survey. We request the shareholders who have not yet participated in the survey to use this link and provide us their valuable feedback.

16. INSTRUCTIONS TO SHAREHOLDERS

Shareholders holding shares in physical form are requested to address their communications regarding change in address/ contact details by quoting their folio number to the Company's RTA or to the Company by e-mailing to investorservices@cumi@murugappa.com. Shareholders holding shares in electronic form may send their communications regarding the above to their respective Depository Participants.

Shareholders are encouraged to avail nomination facility and approach RTA or their Depository Participant in this regard.

Shareholders are requested to register their e-mail ID with the RTA/ Depository Participant to enable the Company to send communications electronically.

Members are advised to intimate the details of their bank account to enable electronic remittance of dividend or alternatively for being incorporated in the dividend warrants. This would help to avoid fraudulent encashment of dividend warrants.

In case of members holding shares in physical form, all intimations are to be sent to Karvy Computershare Private Limited, (Unit: Carborundum Universal Limited), Karvy Selenium Tower B, Plot 31-32, Gachibowli, Financial District, Nanakramguda, Hyderabad - 500 032 the Registrars and Share Transfer Agent (RTA) of the Company.

In case of members holding shares in demat form, all intimations are to be sent to their respective Depository Participants (DPs). Shareholders may contact the Secretarial team in case of any query regarding their holdings in the Company.

Chennai
May 4, 2018

On behalf of the Board
M M Murugappan
Chairman

General Shareholder Information

A. Corporate Information

1. Registered office

Parry House, 43, Moore Street, Chennai 600 001.
Tel No.: +91-44-30006161; Fax.: +91-44-30006149;
Email: cumigeneral@cumi.murugappa.com
Website: www.cumi-murugappa.com

2. Corporate Identity Number

L29224TN1954PLC000318

3. Auditors

Statutory Auditor

Price Waterhouse Chartered Accountants LLP,
8th Floor, Prestige Palladium Bayan,
129-140, Greaves Road, Chennai 600006.

Cost Auditor

S Mahadevan & Co., Chennai, Cost Accountants,
No.1, 'Lakshmi Nivas', K.V. Colony, Third Street,
West Mambalam, Chennai 600 033.

Internal Auditor

Ernst & Young LLP, Chartered Accountants,
6th & 7th Floor, A Block, Tidel Park,
4, Rajiv Gandhi Salai, Taramani, Chennai 600 113.

Secretarial Auditor (for the FY 2017-18)

R Sridharan & Associates, Company Secretaries,
New No. 5, (Old No. 12), Sivasailam Street,
T Nagar, Chennai 600 017.

4. Address for correspondence

Compliance Officer

Rekha Surendhiran, Company Secretary,
Carborundum Universal Limited,
Parry House, 43, Moore Street, Chennai 600 001.
Tel: +91-44-30006141; Fax: +91-44-30006149;
E-mail: rekhas@cumi.murugappa.com

Investor Relationship Officer

Janani T A,
Carborundum Universal Limited,
Parry House, 43, Moore Street, Chennai 600 001;
Tel: +91-44-30006166; Fax: +91-44-30006149;
E-mail: investorservices@cumi.murugappa.com

5. Registrar and Share Transfer Agent

Karvy Computershare Private Limited,
Unit: Carborundum Universal Limited,
Karvy Selenium Tower B, Plot 31-32, Gachibowli,
Financial District, Nanakramguda, Hyderabad 500 032.
Tel: +91-40-67162222; Fax: +91-040-23420814;
Toll Free no.: 1800-345-4001;
E-mail: einward.ris@karvy.com; Website: www.karvy.com;
Contact Person: Mrs. Varalakshmi P - Asst. General Manager.

6. Financial Year

1st April to 31st March

7. Dates of Book Closure

Friday, 27th July 2018 to Friday, 3rd August 2018

8. Cost Audit Report

The Cost Audit report for financial year 2016-17 had been duly filed on 24th August 2017 through XBRL mode as mandated by the Ministry of Corporate Affairs within the due date. The due date for filing of Cost Audit report for the financial year 2017-18 is 30th September 2018.

9. Plant Locations

i. Plant locations of Carborundum Universal Limited

- (a) 655, Thiruvottiyur High Road, P B No. 2272, Tiruvottiyur, Chennai - 600019 Tamil Nadu.
- (b) Plot No.48, SIPCOT Industrial Complex, Hosur - 635126, Krishnagiri District, Tamil Nadu.
- (c) Gopalpur Chandigarh, P.O. Ganga Nagar, Kolkata 700132, West Bengal.
- (d) C-4 & C-5, Kamarajar Salai, MMDA Industrial Complex, Maraimalai Nagar - 603209 Kancheepuram District, Tamil Nadu.
- (e) F-1/2, F2 - F5, SIPCOT Industrial Park, Pondur "A" Village, Sriperumbudur - 602105. Kanchipuram District, Tamil Nadu.
- (f) K3, ASAHI Industrial Estate, Latherdeva Hoon, Mangalore Jhabrera Road, PO Jhabrera Tehsil Roorkee, Haridwar District, Uttarakhand - 247667.
- (g) PB No.1 Kalamassery, Development Plot P.O., Kalamassery 683109, Ernakulam District, Kerala.
- (h) PB No.3 Nalukettu, Koratty 680308, Trichur District, Kerala.
- (i) Bhatia Mines, Bhatia Western Railway, Jamnagar District, Gujarat 361315.
- (j) P.B No.2 Okha Port P.O., Jamnagar District, Gujarat 361350.
- (k) Plot No.7 & 18, Cochin Special Economic Zone (CSEZ), Kakkanad 682037, Kochi, Kerala.
- (l) Maniyar Hydroelectric Works, Maniyar P.O. Vadasserikara, Pathanamthitta District, Kerala 689662.
- (m) Plot No.8, Carborundum Universal SEZ, K.D.Plot, Kochi, Kerala.
- (n) Plot No.2 & 3, Carborundum Universal SEZ, K.D.Plot, Kochi, Kerala.
- (o) Plot No.4, Carborundum Universal SEZ, K.D. Plot, Kochi, Kerala.
- (p) Plot No.47, SIPCOT Industrial Complex, Hosur - 635126 Krishnagiri District, Tamil Nadu.
- (q) Super Refractories Division, Plot No.102 & 103, SIPCOT Industrial Complex (Phase II), Ranipet 632403, Tamil Nadu.
- (r) Super Refractories Division - Plant 2, Serkaddu Village, Vinnampalli Post, Katpadi Taluk, Vellore District - 632516, Tamil Nadu.
- (s) Plot nos. 35, 37, 48-51, Adhartal Industrial Estate, Jabalpur - 482004, Madhya Pradesh.

ii. Plant locations of Subsidiaries/Joint Ventures

- (a) Sterling Abrasives Ltd., Plot No.45/46 & Plot No.501, G I D C Estate, Odhav Road, Ahmedabad - 382415, Gujarat, India.
- (b) Sterling Abrasives Ltd., Plot No 501, Near Anup Engineering, G.I.D.C., Odhav Road, Ahmedabad - 382415. Gujarat. India.
- (c) Southern Energy Development Corporation Ltd., Plot no.29, Nallur PO, Aadichapuram, (Via) Mannargudi Taluk, Tiruvarur District - 614717, Tamil Nadu, India.
- (d) Murugappa Morgan Thermal Ceramics Ltd., Plot No.26 & 27, SIPCOT Industrial Complex, Ranipet - 632403, Tamil Nadu, India.
- (e) Murugappa Morgan Thermal Ceramics Ltd., Plot No.681, Moti Bhoyan Village, Sanand-Kalol Highway, Kalol Taluk, Gandhinagar, Dist., Gujarat - 382721, India.
- (f) Wendt (India) Ltd., 69/70, SIPCOT Industrial Complex, Hosur - 635126, Krishnagiri District, Tamil Nadu, India.
- (g) Volzhsky Abrasive Works, 404130 Volzhsky, Volgograd Region, 6th Autodoroge, 18, Russia.
- (h) Foskor Zirconia (Pty.) Ltd., 27 Selati Road, Phalaborwa, South Africa, 1389.
- (i) CUMI Australia Pty Ltd., 29 Gipps St, Carrington, NSW, 2294, Postal Address: PO Box 142, Carrington, NSW, 2294.
- (j) CUMI Australia Pty Ltd., 1/253 Beringarra Ave, Malaga, WA 6944, Postal Address: PO Box 2538, Malaga, WA 6944.
- (k) CUMI Australia Pty Ltd., 20, Waurin St, North Rockhampton, QLD 4701, Postal Address: PO Box 6494, Central QLD Mail Centre, Rockhampton, QLD 4702.
- (l) Wendt Grinding Technologies Ltd. 109/21 Moo 4, Eastern Seaboard Industrial Estate (Rayong), Tambol Pluakdaeng, Amphur Pluakdaeng, Rayong 21140, Thailand.

B. STOCK MARKET INFORMATION

1. Listing on stock exchanges and stock code

Stock Exchange	Stock Code
National Stock Exchange of India Ltd. Exchange Plaza, Bandra-Kurla Complex, Bandra (E), Mumbai 400 051	CARBORUNIV
BSE Ltd. Phiroze Jeejeebhoy Towers, Dalal Street, Mumbai 400 001	513375

Annual listing fees has been paid to the above stock exchanges.

The International Securities Identification Number (ISIN): INE120A01034

2. Depositories Connectivity

The Company has signed agreements with the following depositories to provide the facility of holding equity shares in dematerialised form:

National Securities Depository Ltd. (NSDL)	www.nsdl.co.in
Central Depository Services (India) Ltd. (CDSL)	www.cdslindia.com

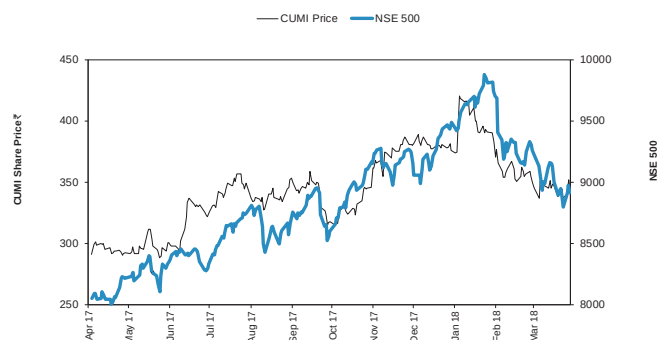
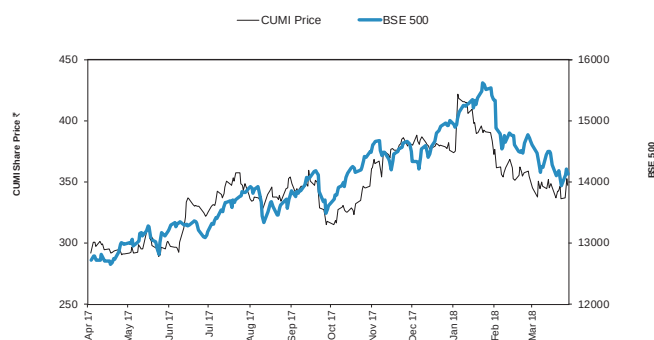
3. Share price information

a) Monthly market price data

Month	BSE Limited			National Stock Exchange of India Limited		
	High ₹	Low ₹	Traded Volume (No. of shares)	High ₹	Low ₹	Traded Volume (No. of shares)
April 2017	305.40	288.00	580921	306.00	288.40	1882888
May 2017	317.00	285.65	1318269	317.00	285.00	3405224
June 2017	340.00	291.75	409194	340.00	292.00	2773633
July 2017	364.80	325.40	671004	365.00	324.10	1803712
August 2017	360.15	320.80	1512506	362.00	321.95	2663535
September 2017	363.75	311.95	562887	362.90	313.00	1962763
October 2017	368.50	312.35	816823	369.00	313.85	4223462
November 2017	392.35	350.90	748364	392.25	351.30	2924652
December 2017	395.00	362.15	236720	395.80	369.00	1774705
January 2018	428.00	368.00	782085	427.00	367.15	3291639
February 2018	395.00	333.00	1259002	382.00	341.00	1882934
March 2018	354.00	331.30	3382258	354.70	332.20	2288908

b) Performance in comparison with BSE 500 and NSE 500

Stock market snapshot of CUMI Price v/s BSE 500 and NSE 500 during 1st April 2017 to 31st March 2018 is given below:



C. OTHER INFORMATION

1. SHARE CAPITAL DETAILS

(a) Outstanding shares

The total number of outstanding shares as on 31st March 2018 is 188,955,751. All the shares have been fully paid up. As on 31st March 2018, 188,955,751 equity shares constituting 98.45% of the total paid up capital of the Company have been dematerialised.

(b) Shareholding Pattern/Distribution as on 31st March 2018

(i) Shareholding Pattern

Category	% to total paid up Capital
Promoter/Promoter Group	42.42
Foreign Institutional Investors	4.62
Financial Institutions including Insurance Companies	2.59
Non-resident (NRI's/OCBs/FIIs)	1.65
Mutual Funds	20.98
Banks	0.04
Indian Bodies Corporate	6.28
Individuals	20.97
Others - Trusts/Clearing Members	0.45
Total	100.00

(ii) Distribution of Shareholding

Sl. No.	Category (Shares)	No. of holders	% to holders	No. of Shares	% to Equity
1.	1 - 100	13033	47.25	483079	0.26
2.	101 - 200	2682	9.72	471683	0.25
3.	201 - 500	3642	13.20	1371136	0.73
4.	501 - 1000	2748	9.96	2231263	1.18
5.	1001 - 5000	4128	14.97	10245642	5.42
6.	5001 - 10000	680	2.47	4979344	2.63
7.	10001 and above	669	2.43	169173604	89.53
	Total	27582	100.00	188955751	100.00

2. Outstanding GDR/ADR/Warrants etc.

Under the CUMI Employees Stock Option Scheme, 2007, the following Stock Options are outstanding as on 31st March 2018:

Sl. No.	Grant Date	Exercise Price in (₹)	Net Outstanding Options ^(a)	Likely impact on full exercise	
				Share Capital ₹ million	Share Premium ₹ million
1	29-Sep-07	91.80	-	-	-
2	24-Jul-08	61.40	2,052	0.00	0.13
3	27-Jan-11	125.08	275,456	0.28	34.18
4	27-Jan-11	125.08	111,416	0.11	13.82
5	05-Aug-11	146.00	190,080	0.19	27.56
6	04-Feb-12	155.00	76,812	0.08	11.83
Total			655,816	9.66	87.52

Under the CUMI Employee Stock Option Plan 2016, the details of stock Options granted and outstanding are as follows:

Sl. No.	Grant Date	Exercise Price in (₹)	Net Outstanding Options ^(a)	Likely impact on full exercise	
				Share Capital ₹ million	Share Premium ₹ million
1	04-Feb-17	257.55	534,326*	0.53	137.08
2	14-Feb-18	367.20	50,870	0.05	18.63
3	14-Feb-18	367.20	19,344	0.02	7.08
Total			604,540	0.60	162.7

Note:

- (a) In respect of the Options referred in serial number 4 above of the Employee Stock Option Scheme 2007, each Option gives a right to the holder to subscribe to one equity share of ₹1 each, within 3 years from the date of vesting, in respect of 50 per cent of the first tranche and 6 years from the date of vesting in respect of the remaining 50 per cent of the first tranche and all subsequent tranches. The vesting of Options granted, is based on the annual performance rating and as per the following schedule - 40% on expiry of the first year from the date of grant and 30% each on expiry of the second and third years from the date of grant.
- (b) In respect of all other Options granted under the Employee Stock Option Scheme 2007, each Option gives a right to the holder to subscribe to one equity share of ₹1/- each, within 3 years from the date of vesting in respect of the first tranche and 6 years from the date of vesting in respect of subsequent tranches. The vesting of Options, is based on the annual performance rating and as per the following schedule - 20% each on expiry of the first and second year from the date of grant and 30% each on expiry of third and fourth year from the date of grant.
- (c) In respect of Options referred in serial number 1 and 2 above of the Employee Stock Option Plan 2016, each Option gives a right to the holder to subscribe to one equity share of ₹1/- each, within 5 years from the date of vesting. The vesting of Options, is based on the annual performance rating and as per the following schedule - 20% each on expiry of the first and second year from the date of grant and 30% each on expiry of third and fourth year from the date of grant.

- d) In respect of Options referred in serial number 3 above of the Employee Stock Option Plan 2016, each Option gives a right to the holder to subscribe to one equity share of ₹1/- each, within 5 years from the date of vesting. The vesting of Options, is based on the annual performance rating and as per the following schedule - 25% each on expiry of the first year from the date of grant and 37.50% each on expiry of second and third year from the date of grant.

Other than the above, there are no outstanding GDRs or ADRs or convertible instruments.

* excludes 370,400 Options cancelled during the year.

3. Share Transfer Process

The applications for transfer of shares and other requests from shareholders holding shares in physical form are processed by Karvy Computershare Private Ltd., Company's Registrar and Share Transfer Agent. The Board has delegated the power to approve transfers to the Stakeholders Relationship Committee. In respect of requests for transfer of shares upto 5000, the approving authority is the Managing Director and Company Secretary. In respect of transmission of shares, all requests are considered for approval by the Stakeholders Relationship Committee.

4. Unclaimed Shares

Particulars	No. of Share holders	No. of Shares
Aggregate number of shareholders and the outstanding shares lying in the Unclaimed Suspense Account at the beginning of the year	521	746,250
Number of Shareholders whose shares have been transferred during the year from the Unclaimed Suspense Account to the Investor Education and Protection Fund Authority pursuant to Section 124(6) of the Companies Act, 2013*	321	400,380
Number of Shareholders who approached the Company for transfer of shares from the Unclaimed Suspense Account during the year in response to the Company's reminders	14	56,250
Number of shareholders to whom shares were transferred from the Unclaimed Suspense Account during the year	14	56,250
Aggregate number of shareholders and the outstanding shares lying in the Unclaimed Suspense Account at the end of the year	186	289,620

* In respect of the shares transferred to the Investor Education and Protection Fund Authority, shareholders are entitled to claim these shares from the Investor Education and Protection Fund Authority by making an application in form IEPF-5 available on website <http://www.iepf.gov.in/IEPFA/corporates.html> along with the requisite documents.

Shareholders are entitled to claim the shares lying in the Unclaimed Suspense Account after complying with laid down procedures. On receipt of a claim, the Company will after verification, either credit the shares to the shareholder's demat account or deliver the physical certificate after re-materialising the same, as opted by the shareholder.

All corporate benefits in terms of securities accruing on these shares like bonus shares, sub-division, etc. will also be credited to the Unclaimed

Suspense Account and the voting rights on these shares will remain frozen until the claim is made by the rightful owner.

5. AGM & Dividend details

(i) Forthcoming Annual General Meeting

Friday, the 3rd August 2018 at 3.00 P.M. IST at TTK Auditorium, Music Academy, 168 (Old No. 306) TTK Road, Royapettah, Chennai 600 014. Proxies, to be valid, must be lodged at the registered office of the Company not later than 48 hours before commencement of the meeting.

(ii) Dividend

The Board at its meeting held on 14th February 2018 had approved payment of an interim dividend on the equity shares of the Company at 100% i.e., ₹1.00 per equity share which was paid on 5th March 2018. The Board at its meeting held on 4th May 2018 has further recommended a payment of final dividend at 125% i.e., ₹1.25/- per equity share for the year ended 31st March 2018. The final dividend will be paid within 7 days upon declaration by the shareholders at the ensuing Annual General Meeting i.e. by Friday, 10th August 2018.

(iii) Unclaimed Dividend

Dividends remaining unclaimed/unpaid for a period of 7 years shall be transferred to the Investor Education Protection Fund (IEPF). The details of dividend paid by the Company and the respective due dates of transfer of the unclaimed/unencashed dividend to the IEPF of the Central Government are as below:

Financial year to which dividend relates	Date of Declaration	Due date of transfer to IEPF
2010-11 (Final)	05-08-2011	11-09-2018
2011-12 (Interim)	04-02-2012	12-03-2019
2011-12 (Final)	07-08-2012	13-09-2019
2012-13 (Interim)	05-02-2013	14-03-2020
2012-13 (Final)	30-07-2013	05-09-2020
2013-14 (Interim)	31-01-2014	09-03-2021
2013-14 (Final)	01-08-2014	07-09-2021
2014-15 (Interim)	29-01-2015	07-03-2022
2014-15 (Final)	03-08-2015	09-09-2022
2015-16 (Interim - I)	05-02-2016	13-03-2023
2015-16 (Interim - II)	11-03-2016	17-04-2023
2016-17 (Interim)	04-02-2017	13-03-2024
2016-17 (Final)	31-07-2017	06-09-2024
2017-18 (Interim)	14-02-2018	23-03-2025

The Company has transferred unclaimed/ unencashed dividends up to interim dividend for FY 2011-12 to the IEPF during the year ended 31st March 2018. The Company has uploaded the details relating to unclaimed dividends on its website for the benefit of its shareholders.

(iv) Shares transferred to IEPF

Pursuant to the notification of Section 124(6) of the Companies Act, 2013 and Investor Education and Authority (Accounting, Audit, Transfer and Refund) Rules, 2016, the Company is required to transfer shares in respect of which dividend has not been paid or claimed for seven consecutive years or more. During the year, the Company transferred 515,895 equity shares pertaining to 427 holders to the Investor Education and Protection Fund Authority pursuant to Section 124(6) of the Companies Act, 2013 and the Companies Investor Education and Protection Fund Authority (Accounting, Audit, Transfer and Refund) Rules, 2016 (amended from time to time). The Company had issued the requisite notice to the shareholders concerned intimating them of the impending transfer of shares and had simultaneously published a notice in leading dailies. Further, the Company has uploaded the details of the same on its website for the benefit of its shareholders.

Shareholders are entitled to claim the shares from the Investor Education and Protection Fund Authority by making an application online in Form IEPF-5 available on the website <http://www.iepf.gov.in/IEPFA/refund.html> along with the requisite documents. Shareholders are requested to contact the Company's RTA - Karvy Computershare Private Limited or the Company in this regard. The contact details are available in the Corporate Information section of this Report.

Chennai
May 4, 2018

On behalf of the Board
M M Murugappan
Chairman

Declaration on Code of Conduct

To

The Members of Carborundum Universal Limited

This is to confirm that that the Board has laid down a Code of Conduct for all Board members and Senior Management of Company.

It is further confirmed that all Directors and Senior Management personnel of the Company have affirmed compliance with the Code of Conduct of the Company as at 31st March 2018, as envisaged in regulation 34(3) read with Schedule V of the Listing Regulations.

Chennai
May 4, 2018

On behalf of the Board
K Srinivasan
Managing Director

The Code of conduct is uploaded and available at the following link <http://www.cumi-murugappa.com/policies.html>.

Certificate on Corporate Governance

The Members

CARBORUNDUM UNIVERSAL LIMITED

Parry House,
43, Moore Street,
Chennai – 600 001

We have examined all relevant records of **Carborundum Universal Limited**, (CIN:L29224TN1954PLC000318) having its Registered Office at Parry House, 43, Moore Street, Chennai - 600 001, for the purpose of certifying compliance of the conditions of Corporate Governance under Regulation 17 to 27 and clauses (b) to (i) of regulation 46(2) and para C, D and E of Schedule V to the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 read with Regulation 34(3) of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 for the financial year ended March 31, 2018. We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of certification.

The compliance of the conditions of Corporate Governance is the responsibility of the management. Our examination was limited to the procedures and implementation thereof, adopted by the Company for ensuring the compliance of the conditions of Corporate Governance.

This Certificate is neither an assurance as to the future viability of the Company nor of the efficiency or effectiveness with which the management has conducted the affairs of the Company. It is neither an audit nor an expression of opinion on the financial statements of the Company.

In our opinion and to the best of our information and according to the explanations given to us and the representations made by the Management, we certify that the Company has complied regarding the conditions of Corporate Governance as stipulated under the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 for the financial year ended 31st March, 2018.

May 4, 2018
Chennai

For R Sridharan & Associates

Company Secretaries

CS R Sridharan

FCS No. 4775

CP No. 3239

UIN: S2003TN063400

Independent Auditors' Report

To

The Members of Carborundum Universal Limited Report on the Consolidated Indian Accounting Standards (Ind AS) Financial Statements

1. We have audited the accompanying consolidated Ind AS financial statements of Carborundum Universal Limited (the 'Parent') and its subsidiaries (the Parent and its subsidiaries together referred to as "the Group"), its jointly controlled entities and an associate company along with its wholly owned subsidiaries ('Associate'); (refer Note 32, 6A and 6B to the attached consolidated financial statements), comprising of the Consolidated Balance Sheet as at March 31, 2018, the Consolidated Statement of Profit and Loss (including Other Comprehensive Income), the Consolidated Cash Flow Statement and the Consolidated Statement of Changes in Equity for the year then ended and a summary of the significant accounting policies and other explanatory information prepared based on the relevant records (hereinafter referred to as "the Consolidated Ind AS Financial Statements").

Management's Responsibility for the Consolidated Ind AS Financial Statements

2. The Parent's Board of Directors is responsible for the preparation of these consolidated Ind AS financial statements in terms of the requirements of the Companies Act, 2013 (hereinafter referred to as "the Act") that give a true and fair view of the consolidated financial position, consolidated financial performance, consolidated cash flows and changes in equity of the Group including its jointly controlled entities and an associate company along with its wholly owned subsidiaries in accordance with accounting principles generally accepted in India including the Indian Accounting Standards specified in the Companies (Indian Accounting Standards) Rules, 2015 (as amended) under Section 133 of the Act. The Parent's Board of Directors is also responsible for ensuring accuracy of records including financial information considered necessary for the preparation of consolidated Ind AS financial statements. The respective Board of Directors of the companies included in the Group and of jointly controlled entities and an associate along with its wholly owned subsidiaries are responsible for maintenance of adequate accounting records in accordance with the provisions of the Act, for safeguarding the assets of the Group and jointly controlled entities and an associate along with its wholly owned subsidiaries respectively and for preventing and detecting frauds and other irregularities; the selection and application of appropriate accounting policies; making judgements and estimates that are reasonable and prudent; and the design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error, which has been used for the purpose of preparation of the consolidated Ind AS financial statements by the Directors of the Parent, as aforesaid.

Auditors' Responsibility

3. Our responsibility is to express an opinion on these consolidated Ind AS financial statements based on our audit. While conducting the audit, we have taken into account the provisions of the Act and the Rules made thereunder including the accounting standards and matters which are required to be included in the audit report.
4. We conducted our audit of the consolidated Ind AS financial statements in accordance with the Standards on Auditing specified under Section 143(10) of the Act and other applicable authoritative pronouncements issued by the Institute of Chartered Accountants of India. Those Standards and pronouncements require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the consolidated Ind AS financial statements are free from material misstatement.
5. An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated Ind AS financial statements. The procedures selected depend on the auditors' judgement, including the assessment of the risks of material misstatement of the consolidated Ind AS financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal financial control relevant to the Parent's preparation of the consolidated Ind AS financial statements that give a true and fair view, in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of the accounting estimates made by the Parent's Board of Directors, as well as evaluating the overall presentation of the consolidated Ind AS financial statements.
6. We believe that the audit evidence obtained by us and the audit evidence obtained by the other auditors in terms of their reports referred to in sub-paragraph 8 of the Other Matters paragraph below, other than the unaudited financial statements as certified by the management and referred to in sub-paragraph 9 of the Other Matters paragraph below, is sufficient and appropriate to provide a basis for our audit opinion on the consolidated Ind AS financial statements.

Opinion

7. In our opinion and to the best of our information and according to the explanations given to us, the aforesaid consolidated Ind AS financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India of the consolidated state of affairs of the Group, its jointly controlled entities and an associate along with its wholly owned subsidiaries as at March 31, 2018 and their consolidated total comprehensive income (comprising of consolidated profit and consolidated other comprehensive income), their consolidated cash flows and consolidated changes in equity for the year ended on that date.

Independent Auditors' Report

Other Matters

8. We did not audit the financial statements/financial information of eleven subsidiaries whose financial statements/financial information reflect total assets of ₹12,218 million and net assets of ₹9,374 million as at March 31, 2018, total revenue of ₹10,402 million, total comprehensive income (comprising of profit and other comprehensive income) of ₹1,398 million and net cash out flows amounting to ₹124 million for the year ended on that date, as considered in the consolidated Ind AS financial statements. The consolidated Ind AS financial statements/financial information also include the Group's share of total comprehensive income (comprising of profit and other comprehensive income) of ₹95 million for the year ended March 31, 2018 as considered in the consolidated Ind AS financial statements, in respect of two jointly controlled entities whose financial statements have not been audited by us. These financial statements/financial information have been audited by other auditors whose reports have been furnished to us by the Management, and our opinion on the consolidated Ind AS financial statements insofar as it relates to the amounts and disclosures included in respect of these subsidiaries and jointly controlled entities and our report in terms of sub-section (3) of Section 143 of the Act insofar as it relates to the aforesaid subsidiaries and jointly controlled entities is based solely on the reports of the other auditors.
9. We did not audit the financial statements/financial information of one subsidiary, whose financial statements/financial information reflect total assets of ₹Nil and net assets of ₹Nil as at March 31, 2018, total revenue of ₹0.0 million, total comprehensive income (comprising of loss and other comprehensive income) of ₹0.1 million and net cash outflows amounting to ₹0.6 million for the year ended on that date, as considered in the consolidated Ind AS financial statements. These financial statements/financial information are unaudited and have been furnished to us by the Management, and our opinion on the consolidated Ind AS financial statements insofar as it relates to the amounts and disclosures included in respect of this subsidiary, is based solely on such unaudited financial statements/financial information. In our opinion and according to the information and explanations given to us by the Management, these financial statements/financial information, are not material to the Group.
10. The financial statements/financial information of eight subsidiaries located outside India, included in the consolidated financial statements, which constitute total assets of ₹10,282 million and net assets of ₹7,768 million as at March 31, 2018, total revenue of ₹8,936 million, total comprehensive income (comprising of profit and other comprehensive income) of ₹1,091 million and net cash flows amounting to ₹66 million for the year then ended have been prepared in accordance with accounting principles generally accepted in their respective countries and have been audited by other auditors under generally accepted auditing standards applicable in their respective countries. The Parent's management has converted the financial statements/financial information of such subsidiaries

located outside India from the accounting principles generally accepted in their respective countries to the accounting principles generally accepted in India. We have audited these conversion adjustments made by the Parent's management. Our opinion in so far as it relates to the balances and affairs of such subsidiaries located outside India is based on the report of other auditors and the conversion adjustments prepared by the management of the Parent and audited by us.

11. The consolidated Ind AS financial statements for the year ended March 31, 2017, were audited by another firm of chartered accountants under the Companies Act, 2013 who, vide their report dated May 9, 2017, expressed an unmodified opinion on those consolidated financial statements.

Our opinion on the consolidated Ind AS financial statements and our report on Other Legal and Regulatory Requirements below, is not modified in respect of the above matters with respect to our reliance on the work done and the reports of the other auditors and the financial statements certified by the Parent's Management.

Report on Other Legal and Regulatory Requirements

12. As required by Section 143 (3) of the Act, we report, to the extent applicable, that:
- (a) We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit of the aforesaid consolidated Ind AS financial statements.
 - (b) In our opinion, proper books of account as required by law maintained by the Parent, its subsidiaries included in the Group, jointly controlled entities and an associate company incorporated in India including relevant records relating to preparation of the aforesaid consolidated Ind AS financial statements have been kept so far as it appears from our examination of those books and records of the Parent and the reports of the other auditors.
 - (c) The Consolidated Balance Sheet, the Consolidated Statement of Profit and Loss (including other comprehensive income), Consolidated Cash Flow Statement and the Consolidated Statement of Changes in Equity dealt with by this Report are in agreement with the relevant books of account maintained by the Parent, its subsidiaries included in the Group, jointly controlled entities and associate including relevant records relating to the preparation of the consolidated Ind AS financial statements.
 - (d) In our opinion, the aforesaid consolidated Ind AS financial statements comply with the Indian Accounting Standards specified under Section 133 of the Act.
 - (e) On the basis of the written representations received from the directors of the Parent as on March 31, 2018 taken on record by the Board of Directors of the Parent and the reports of the statutory auditors of its subsidiary companies, jointly controlled entities and associate company incorporated in India, none of the directors of the Parent, its subsidiaries included in the Group, its jointly controlled entities and an associate incorporated in India

Independent Auditors' Report

are disqualified as on March 31, 2018 from being appointed as a director in terms of Section 164 (2) of the Act.

- (f) With respect to the adequacy of the internal financial controls with reference to the financial statements of the Parent, its subsidiary companies, jointly controlled entities and associate incorporated in India and the operating effectiveness of such controls, refer to our separate Report in Annexure A.
- (g) With respect to the other matters to be included in the Auditors' Report in accordance with Rule 11 of the Companies (Audit and Auditors) Rules, 2014, in our opinion and to the best of our information and according to the explanations given to us:
 - i. The consolidated Ind AS financial statements disclose the impact of pending litigations as at March 31, 2018 on the consolidated financial position of the Group, its jointly controlled entities and the associate company along with its wholly owned subsidiaries - Refer Note 33 to the consolidated Ind AS financial statements.
 - ii. The Parent, its subsidiary companies, jointly controlled entities and the associate company did not have any

material foreseeable losses on long-term contracts including derivative contracts as at March 31, 2018.

- iii. There has been no delay in transferring amounts, required to be transferred, to the Investor Education and Protection Fund by the Parent and its subsidiary companies, jointly controlled entities and an associate company incorporated in India during the year ended March 31, 2018.
- iv. The reporting on disclosures relating to specified bank notes is not applicable to the Group for the year ended March 31, 2018.

For Price Waterhouse Chartered Accountants LLP
Firm Registration Number: 012754N/N500016
Chartered Accountants

Subramanian Vivek
Partner

Membership No. 100332

Place: Chennai
Date: May 04, 2018

Annexure A to Independent Auditors' Report

Referred to in paragraph 12(f) of the Independent Auditors' Report of even date to the members of Carborundum Universal Limited on the consolidated financial statements for the year ended March 31, 2018

Report on the Internal Financial Controls under Clause (i) of Sub-section 3 of Section 143 of the Act

1. In conjunction with our audit of the consolidated financial statements of the Company as of and for the year ended March 31, 2018, we have audited the internal financial controls over financial reporting of Carborundum Universal Limited (hereinafter referred to as "the Parent") and its subsidiary companies, its jointly controlled entities and an associate, which are companies incorporated in India, as of that date.

Management's Responsibility for Internal Financial Controls

2. The respective Board of Directors of the Parent, its subsidiary companies, its jointly controlled entities and an associate, to whom reporting under clause (i) of sub section 3 of Section 143 of the Act in respect of the adequacy of the internal financial controls over financial reporting is applicable, which are companies incorporated in India, are responsible for establishing and maintaining internal financial controls based on internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting issued by the Institute of Chartered Accountants of India (ICAI). These responsibilities include the design, implementation and maintenance of adequate internal financial controls that were operating effectively for ensuring the orderly and efficient conduct of its business, including adherence to the respective Company's policies, the safeguarding of its assets, the prevention and detection of frauds and errors, the accuracy and

completeness of the accounting records and the timely preparation of reliable financial information, as required under the Act.

Auditor's Responsibility

3. Our responsibility is to express an opinion on the Company's internal financial controls over financial reporting based on our audit. We conducted our audit in accordance with the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting (the "Guidance Note") issued by the ICAI and the Standards on Auditing deemed to be prescribed under section 143(10) of the Companies Act, 2013, to the extent applicable to an audit of internal financial controls, both applicable to an audit of internal financial controls and issued by the ICAI. Those Standards and the Guidance Note require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether adequate internal financial controls over financial reporting was established and maintained and if such controls operated effectively in all material respects.
4. Our audit involves performing procedures to obtain audit evidence about the adequacy of the internal financial controls system over financial reporting and their operating effectiveness. Our audit of internal financial controls over financial reporting included obtaining an understanding of internal financial controls over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. The procedures selected

Independent Auditors' Report

depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error.

5. We believe that the audit evidence we have obtained and the audit evidence obtained by the other auditors in terms of their reports referred to in the Other Matters paragraph below, is sufficient and appropriate to provide a basis for our audit opinion on the Company's internal financial controls system over financial reporting.

Meaning of Internal Financial Controls Over Financial Reporting

6. A company's internal financial control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal financial control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorisations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorised acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Inherent Limitations of Internal Financial Controls Over Financial Reporting

7. Because of the inherent limitations of internal financial controls over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to

error or fraud may occur and not be detected. Also, projections of any evaluation of the internal financial controls over financial reporting to future periods are subject to the risk that the internal financial control over financial reporting may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Opinion

8. In our opinion, the Parent, its subsidiary companies, its jointly controlled entities and an associate, which are companies incorporated in India, have, in all material respects, an adequate internal financial controls system over financial reporting and such internal financial controls over financial reporting were operating effectively as at March 31, 2018, based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting issued by the Institute of Chartered Accountants of India.

Other Matters

9. Our aforesaid reports under Section 143(3)(i) of the Act on the adequacy and operating effectiveness of the internal financial controls over financial reporting insofar as it relates to three subsidiary companies and two jointly controlled entities, which are companies incorporated in India, is based on the corresponding reports of the auditors of such companies incorporated in India. Our opinion is not qualified in respect of this matter.

For Price Waterhouse Chartered Accountants LLP

Firm Registration Number: 012754N/N500016

Chartered Accountants

Subramanian Vivek

Partner

Membership No. 100332

Place: Chennai

Date: May 04, 2018

Consolidated Balance Sheet

(in Indian Rupees million, unless otherwise stated)

Particulars	Notes	As at 31.03.2018	As at 31.03.2017
ASSETS			
Non-current assets			
(a) Property, plant and equipment	4A	6144.01	5817.73
(b) Capital work-in-progress	4B	302.51	725.64
(c) Goodwill	5A	1151.41	1147.95
(d) Other Intangible assets	5B(i)	61.03	82.38
(e) Intangible assets under development	5B(ii)	0.29	0.34
(f) Investment accounted for using the equity method			
(i) Investments in associate	6A	484.89	447.77
(ii) Investments in joint ventures	6B	587.27	614.31
(g) Financial assets			
(i) Investments	6C(i)	160.29	132.85
(ii) Other financial assets	7A	120.76	110.80
(h) Deferred tax assets (net)	8A	109.64	89.98
(i) Other non-current assets	9A	310.91	342.87
Total non-current assets		9433.01	9512.62
Current assets			
(a) Inventories	10	4380.24	3866.97
(b) Financial assets			
(i) Other Investments	6C(ii)	570.49	49.64
(ii) Trade receivables	11	4750.60	3805.83
(iii) Cash and Cash equivalents	12A	1276.34	1248.39
(iv) Bank balances other than (iii) above	12B	12.76	12.21
(v) Other Financial assets	7B	54.66	54.48
(c) Other Current assets	9B	507.11	672.08
Total current assets		11552.20	9709.60
Total Assets		20985.21	19222.22
EQUITY AND LIABILITIES			
Equity			
(a) Equity share capital	13	188.96	188.66
(b) Other equity	14	15454.54	13639.20
Equity attributable to owners of the Company		15643.50	13827.86
Non-controlling interests	15	614.74	656.63
Total Equity		16258.24	14484.49
Non-current liabilities			
(a) Financial liabilities			
Borrowings	16	66.32	66.81
(b) Provisions	17A	91.69	75.52
(c) Deferred tax liabilities (net)	8B	383.15	463.95
Total non-current liabilities		541.16	606.28
Current liabilities			
(a) Financial liabilities			
(i) Borrowings	18	1181.59	1424.47
(ii) Trade payables	19	1975.67	1650.23
(iii) Other financial liabilities	20	667.61	670.81
(b) Provisions	17B	170.59	161.34
(c) Other current liabilities	21	190.35	224.60
Total Current liabilities		4185.81	4131.45
Total Liabilities		4726.97	4737.73
Total Equity and Liabilities		20985.21	19222.22

See accompanying notes forming part of the consolidated financial statements

In terms of our report attached
For **Price Waterhouse Chartered Accountants LLP**
Firm Registration Number: 012754N/N500016
Chartered Accountants

Subramanian Vivek

Partner

Membership Number: 100332

Chennai

May 04, 2018

M M Murugappan

Chairman

P Padmanabhan

Senior Associate Vice President - Accounts and Taxation

On behalf of the Board

K Srinivasan

Managing Director

Rekha Surendhiran

Company Secretary

Consolidated Statement of Profit and Loss

(in Indian Rupees million, unless otherwise stated)

S.No.	Particulars	Notes	For the year	
			2017-18	2016-17
I	Revenue from Operations	22	23951.68	22323.45
II	Other Income	23	229.17	228.00
III	Total Income		24180.85	22551.45
IV	Expenses			
	Cost of material consumed		6465.27	6233.30
	Purchase of stock-in-trade		1340.35	1117.24
	Changes in inventories of finished goods, stock-in-trade and work-in-progress	24	243.67	(2.39)
	Excise duty on sale of goods		274.07	1198.59
	Employee benefit expense	25	3109.14	2735.06
	Finance costs	26	86.12	181.20
	Depreciation and amortisation expense	27	1059.95	964.81
	Other expenses	28	8532.73	7695.88
	Total expenses (IV)		21111.30	20123.69
V	Profit from operations before share of profit of equity accounted investees and income tax [III] - [IV]		3069.55	2427.76
VI	Share of profit of associate (net of tax)	6A	52.32	48.05
VII	Share of profit of joint ventures (net of tax)	6B	94.28	142.83
VIII	Profit before tax [V] + [VI] + [VII]		3216.15	2618.64
IX	Tax expense			
	(1) Current tax	29A	1114.72	810.61
	(2) Deferred tax	8	(94.45)	(29.77)
	Total tax [IX]		1020.27	780.84
X	Profit for the year [VIII] - [IX]		2195.88	1837.80
XI	Other Comprehensive Income [OCI]			
A	(i) Items that will not be reclassified to profit or loss			
	(a) Remeasurement of the defined benefit plans		3.59	(28.39)
	(b) Equity instruments through other comprehensive income		26.63	(54.16)
	(c) Share of OCI in associate and joint ventures, to the extent not to be reclassified to profit or loss		2.34	(3.70)
	(ii) Income tax relating to items that will not be reclassified to profit or loss	29B	-	-
			32.56	(86.25)
B	(i) Items that will be reclassified to profit or loss			
	(a) Exchange differences in translating the financial statements of foreign operations		(19.92)	476.91
	(b) Effective portion of gain and loss on designated portion of hedging instruments in a cash flow hedge		(3.94)	3.81
	(c) Share of OCI in associate and joint ventures, to the extent that may be reclassified to profit or loss		7.34	(0.07)
	(ii) Income tax relating to items that will be reclassified to profit or loss	29B	1.33	(1.26)
			(15.19)	479.39
	Total Other Comprehensive Income [XI]		17.37	393.14
XII	Total Comprehensive Income [X] + [XI]		2213.25	2230.94
	Profit for the year attributable to: [X]		2195.88	1837.80
	- Owners of the Company		2155.96	1748.67
	- Non-Controlling Interest		39.92	89.13
	Other Comprehensive Income: [XI]		17.37	393.14
	- Owners of the Company		18.47	392.87
	- Non-Controlling Interest		(1.10)	0.27
	Total Comprehensive Income: [XII]		2213.25	2230.94
	- Owners of the Company		2174.43	2141.54
	- Non-Controlling Interest		38.82	89.40
XIII	Earnings per share (₹1 each) on Profit for the year (X)	30		
	- Basic		11.42	9.28
	- Diluted		11.39	9.25

See accompanying notes forming part of the consolidated financial statements

In terms of our report attached

For **Price Waterhouse Chartered Accountants LLP**

Firm Registration Number: 012754N/N500016

Chartered Accountants

Subramanian Vivek

Partner

Membership Number: 100332

Chennai

May 04, 2018

On behalf of the Board

M M Murugappan

Chairman

P Padmanabhan

Senior Associate Vice President - Accounts and Taxation

K Srinivasan

Managing Director

Rekha Surendhiran

Company Secretary

Consolidated Statement of changes in other equity (in Indian Rupees million, unless otherwise stated)

A. Equity share capital - Refer Note: 13

Balance as at March 31, 2016	188.38
Changes in equity share capital during the year	
Shares issued against ESOP Scheme/Plan	0.28
Balance as at March 31, 2017	188.66
Changes in equity share capital during the year	
Shares issued against ESOP Scheme/Plan	0.30
Balance as at March 31, 2018	188.96

B. Statement of changes in other equity - Refer Note: 14 & 15

Particulars	Reserves and Surplus - Refer Note: 14A							Items of Other comprehensive income - Refer Note 14B				Share application money pending allotment - Refer Note: 14C	Attributable to owners of the parent - Refer Note:14 [NCI] - Refer Note: 15	Non-controlling interest - Refer Note: 15	Total	
	Profit on Forfeiture of Shares / Warrants	Capital redemption reserve	Capital reserve on consolidation	Securities premium	General Reserve	Share options outstanding account	Retained Earnings	Reserve for equity instruments	Effective portion of Cash flow hedge	Foreign currency translation reserve	Revaluation surplus					
																(a)
Balance at the beginning of the year - March 31, 2016	6.03	27.68	720.22	166.61	5730.94	11.77	5142.77	111.95	0.30	(207.79)	23.74	11734.22	621.61	12355.83		
Profit for the year							1748.67					1748.67	89.13	1837.80		
Other Comprehensive income for the year							(31.33)	(54.16)	1.52	476.84		392.87	0.27	393.14		
Total Comprehensive income for the year	-	-	-	-	-	-	1717.34	(54.16)	1.52	476.84	-	2141.54	89.40	2230.94		
Additions during the year			(15.57)	27.54		4.31						16.28		16.28		
Interim dividend paid during the year							(188.63)					(188.63)		(188.63)		
Dividend tax paid during the year							(15.75)					(15.75)		(15.75)		
Dividend tax paid by subsidiaries and Joint ventures							(48.46)					(48.46)		(48.46)		
Transfer to General Reserve					500.00		(500.00)					-		-		
Dividend paid to NCI and its relevant tax							-					-	(68.38)	(68.38)		
Translation impact on foreign subsidiaries NCI portion							-					-	14.00	14.00		
Balance at the end of the year - March 31, 2017	6.03	27.68	704.65	194.15	6230.94	16.08	6107.27	57.79	1.82	269.05	23.74	13639.20	656.63	14295.83		
Profit for the year							2155.96					2155.96	39.92	2195.88		
Other Comprehensive income for the year							5.99	26.63	(1.57)	(12.58)		18.47	(1.10)	17.37		
Total Comprehensive income for the year	-	-	-	-	-	-	2161.95	26.63	(1.57)	(12.58)	-	2174.43	38.82	2213.25		
Additions during the year			2.12	32.04		14.76						48.92		48.92		
Share application money received pending for allotment												0.23	0.23			
Final dividend paid during the year							(141.51)					(141.51)		(141.51)		
Dividend tax on Final dividend paid during the year							(14.92)					(14.92)		(14.92)		
Interim dividend paid during the year							(188.93)					(188.93)		(188.93)		
Dividend tax paid during the year							(20.31)					(20.31)		(20.31)		
Dividend tax paid by subsidiaries and Joint ventures							(42.57)					(42.57)		(42.57)		
Transfer to General Reserve					500.00		(500.00)					-		-		
Dividend paid to NCI and its relevant tax							-					-	(84.36)	(84.36)		
Translation impact on foreign subsidiaries NCI portion							-					-	3.65	3.65		
Balance at the end of the year - March 31, 2018	6.03	27.68	706.77	226.19	6730.94	30.84	7360.98	84.42	0.25	256.47	23.74	15454.54	614.74	16069.28		
See accompanying notes forming part of the consolidated financial statements																

In terms of our report attached

For **Pricewaterhouse** **Chartered Accountants LLP**

Firm Registration Number: 012754N/IN500016

Chartered Accountants

Subramanian Vivek, Partner

Membership Number: 100332

Chennai, May 04, 2018

On behalf of the Board

M M Murugappan

Chairman

K Srinivasan

Managing Director

P Padmanabhan

Senior Associate Vice President - Accounts and Taxation

Rekha Surendhiran

Company Secretary

Consolidated Cash Flow Statement

(in Indian Rupees million, unless otherwise stated)

Particulars	2017-18		2016-17	
Profit before tax		3216.15		2618.64
Adjustment for:				
Share of profit of associate	(52.32)		(48.05)	
Share of profit of Joint ventures	(94.28)		(142.83)	
Fair value of Investments	(0.78)		(0.75)	
Depreciation and amortisation	1059.95		964.81	
Finance costs	86.12		181.20	
Impairment on Non-current assets	-		37.34	
Interest income	(35.54)		(32.97)	
Profit on sale of Investment	-		(0.38)	
Dividend income	(14.60)		(22.72)	
Expenses recognised in respect of equity-settled share-based payments	14.76		4.31	
Impairment loss on financial assets (net)	6.90		1.36	
Allowance for doubtful receivable and advances	33.22		78.38	
Reversal of allowance for doubtful receivables and advances	(30.94)		(90.41)	
Provision for expenses no longer required written back	(17.61)		(40.63)	
Loss/(profit) on sale of assets (net)	0.93		(9.81)	
Loss/(profit) on exchange fluctuation (net)	(26.60)	929.21	15.11	893.96
Operating profit before working capital changes		4145.36		3512.60
Movement in working capital				
(Increase)/decrease in Trade receivables	(1058.04)		23.40	
(Increase)/decrease in Inventories	(479.63)		(23.32)	
(Increase)/decrease in Other financial asset	(11.00)		267.17	
(Increase)/decrease in Other assets	155.07		(180.66)	
Increase/(decrease) in Trade payables	452.71		195.27	
Increase/(decrease) in Provision & other current liabilities	(11.22)		61.28	
Increase/(decrease) in Other financial liabilities	45.04	(907.07)	(115.17)	227.97
Cash generated from Operations		3238.29		3740.57
Income tax paid		(1108.51)		(787.94)
Net cash generated by Operating activities [A]		2129.78		2952.63
Cash flow from investing activities				
Payments to acquire Fixed asset	(920.76)		(1174.87)	
Payments for Intangible asset	(18.22)		(10.58)	
Proceeds from sale of Fixed assets	19.09		124.34	
Dividend income from Associate	19.93		19.93	
Dividend income from Joint ventures	101.54		172.39	
Proceeds / (Purchase) of Investments	(0.04)		0.35	
Interest income received	35.53		32.96	
Dividend income received	14.60		22.72	
Net cash (used in)/generated by Investing activities [B]		(748.33)		(812.76)

Consolidated Cash Flow Statement

(in Indian Rupees million, unless otherwise stated)

Particulars	2017-18	2016-17
Cash flow from financing activities		
Proceeds from issue of equity shares	32.34	27.82
Share application money pending allotment	0.23	-
Repayment/proceeds from long term borrowings	(33.36)	(805.58)
Repayment/proceeds from borrowings	(273.56)	(825.86)
Finance costs paid	(86.12)	(181.20)
Dividend paid to shareholder	(330.44)	(188.63)
Tax on Dividend	(35.23)	(15.75)
Dividend paid to Non-Controlling interest and its related tax	(84.36)	(68.38)
Tax on Dividend - Subsidiaries	(21.90)	(13.37)
Net cash used in Financing activities [C]	(832.40)	(2070.95)
Net increase/(decrease) in cash and cash equivalents [A]+[B]+[C]	549.05	68.92
Add: Cash and Cash equivalents at the beginning of the year	1298.03	1135.80
Effect of exchange rate changes on the balances of cash and cash equivalents held in foreign currencies	(0.25)	93.31
Cash and Cash equivalents at the end of the year	1846.83	1298.03
Reconciliation of Cash and cash equivalents with the Balance Sheet:		
Cash and cash equivalents at the beginning of the year		
Cash and cash equivalents - Refer Note: 12A	1248.39	1118.38
Current investment considered as Cash and Cash equivalents - Refer Note: 6C(ii)	49.64	17.42
	1298.03	1135.80
Cash and cash equivalents at the end of the year		
Cash and cash equivalents - Refer Note: 12A	1276.34	1248.39
Current investment considered as Cash and Cash equivalents - Refer Note: 6C(ii)	570.49	49.64
	1846.83	1298.03
See accompanying notes forming part of the consolidated financial statements		

In terms of our report attached

For **Price Waterhouse Chartered Accountants LLP**
Firm Registration Number: 012754N/N500016
Chartered Accountants

Subramanian Vivek

Partner

Membership Number: 100332

Chennai

May 04, 2018

On behalf of the Board

M M Murugappan
Chairman

K Srinivasan
Managing Director

P Padmanabhan
Senior Associate Vice President - Accounts and Taxation

Rekha Surendhiran
Company Secretary

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018

Statement showing the applicable Key Accounting Standards (Ind AS) with related Policy & Notes references as per Consolidated Financial Statements.

Ind AS No.	Description	Accounting policy Reference	Note Reference
2	Inventories	3.16	10
7	Statement of Cash flow	3.15	12
8	Accounting Policies, Changes in Accounting Estimates and Errors		43
10	Event after the reporting period		42,44
12	Income tax	3.10	29,8
16	Property, plant and equipment	3.11	4,27
17	Leases	3.23	4,37
18	Revenue	3.4	22
19	Employee benefits	3.8	25,34
24	Related party disclosure		36
28	Investments in associates and joint ventures	3.1.2.2	6A,6B
33	Earning per share	3.24	30
36	Impairment of assets	3.13	4,5
37	Provisions, Contingent liabilities and assets	3.17, 3.18	17,33
38	Intangible assets	3.12	5,27
102	Share based payments	3.9	25
103	Business combinations	3.12.3	5
105	Non current held for sale and discontinued operations	3.3	
107	Financial instruments - Disclosures	3.19, 3.26, 3.27	11,16,18, 23, 35
108	Operating segments	3.22	31
112	Disclosure of interest in other entities		6A,6B,15
113	Fair value measurements		35

1. General information

Carborundum Universal Limited (CUMI) was incorporated in India as a Public Limited Company in 1954 and the shares of the Company are listed in National Stock Exchange of India Ltd. and BSE Ltd. The address of its registered office and place of business are disclosed in the annual report. The consolidated financial statements comprise the Company (CUMI - Parent company) and its subsidiaries (referred to collectively as the 'Group') and the Group's interest in associates and joint ventures.

CUMI Group manufactures and sells mainly Abrasives, Ceramics (Industrial Ceramics, Refractories) and Electrominerals. (Refer Note: 31).

2. Application of Indian Accounting Standards (Ind AS):

The Consolidated financial statements comply in all material aspects with Indian Accounting Standards (Ind AS) notified under Section 133 of the Companies Act, 2013 (the Act) [Companies (Indian Accounting Standards) Rules, 2015] and other relevant provisions of the Act.

3. Significant accounting policies:

3.1.1 Basis of preparation and presentation:

The consolidated financial statements are presented in Indian Rupees (INR), which is also the Parent company functional currency.

The financial statements have been prepared on the historical cost basis except for certain financial instruments that are measured at fair values at the end of each reporting period, as explained in the accounting policies below:

Historical cost is generally based on the fair value of the consideration given in exchange for goods and services. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value measurement is based on the presumption that the transaction to sell the asset or transfer the liability takes place either:

- In the principal market for the asset or liability, or
- In the absence of a principal market, in the most advantageous market for the asset or liability.

The principal or the most advantageous market must be accessible by the Group.

The fair value of an asset or a liability is measured using the assumptions that market participants would use when pricing the asset or liability, assuming that market participants act in their best economic interest.

A fair value measurement of a non-financial asset takes into account a market participant's ability to generate economic benefits by using the asset in its highest and best use or by selling it to another market participant that would use the asset in its highest and best use.

The Group uses valuation techniques that are appropriate in the circumstances and for which sufficient data are available to measure fair value, maximising the use of relevant observable inputs and minimising

the use of unobservable inputs.

All assets and liabilities for which fair value is measured or disclosed in the financial statements are categorised within the fair value hierarchy, described as follows, based on the lowest level input that is significant to the fair value measurement as a whole:

- Level 1 - Quoted (unadjusted) market prices in active markets for identical assets or liabilities.
- Level 2 - Valuation techniques for which the lowest level input that is significant to the fair value measurement is directly or indirectly observable.
- Level 3 - Valuation techniques for which the lowest level input that is significant to the fair value measurement is unobservable.

For assets and liabilities that are recognised in the financial statements on a recurring basis, the Group determines whether transfers have occurred between levels in the hierarchy by re-assessing categorisation (based on the lowest level input that is significant to the fair value measurement as a whole) at the end of each reporting period.

The financial statements of all entities used for the purpose of consolidation are drawn up to same reporting date as that of the Parent company, i.e., year ended on 31 March 2018. When the end of the reporting period of the Parent is different from that of a subsidiary, the subsidiary prepares, for consolidation purposes, additional financial information as of the same date as the financial statements of the Parent to enable the Parent to consolidate the financial information of the subsidiary, unless it is impracticable to do so.

3.1.2 Basis of consolidation

3.1.2.1 Subsidiaries

Subsidiaries are entities controlled by the Group. The Group controls an entity when it is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. The financial statements of subsidiaries are included in the consolidated financial statements from the date on which control is acquired until the date on which control ceases to exist.

The acquisition method of accounting is used to account for business combinations by the Group. The Group combines the financial statements of the Parent and its subsidiaries line by line adding together like items of assets, liabilities, equity, income and expenses. Inter-Group transactions, balances and unrealised gains on transactions between Group companies are eliminated. Unrealised losses are also eliminated unless the transaction provides evidence of an impairment of the transferred asset. Accounting policies of subsidiaries have been changed where necessary to ensure consistency with the policies adopted by the Group.

Non-controlling interests in the results and equity of subsidiaries are shown separately in the Consolidated Statement of Profit and Loss, consolidated statement of changes in equity and Balance Sheet respectively.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018

Goodwill is initially measured at cost, being the excess of the aggregate of the consideration transferred and the amount recognised for non-controlling interests, and any previous interest held, over the net identifiable assets acquired and liabilities assumed.

If the fair value of the net assets acquired is in excess of the aggregate consideration transferred, the Group re-assesses whether it has correctly identified all of the assets acquired and all of the liabilities assumed and reviews the procedures used to measure the amounts to be recognised at the acquisition date.

If the reassessment still results in an excess of the fair value of net assets acquired over the aggregate consideration transferred, then the gain is recognised in OCI and accumulated in equity as capital reserve. However, if there is no clear evidence of bargain purchase, the entity recognises the gain directly in equity as capital reserve, without routing the same through OCI.

After initial recognition, goodwill is measured at cost less any accumulated impairment losses. For the purpose of impairment testing, goodwill acquired in a business combination is, from the acquisition date, allocated to each of the Group's cash-generating units that are expected to benefit from the combination, irrespective of whether other assets or liabilities of the acquiree are assigned to those units.

3.1.2.2 Associates and Joint ventures

An **associate** is an entity over which the Group has significant influence. Significant influence is the power to participate in the financial and operating policy decisions of the investee, but is not control or joint control over those policies.

A **joint venture** is a type of joint arrangement whereby the parties that have joint control of the arrangement have rights to the net assets of the joint venture. Joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require unanimous consent of the parties sharing control.

The considerations made in determining whether significant influence or joint control are similar to those necessary to determine control over the subsidiaries.

The Group's investments in its associate and joint venture are accounted for using the equity method. Under the equity method, the investment in an associate or a joint venture is initially recognised at cost. The carrying amount of the investment is adjusted to recognise changes in the Group's share of net assets of the associate or joint venture since the acquisition date. Goodwill relating to the associate or joint venture is included in the carrying amount of the investment and is not tested for impairment individually.

The Statement of Profit and Loss reflects the Group's share of the results of operations of the associate or joint venture. Any change in OCI of those investees is presented as part of the Group's OCI. In addition, when there has been a change recognised directly in the equity of the associate or joint venture, the Group recognises its share of any changes, when applicable, in the statement of changes in equity. Unrealised gains and losses resulting from transactions between the Group and the associate or joint venture are eliminated to the extent of the interest in the associate or joint venture.

The aggregate of the Group's share of profit or loss of an associate and a joint venture is shown on the face of the Statement of Profit and Loss.

3.1.2.3 Foreign currency translation

The consolidated financial statements are presented in Indian Rupee, which is the CUMI's functional and presentation currency and includes the financial position and results in respect of foreign operations, initially measured using the currency of the primary economic environment in which the entity operates (i.e their functional currency) and translated as follows:

- Assets and liabilities are translated at the closing rate at the date of that Balance Sheet;
- income and expenses are translated at average exchange rates;
- All resulting exchange differences are recognised in other comprehensive income;

Goodwill and fair value adjustments arising on the acquisition of a foreign operation are treated as assets and liabilities of the foreign operation and translated at the closing rate.

3.2 Use of estimates and judgements:

In preparing these financial statements, management has made judgements, estimates and assumptions that affect the application of accounting policies and the reported amounts of assets, liabilities, income and expenses. Actual results may differ from these estimates.

3.2.1 Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised prospectively.

3.2.2 Judgements are made in applying accounting policies that have the most significant effects on the amounts recognised in the financial statements.

3.2.3 Assumptions and estimation uncertainties that have a significant risk of resulting in a material adjustment are reviewed on an ongoing basis.

The areas involving critical estimates or judgements are:

S.No	Particulars	Note
I	Estimation of useful life of tangible and intangible asset	3.11 & 3.12
II	Impairment test of Goodwill: Key assumption underlying recoverable amounts	5A
III	Assessment of control over components and consolidation decisions and classification of Associate	6A
IV	Assessment of control over components and consolidation decisions and classification of joint arrangements	6B
V	Estimation of fair value of unlisted securities	6C
VI	Recognition of deferred tax assets: Availability of future taxable profit against which tax losses carried forward can be used	8
VII	Impairment of Trade receivables: Expected credit loss	11
VIII	Recognition and measurement of provisions and contingencies; key assumption about the likelihood and magnitude of an outflow of resources	17 & 33
IX	Measurement of defined benefit obligation: Key actuarial assumptions	34

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018

3.3 Non-current assets held for sale

Non-current assets and disposal groups are classified as held for sale if their carrying amount will be recovered principally through a sale transaction rather than through continuing use. This condition is regarded as met only when the asset (or disposal group) is available for immediate sale in its present condition subject only to terms that are usual and customary for sale of such assets and its sale is highly probable.

Non-current assets classified as held for sale are measured at the lower of their carrying amount and fair value less costs to sell.

3.4 Revenue recognition

Revenue is recognised to the extent that it is probable that the economic benefits will flow to the Group and the revenue can be reliably measured, regardless of when the payment is being made. Revenue is measured at the fair value of the consideration received or receivable, taking into account contractually defined terms of payment and excluding taxes or duties collected on behalf of the government. Revenue is reduced for estimated customer returns, rebates and other similar allowances.

Based on the Educational Material on Ind AS 18 issued by the ICAI, the Group has assumed that recovery of excise duty flows to the Group on its own account. This is for the reason that it is a liability of the manufacturer which forms part of the cost of production, irrespective of whether the goods are sold or not. Since the recovery of excise duty flows to the Group on its own account, revenue is recorded inclusive of excise duty.

However, Goods and Service Tax (GST)/Sales Tax/Value Added Tax (VAT) is not received by the Group on its own account. Rather, it is tax collected on value added to the commodity by the seller on behalf of the government. Accordingly, it is excluded from revenue.

The specific recognition criteria described below must also be met before revenue is recognised.

3.4.1 Sale of goods

Sales are accounted on transfer of significant risks and rewards of ownership to the buyer which generally coincides with dispatch of products to customers in case of domestic sales and on the basis of bill of lading in the case of export sales, at which time all the following conditions are satisfied:

- the Company has transferred to the buyer the significant risks and rewards of ownership of the goods;
- the Company retains neither continuing managerial involvement to the degree usually associated with ownership nor effective control over the goods sold;
- the amount of revenue can be measured reliably;
- it is probable that the economic benefits associated with the transaction will flow to the Company; and
- the costs incurred or to be incurred in respect of the transaction can be measured reliably.

3.4.2 Rendering of services

The revenue from divisible contracts are recognised on the percentage completion method in respect of service contracts and in respect of supplies on dispatch. In respect of indivisible contracts, the revenues are recognised on a percentage completion method, synchronized to the billing schedules agreed by the customers.

In respect of maintenance service contracts, service income is recognised over the duration of the contract.

3.4.3 Other income

Royalty income is recognised on an accrual basis in accordance with the substance of the relevant agreement.

Dividend income from investments is recognised when the shareholder's right to receive payment has been established.

Interest income from a financial asset is recognised and accrued using effective interest rate method.

Rental income is recognised on a straight line basis in accordance with the agreement.

3.5 Foreign Currencies

Foreign currency transactions are recorded at the rates of exchange prevailing on the date of the transactions. Monetary assets and liabilities outstanding at the year-end are translated at the rate of exchange prevailing at the year-end and the gain or loss, is recognised in the Statement of Profit and Loss.

Foreign currency monetary items (other than derivative contracts) of the respective Company, outstanding at the Balance Sheet date are restated at the year-end rates. Non-monetary items of the respective Company are carried at historical cost.

Exchange differences arising on settlement / restatement of short-term foreign currency monetary assets and liabilities of the respective Company are recognised as income or expense in the Statement of Profit and Loss.

Premium / discount on forward exchange contracts are amortised over the period of the contracts if such contracts relate to monetary items as at the Balance Sheet date. Any profit or loss arising on cancellation or renewal of such a forward exchange contract is recognised as income or as expense in the period in which such cancellation or renewal is made.

Refer Note: 3.26 and 3.27 for accounting for forward exchange contracts relating to firm commitments and highly probable forecast transactions.

3.6 Borrowing costs

The borrowing costs (other than those attributable to fixed assets - Refer Note: 4 and 5) are recognised in profit or loss in the period in which they are incurred.

Interest income earned on temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalisation.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018

3.7 Government grants

Government grants are not recognised until there is reasonable assurance that the Group will comply with the conditions attaching to them and that the grants will be received.

Government grants are recognised in profit or loss on a systematic basis over the periods in which the Group recognises as expenses the related cost for which the grants are intended to compensate. Specifically, government grants whose primary condition is that the Group should purchase, construct or otherwise acquire non-current assets are recognised as deferred revenue in the Balance Sheet and transferred to profit or loss on a systematic and rational basis over the useful lives of the related assets.

Government grants that are receivable as compensation for expenses or losses already incurred or for the purpose of giving immediate financial support to the Group with no future related costs are recognised in profit or loss in the period in which they become receivable.

The benefit of a government loan at a below market rate of interest is treated as a government grant, measured as the differences between proceeds received and the fair value of the loan based on prevailing market interest rate.

3.8 Employee benefits

3.8.1. Retirement benefit costs and termination benefits

Payments to defined contribution retirement benefit plans are recognised as an expense when employees have rendered service entitling them to the contributions.

For defined benefit retirement plans, the cost of providing benefits is determined using the projected unit credit method, with actuarial valuations being carried out at the end of each annual reporting period. Remeasurement, comprising actuarial gain and loss, the effect of the changes to asset ceiling (if applicable) and the return on plan assets (excluding net interest), is reflected immediately in the Balance Sheet with a charge or credit recognised in other comprehensive income in the period in which they occur. Remeasurement recognised in other comprehensive income is reflected in retained earnings and is not reclassified to profit or loss. Past service cost is recognised in profit or loss in the period of plan amendment. Net interest is calculated by applying the rate at the beginning of the period to the net defined benefit liability or asset.

Defined benefit costs are categorised as follows:

- service cost (including current service cost, past service cost, as well as gains and losses on curtailments and settlements);
- net interest expense or income;
- remeasurement.

The Group presents the first two components of defined benefit costs in profit or loss in the line item 'Employee benefit expense'. Curtailment gain and loss are accounted for as past service costs.

A liability for a termination benefit is recognised at the earlier of which the entity can no longer withdraw the offer of the termination benefit and when the entity recognises any related restructuring costs.

3.8.2. Short-term and other long-term employee benefits

A liability is recognised for benefits accruing to employees in respect of wages and salaries, annual leave and sick leave in the period the related service is rendered.

Liabilities recognised in respect of short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in exchange for the related service.

Liabilities recognised in respect of other long-term employee benefits are measured at the present value of the estimated future cash outflows expected to be made by the Group in respect of services provided by employees up to the reporting date.

3.8.3. Voluntary retirement compensation

Compensation to employees who have retired under voluntary retirement scheme is charged off to revenue

3.9 Share-based payment arrangements

Equity-settled share-based payments to employees and others providing similar services are measured at the fair value of the equity instruments at the grant date. Details regarding the determination of the fair value of equity settled share based transactions are set out in Note: 36 of Standalone financial statements.

The fair value determined at the grant date of the equity-settled-based payments is expensed on a straight-line basis over the vesting period, based on the Group's estimate of equity instruments that will eventually vest, with a corresponding increase in equity. At the end of each reporting period, the Group revises its estimate of the number of equity instruments expected to vest. The impact of the revision of the original estimates, if any, is recognised in profit or loss such that the cumulative expense reflect the revised estimate, with a corresponding adjustment to the Share options outstanding account.

3.10 Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

3.10.1 Current tax

The tax currently payable is based on taxable profit for the year. Taxable profit differs from 'profit before tax' as reported in the Statement of Profit and Loss because of items of income or expense that are taxable or deductible in other years (Temporary differences) and items that are never taxable or deductible (Permanent differences). Current tax is calculated using tax rates that have been enacted, at the reporting date in the countries where the Group operates and generates taxable income.

Current income tax assets and liabilities are measured at the amount expected to be recovered from or paid to the taxation authorities.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018

Current income tax relating to items recognised outside profit or loss is either in other comprehensive income or in equity. Current tax items are recognised in correlation to the underlying transaction either in OCI or directly in equity. Management periodically evaluates positions taken in the tax returns with respect to situations in which applicable tax regulations are subject to interpretation and establishes provisions where appropriate.

3.10.2 Deferred tax

Deferred tax is recognised on temporary differences between the carrying amounts of assets and liabilities in the financial statements and the corresponding tax bases used in computation of taxable profit. Deferred tax liabilities are generally recognised for all taxable temporary differences. Deferred tax assets are generally recognised for all deductible temporary differences to the extent that it is probable that taxable profit will be available against which those deductible temporary differences can be utilised. Such deferred tax assets and liabilities are not recognised if the temporary differences arises from the initial recognition (other than in a business combination) of assets and liabilities in a transaction that affects neither the taxable profit nor the accounting profit. In addition deferred tax liabilities are not recognised if the temporary difference arises from the initial recognition of goodwill.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the year when the asset is realised or the liability is settled, based on tax rates and tax laws that have been enacted or substantively enacted at the reporting date.

Deferred tax relating to items recognised outside profit or loss is recognised either in other comprehensive income or in equity. Deferred tax items are recognised in correlation to the underlying transaction either in OCI or directly in equity.

3.10.3 Indirect taxes:

GST/CENVAT/VAT credit on materials purchased / services availed for production / Input services are taken into account at the time of purchase. Service tax input credit is accounted for in the books in the period in which the underlying service received is accounted and when there is no uncertainty in availing/utilising the credits. GST/CENVAT/VAT credit on purchase of capital items wherever applicable are taken into account as and when the assets are acquired. The GST/CENVAT credits so taken are utilised for payment of GST on supply and service/excise duty on goods manufactured or for payment of service tax on services rendered. The unutilised GST/CENVAT/VAT credit is carried forward in the books.

3.11 Property, plant and equipment

Land and buildings held for use in the production or supply of goods or services, or for administrative purposes, are stated in the Balance Sheet at cost less accumulated depreciation and accumulated impairment losses. Freehold land is not depreciated.

Fixtures and equipment are stated at cost less accumulated depreciation and accumulated impairment losses.

Depreciation is recognised so as to write off the cost of the assets (other than freehold land) less their residual values over their useful lives as specified under Schedule II and applicable statutes of the relevant territories, using the straight-line method. The estimated useful lives, residual value and depreciation method are reviewed at the end of each reporting period, with the effect of any changes in estimate accounted for on a prospective basis.

Assets held under finance lease are depreciated over their expected useful lives on the same basis as owned assets. However, when there is no reasonable certainty that ownership will be obtained by the end of the lease term, assets are depreciated over the shorter of the lease term and their useful lives.

Building on lease hold land are depreciated over the lease period if it is lower than the useful life mentioned in Schedule II.

Individual asset costing less than ₹5000 are depreciated in full in the year of acquisition.

An item of property, plant and equipment is derecognised upon disposal or when no future economic benefits are expected to arise from the continued use of the asset. Any gain or loss arising on the disposal or retirement of an item of property, plant and equipment is determined as the difference between the sale proceeds and the carrying amount of the asset and is recognised in profit or loss.

When significant parts of plant and equipment are required to be replaced at intervals, the Group depreciates them separately based on their specific useful lives. Likewise, when a major inspection is performed, its cost is recognised in the carrying amount of the plant and equipment as a replacement if the recognition criteria are satisfied. All other repair and maintenance costs are recognised in profit or loss as incurred. The present value of the expected cost for the decommissioning of an asset after its use is included in the cost of the respective asset if the recognition criteria for a provision are met.

An item of property, plant and equipment and any significant part initially recognised is derecognised upon disposal or when no future economic benefits are expected from its use or disposal. Any gain or loss arising on derecognition of the asset (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in the income statement when the asset is derecognised.

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use or sale, are added to the cost of those assets, until such time as the assets are substantially ready for their intended use or sale.

3.12 Intangible assets

3.12.1 Intangible assets acquired separately

Intangible assets that are acquired separately are carried at cost less accumulated amortisation and accumulated impairment losses. Amortisation is recognised on a straight-line basis over their estimated useful lives. The estimated useful life and amortisation method are reviewed at the end of each reporting period, with the effect of any changes in estimate being accounted for on a prospective basis. The

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amortisation expense on intangible assets with finite lives is recognised in the Statement of Profit and Loss unless such expenditure forms part of carrying value of another asset.

3.12.2. Internally generated intangibles, excluding capitalised development costs, are not capitalised and the related expenditure is reflected in profit or loss in the period in which the expenditure is incurred.

3.12.3. Intangible assets acquired in a business combination

Intangible assets acquired in a business combination and recognised separately from goodwill are initially recognised at their fair value at the acquisition date, which is regarded as their cost.

Subsequent to initial recognition, intangible assets acquired in a business combination are reported at cost less accumulated amortisation and accumulated impairment losses, on the same basis as intangible assets that are acquired separately.

3.12.4. Derecognition of intangible assets

An intangible asset is derecognised on disposal, or when no future economic benefits are expected from use or disposal. Gain or loss arising from derecognition of an intangible asset, measured as the difference between the net disposal proceeds and the carrying amount of the asset, are recognised in profit or loss when the asset is derecognised.

3.13 Impairment of tangible and intangible assets other than goodwill

At the end of each reporting period, the Group reviews the carrying amount of tangible and intangible assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the assets is estimated in order to determine the extent of the impairment loss (if any). When it is not possible to estimate the recoverable amount of an individual asset, the Group estimates the recoverable amount of the cash-generating unit to which the asset belongs. When a reasonable and consistent basis of allocation can be identified, corporate assets are also allocated to individual cash-generating units.

Intangible assets with indefinite useful lives and intangible assets not yet available for use are tested for impairment at least annually, and whenever there is an indication that the asset may be impaired.

Recoverable amount is higher of fair value less cost of disposal and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset.

If the recoverable amount of an asset (or cash-generating unit) is estimated to be less than its carrying amount, the carrying amount of the asset (or cash-generating unit) is reduced to its recoverable amount. An impairment loss is recognised immediately in profit or loss.

When an impairment loss subsequently reverses, the carrying amount of the asset (or a cash-generating unit) is increased to the revised estimate of its recoverable amount, but so that the increased carrying amount does not exceed the carrying amount that would have been

determined had no impairment loss been recognised for the asset (or cash-generated unit) in prior years. A reversal of an impairment loss is recognised immediately in profit or loss.

3.14 Cash and cash equivalents (for purposes of Cash Flow Statement)

Cash comprises cash on hand and demand deposits with banks. Cash equivalents are short-term balances (with an original maturity of three months or less from the date of acquisition), highly liquid investments that are readily convertible into known amounts of cash and which are subject to insignificant risk of changes in value.

3.15 Cash Flow Statement

Cash flows are reported using the indirect method, whereby profit/(loss) before tax is adjusted for the effects of transactions of non-cash nature and any deferrals or accruals of past or future cash receipts or payments. The cash flows from operating, investing and financing activities of the Group are segregated based on the available information.

3.16 Inventories

Inventories are stated at the lower of cost and net-realizable value. Cost includes freight, taxes and duties net of GST/CENVAT / VAT credit wherever applicable. Customs duty payable on material in bonded warehouse is added to the cost.

In respect of raw materials, stores and spare parts, traded stock cost is determined on weighted average basis. In respect of work in progress and finished goods, cost includes all direct costs and applicable production overheads, to bring the goods to the present location and condition. Net realisable value represents the estimated selling price for inventories less all estimated cost of completion and cost necessary to make the sale.

3.17 Provisions

Provisions are recognised when the Group has a present obligation (legal or constructive) as a result of a past event, it is probable that the Group will be required to settle the obligation, and a reliable estimate can be made of the amount of obligation.

The amount recognised as a provision is the best estimate of the consideration required to settle present obligation at the end of reporting period, taking into account the risk and uncertainty surrounding the obligation. When a provision is measured using the cash flows estimated to settle the present obligation, its carrying amount is the present value of these cash flows (when the effect of the time value of money is material).

When some or all of the economic benefits required to settle a provision are expected to be recovered from a third party, a receivable is recognised as an asset if it is virtually certain that reimbursement will be received and the amount of receivable can be measured reliably.

3.18 Contingent liabilities

Contingent liability is disclosed for (i) Possible obligation which will be confirmed only by future events not wholly within the control of the Group or (ii) Present obligations arising from past events where it is

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not probable that an outflow of resources will be required to settle the obligation or a reliable estimate of the amount of the obligation cannot be made. Contingent assets are not recognised in the financial statements.

3.19 Financial instruments

Financial assets and financial liabilities are recognised when the Group becomes a party to the contractual provision of the instruments.

Financial assets and financial liabilities are initially measured at fair value. Transaction costs that are directly attributable to the acquisition or issue of financial assets and financial liabilities (other than financial assets and financial liabilities at fair value through profit or loss) are added to or deducted from the fair value of the financial asset or financial liabilities, as appropriate, on initial recognition. Transaction cost directly attributable to the acquisition of financial assets or financial liabilities at fair value through profit or loss are recognised immediately in profit or loss.

3.20 Financial assets

All regular way purchases or sale of financial assets are recognised and derecognised on a trade date basis. Regular way purchases or sales are purchases or sale of financial assets that require delivery of assets within the time frame established by regulation or convention in the market place.

All recognised financial assets are subsequently measured in their entirety at either amortized cost or fair value, depending on the classification of the financial assets.

3.20.1. Classification of financial assets

Debt instruments that meet the following conditions are subsequently measured at amortised cost (except for debt instruments that are designated as at fair value through profit or loss on initial recognition):

- the asset is held within business model whose objective is to hold assets in order to collect contractual cash flows; and
- the contractual terms of the instruments give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

For the impairment policy on financial assets measured at amortised cost, Refer Note: 3.20.4

3.20.2 Investment in equity instruments at Fair value through Other Comprehensive Income [FVTOCI]

On initial recognition, the Group can make an irrevocable election (on an instrument- by instrument basis) to present the subsequent changes in fair value in other comprehensive income pertaining to investment in equity instruments. This election is not permitted if the equity investment is held for trading.

These elected investments are initially measured at fair value plus transaction costs. Subsequently, they are measured at fair value with gain and loss arising from changes in fair value recognised in other comprehensive income and accumulated in the 'Reserve for equity instrument through other comprehensive income'. The cumulative gain

or loss is not reclassified to profit or loss on disposal of the investments.

A financial asset is held for trading if:

- it has been acquired principally for the purpose of selling it in the near term.
- on initial recognition it is part of a portfolio of identified financial instruments that the Group manages together and has a recent actual pattern of short-term profit-taking; or
- it is a derivative that is not designated and effective as a hedging instrument or a financial guarantee.

The Group has equity instrument in two entities, which are not held for trading. The Group has elected the FVTOCI irrevocable option for both of these investments (Refer Note: 6C). Fair value is determined in the manner described in Note: 35.

Dividend on these investments are recognised in profit or loss when the Group's right to receive the dividends is established, it is probable that the economic benefits associated with the dividend will flow to the entity, which does not represent a recovery of part of cost of the investment and the amount of dividend can be measured reliably. Dividend recognised in profit and loss are included in 'Other income' line item.

3.20.3 Financial assets at fair value through profit or loss (FVTPL)

Investments in equity instruments are classified as at FVTPL, unless the Group irrevocably elects on initial recognition to present subsequent changes in fair value in other comprehensive income for investments in equity instruments which are not held for trading (Refer Note: 3.20.2).

Debt instruments that do not meet the amortised cost criteria or FVTOCI criteria are measured at FVTPL. In addition, debt instruments that meet the amortised cost criteria or the FVTOCI criteria but are designated as at FVTPL are measured at FVTPL.

A financial asset that meets the amortised cost criteria or debt instruments that meet the FVTOCI criteria may be designated as at FVTPL upon initial recognition if such designation eliminates or significantly reduces a measurement or recognition inconsistency that would arise from measuring assets or liabilities or recognising the gain or loss on them on different bases. The Group has not designated any such debt instrument as at FVTPL.

Financial asset at FVTPL is measured at fair value at the end of each reporting period, with gains or losses arising on remeasurement recognised in profit or loss. The net gain or loss recognised in profit or loss incorporate any dividend or interest earned on the financial asset and is included in the 'Other income' line item. Dividend on financial asset at FVTPL is recognised when the Group's right to receive the dividends is established. It is probable that the economic benefits associated with the dividend will flow to the Group which does not represent a recovery of part of cost of the investment and the amount can be measured reliably.

3.20.4. Impairment of financial assets

The Group applied the expected credit loss model for recognising impairment loss on financial assets measured at amortised cost,

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debt instruments at FVTOCI, lease receivable, trade receivable, other contractual rights to receive cash or other financial asset, and financial guarantees not designated as at FVTPL.

Expected credit losses are the weighted average of credit losses with the respective risks of default occurring as the weights. Credit loss is the difference between all contractual cash flows that are due to the Group in accordance with the contract and all the cash flows that the Group expects to receive (i.e., all cash shortfalls), discounted at the original effective interest rate (or credit-adjusted effective interest rate for purchased or originated credit-impairment financial assets). The Group estimates cash flows by considering all contractual terms of the financial instrument (for example, prepayments, extension, call and similar options) through the expected life of that financial instruments.

The Group measures the loss allowance for the financial instruments at an amount equal to the lifetime expected credit losses if the credit risk on those financial instruments has increased significantly since initial recognition. If the credit risk on a financial instrument has not increased significantly since initial recognition, the Group measures the loss allowance for that financial instruments at an amount equal to 12 month expected credit losses. The twelve months expected credit losses are a portion of the lifetime cash shortfalls that will result if default occurs within 12 months after the reporting date and thus, are not cash shortfalls that are predicted over 12 months.

If the Group measured loss allowance for the financial instruments at life time expected credit loss model in the previous period, but determines at the end of a reporting period that the credit risk has not increased significantly since initial recognition due to improvement in credit quality as compared to the previous period, the Group again measures the loss allowance based on 12 month expected credit losses.

When making the assessment of whether there has been a significant increase in credit risk since initial recognition, the Group uses the change in the risk of a default occurring over the expected life of the financial instruments instead of the change in the amount of expected credit losses. To make the assessment, the Group compares the risk of a default occurring on the financial instrument as at the reporting date with the risk of a default occurring on the financial instrument as at the date of initial recognition and consider reasonable and supportable information, that is available without undue cost or effort, that is indicative of significant increase in credit risk since initial recognition.

For trade receivables or any contractual rights to receive cash or other financial assets that results from transactions that are within the scope of Ind AS 11 and Ind AS 18, the Group always measures the loss allowance at an amount equal to life time expected credit losses.

Further, for the purposes of measuring lifetime expected credit loss allowance for trade receivables, the Group has used a practical expedient as permitted under Ind AS 109. This expected credit loss allowance is computed based on a provision matrix which takes into account historical credit loss experience and adjusted for forward-looking information.

The impairment requirements for the recognition and measurement of a loss allowance are equally applied to debt instruments at FVTOCI except that the loss allowance is recognised in other comprehensive income

and is not reduced from the carrying amount in the Balance Sheet.

3.20.5 Derecognition of financial assets

The Group derecognises a financial asset when the contractual rights to the cash flows from the asset expire, or when it transfers the financial asset and substantially all the risks and rewards of ownership of the asset to another party. If the Group neither transfers nor retains subsequently all the risks and rewards of ownership and continues to control the transferred asset, the Group recognises its retained interest in the asset and an associated liability for the amount it may have to pay.

If the Group retains substantially all the risks and rewards of ownership of a transferred financial asset, the Group continues to recognise the financial asset and also recognises a collateralised borrowing for the proceeds received.

On derecognition of a financial asset in its entirety, the difference between the asset's carrying amount and the sum of the consideration received and receivable and the cumulative gain or loss that had been recognised in other comprehensive income and accumulated in equity is recognised in profit or loss if such gain or loss would have otherwise been recognised in profit or loss on disposal of that financial asset.

On derecognition of a financial asset other than its entirety (eg., when the Group retains an option to repurchase part of a transferred asset), the Group allocates the previous carried over amount of financial asset between the part it continues to recognise under continuing involvement, and the part it no longer recognises on the basis of the relative fair values of those parts on the date of the transfer.

The difference between the carrying amount allocated to the part that is no longer recognised and the sum of consideration received for the part no longer recognised and any cumulative gain or loss allocated to it that had been recognised in profit or loss on disposal of that financial asset. A cumulative gain or loss that had been recognised in other comprehensive income is allocated between the part that continues to be recognised and the part that is no longer recognised on the basis of the relative fair value of those parts.

3.20.6 Foreign exchange gain and loss

The fair value of financial assets denominated in foreign currency is determined in that foreign currency and translated at the spot rate at the end of each reporting period.

- for Foreign currency denominated financial asset measured at amortised cost and FVTPL, the exchange differences are recognised in profit or loss except for those which are designated hedging instruments in a hedging relationship.
- Changes in the carrying amount of investments in equity instruments at FVTOCI relating to changes in foreign currency rates are recognised in other comprehensive income.
- For the purposes of recognising foreign exchange gain and loss, FVTOCI debt instruments are treated as financial assets measured at amortised cost. Thus, the exchange differences on the amortised cost are recognised in profit or loss and other changes in the fair value of FVTOCI financial asset are recognised in other comprehensive income.

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3.21 Financial liabilities and equity instruments

3.21.1 Classification as debt or equity

Debt and equity instruments issued by a Group are classified as either financial liabilities or as equity in accordance with the substance of the contractual arrangements and the definition of a financial liabilities and an equity instrument.

3.21.2. Equity instruments

An equity instrument is a contract that evidences a residual interest in the asset of an entity after deducting all of its liabilities. Equity instruments issued by a Group is recognised at the proceeds received, net of direct issue costs.

3.21.3. Financial liabilities

All financial liabilities are subsequently measured at amortised cost using the effective interest methods or at FVTPL.

However, financial liabilities that arise when a transfer of a financial asset does not qualify for derecognition or when the continuing involvement approach applies, financial guarantee contracts issued by the Group, and commitments issued by the Group to provide a loan at below-market interest rate are measured in accordance with the specific accounting policies set out below:

3.21.3.1. Financial liabilities at FVTPL

Financial liabilities are classified as at FVTPL when the financial liability is either contingent consideration recognised by the Group as an acquirer in a business combination to which Ind AS 103 applies or is held for trading or it is designated as at FVTPL.

A financial liability is classified as held for trading if:

- it has been incurred principally for the purpose of repurchasing it in the near term; or
- on initial recognition, it is part of a portfolio of identified financial instruments that the Group manages together and has a recent actual pattern of short-term profit-taking; or
- it is a derivative that is not designated and effective as a hedging instrument.

A financial liability other than a financial liability held for trading or contingent consideration recognised by the Group as an acquirer in a business combination to which Ind AS 103 applies, may be designated as at FVTPL upon initial recognition if:

- such designation eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise.
- the financial liability forms part of a group of financial asset or financial liabilities or both, which is managed and its performance is evaluated on a fair value basis, in accordance with the Group's documented risk management or investment strategy, and information about the grouping is provided internally on that basis; or
- it forms part of a contract containing one or more embedded derivatives, and Ind AS 109 permits the entire combined contracts

to be designated as at FVTPL in accordance with Ind AS 109.

Financial liabilities at FVTPL are stated at fair value, with any gains or losses arising on remeasurement recognised in profit or loss. The net gain or loss recognised in profit or loss incorporates any interest paid on the financial liability and is included in the 'Other income' line item.

However, for not-held for trading financial liabilities that are designated as at FVTPL, the amount of change in the fair value of the financial liability that is attributable to changes in the credit risk of the liability recognised in other comprehensive income, unless the recognition of the effects of changes in the liability's credit risk in other comprehensive income would create or enlarge an accounting mismatch in profit or loss, in which case these effect of changes in credit risk are recognised in profit or loss. Changes in fair value attributable to a financial liability's credit risk that are recognised in other comprehensive income are reflected immediately in retained earnings and are not subsequently reclassified to profit or loss.

Gain or loss on financial guarantee contract and loan commitments issued by the Group that are designated by the Group as at fair value through profit or loss are recognised in profit or loss.

Fair value is determined in the manner described in Note: 35.

3.21.3.2. Financial liabilities subsequently measured at amortised cost

Financial liabilities are not held-for-trading and are not designated as at FVTPL are measured at amortised cost at the end of subsequent accounting periods. The carrying amounts of financial liabilities that are subsequently measured at amortised cost are determined based on the effective interest method. Interest expenses that is not capitalised as part of cost of an asset is included in the 'Finance cost' line item.

The effective interest method is a method of calculating the amortised cost of a financial liability and of allocating interest income over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments (including all fees and points paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts) through the expected life of the financial liability or, (where appropriate), a shorter period, to the net carrying amount on initial recognition.

3.21.3.3 Financial guarantee contracts

A financial guarantee contract is a contract that requires the issuer to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payments when due in accordance with the terms of a debt instrument.

Financial guarantee contracts issued by a Group are initially measured at their fair value and, if not designated as at FVTPL, are subsequently measured at a higher of:

- the amount of loss allowance determined in accordance with impairment requirement of Ind AS 109; and
- the amount initially recognised less, when appropriate, the cumulative amount of income recognised in accordance with the principles of Ind AS 18.

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3.21.3.4 Foreign exchange gain and loss

For financial liabilities that are denominated in a foreign currency and are measured at amortised cost at the end of each reporting period, the foreign exchange gain and loss are determined based on the amortised cost of the instruments and are recognised in 'Other income'.

The fair value of financial assets denominated in foreign currency is determined in that foreign currency and translated at the spot rate at the end of each reporting period. For financial liabilities that are measured at FVTPL, the foreign exchange component forms part of the fair value gain or loss and is recognised in profit or loss.

3.21.3.5 Derecognition of financial liabilities

The Group derecognises financial liabilities when, and only when, the Group's obligations are discharged, cancelled or have expired. An exchange between a lenders of debt instruments with substantially different terms is accounted for as an extinguishment of the original financial liability and the recognition of a new financial liability. Similarly, a substantial modification of the terms of an existing financial liability (whether or not attributable to the financial difficulty of the debtor) is accounted for as an extinguishment of the original financial liability and the recognition of a new financial liability. The difference between the carrying amount of the financial liability derecognised and the consideration paid and payable is recognised in profit or loss.

3.22 Segment reporting

The accounting policies adopted for Segment reporting are in line with the accounting policies of the Group with the following additional policies:

- Inter-segment revenue is accounted on the basis of transactions which are primarily determined based on market/fair value factors.
- Revenue and expenses have been identified to segments on the basis of their relationship to the operating activities of the Segment. Revenue and expenses, which relate to the enterprise as a whole and are not allocable to Segments on a reasonable basis have been included under "Un-allocated Corporate expenses".

3.23 Leases

Assets leased in its capacity as a lessee, where substantially all the risks and rewards of ownership vest are classified as finance leases. Such leases are capitalised at the inception of the lease at the lower of the fair value and the present value of the minimum lease payments and a liability is created for an equivalent amount. Each lease rental paid is allocated between the liability and the interest cost so as to obtain a constant periodic rate of interest on the outstanding liability for each year.

3.24 Earnings per share

Basic earnings per share is computed by dividing the profit/ (loss) after tax attributable to the Parent shareholder by the weighted average number of equity shares outstanding during the year. Diluted earnings per share is computed by dividing the profit/(loss) after tax attributable to the Parent shareholder as adjusted for dividend, interest and other charges to expense or income relating to the dilutive potential equity

shares, by the weighted average number of equity shares considered for deriving basic earnings per share and the weighted average number of equity shares which could have been issued on the conversion of all dilutive potential equity shares.

Potential equity shares are deemed to be dilutive only if their conversion to equity shares would decrease the net profit per share from continuing ordinary operations. Potential dilutive equity shares are deemed to be converted as at the beginning of the period, unless they have been issued at a later date. The dilutive potential equity shares are adjusted for the proceeds receivable had the shares been actually issued at fair value (i.e. average market value of the outstanding shares). Dilutive potential equity shares are determined independently for each period presented. The number of equity shares and potentially dilutive equity shares are adjusted for share splits/reverse share splits and bonus shares, as appropriate.

3.25 Research and Development

All revenue expenditure related to research and development are charged to the respective heads on the Statement of Profit and Loss. Capital expenditure incurred on research and development is capitalised as fixed assets and depreciated in accordance with the depreciation policy of the Group.

3.26 Derivative financial instruments

Derivatives are initially recognised at fair value at the date the derivative contracts are entered into and are subsequently remeasured to their fair values at the end of each reporting period. The resulting gain or loss is recognised in profit or loss immediately unless the derivative is designated and effective as hedging instrument, in which event the timing of the recognition in profit or loss depends on the nature of the hedging relationship and the nature of the hedged item.

3.27 Hedge accounting

The Group designates certain hedging instruments, which includes derivatives and non-derivatives in respect of foreign currency risk, at either fair value hedges, cash flow hedges, or hedges of net investments in foreign operations. Hedges of foreign exchange risk on firm commitments are accounted for as cash flow hedges.

At the inception of the hedge relationship, the entity documents the relationship between the hedging instrument and the hedged item, along with its risk management objectives and its strategy for undertaking various hedge transactions. Furthermore, at the inception of the hedge and on an ongoing basis, the Group documents whether the hedging instrument is highly effective in offsetting changes in fair values or cash flows of the hedged item attributable to the hedged risk.

Note: 35 sets out details of the fair values of the derivatives instruments used for hedging purposes.

3.27.1 Fair value hedges

Changes in fair value of the designated portion of derivatives that qualify as fair value hedges are recognised in profit or loss immediately, together with any changes in the fair value of the hedging asset or liability that are attributable to the hedged risk. The change in the fair

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value of the designated portion of hedging instrument and the change in the hedged item attributable to the hedged risk are recognised in profit or loss in the line item relating to the hedged item.

Hedge accounting is discontinued when the hedging instruments expires or is sold, terminated, or exercised, or when it no longer qualify for hedge accounting. The fair value adjustment to the carrying amount of the hedged item arising from the hedged risk is amortised to profit or loss from that date.

3.27.2 Cash flow hedges

The effective portion of changes in the fair value of derivatives that are designated and qualify as cash flow hedges is recognised in other comprehensive income and accumulated under the heading of cash flow hedging reserve. The gain or loss relating to the ineffective portion is recognised immediately in profit or loss, and is included in the 'Other income' line item.

Amount previously recognised in other comprehensive income and accumulated in equity relating to (effective portion as described above) are reclassified to profit or loss in the periods when the hedged item affect profit or loss, in the same line as the recognised hedged item. However, when the hedged forecast transaction results in the recognition of non-financial asset or a non-financial liability, such gain or loss are transferred from equity (but not as a reclassification adjustment) and included in the initial measurement of the cost of the non-financial asset or non-financial liability.

In cases, where the designated hedging instruments are options and forward contracts, the Group has an option, for each designation, to designate on an instrument only the changes in intrinsic value of the option and spot element of forward contract respectively as hedges. In such cases the time value of the options is accounted based on the type of hedged item which those options hedge.

In case of transaction related hedged item in the above cases, the change in time value of the options is recognised in other comprehensive income to the extent it relates to the hedged item and accumulated in a separate component of equity i.e., Reserve for time value of options and forward elements of forward contract in hedging relationship. This separate component is removed and directly included in the initial cost or other carrying amount of the asset or the liability (i.e. not as a reclassification adjustment thus not affecting other comprehensive income) if the hedged item subsequently results in recognition of

a non-financial asset or non-financial liability. In other cases, the amount accumulated is reclassified to profit or loss as a reclassification adjustment in the same period in which the hedged expected future cash flow affects profit or loss.

In case of time period related hedged item in the above cases, the change in time value of the options is recognised in other comprehensive income to the extent it relates to the hedged item and accumulated in a separate component of equity i.e., Reserve for time value of options and forward elements of forward contracts in hedging relationship. The time value of options at the date of designation of the options in the hedging relationship is amortised on a systematic and rational basis over the period during which the options intrinsic value could affect profit or loss. This is done as a reclassification adjustment and hence affects other comprehensive income.

In cases where only the spot element of the forward contracts is designated in a hedging relationship and the forward element of the forward contract is not designated, the Group makes the choice for each designation whether to recognise the changes in forward element of fair value of the forward contracts in profit or loss or to account for this element similar to the time value of option (as described above).

Hedge accounting is discontinued when the hedging instrument expires or is sold, terminated, or exercised, or when it no longer qualifies for hedge accounting. Any gain or loss recognised in other comprehensive income and accumulated in equity at that time remains in equity and is recognised when the forecasted transactions is ultimately recognised in profit or loss. When a forecasted transaction is no longer expected to occur, the gain or loss accumulated in equity is recognised immediately in profit or loss.

3.28 Insurance claims

Insurance claims are accounted for on the basis of claims admitted/ expected to be admitted and to the extent that the amount recoverable can be measured reliably and it is reasonable to expect ultimate collection.

3.29 Operating cycle

Based on the nature of the products/activities of the Group and the normal time between acquisition of assets and their realisation in cash or cash equivalents, the Group has determined its operating cycle as 12 months for the purpose of classification of its assets and liabilities as current and non-current.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

4. Property, plant and equipment

Particulars	As at	
	31.03.2018	31.03.2017
A. Carrying amounts		
Freehold land	105.32	105.10
Buildings	1896.81	1823.17
Plant and equipment	4000.32	3743.61
Furniture and fittings	61.07	66.55
Vehicles	66.94	57.63
Vehicles under finance lease	13.55	21.67
	6144.01	5817.73
B. Capital work-in-progress	302.51	725.64

Cost	Freehold land	Buildings (a)	Plant and equipment	Furniture and fittings	Vehicles	Vehicles under finance lease	Total
Balance at March 31, 2016	104.54	1648.73	4154.57	75.93	75.31	26.92	6086.00
Additions (b)	-	264.63	1108.97	31.93	10.69	8.68	1424.90
Disposals	-	(0.04)	(112.18)	(5.12)	(1.45)	(0.27)	(119.06)
Translation differences	0.56	66.09	130.64	0.34	4.16	-	201.79
Balance at March 31, 2017	105.10	1979.41	5282.00	103.08	88.71	35.33	7593.63
Additions (b)	-	171.09	1148.74	13.89	27.55	1.99	1363.26
Disposals	-	(4.82)	(82.88)	(8.04)	(3.49)	(5.74)	(104.97)
Translation differences	0.22	(1.16)	6.45	0.25	0.80	-	6.56
Balance at March 31, 2018	105.32	2144.52	6354.31	109.18	113.57	31.58	8858.48

Accumulated depreciation and impairment	Freehold land	Buildings	Plant and equipment	Furniture and fittings	Vehicles	Vehicles under finance lease	Total
Balance at March 31, 2016	-	71.48	707.04	16.86	14.32	5.35	815.05
Depreciation expense	-	81.51	800.86	20.47	15.86	8.58	927.28
Eliminated on disposals	-	-	(5.61)	(0.95)	(0.54)	(0.27)	(7.37)
Translation differences	-	3.25	36.10	0.15	1.44	-	40.94
Balance at March 31, 2017	-	156.24	1538.39	36.53	31.08	13.66	1775.90
Depreciation expense	-	92.81	881.71	19.50	17.10	9.21	1020.33
Eliminated on disposals	-	(1.78)	(67.96)	(8.01)	(2.38)	(4.84)	(84.97)
Translation differences	-	0.44	1.85	0.09	0.83	-	3.21
Balance at March 31, 2018	-	247.71	2353.99	48.11	46.63	18.03	2714.47

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Carrying amounts	Freehold land	Buildings	Plant and equipment	Furniture and fittings	Vehicles	Vehicles under finance lease	Total
Balance at March 31, 2016	104.54	1577.25	3447.53	59.07	60.99	21.57	5270.95
Additions	-	264.63	1108.97	31.93	10.69	8.68	1424.90
Depreciation expense	-	(81.51)	(800.86)	(20.47)	(15.86)	(8.58)	(927.28)
Disposals (net)	-	(0.04)	(106.57)	(4.17)	(0.91)	-	(111.69)
Translation differences	0.56	62.84	94.54	0.19	2.72	-	160.85
Balance at March 31, 2017	105.10	1823.17	3743.61	66.55	57.63	21.67	5817.73
Additions	-	171.09	1148.74	13.89	27.55	1.99	1363.26
Depreciation expense	-	(92.81)	(881.71)	(19.50)	(17.10)	(9.21)	(1020.33)
Disposals (net)	-	(3.04)	(14.92)	(0.03)	(1.11)	(0.90)	(20.00)
Translation differences	0.22	(1.60)	4.60	0.16	(0.03)	-	3.35
Balance at March 31, 2018	105.32	1896.81	4000.32	61.07	66.94	13.55	6144.01

Capital work in progress movement	Total
Balance at March 31, 2016	841.77
Addition during the year	1308.77
Capitalised during the year	(1424.90)
Balance at March 31, 2017	725.64
Addition during the year	940.13
Capitalised during the year	(1363.26)
Balance at March 31, 2018	302.51

(a) Includes ₹729.86 million (Previous year: ₹722.56 million) being cost of building on leasehold land.

(b) Includes Research and Development capital expenditure of ₹26.54 million (Previous year: ₹11.45 million) - Refer Note: 39(b) on Research & Development expenditure.

(c) Capitalised borrowing cost:

Borrowing costs capitalised on property, plant and equipment during the year ₹Nil (Previous year: ₹Nil).

(d) Assets pledged as security:

Immovable properties of the Parent carry pari-passu charge in favour of the consortium of bankers as security for banking facilities availed.

Plant & Machinery relating to a domestic subsidiary carry a charge in favour of a banker as security for the Term Loan availed.

The vehicles purchased through finance lease arrangement are hypothecated to the lessor.

(e) Contractual obligations:

Refer Note: 33 for disclosure of Contractual commitments for acquisition of property, plant and equipment.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

5A. Goodwill on Consolidation

Particulars	As at	
	31.03.2018	31.03.2017
Cost or deemed costs	1188.75	1185.29
Accumulated impairment losses	(37.34)	(37.34)
	1151.41	1147.95

Particulars	As at	
	31.03.2018	31.03.2017
Balance at beginning of the year	1147.95	1214.51
Add: Exchange difference during the year on translation of goodwill of foreign subsidiaries	3.46	(29.22)
Less: Impaired during the year	-	(37.34)
	1151.41	1147.95

Total carrying amount of recoverable goodwill is based upon value in use and not based on fair value less cost of disposal.

Accumulated Impairment losses

The carrying amount of goodwill as at the year ended March 31, 2018 comprise of the goodwill initially recognised at the time of acquisition of Volzhsky Abrasives Works [VAW] & the balance relate to the goodwill recognised on acquisition of other subsidiaries.

(i) Goodwill recognised at the time of acquisition of Volzhsky Abrasives Works [VAW]

The goodwill recognised at the time of acquisition of VAW represents the significant portion of the total goodwill carried by the Group. This arose when VAW was acquired by the Group through its wholly owned subsidiary in FY 2007-08. The value in use is arrived at by discounting the cash flow projections using the financial budgets covering a period of three years, approved by the Board of directors of VAW and extrapolating it beyond three years using a growth rate of 5% p.a. The cash flows have been discounted using a rate of 15.1% p.a. This growth rate does not exceed the long term average growth rate. The Group believes that any reasonable further change in the key assumptions on which recoverable amount is based, would not cause the carrying amount to exceed its recoverable amount.

(ii) Goodwill recognised at the time of acquisition of other entities

This represents the goodwill recognised on the acquisition of other subsidiaries viz., Sterling Abrasives Ltd., Southern Energy Development Corporation Ltd. and CUMI (Australia) Pty Ltd. The aggregate values of the same are not significant. The Group believes that the carrying amount of the goodwill is recoverable.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

5B. Other Intangible assets

Particulars	As at	
	31.03.2018	31.03.2017
(i) Carrying amounts		
Software	20.66	13.15
Technical know-how	40.37	69.23
Total	61.03	82.38
(ii) Intangible assets under development	0.29	0.34

Cost	Software	Technical know-how	Total
Balance at March 31, 2016	24.68	118.94	143.62
Additions (a)	7.59	6.23	13.82
Disposals	(0.09)	-	(0.09)
Translation differences	-	0.18	0.18
Balance at March 31, 2017	32.18	125.35	157.53
Additions (a)	18.28	-	18.28
Translation differences	-	(0.01)	(0.01)
Balance at March 31, 2018	50.46	125.34	175.80

Accumulated amortisation and impairment	Software	Technical know-how	Total
Balance at March 31, 2016	10.35	27.36	37.71
Amortisation expense	8.76	28.77	37.53
Disposals	(0.08)	-	(0.08)
Translation differences	-	(0.01)	(0.01)
Balance at March 31, 2017	19.03	56.12	75.15
Amortisation expense	10.77	28.85	39.62
Balance at March 31, 2018	29.80	84.97	114.77

Carrying amounts	Software	Technical know-how	Total
Balance at March 31, 2016	14.33	91.58	105.91
Additions	7.59	6.23	13.82
Amortisation expense	(8.76)	(28.77)	(37.53)
Disposals (net)	(0.01)	-	(0.01)
Translation differences	-	0.19	0.19
Balance at March 31, 2017	13.15	69.23	82.38
Additions	18.28	-	18.28
Amortisation expense	(10.77)	(28.85)	(39.62)
Translation differences	-	(0.01)	(0.01)
Balance at March 31, 2018	20.66	40.37	61.03

(a) Includes Research & Development capital expenditure of ₹0.02 million (Previous year: ₹2.29 million) - Refer Note: 39(b) on Research & Development expenditure.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

6A. Investments in Associate

Particulars	As at			
	31.03.2018		31.03.2017	
	No. of shares	Amount	No. of shares	Amount
Wendt (India) Ltd. [WENDT]	797,352	484.89	797,352	447.77
Total Carrying value	797,352	484.89	797,352	447.77
Book value of Quoted Investment		484.89		447.77
Market value of Quoted Investment		1946.73		1511.98

Name of the Associate	Nature of business	Place of incorporation and principal place of business	Proportion of ownership's interest/voting rights held by the Group	
			As at	
			31.03.2018	31.03.2017
Wendt (India) Ltd.	Super abrasives	India	39.87%	39.87%

The Group has consolidated the above Associate using equity method.

Principal activities of the business: A leading manufacturer of Super Abrasives (Diamond and Cubic Boron Nitride), Special purpose Grinding machine and tools, offering functionally superior products and services for grinding and machining "Hard - To - process Materials"

Pursuant to shareholders' agreement, the Parent has the right to cast 39.87% of the votes at shareholders' meeting of Wendt (India) Ltd. . The investment in this entity, is treated as an Associate, since in addition to the co-venturer (who holds similar stake as CUMI), general public also holds the remaining portion of shares. Hence the Group has not treated this investment as Joint venture investment.

Summarised financial information of Associate

The summarised financial information given below represents amount shown in the Associate's consolidated financial statements prepared in accordance with Ind AS adjusted by the Group for equity accounting purposes.

Wendt (India) Ltd.		As at	
Particulars		31.03.2018	31.03.2017
Non-current assets		623.16	666.49
Current assets		976.17	788.06
Non-current liabilities		(48.86)	(79.62)
Current liabilities		(334.23)	(251.78)

Particulars	for the year	
	2017-18	2016-17
Revenue	1541.92	1590.96
Profit for the year	131.24	120.51
Other Comprehensive Income	22.04	(7.05)
Total Comprehensive Income	153.28	113.46
Dividend received from WENDT	19.93	19.93

Reconciliation of the above summarised financial information to the carrying amount of the interest in Wendt (India) Ltd. recognised in consolidated financial statements is given below:

Particulars	As at	
	31.03.2018	31.03.2017
Net assets of WENDT	1216.24	1123.15
Proportion of the Group's ownership interest in WENDT	39.87%	39.87%
Carrying amount of the Group's interest in WENDT	484.89	447.77

Fair value of the Group's interest in Wendt (India) Ltd., which is listed in the Stock exchange of India as on 31st March 2018 was ₹1946.73 million (as at 31st March 2017 ₹1511.98 million)

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Particulars	As at	
	31.03.2018	31.03.2017
I. Contingent liabilities: Wendt (India) Ltd.		
a. Directly incurred by the Group	-	-
b. Share of the Group which have been incurred with other investors	-	-
c. Group's share in relation to its interest in Associate	-	2.37
II. Commitments - Capital: Wendt (India) Ltd.		
a. Directly incurred by the Group	-	-
b. Share of the Group which have been incurred with other investors	-	-
c. Group's share in relation to its interest in Associate	13.62	14.69

6B. Investments in Joint Ventures

Name of the Joint Ventures	As at			
	31.03.2018		31.03.2017	
	No. of shares	Amount	No. of shares	Amount
Unquoted Investment - Equity shares				
Murugappa Morgan Thermal Ceramics Ltd. [MMTCL]	1,430,793	516.89	1,430,793	530.64
Ciria India Ltd. [CIRIA]	59,998	70.38	59,998	83.67
Total Carrying value		587.27		614.31
Aggregate value of unquoted investments		587.27		614.31

Details of the Group's Joint Ventures at the end of the reporting period are as follows:

Name of the Joint Ventures	Nature of business	Place of incorporation and principal place of business	Proportion of ownership's interest/ voting rights held by the Group	
			31.03.2018	31.03.2017
Murugappa Morgan Thermal Ceramics Ltd.	Ceramics	India	49%	49%
Ciria India Ltd.	Ceramics	India	30%	30%

Nature of Business:

a) MMTCL: Manufacture of complete range of ceramics fiber products.

b) CIRIA: Providing refractory engineering solutions and supply of refractory materials.

The Group has entered into Joint venture agreements with the co-venturer and hence the investment in the above entities are treated as Joint venture. Both the venturers have joint control on the entities. Accordingly, the Group has consolidated the above Joint ventures using equity method.

Summarised financial information of Joint Ventures:

The summarised financial information below represents the amount shown in the Joint venture's financial statements prepared in accordance with Ind AS adjusted by the group for equity accounting purposes.

Murugappa Morgan Thermal Ceramics Ltd.

Particulars	As at	
	31.03.2018	31.03.2017
Non-current assets	592.44	619.21
Current assets	720.00	727.85
Non-current liabilities	(22.30)	(27.09)
Current liabilities	(235.25)	(237.02)

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

The above amount of assets and liabilities includes the following:

Particulars	As at	
	31.03.2018	31.03.2017
Cash and cash equivalents	34.01	28.64
Current financial liabilities (excluding trade payables and provisions)	-	-
Non-current financial liabilities (excluding trade payables and provisions)	-	-

Particulars	For the year	
	2017-18	2016-17
Revenue	1351.64	1503.10
Profit for the year	145.94	217.33
Other Comprehensive Income	1.73	(1.94)
Total Comprehensive Income	147.67	215.39
Dividend received from MMTCL	71.54	157.39

The above profit for the year includes the following:

Depreciation and amortisation	73.49	81.82
Interest income	1.07	0.69
Interest expense	-	-
Income tax expense	77.80	108.87

Reconciliation of the above summarised financial information to the carrying amount of the interest in Murugappa Morgan Thermal Ceramics Ltd. recognised in the consolidated financial statements is given below:

Particulars	As at	
	31.03.2018	31.03.2017
Net assets of MMTCL	1054.89	1082.95
Proportion of the Group's ownership interest in MMTCL	49%	49%
Carrying amount of the Group's interest in MMTCL	516.89	530.64

Ciria India Ltd.

Particulars	As at	
	31.03.2018	31.03.2017
Non-current assets	47.86	41.77
Current assets	437.71	441.74
Non-current liabilities	(6.70)	(7.04)
Current liabilities	(244.28)	(197.56)

The above amount of assets and liabilities includes the following:

Particulars	As at	
	31.03.2018	31.03.2017
Cash and cash equivalents	22.63	55.62
Current financial liabilities (excluding trade payables and provisions)	-	-
Non-current financial liabilities (excluding trade payables and provisions)	-	-

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Particulars	For the year	
	2017-18	2016-17
Revenue	775.15	988.21
Profit for the year	75.86	121.14
Other Comprehensive Income	0.18	(0.06)
Total Comprehensive Income	76.04	121.08
Dividend received from CIRIA	30.00	15.00
The above profit for the year includes the following:		
Depreciation and amortisation	8.43	8.53
Interest income	0.00	0.00
Interest expenses	-	-
Income tax expenses (income)	35.18	63.19

Reconciliation of the above summarised financial information to the carrying amount of the interest in Ciria India Ltd. recognised in the consolidated financial statements is given below:

Particulars	As at	
	31.03.2018	31.03.2017
Net assets of CIRIA	234.59	278.91
Proportion of the Group's ownership interest in CIRIA	30.00%	30.00%
Carrying amount of the Group's interest in CIRIA	70.38	83.67

Unrecognised share of losses of Joint Ventures: MMTCL & CIRIA

Particulars	For the year	
	2017-18	2016-17
The unrecognised share of loss on Joint Ventures for the year	-	-
Cumulative unrecognised share of loss of Joint Ventures	-	-

The Joint ventures: Murugappa Morgan Thermal Ceramics Ltd. and Ciria India Ltd., cannot distribute its profits until it obtains the consent from both the venturers.

Particulars	As at 31.03.2018		As at 31.03.2017	
	MMTCL	CIRIA	MMTCL	CIRIA
I. Contingent liabilities				
a. Directly incurred by the Group	-	-	-	-
b. Share of the Group which have been incurred along with other investors	-	-	-	-
c. Group's share in relation to its interest in Joint venture	11.90	0.65	9.01	0.65
II. Commitments - Capital				
a. Directly incurred by the Group	-	-	-	-
b. Share of the Group which have been incurred along with other investors	-	-	-	-
c. Group's share in relation to its interest in Joint venture	4.75	-	4.61	-

Notes forming part of the Consolidated Financial Statements

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6C. Other Investments

Particulars	As at	
	31.03.2018	31.03.2017
(i) Non-current		
(a) Investment in Equity instruments at FVTOCI		
Quoted		
Coromandel Engineering Co. Ltd.	144.85	118.22
Unquoted		
Murugappa Management Services Ltd.	11.30	11.30
(b) Investments in Equity Instruments at FVTPL		
Quoted	3.81	3.03
Unquoted	0.33	0.30
Total (a+b)	160.29	132.85
Aggregate book value of quoted investments	148.66	121.25
Aggregate market value of quoted investments	148.66	121.25
Aggregate carrying value of unquoted investments	11.63	11.60
Aggregate amount of impairment in value of investments	-	-
(ii) Current		
Instruments at Fair Value Through Profit or Loss (FVTPL) - Mutual fund	570.49	49.64

Category wise other investments - as per Ind AS 109	As at	
	31.03.2018	31.03.2017
Financial asset measured at FVTPL - Equity instruments & Others	574.63	52.97
Financial asset measured at FVTOCI - Equity instruments	156.15	129.52
	730.78	182.49

7. Other financial assets

Particulars	As at	
	31.03.2018	31.03.2017
A. Non-current		
Security deposits	120.76	110.80
B. Current		
Deposits	0.28	0.03
Advances to employees	12.78	11.97
Other receivables		
Considered good	41.60	42.48
Considered doubtful	1.11	0.92
Less: Allowance for doubtful receivables	(1.11)	(0.92)
	54.66	54.48

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

8. Deferred tax assets (net) and Deferred tax liabilities (net)

Particulars	As at	
	31.03.2018	31.03.2017
A. Deferred tax assets (net)	109.64	89.98
B. Deferred tax liabilities (net)	383.15	463.95

Particulars	2017-18				
	Balance as at 31.03.2017	Recognised in Profit or Loss	Recognised in OCI	Translation adjustment	Balance as at 31.03.2018
A. Deferred tax assets (net)					
Allowance for doubtful receivables and advances	0.68	0.38	-	-	1.06
Expenses allowed on payment/realisation basis	21.88	(2.63)	-	1.40	20.65
Accelerated depreciation for tax purposes	(12.50)	5.94	-	(3.25)	(9.81)
Tax losses	60.77	-	-	6.22	66.99
Tax on Unrealised profit on stock	19.15	11.60	-	-	30.75
Total	89.98	15.29	-	4.37	109.64
B. Deferred tax liabilities (net)					
Allowance for doubtful receivables and advances	(27.76)	(4.25)	-	0.26	(31.75)
Voluntary retirement scheme payments	(0.43)	(0.21)	-	-	(0.64)
Expenses allowed on payment/realisation basis	(54.56)	(13.91)	-	(0.09)	(68.56)
Principal portion of finance lease rentals	(1.69)	(0.27)	-	-	(1.96)
Cash flow hedges	1.50	-	(1.33)	-	0.17
Tax on undistributed profit	89.04	8.64	-	-	97.68
Accelerated depreciation for tax purposes	457.85	(69.16)	-	(0.48)	388.21
Total	463.95	(79.16)	(1.33)	(0.31)	383.15
Movement during the year (B - A)	373.97	(94.45)	(1.33)	(4.68)	273.51

Particulars	2016-17				
	Balance as at 31.03.2016	Recognised in Profit or Loss	Recognised in OCI	Translation adjustment	Balance as at 31.03.2017
A. Deferred tax assets (net)					
Allowance for doubtful receivables and advances	-	0.68	-	-	0.68
Expenses allowed on payment/realisation basis	21.73	(0.83)	-	0.98	21.88
Accelerated depreciation for tax purposes	(18.00)	7.32	-	(1.82)	(12.50)
Tax losses	54.74	2.89	-	3.14	60.77
Tax on Unrealised profit on stock	17.24	1.91	-	-	19.15
Total	75.71	11.97	-	2.30	89.98
B. Deferred tax liabilities (net)					
Allowance for doubtful receivables and advances	(49.01)	23.09	-	(1.84)	(27.76)
Voluntary retirement scheme payments	(1.58)	1.15	-	-	(0.43)
Expenses allowed on payment/realisation basis	(52.63)	(0.62)	-	(1.31)	(54.56)
Principal portion of finance lease rentals	(0.92)	(0.77)	-	-	(1.69)
Cash flow hedges	0.24	-	1.26	-	1.50
Tax on undistributed profit	86.83	2.21	-	-	89.04
Accelerated depreciation for tax purposes	500.50	(42.86)	-	0.21	457.85
Total	483.43	(17.80)	1.26	(2.94)	463.95
Movement during the year (B - A)	407.72	(29.77)	1.26	(5.24)	373.97

(a) Tax losses in respect of subsidiaries where the foreseeable business profits are estimated reasonably in the near future is considered for recognition of deferred tax assets in respective entities in compliance with tax laws of the respective countries.

(b) Deferred tax assets have not been recognised in respect of losses as they may not be used to offset taxable profit elsewhere in the Group, also they have arisen in subsidiaries that have been loss-making for sometime and there are no other tax planning opportunities or other evidence of recoverability in the near future.

Notes forming part of the Consolidated Financial Statements

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9. Other assets

Particulars	As at	
	31.03.2018	31.03.2017
A. Non-current		
Capital advances	62.08	104.17
Prepayments	136.81	138.81
Deposits paid under protest relating to Sales tax, Value Added Tax, Central Excise and Service tax demands	16.53	19.59
Taxation (net of provisions)	95.49	80.30
	310.91	342.87
B. Current		
Prepayments	124.49	101.84
Recoverable from Electricity Board - Banked power	-	74.61
Trade advance to Supplier	210.30	223.48
Balances with Statutory authorities	172.32	272.15
	507.11	672.08

10. Inventories

Particulars	As at	
	31.03.2018	31.03.2017
Raw materials	1551.08	982.91
Raw materials in transit	124.20	68.95
Work-in-progress	898.95	887.74
Stock-in-trade	633.32	629.01
Stock-in-trade in transit	63.37	37.74
Finished goods	530.26	815.08
Stores and spares	579.06	445.54
	4380.24	3866.97

- The mode of valuation of inventories has been stated in Note: 3.16.
- The cost of inventories recognised as an expense (consumption) during the year was ₹9146.30 million (Previous year: ₹8098.65 million) and such expense includes ₹10.62 million towards reversal of write-down of inventory to net realisable value (the corresponding reversal amount for previous year, was ₹14.60 million). The write-down of inventory to net realisable value made in earlier years were reversed in current year as a result of increased realisations in certain markets/segments.
- All the above inventories are expected to be recovered within twelve months.

11. Trade receivables (Unsecured)

Particulars	As at	
	31.03.2018	31.03.2017
Current		
Considered good	4750.60	3805.83
Doubtful	103.66	101.57
Allowance for doubtful receivables (expected credit loss allowance)	(103.66)	(101.57)
	4750.60	3805.83

- Trade receivables are generally due between 30 to 60 days. The Group's term includes charging of interest for delayed payment beyond agreed credit days. However, the entities under the Group exercises charging of interest after considering the historical trend, business prospects, reason for delay, market conditions etc.,

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

- b. Credit risk is managed at the respective entity level. The credit limit and credit period are fixed for each customer after evaluating the financial position, past performance, business opportunities, credit references etc. The entities under the Group may consider credit rating when needed. The credit limit and the credit period are reviewed regularly at periodical intervals.
- c. Concentration risk considers significant exposures relating to industry, counterparty, geography, currency etc. The concentration of credit risk is not significant due to the fact that the customer base is large and diversified.

The respective entities under the Group have used a practical expedient by computing the expected credit loss allowance for trade receivables based on provision matrix. The provision matrix takes into account historical credit loss experience and adjusted for forward looking information.

d. Movement in the expected credit loss allowance

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	101.57	146.65
Movement in the expected credit loss allowance on trade receivables calculated at life time expected credit losses	2.09	(45.08)
	103.66	101.57

12A. Cash and cash equivalents

Particulars	As at	
	31.03.2018	31.03.2017
Balances with banks	1256.21	1165.27
Deposit account	18.74	81.62
Cash on hand	1.39	1.50
	1276.34	1248.39

Non-cash transactions:

During the year, the Company has not entered into any non-cash transactions on investing and financing activities.

12B. Bank balances other than above

Particulars	As at	
	31.03.2018	31.03.2017
Earmarked funds	12.76	12.21

13. Equity Share Capital

Particulars	As at	
	31.03.2018	31.03.2017
Authorised share capital:		
387,250,000 (as at March 31, 2017: 387,250,000) equity shares of ₹1 each	387.25	387.25
Issued, Subscribed and Paid-up:		
188,955,751 (as at March 31, 2017: 188,658,090) equity shares of ₹1 each fully paid	188.96	188.66

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

a) Reconciliation of the shares outstanding at the beginning and at the end of the reporting period

Particulars	As at 31.03.2018		As at 31.03.2017	
	No. of Shares	Value of Shares	No. of Shares	Value of Shares
Equity shares with voting rights				
At the beginning of the year	188,658,090	188.66	188,379,560	188.38
Add: Shares issued against Employee Stock Option Scheme/Plan	297,661	0.30	278,530	0.28
At the end of the year	188,955,751	188.96	188,658,090	188.66

The Company has received share application money for 1500 shares under Employee Stock Option Scheme 2007, which is pending for allotment. This receipt is shown under "Other equity" - Refer Note no: 14C.

b) Terms/Rights attached to Equity Shares

The Company has only one class of Equity shares having a par value of ₹1/- per share. Each holder of equity shares is entitled to one vote per share. Repayment of capital will be in proportion to the number of equity shares held.

c) Dividend details

An interim dividend of ₹1/- per share was declared at the meeting of the Board of Directors held on February 14, 2018 and the same has been paid (previous year an interim dividend of ₹1/- per share was declared at the meeting of the Board of Directors held on February 04, 2017 and the same has been paid).

Final dividend of ₹1.25 per share is proposed for the year ended March 31, 2018 (previous year final dividend of ₹0.75 was proposed and paid). The dividend proposed by the Board of Directors is subject to the approval of the shareholders in the ensuing Annual General Meeting, upon which the liability will be recorded in the books.

d) Details of shares held by shareholders holding more than 5% of the aggregate shares in the Company

Name of Shareholder	As at			
	31.03.2018		31.03.2017	
	No. of Shares held	% of holding	No. of Shares held	% of holding
Ambadi Investments Ltd.*	56,054,244	29.67%	3,121,960	1.65%
Murugappa Holdings Ltd.**	-	-	55,432,284	29.38%
HDFC Trustee Company Ltd.*	16,873,797	8.93%	16,864,050	8.94%

*Holdings combined based on the PAN of the shareholders.

** Merged with Ambadi Investments Ltd. (formerly known as Ambadi Investments Private Ltd.) w.e.f. 28th August 2017.

e) Stock options granted under the Company's Employee Stock Option Scheme/Plan

Stock options granted under the Company's Employee Stock Option Scheme/Plan pending exercise by option holders carry no right to dividend and voting rights. Further details of the Employee Stock Option Scheme/Plan are provided in Note: 36 of Standalone Financial Statements.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

14. Other equity

Particulars	As at	
	31.03.2018	31.03.2017
A. Reserves and Surplus		
a. Profit on Forfeiture of Shares/Warrants	6.03	6.03
b. Capital redemption reserve	27.68	27.68
c. Capital reserve on consolidation	706.77	704.65
d. Securities premium	226.19	194.15
e. General reserve	6730.94	6230.94
f. Share options outstanding account	30.84	16.08
g. Retained earnings	7360.98	6107.27
B. Items of Other Comprehensive Income		
h. Reserve for equity instruments	84.42	57.79
i. Effective portion of Cash flow Hedge	0.25	1.82
j. Foreign currency translation reserve	256.47	269.05
k. Revaluation surplus	23.74	23.74
C. Share application pending allotment	-	-
l. Share application pending allotment	0.23	-
Total Other equity	15454.54	13639.20

a. Profit on forfeiture of shares/warrants

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	6.03	6.03
Movements	-	-
Balance at end of the year	6.03	6.03

During 1999, an amount of ₹6.03 million has been added on account of forfeiture of shares in the Parent company. This balance can be used in paying up unissued shares as fully paid bonus shares to the shareholders of the Parent company.

b. Capital redemption reserve

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	27.68	27.68
Movements	-	-
Balance at end of the year	27.68	27.68

During the year 2000-01, the Company bought back 2,768,000 shares at the then face value of ₹10 each at the price of ₹115 per share from the shareholders, pursuant to the offer of buy back of shares. A sum equal to nominal value of shares so bought back was transferred to capital redemption reserve account as per Companies Act, 1956. This reserve can be used in paying up unissued shares as fully paid bonus shares to the shareholders of the Company.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

c. Capital reserve on consolidation

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	704.65	720.22
Movements due to translation impact	2.12	(15.57)
Balance at end of the year	706.77	704.65

Capital reserve on consolidation was created on account of acquisition of step down subsidiary: Thukela Refractories Isithebe Pty Ltd.; Joint ventures: MMTCL & CIRIA; and Associate: WENDT, since the consideration paid was lower than the net worth of the acquiring company on the date of acquisition. The balance in this reserve will get transferred at the time of disposal of the relevant investment.

d. Securities premium

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	194.15	166.61
Movements	32.04	27.54
Balance at end of the year	226.19	194.15

The Securities premium received during the year represents the premium received towards allotment of 297,661 shares. Cumulatively 2,247,751 equity shares were allotted during the period FY 2009-10 to FY 2017-18 under ESOP Scheme 2007 and ESOP Plan 2016 (Refer Note: 36 of Standalone Financial Statements towards details of the Scheme/Plan).

This balance will be utilised in accordance with the provisions of Section 52 of the Companies Act, 2013 towards issuance of fully paid bonus shares, write-off of preliminary expenses, commission/discount expenses on issue of shares/debentures, premium payable on redemption of redeemable preference shares/debentures and buy back of its own shares/securities under Section 68 of the Companies Act.

e. General reserve

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	6230.94	5730.94
Movements: Transfer from retained earnings	500.00	500.00
Balance at end of the year	6730.94	6230.94

The general reserve is a free reserve, retained from Group's profits and can be utilized upon fulfilling certain conditions in accordance with statute of the relevant Act.

f. Share options outstanding account

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	16.08	11.77
Movements	14.76	4.31
Balance at end of the year	30.84	16.08

Under Ind AS 102, fair value of the options granted is to be expensed out over the life of the vesting period as employee compensation costs reflecting period of receipt of service. Refer Note: 36 of Standalone Financial Statements for details.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

g. Retained earnings

Particulars	As at	
	31.03.2018	31.03.2017
Opening Balance	6107.27	5142.77
Add: Profits for the year	2155.96	1748.67
Less: Other Comprehensive Income arising from remeasurement of defined benefit obligation net of tax	5.99	(31.33)
Less: Transfer to General reserve	(500.00)	(500.00)
Less: Final dividend paid	(141.51)	-
Less: Dividend tax on Final dividend paid	(14.92)	-
Less: Interim dividend	(188.93)	(188.63)
Less: Dividend tax on Interim dividend	(20.31)	(15.75)
Less: Dividend tax on Subsidiaries & Joint ventures	(42.57)	(48.46)
	7360.98	6107.27

The amount that can be distributed by the Group as dividend to its equity shareholders is determined based on the financial position and dividend policy of the Group and in compliance with the applicable statutes.

h. Reserve for equity instruments

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	57.79	111.95
Movements	26.63	(54.16)
Balance at end of the year	84.42	57.79

This reserve represents the cumulative gains and losses arising on the revaluation of equity instruments measured at fair value through other comprehensive income (Refer Note: 6C(i)), which will be reclassified to retained earnings when those assets are disposed off.

i. Effective portion of Cash flow Hedge

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	1.82	0.30
Movements	(1.57)	1.52
Balance at end of the year	0.25	1.82

The hedging reserve represents the cumulative effective portion of gains or losses arising on changes in fair value of designated portion of hedging instruments entered into for cash flow hedges. The reserve will be reclassified to profit or loss when the hedged transaction impacts the profit or loss, or included as a basis adjustment to the non-financial hedged item.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

j. Foreign currency translation reserve

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	269.05	(207.79)
Movements	(12.58)	476.84
Balance at end of the year	256.47	269.05

Exchange differences relating to the translation of the results and net assets of the Group's foreign subsidiaries from their functional currencies to the Group's presentation currency (i.e. Indian Rupees) are recognised directly in Other Comprehensive Income and accumulated in the foreign currency translation reserve. Exchange differences accumulated in the foreign currency translation reserve are reclassified to Profit or Loss at the time of disposal of respective foreign operation.

k. Revaluation surplus

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	23.74	23.74
Movements	-	-
Balance at end of the year	23.74	23.74

Land & Buildings of the Parent company added upto 31st August 1984 were revalued in 1984 based on the valuation done by an independent valuer. The value added on revaluation amounting to ₹58.41 million was credited to fixed asset revaluation reserve. The depreciation charged on the revalued portion was recouped every year from this reserve upto March 31, 2015 under previous GAAP.

l. Share application money pending allotment

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	-	-
Movements	0.23	-
Balance at end of the year	0.23	-

Share application money pending for allotment under ESOP scheme. This represents the amount to the extent not refundable.

15. Non-Controlling Interest [NCI]

Particulars	As at	
	31.03.2018	31.03.2017
Balance at beginning of the year	656.63	621.61
Share of Profit	39.92	89.13
Share of Other Comprehensive Income	(1.10)	0.27
Dividend paid to Non-Controlling Interest and its relevant tax thereon	(84.36)	(68.38)
Translation impact on Non-Controlling Interest of foreign subsidiaries	3.65	14.00
Balance as at the end of the year	614.74	656.63

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Details of Non-Controlling Interests

The table below shows details relating to Non-Controlling Interest in the entities which are not wholly owned by the Group.

Name of the Subsidiary	Place of incorporation	Proportion of ownership	
		31.03.2018	31.03.2017
Southern Energy Development Corporation Ltd.	India	15.24%	15.24%
Sterling Abrasives Ltd.	India	40.00%	40.00%
CUMI (Australia) Pty Ltd.	Australia	48.78%	48.78%
Volzhsky Abrasives Works	Russia	2.56%	2.56%
Foskor Zirconia (Pty) Ltd.	South Africa	49.00%	49.00%

Name of the Subsidiary	Accumulated Non-Controlling Interest		Profit / (Loss) allocated to Non-Controlling Interest		Other Comprehensive Income allocated to Non-Controlling Interest	
	As at		For the year		For the year	
	31.03.2018	31.03.2017	2017-18	2016-17	2017-18	2016-17
Southern Energy Development Corporation Ltd.	26.93	35.23	7.72	9.38	0.01	(0.17)
Sterling Abrasives Ltd.	195.71	171.33	36.49	26.43	(1.27)	0.60
CUMI (Australia) Pty Ltd.	283.66	277.79	52.07	48.95	-	-
Volzhsky Abrasives Works	101.88	88.65	23.17	15.93	-	-
Foskor Zirconia (Pty) Ltd.	6.56	83.63	(79.53)	(11.56)	0.16	(0.16)
Total	614.74	656.63	39.92	89.13	(1.10)	0.27

Summarised financial information in respect of each of the Group's subsidiaries is set out below. The information below represents amounts before intragroup eliminations.

Particulars	Southern Energy Development Corporation Ltd.		Sterling Abrasives Ltd.		CUMI (Australia) Pty Ltd.	
	As at		As at		As at	
	31.03.2018	31.03.2017	31.03.2018	31.03.2017	31.03.2018	31.03.2017
Non-Current assets *	125.27	156.81	376.38	366.48	120.69	120.13
Current assets	60.38	83.80	332.81	288.98	579.48	557.19
Non-Current liabilities	(0.28)	(0.19)	(24.03)	(29.73)	(7.28)	(3.50)
Current liabilities	(8.68)	(9.25)	(195.87)	(197.39)	(96.63)	(89.60)
Equity attributable to owners of the Company	149.76	195.94	293.58	257.01	312.60	306.43
Non-Controlling Interest	26.93	35.23	195.71	171.33	283.66	277.79

* Southern Energy Development Corporation Ltd.: Non-current assets excludes fair valuation of the Parent company's shares held by it.

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For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Particulars	Southern Energy Development Corporation Ltd.		Sterling Abrasives Ltd.		CUMI (Australia) Pty Ltd.	
	For the year		For the year		For the year	
	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17
Revenue	246.43	271.07	816.39	722.35	917.28	837.80
Expenses	(195.75)	(209.48)	(725.18)	(656.28)	(810.54)	(737.46)
Profit/(Loss) for the year	50.68	61.59	91.21	66.07	106.74	100.34
Profit/(Loss) attributable to owners of the Company	42.96	52.21	54.72	39.64	54.67	51.39
Profit/(Loss) attributable to the Non-Controlling Interest of the Company	7.72	9.38	36.49	26.43	52.07	48.95
Profit/(Loss) for the year	50.68	61.59	91.21	66.07	106.74	100.34
Other Comprehensive Income attributable to owners of the Company	0.02	(0.93)	(1.91)	0.89	-	-
Other Comprehensive Income attributable to Non-Controlling Interest of the Company	0.01	(0.17)	(1.27)	0.60	-	-
Other Comprehensive Income for the year	0.03	(1.10)	(3.18)	1.49	-	-
Total Comprehensive Income attributable to owners of the Company	42.98	51.28	52.81	40.53	54.67	51.39
Total Comprehensive Income attributable to Non-Controlling Interest of the Company	7.73	9.21	35.22	27.03	52.07	48.95
Total Comprehensive Income for the year	50.71	60.49	88.03	67.56	106.74	100.34
Dividend paid to Non-Controlling Interests (including relevant tax thereon)	(16.03)	(5.91)	(10.83)	(8.12)	(48.55)	(43.87)
Net cash inflow/(outflow) from Operating activities	82.58	79.54	104.49	98.46	60.77	109.98
Net cash inflow/(outflow) from Investing activities	22.77	(40.53)	(36.66)	(26.40)	(7.23)	(5.27)
Net cash inflow/(outflow) from Financing activities	(105.19)	(38.76)	(67.24)	(74.03)	(99.53)	(91.37)
Net cash inflow/(outflow)	0.16	0.25	0.59	(1.97)	(45.99)	13.34

Particulars	Volzhsky Abrasives Works		Foskor Zirconia (Pty) Ltd.	
	As at		As at	
	31.03.2018	31.03.2017	31.03.2018	31.03.2017
Non-Current assets	1432.34	1376.13	206.71	176.37
Current assets	2967.62	2495.56	505.90	521.40
Non-Current liabilities	(70.78)	(61.61)	(272.33)	(241.22)
Current liabilities	(355.79)	(352.71)	(426.89)	(285.87)
Equity attributable to owners of the Company	3871.51	3368.72	6.83	87.05
Non-Controlling Interest	101.88	88.65	6.56	83.63

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For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Particulars	Volzhsky Abrasives Works		Foskor Zirconia (Pty) Ltd.	
	for the year		for the year	
	2017-18	2016-17	2017-18	2016-17
Revenue	5941.28	4736.04	816.96	933.84
Expenses	(5037.48)	(4114.61)	(979.27)	(957.43)
Profit/(Loss) for the year	903.80	621.43	(162.31)	(23.59)
Profit/(Loss) attributable to owners of the Company	880.63	605.50	(82.78)	(12.03)
Profit/(Loss) attributable to the Non-Controlling Interest of the Company	23.17	15.93	(79.53)	(11.56)
Profit/(Loss) for the year	903.80	621.43	(162.31)	(23.59)
Other Comprehensive Income attributable to owners of the Company	-	-	0.18	(0.17)
Other Comprehensive Income attributable to Non-Controlling Interest of the Company	-	-	0.16	(0.16)
Other Comprehensive Income for the year	-	-	0.34	(0.33)
Total Comprehensive Income attributable to owners of the Company	880.63	605.50	(82.60)	(12.20)
Total Comprehensive Income attributable to Non-Controlling Interest of the Company	23.17	15.93	(79.37)	(11.72)
Total Comprehensive Income for the year	903.80	621.43	(161.97)	(23.92)
Dividend paid to Non-Controlling Interests (including relevant tax thereon)	(8.95)	(10.48)	-	-
Net cash inflow/(outflow) from Operating activities	690.07	805.84	(49.48)	108.00
Net cash inflow/(outflow) from Investing activities	(259.30)	(339.28)	(17.37)	(27.98)
Net cash inflow/(outflow) from Financing activities	(349.01)	(409.41)	1.42	(72.59)
Net cash inflow/(outflow)	81.76	57.15	(65.43)	7.43

Notes forming part of the Consolidated Financial Statements

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16. Borrowings - Non Current

Particulars	Maturity date	Repayment terms	Interest rate	As at	
				31.03.2018	31.03.2017
Secured - at Amortised Cost					
Finance lease obligations (consisting of multiple contracts with varied maturities) (a)	Ranging from 2016 to 2022	Monthly instalments		19.22	26.18
Term loan from Bank				0.50	36.21
Unsecured - at Amortised Cost					
Redeemable Preference Share obligations (b)	Year 2023	On or before maturity date	12.7%	92.31	72.61
				112.03	135.00
Less: Current maturities of: (Refer Note: 20)					
- Term loans				0.50	35.76
- Finance lease obligations				7.54	8.23
- Redeemable Preference Share obligations				37.67	24.20
Total Non - Current Borrowings				66.32	66.81

a. Secured by vehicles acquired under finance lease arrangement - Refer Note: 37.

b. Interest accrued on preference share capital added to loan amount.

c. As per amended provisions of Ind AS 7 Statement of Cash flows, the disclosure relating to "Changes in liabilities arising from financial activities" which is effective from period beginning 1st April 2017 is given below:

Net debts reconciliation:	Note	31.03.2018	31.03.2017
Cash and Cash equivalents	12A	1276.34	1248.39
Other investments (liquid)	6C(ii)	570.49	49.64
Current borrowings	18	(1181.59)	(1424.47)
Non-Current borrowings (including current maturities)	16	(112.03)	(135.00)
Net Cash/(Net debt)		553.21	(261.44)

Particulars	Other assets		Liabilities from Financing activities		Total
	Cash and Cash equivalents	Other investments (liquid)	Current borrowings	Non Current borrowings (including current maturities)	
Net Cash/(Net debt) as at 31 st March 2017	1248.39	49.64	(1424.47)	(135.00)	(261.44)
Changes from Financing Cash flows	28.20	520.85	273.56	33.36	855.97
The effect of changes in foreign exchange rates	(0.25)	-	(30.68)	(10.39)	(41.32)
Net Cash/(Net debt) as at 31 st March 2018	1276.34	570.49	(1181.59)	(112.03)	553.21

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

17. Provision

Particulars	As at	
	31.03.2018	31.03.2017
A. Non-Current		
Employee benefits	91.69	75.52
B. Current		
Employee benefits	170.59	161.34

The movement represents the provision created for the year arising out of the valuation after considering the actual settlements made during the year.

18. Borrowings - Current

Particulars	As at	
	31.03.2018	31.03.2017
Unsecured - at amortised cost		
Other borrowings	574.86	879.23
Cash credit (repayable on demand)	508.95	454.26
Secured - at amortised cost (a)		
Cash credit (repayable on demand)	97.78	90.98
	1181.59	1424.47

(a) The funding facility availed by one of the domestic subsidiary is secured by its current assets.

19. Trade payables

Particulars	As at	
	31.03.2018	31.03.2017
Total outstanding dues to Micro and Small enterprises	16.21	18.15
Other Trade payables	1959.46	1632.08
	1975.67	1650.23

- a. Trade payables are non-interest bearing and are normally settled within the agreed due dates, generally ranging from 30 to 60 days.
- b. All the payables are settled within the credit period as per pre-agreed terms. The entities in the Group have financial risk management policies in place to ensure that the payments are made within agreed period.

20. Other financial liabilities

Particulars	As at	
	31.03.2018	31.03.2017
Current		
Secured		
Current maturities of Long term loan (Refer Note: 16)	0.50	35.76
Current maturities of Finance lease obligations (Refer Note: 16)	7.54	8.23
Unsecured		
Current maturities of Redeemable Preference Share obligation (Refer Note: 16)	37.67	24.20
Unclaimed and Unpaid dividends	18.96	17.59
Remuneration payable to Directors	21.32	21.44
Deposits	45.54	37.98
Payable relating to Capital expenditure	63.77	82.54
Other payables	472.31	443.07
	667.61	670.81

Notes forming part of the Consolidated Financial Statements

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21. Other current liabilities

Particulars	As at	
	31.03.2018	31.03.2017
Advances from Customers	92.81	74.11
Statutory liabilities	97.54	150.49
	190.35	224.60

22. Revenue from operations

Particulars	For the year	
	2017-18	2016-17
a. Gross Sales/Income from Operations		
Sale of products (including Excise duty of ₹274.07 million for the year 2017-18 and ₹1198.59 million for the year 2016-17) - Refer Note: 31 "Segmental Disclosure" for breakup of sales.	23131.10	21597.22
Sale of services/Income from Contracts	447.55	401.80
	23578.65	21999.02
b. Other operating income		
Service income	94.12	88.43
Commission income	0.10	1.49
Scrap Sales	89.46	115.39
Miscellaneous income	189.35	119.12
	373.03	324.43
Total Revenue from operations (a + b)	23951.68	22323.45

Gross Sales/Income from operations reported above are exclusive of excise duty effective from July 01, 2017 due to implementation of Goods and Service Tax. The comparative figures excluding excise duty is summarised below:

Particulars	For the year	
	2017-18	2016-17
Gross Sales/Income from Operations (inclusive of excise duty)	23578.65	21999.02
Less: Excise duty on Sales	274.07	1198.59
Gross Sales/Income from Operations (exclusive of excise duty)	23304.58	20800.43

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

23. Other Income

Particulars	For the year	
	2017-18	2016-17
(a) Dividend Income		
Dividend Income from Long term Investments	5.39	2.48
Dividend Income from Current Investments	9.21	20.24
	14.60	22.72
(b) Interest Income earned on financial assets that are not designated as at fair value through profit or loss [FVTPL]		
Interest Income		
from banks	31.19	25.39
from others	4.35	7.58
	35.54	32.97
(c) Net gain/(loss) arising on financial assets mandatorily measured at FVTPL (Refer Note: 6C (i) & (ii) investment schedule)	0.78	0.75
(d) Other non-operating income		
Profit on sale of assets	9.70	19.97
Profit on sale of Investments (net)	-	0.38
Profit on exchange fluctuation (net)	51.16	-
(e) Other non-operating income		
Provision for expenses no longer required written back	17.61	40.63
Reversal of impairment losses on financial assets	30.94	90.41
Rental income	1.52	1.92
Miscellaneous income	67.32	18.25
	178.25	171.56
Total Other Income (a + b + c + d)	229.17	228.00

24. Changes in inventories of finished goods, stock-in-trade and work in progress

Particulars	For the year	
	2017-18	2016-17
Opening stock		
Work-in-progress	887.74	916.06
Stock-in-trade (includes in-transit)	666.75	728.26
Finished goods	815.08	722.86
	(A) 2369.57	2367.18
Less: Closing stock		
Work-in-progress	898.95	887.74
Stock-in-trade (includes in-transit)	696.69	666.75
Finished goods	530.26	815.08
	(B) 2125.90	2369.57
(Accretion)/Decretion to stock (A) - (B)	243.67	(2.39)

25. Employee benefit expense

Particulars	For the year	
	2017-18	2016-17
Salaries, wages and bonus	2475.95	2148.06
Contribution to provident and other funds	177.85	159.01
Voluntary retirement compensation	1.35	0.90
Share based payments to employees (ESOPs) - Refer Note: 36 of Standalone Financial Statements	14.76	4.31
Remuneration to Managing Director	22.43	19.99
Welfare expenses	416.80	402.79
	3109.14	2735.06

Notes forming part of the Consolidated Financial Statements

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26. Finance costs

Particulars	For the year	
	2017-18	2016-17
Interest costs		
- on Fixed loans	23.04	104.43
- on Others	53.86	69.93
Other borrowing costs	9.22	6.84
	86.12	181.20

27. Depreciation and amortisation expense

Particulars	For the year	
	2017-18	2016-17
Depreciation of property, plant and equipment - Refer 4A	1020.33	927.28
Amortisation of intangible assets - Refer 5B(i)	39.62	37.53
	1059.95	964.81

28. Other expenses

Particulars	For the year	
	2017-18	2016-17
Consumption of stores and spares (a)	816.18	750.03
Power and fuel (b)	3274.69	2525.16
Rent	90.60	78.05
Excise duty on stock differential (c)	(67.39)	7.85
Rates and taxes	103.25	145.67
Insurance	42.86	40.78
Repairs to: (d)		
- Buildings	92.98	126.69
- Machinery	834.62	748.91
- Others	7.68	8.46
Data Processing Charges	127.68	123.61
Technical Fee / Royalty	92.64	83.03
Directors' Sitting fees	1.94	1.57
Commission to Non-wholetime Directors	15.60	14.82
Auditors' remuneration (including other auditors)	14.41	14.19
Travel and Conveyance	232.89	230.49
Freight, delivery and shipping charges	776.65	642.41
Selling commission	90.33	90.65
Advertisement and publicity	62.23	78.87
Printing, stationery and communication	58.10	61.83
Professional fees	223.94	187.21
Impairment loss on financial assets	6.90	59.80
Less: Provision adjusted	-	(58.44)
	6.90	1.36
Allowance for doubtful receivables and advances	33.22	78.38
Services outsourced	1302.85	1161.95
Loss on sale of assets	10.63	10.16
Impairment of Non-current assets	-	37.34
Loss on exchange fluctuation (net)	-	194.37
Miscellaneous expenses	287.25	252.04
	8532.73	7695.88

(a) Includes consumption of packing materials amounting ₹399.27 million (Previous year: ₹336.80 million).

(b) Net of own power generation, which includes energy banked with Kerala State Electricity Board - ₹Nil (Previous year: ₹74.61 million) - Refer Note: 9B.

(c) Represents the excise duty differential on finished stocks; Consequent to implementation of Goods and Service tax, no excise duty is applicable on the closing stock of current year.

(d) Repairs includes consumption of stores and spares amounting to ₹280.83 million (Previous year: ₹246.38 million).

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

29. Income tax expense

Particulars	For the year	
	2017-18	2016-17
A. Income tax expense recognised in Profit and loss:		
a. Current tax		
In respect of the current year	1114.72	810.61
	1114.72	810.61
b. Deferred tax		
In respect of the current year	(94.73)	(29.76)
Adjustment to deferred tax attributable to changes in tax rates and laws	0.28	(0.01)
	(94.45)	(29.77)
Total Income tax expense recognised during the year (net)	1020.27	780.84
Income tax reconciliation:		
Profit before tax	A	3216.15
Less: Share of Profit from Associate and Joint ventures	B	146.60
Profit from operations before share of profit of equity accounted investees and income tax	C = (A-B)	3069.55
Applied tax rate as per Parent jurisdiction	D	34.608%
Income tax expense calculated at the tax rate of 34.608%, applicable to the Parent Company	E = C x D	1062.31
Total Tax expenses charged in Profit and Loss for the year	F	1020.27
Differential tax impact	G = (E-F)	(42.04)
Differential tax impact due to the following (tax benefit)/tax expenses		
Effect of Income that is exempt from taxation net of disallowances		(0.75)
Effect of expenses that are not deductible in determining taxable profit		74.37
Claim of weighted benefit relating to In-house Research & Development facilities		(16.33)
Area based tax incentives		-
Effect of increase in applicable tax rate in India		0.28
Deferred tax benefit not recognised on the losses of Subsidiaries		58.94
Effect of tax rate differentials in respect of subsidiaries operating in other jurisdictions		(158.55)
Total	G	(42.04)

B. Income tax recognised in Other Comprehensive Income:

Particulars	For the year	
	2017-18	2016-17
Net gain on designated portion of hedging instruments in cash flow hedges	1.33	(1.26)
Total income tax recognised in Other Comprehensive Income	1.33	(1.26)
Bifurcation of the income tax recognised in Other Comprehensive Income into:		
Items that will not be reclassified to profit or loss	-	-
Items that will be reclassified to profit or loss	1.33	(1.26)

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

30. Earnings per share

Particulars	For the year	
	2017-18	2016-17
Basic earnings per share (₹)	11.42	9.28
Diluted earnings per share (₹)	11.39	9.25
The calculation of Basic and Diluted Earnings per share is based on the following data:		
Consolidated Net Profit for the year after taxes	2155.96	1748.67
Weighted average number of equity shares outstanding during the year		
- Basic	188,783,979	188,513,561
- Dilutive	189,356,441	189,030,648

The weighted average number of equity shares: for the purpose of diluted earnings per share reconciles with the basic earnings per share as given below:

Particulars	For the year	
	2017-18	2016-17
Weighted average number of equity shares used in the calculation of basic earnings per share	188,783,979	188,513,561
Shares deemed to be issued for no consideration in respect of:		
- Employee Stock Option Scheme/Plan	572,462	517,087
Weighted average number of equity shares used in the calculation of diluted earnings per share	189,356,441	189,030,648

31. Segment information

The Group provides solutions majorly for five industrial manufacturing needs by developing, manufacturing and marketing products using the properties of materials known as electrominerals.

The Business Group Management Committee headed by Managing Director (CODM) consists of Chief Financial Officer, Leaders of Strategic Business Units and Human resources reviews the performance of the Company and has identified three core reportable business segments organised using differences in products and services.

- Surface engineering (material removal, cutting, polishing) known as Abrasives. Abrasive segment comprise of Bonded, Coated, Processed cloth, Polymers, Power tools and Coolants.
- Technical ceramics and super refractory solutions to address wear protection, corrosion resistance, electrical resistance, heat protection and ballistic protection known as Ceramics.
- Electrominerals for surface engineering, refractories, energy and environment. It includes fused alumina, silicon carbide, zirconia, speciality minerals and captive power generation from hydel power plant.

Besides the above three core segments, the Group has a power generation entity to serve its power requirements of the core business segments. The Group also has an IT services company which provides IT infrastructure Facility management services, software application development services, remote infrastructure management services and IT security management services.

The Business Group Management Committee monitors the operating results of its business segments for the purpose of making decisions about resource allocation and performance assessment using profit or loss and return on capital employed.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Particulars	Abrasives		Ceramics		Electrominerals		Power		IT Services		Eliminations		Total	
	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17
Revenue														
External Sales - Gross	10350.30	10149.19	4909.50	4595.34	7774.45	6711.83	53.54	68.44	43.31	72.42	-	-	23131.10	21597.22
Income from Contracts	-	-	117.55	103.15	-	-	-	-	330.00	298.65	-	-	447.55	401.80
Inter segment sales	13.15	13.55	40.49	25.89	1112.07	981.67	185.26	196.91	27.65	22.73	(1378.62)	(1240.75)	-	-
Gross Sales / Income from Operations	10363.45	10162.74	5067.54	4724.38	8886.52	7693.50	238.80	265.35	400.96	393.80	(1378.62)	(1240.75)	23578.65	21999.02
Results														
Segment result - EBITDA	1631.14	1400.48	1043.09	982.21	1672.82	1253.39	105.26	125.20	49.18	42.37	-	-	4501.49	3803.65
Depreciation/amortisation	(309.76)	(279.44)	(281.32)	(277.89)	(401.40)	(342.77)	(41.10)	(40.73)	(12.74)	(9.29)	-	-	(1046.32)	(950.12)
Profit on sale of Fixed Assets (Net)	3.30	11.93	(3.18)	(0.21)	(1.93)	(2.07)	0.02	-	(0.24)	0.01	-	-	(2.03)	9.66
Unallocated corporate expenses (Net)													(348.39)	(311.06)
Interest expense													(86.12)	(181.20)
Profit from Associate													52.32	48.05
Profit from Joint ventures													94.28	142.83
Interest and dividend income													50.14	55.70
Fair valuation of Investment													0.78	0.75
Profit on investment (net)													-	0.38
Profit before tax	1324.68	1132.97	758.59	704.11	1269.49	908.55	64.18	84.47	36.20	33.09	-	-	3216.15	2618.64
Less: Income taxes													1020.27	780.84
Net profit after taxes													2195.88	1837.80
Less: Non-controlling interest													39.92	89.13
Profit for the year attributable to Owners of the Company													2155.96	1748.67
Other information:														
Segment assets	6390.24	5830.80	4381.81	4191.91	6531.31	6236.96	92.84	134.28	164.61	156.05	-	-	17560.81	16550.00
Unallocated corporate assets *													3424.40	2672.22
Total assets	6390.24	5830.80	4381.81	4191.91	6531.31	6236.96	92.84	134.28	164.61	156.05	-	-	20985.21	19222.22
Segment liabilities	1365.08	1201.44	479.65	497.78	899.33	722.92	8.72	9.45	98.84	81.14	-	-	2851.62	2512.73
Unallocated corporate liabilities													1875.35	2225.00
Total liabilities	1365.08	1201.44	479.65	497.78	899.33	722.92	8.72	9.45	98.84	81.14	-	-	4726.97	4737.73
Addition to Non-current assets	347.54	356.86	228.89	290.93	322.06	581.89	0.42	1.20	12.06	24.00				
Depreciation & Amortization	309.76	279.44	281.32	277.89	401.40	342.77	41.10	40.73	12.74	9.29				
Non-cash items other than depreciation and amortisation	31.20	44.02	7.88	18.22	4.40	17.07	-	-	1.37	0.43				
Impairment on Non-current asset	-	37.34	-	-	-	-	-	-	-	-				

* includes Goodwill of ₹1151.41 million (Previous year: ₹1147.95 million), Investment in Associate and Joint Ventures under equity method - ₹1072.16 million (Previous year: ₹1062.08 million)

Sales between operating segments are carried out at arm's length basis and are eliminated at Group level consolidation.

The accounting policies of the reportable segments are same as that of Group's accounting policies described in Note: 3.22. Segment profit represents the profit before tax earned by each segment without allocation of central administration costs and directors' salaries, other income, as well as finance costs. This is the measure reported to the chief operating decision maker for the purposes of resource allocation and assessment of segment performance.

Notes forming part of the Consolidated Financial Statements

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Segment assets and liabilities

For the purposes of monitoring segment performance and allocating resources between segments:

1. All assets are allocated to reportable segments other than investments, loans, current and deferred tax assets, unallocable current and non-current assets.
2. All liabilities are allocated to reportable segments other than borrowings, current and deferred tax liabilities, and unallocable current and non-current liabilities.

Geographical information

The Parent company is domiciled in India. The amount of its revenue from external customers are broken down by location of those customers and information about its non-current assets other than investment, other financial instruments and deferred tax assets are given below:

	Revenue from external customer		Non-current assets	
	For the year		As at	
	2017-18	2016-17	31.03.2018	31.03.2017
India	13047.56	12669.31	5183.30	5394.77
Rest of the world	10531.09	9329.71	2786.86	2722.14
	23578.65	21999.02	7970.16	8116.91

Information about major customers

No single customer contributed 10% or more to the Group's revenue during the years 2017-18 and 2016-17.

Gross Sales/Income from operations reported above are exclusive of excise duty effective from July 01, 2017 due to implementation of Goods and Service Tax. The comparative figures excluding excise duty is summarised below:

Particulars	Abrasives		Ceramics		Electrominerals		Power		IT Services		Eliminations		Total	
	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17
Gross Sales/Income from Operations (inclusive of excise duty)	10363.45	10162.74	5067.54	4724.38	8886.52	7693.50	238.80	265.35	400.96	393.80	(1378.62)	(1240.75)	23578.65	21999.02
Less: Excise duty on Sales	(179.17)	(783.64)	(42.70)	(210.40)	(52.20)	(204.55)	-	-	-	-	-	-	(274.07)	(1198.59)
Gross Sales/Income from Operations (exclusive of excise duty)	10184.28	9379.10	5024.84	4513.98	8834.32	7488.95	238.80	265.35	400.96	393.80	(1378.62)	(1240.75)	23304.58	20800.43

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

32. Subsidiaries

Name of Subsidiary	Nature of Business	Place of incorporation and operation	Proportion of ownership interest and voting power held by the Group	
			As at	
			31.03.2018	31.03.2017
Net Access India Ltd.	IT services	India	100%	100%
Southern Energy Development Corporation Ltd.	Power generation	India	84.76%	84.76%
Sterling Abrasives Ltd.	Manufacture/Trading of Abrasive products	India	60%	60%
CUMI (Australia) Pty Ltd.	Manufacture/Trading of Ceramic products & its related services	Australia	51.22%	51.22%
CUMI International Ltd.	Investment company	Cyprus	100%	100%
Holdings through Subsidiary:				
Volzhsky Abrasive Works	Manufacture of Abrasive, Electromineral and Ceramic products	Volgograd, Russia	97.44%	97.44%
Foskor Zirconia (Pty) Ltd.	Manufacture of Electromineral products	South Africa	51%	51%
CUMI America Inc.	Trading of Abrasive & Ceramic products	USA	100%	100%
CUMI Middle East FZE	Trading of Abrasive & Ceramic products	Ras Al Khaimah, UAE	100%	100%
CUMI Abrasives & Ceramics Company Ltd.	Manufacture / Trading of Abrasive & Ceramic products	China	100%	100%
Thukela Refractories Isithebe Pty Ltd.	Manufacture of Ceramic & Electromineral products	South Africa	100%	100%
CUMI Europe s.r.o	Trading of Electromineral products	Czech Republic	100%	100%

Composition of the Group

Principal activity	Place of incorporation and operation	Number of wholly-owned subsidiaries	
		As at	
		31.03.2018	31.03.2017
Manufacture & Trading of Abrasive products	China, America, Middle East	3	3
Manufacture & Trading of Electromineral products	South Africa, Czech Republic	2	2
IT services provided	India	1	1
Investment company	Cyprus	1	1
		7	7

Principal activity	Place of incorporation and operation	Number of non wholly-owned subsidiaries	
		31.03.2018	31.03.2017
Manufacture & Trading of Abrasive products	India	1	1
Manufacture & Trading of Ceramic products	Australia	1	1
Manufacture & Trading of Electromineral products	South Africa, Russia	2	2
Power generation	India	1	1
		5	5

Details of the Non-Controlling Interest relating to non-wholly owned subsidiary to the Group are disclosed in Note: 15

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

33. Contingent Liabilities and Commitments in respect of which no provision is considered necessary

S.No	Particulars	As at	
		31.03.2018	31.03.2017
A.	Contingent Liabilities:		
(a)	Outstanding letters of credit	217.63	88.01
(b)	Disputed income tax, sales tax, excise duty, service tax and customs duty demands which are under various stages of appeal proceedings.	373.00	343.98
(c)	Claims against the companies in the Group not acknowledged as debts:		
	i. Disputed demands by Electricity Board	43.34	43.34
	ii. Contested Provident fund and ESI demands	0.11	0.21
	iii. Others	55.83	86.40
		99.28	129.95
(d)	Employees demands pending before Labour Courts - quantum not ascertainable at present		
	In respect of the above demands disputed by the Companies in the Group, appeals filed are pending before respective appellate authorities. Outflows, if any, arising out of these claims would depend on the outcome of the decision of the appellate authorities and the respective Company's rights for future appeals. No reimbursements are expected.		
(e)	In respect of associate and joint ventures refer note 6A & 6B		
B.	Commitments:		
	Estimated amount of contracts remaining to be executed and not provided for:		
	- Towards capital account	139.86	169.20
	- In respect of associate and joint ventures refer note 6A & 6B		

34. Employee Benefits

A. Defined contribution plans:

The Group operates defined contribution retirement benefit plans under various jurisdictions for all qualifying employees. The assets of the plans are held separately from those of respective companies under the control of trustees/Government organisations. Where employees leave the plans prior to full vesting of the contributions, the contributions payable by the respective companies in the Group are reduced by the amount of forfeited contributions.

Particulars	For the year	
	2017-18	2016-17
Contribution to Provident fund and Other funds recognised in Profit and Loss	147.54	133.07
Amounts outstanding as at the end of the respective year and paid subsequently	17.14	14.27

Defined benefit plans:

The Group sponsors defined benefit plans for qualifying employees of the Parent company and its subsidiaries, wherever applicable. The defined benefit plans are administered by an independent Fund that is legally separated from the respective entities.

Under the plans applicable to the Parent Company and its domestic subsidiaries, the employees are entitled to post-retirement yearly instalments amounting to 57.69% of final salary for each year of service until the retirement age of 58.

These plans typically expose the Group to actuarial risks such as: Investment, Interest rate, longevity and salary escalation risk:

Investment risk: The present value of the defined benefit plan liability (denominated in Indian Rupee) is calculated using a discount rate which is determined by reference to market yields at the end of the reporting period on government bonds. Currently, the investments are made in accordance with the guidelines under the applicable statutes.

Interest risk: A decrease in the bond interest rate will increase the plan liability; however, this will be partially offset by an increase in the return on the plan's debt investments.

Longevity risk: The present value of the defined benefit plan liability is calculated by reference to the best estimate of the mortality of plan participants both during and after their employment. An increase in the life expectancy of the plan participants will increase the plan's liability.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Salary escalation risk: The present value of the defined benefit plan liability is calculated with reference to the future salaries of plan participants. As such, an increase in the salary of the plan participants will increase the plan's liability.

In respect of the subsidiary in United Arab Emirates, the end of service benefits is accounted on time basis in full for every employee in the service of that entity in accordance with the provisions of the applicable labour laws of that country. The effect of these plans are regarded as immaterial considering the monetary impact to the Group.

In respect of the subsidiary in South Africa, the defined benefit plans provided to the employees are post retirement health benefits and long service awards. The liability is ascertained using actuarial valuation and is accounted accordingly. The effect of these plans are regarded as immaterial considering the monetary impact to the Group.

The actuarial valuation of the plan assets and the present value of the defined benefit obligations of the Parent Company and its subsidiaries in India were carried out as at March 31, 2018 by certified actuaries. The present value of the defined benefit obligation, and the related current service cost and past service cost, were measured using the projected unit credit method.

No other post-retirement benefits are provided to the employees. In respect of the contribution made to provident funds, the Parent guarantees the interest notified by the appropriate authority and to the extent of interest rate guaranteed, the liability is considered as defined benefit. For the financial year ended March 31, 2018, the interest yield is adequate to meet the guaranteed interest.

Assumptions:

The principal assumptions used for the purposes of the actuarial valuations are given below:

Particulars	As at	
	31.03.2018	31.03.2017
Discount rate	7.7% to 8%	6.3% to 8%
Expected rate of return	7.7% to 8%	6.3% to 8%
Expected salary escalation	5% to 7%	5% to 10%
Mortality table used	Indian Assured Lives Mortality (2006-08) Ultimate	
Estimates of future salary increase takes into account: inflation, seniority, promotion and other relevant factors, such as supply and demand in the employment market.		

The details of actuarial valuation in respect of Gratuity liability is given below:

Particulars	As at	
	31.03.2018	31.03.2017
i. Projected benefit obligation as at beginning of the year	300.55	262.70
Service cost	27.76	25.34
Interest cost	20.53	20.25
Remeasurement (gain)/loss:		
Actuarial (gain)/loss arising from experience adjustments	(5.26)	10.48
Benefits paid	(27.73)	(18.22)
Projected benefit obligation as at end of the year	315.85	300.55
ii. Fair value of plan assets as at beginning of the year	247.13	237.71
Expected return on plan assets	18.28	19.34
Contributions	26.64	25.75
Benefits paid	(27.73)	(17.76)
Remeasurement gain/(loss):		
Actuarial Gain/(losses) on plan assets	(1.67)	(17.91)
Fair value of plan assets as at end of the year	262.65	247.13
iii. Amount recognised in the Balance Sheet:		
Projected benefit obligation at the end of the year	315.85	300.55
Fair value of the plan assets at the end of the year	262.65	247.13
(Liability)/Asset recognised in the Balance Sheet-net	(53.20)	(53.42)
iv. Cost of the defined benefit plan for the year:		
Current service cost	27.76	25.34
Interest on obligation	20.53	20.25
Expected return on plan assets	(18.28)	(19.34)
Components of defined benefit cost recognised in the Statement of Profit and Loss	30.01	26.25
(included in Note: 25 Contribution to Provident and other funds)		
Remeasurement on the net defined benefit liability:		
Actuarial gain/loss arising from changes in demographic assumptions	(5.26)	10.48
Actuarial gain/loss arising from changes in financial assumptions	1.67	17.91
Components of defined benefit costs recognised in Other Comprehensive Income	(3.59)	28.39
Total cost of the defined benefit plan for the year	26.42	54.64

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

v Experience Adjustment

Particulars	As at	
	31.03.2018	31.03.2017
Present value of defined benefit obligation	315.85	300.55
Fair value of plan assets	262.65	247.13
Balance Sheet (Liability)/Asset	(53.20)	(53.42)

Particulars	For the year	
	2017-18	2016-17
Profit and Loss	30.01	26.25
Experience adjustment on plan liabilities (gain) / loss	(5.26)	10.48
Experience adjustment on plan assets gain / (loss)	(1.67)	(17.91)

In the absence of the relevant information, the above details does not include the composition of plan assets and expected return on each category of plan assets.

The actual return on plan assets was ₹18.28 million (for the year ended March 31, 2017: ₹19.34 million).

Sensitivity analysis in respect of the actuarial assumptions used in calculation of defined benefit obligation is given below:

Particulars	As at	
	31.03.2018	31.03.2017
Discount rate - 100 basis point higher	(292.92)	(277.62)
Discount rate - 100 basis point lower	336.24	321.02
Salary escalation rate - 100 basis point higher	334.39	319.61
Salary escalation rate - 100 basis point lower	(294.15)	(262.83)
Life expectancy rate - 100 basis point higher	317.82	301.04
Life expectancy rate - 100 basis point lower	(308.12)	(294.40)

In the above table, positive figures indicate increase in the liability and negative figures indicate decrease in the liability. The weighted average duration of the benefit obligation as at March 31, 2018 is 15 years (as at March 31, 2017: 15 years).

The Group expects to make a contribution of ₹54.95 million (as at March 31, 2017: ₹53.42 million) to the defined benefit plans during the next financial year.

B. Provident fund

The actuary has assessed the calculations of the Interest Rate Guarantees based on the guidance note issued by the Institute of Actuaries of India. The disclosures required under Ind AS 19 is as set out below:

Fund and plan asset position are as follows:

Particulars	As at	
	31.03.2018	31.03.2017
Plan asset at the end of the year	1027.54	940.82
Present value of benefit obligation at the end of the year	986.00	767.86
Surplus available	41.54	172.96
Asset recognised in the Balance Sheet	Not applicable since a separate Trust is maintained	

The plan assets are primarily invested in Government securities.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Assumptions for present value of interest rate guarantee are as follows:

Particulars	As at	
	31.03.2018	31.03.2017
Discount rate	8.00%	7.25%
Remaining term to maturity of portfolio (years)	4.76 years	5.87 years
Expected guaranteed rate(%)	8.55%	8.65%
Attrition rate	2%	2%

35. Financial Instruments

(i) Capital management

For the purpose of the Group's capital management, capital includes issued equity capital, share premium and all other equity reserves attributable to the equity holders of the parent. The primary objective of the Group's capital management is to maximise the shareholder value.

The Group's objective when managing capital is to:

- Safeguard their ability to continue as a going concern, so that they can continue to provide return for shareholders and benefits for other stakeholders and;
- maintain an optimal capital structure to reduce the weighted average cost of capital.

In order to maintain or adjust the capital structure, the Group may adjust the amount of dividend paid to shareholders, return capital to shareholders, issue new shares, or sell non-core assets to reduce the debt.

Debt to Equity ratio

Particulars	As at	
	31.03.2018	31.03.2017
Debt (Long term borrowings, Short term borrowings & Current maturities of Long term borrowings)	1293.62	1559.47
Equity	15643.50	13827.86
Debt to Equity ratio	8.27%	11.28%

Loan Covenants:

As on 31st March, 2018 there are no covenants applicable for long term loan outstanding.

(ii) Categories of financial instruments

Particulars	As at	
	31.03.2018	31.03.2017
A. Financial assets		
Measured at fair value through profit or loss (FVTPL): Mandatorily measured:		
- Equity and other investments	574.63	52.97
Measured at amortised cost		
- Cash and bank balances	1289.10	1260.60
- Other financial assets	4926.02	3971.11
Measured at fair value through Other Comprehensive Income (FVTOCI)		
- Investments in equity instruments designated upon initial recognition	156.15	129.52
B. Financial liabilities		
Measured at amortised cost (including trade payable balances)	3891.19	3812.32

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

(iii) Financial risk management objectives

The Group's activities expose it to market risk, liquidity risk and credit risk. The table given below explains the sources of risk which the Group is exposed to and how the Group manages the risk.

Risk	Exposure arising from	Measurement	Management
a. Credit risk	Cash and cash equivalents, trade receivables, derivative financial instruments, financial assets measured at amortised cost	Ageing analysis Credit ratings Financial analysis	Diversification of Short term investments, review of credit limits and credit locks and secured mode of payment
b. Market risk			
i. Market risk - foreign exchange	Future commercial transactions Recognised financial assets and liabilities not denominated in Indian rupee (INR)	Cash flow forecasting Sensitivity analysis	Forward foreign exchange contracts
ii. Market risk - interest rate	Long-term borrowings at variable rates	Sensitivity analysis	Market trends, Interest rate swaps
iii. Market risk - Price risk	Investment in securities	Sensitivity analysis	Portfolio diversification
c. Liquidity risk	Borrowings and other liabilities	Rolling cash flow forecasts	Availability of sanctioned credit lines and borrowing facilities

The risk management is governed by policies developed in accordance with the Group guidelines and approved by the Board of Directors of the respective companies in the Group. They identify, evaluate and hedge financial risks in close co-ordination with their operating units.

a. Credit risk:

Credit risk is the risk that counterparty will not meet its obligations under a financial instrument or customer contract, leading to a financial loss. The Group is exposed to credit risk from its operating activities (primarily trade receivables) and from its financing activities, including deposits with banks and financial institutions, foreign exchange transactions and other financial instruments.

a (i). Trade receivables

Customer credit risk is managed by respective companies under the guidance of the credit policy, procedures and control relating to customer credit risk management. Credit quality of a customer is assessed based on financial position, past performance, business/economic conditions, market reputation, expected business etc. Based on that credit limit & credit terms are decided. Outstanding customer receivables are regularly monitored through credit lock and release to effectively manage the exposure.

An impairment analysis is performed at each reporting date on an individual basis for all the customers. The impairment is based on expected credit model considering the historical data. The maximum exposure to credit risk at the reporting date is the carrying value of each class of financial assets disclosed in Note: 11.

The Group has low concentration of risk with respect to trade receivables, as its customers are located in various geographies and belong to diversified industries and operate in largely independent markets.

a (ii). Financial instruments and cash deposits

Credit risk from balances with banks and financial institutions is managed by the respective Companies in accordance with their policy. Group recommends investments of surplus funds in short-term liquid funds and deposits with banks. The Investment limits are set out and are reviewed by the Board of Directors of the respective company on a quarterly basis. The maximum exposure to credit risk at the reporting date is the carrying value of each class of financial assets disclosed in Note: 6 & 12.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

b. Market risk

Market risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risk comprises of three types of risks: interest rate risk, currency risk and other price risk, such as equity price risk and commodity risk. Financial instruments affected by market risk include loans and borrowings, deposits, Investments (FVTOCI) and derivative financial instruments.

Market risk exposures are measured using sensitivity analysis. There has been no change to the Groups exposure to market risks or the manner in which these risks are being measured and managed.

b (i). Foreign currency risk management

Foreign currency risk is the risk that the fair value or future cash flows of an exposure will fluctuate because of changes in foreign exchange rates. Foreign exchange rate exposures are managed within policy parameters developed under guidelines of the Group and approved by Board of Directors of the respective companies. The Group recommends to its operating entities to perform, to the extent it is possible, their transactions in their functional currencies. Where this is not possible, the transactional currency risk may be hedged on an individual basis by currency forwards. The Group recommends hedging of around 50% of the net material exposure by currency. Exposures relating to capital expenditure beyond a threshold are hedged as per respective Company's policy at the time of commitment.

The carrying amounts of the Group's foreign currency denominated monetary assets and monetary liabilities based on gross exposure at the end of the reporting period are as under:

Currency	Liabilities		Assets	
	As at		As at	
	31.03.2018	31.03.2017	31.03.2018	31.03.2017
US Dollar (USD)	252.67	209.51	966.73	968.24
Euro (EUR)	207.62	37.17	646.01	546.59
Great British Pound (GBP)	0.07	0.61	3.51	12.19
Russian Rouble (RUB)	-	7.90	-	-

Quantum of Forward contract (derivatives) (all of which identified as hedges) outstanding as at the end of the year (notional principal amount):

The details of outstanding forward exchange contracts taken towards hedging the trade exposures as on the reporting date are given as under:

Currency	Liabilities		Assets	
	31.03.2018	31.03.2017	31.03.2018	31.03.2017
USD	13.01	19.35	81.30	72.93

As at 31st March 2018 the outstanding forward exchange contracts were USD 1.25 million taken for receivable position and USD 0.2 million taken for payable position.

The value of the contracts outstanding currency wise is given below in the table:

Contracts booked for	Currency	As at 31.03.2018		As at 31.03.2017	
		Number of contracts	Value	Number of contracts	Value
Export receivable	USD	10	81.30	9	72.93
Import payment	USD	2	13.01	3	19.35

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For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Foreign currency sensitivity analysis

The Group is mainly exposed to US Dollar and Euro. The following table provides the sensitivity impact to a 10% strengthening or weakening of Indian rupee exchange rate against foreign currencies. The sensitivity analysis is done on net exposures. A positive number below indicates an increase in profit or equity when the Rupee weakens against the foreign currency and when net exposure is an asset.

Currency impact in (₹ million) relating to the foreign currencies of:	As at 31.03.2018		As at 31.03.2017	
	Profit or loss	Equity	Profit or loss	Equity
US Dollar (USD)	71.41	75.21	70.51	75.05
Euro (EUR)	43.84	43.84	50.94	50.94
Great British Pound (GBP)	0.34	0.34	1.16	1.16
Russian Rouble (RUB)	-	-	(0.79)	(0.79)
Total	115.59	119.39	121.82	126.36

The Group sensitivity impact to foreign currency has decreased during the current year mainly due to the decrease in the value of exposure in Euro as at the end of the reporting period.

b (ii). Interest rate risk management

Interest rate risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in market interest rates. The Group has been availing the borrowings on a fixed and variable rate of interest. These borrowings are carried at amortised cost. The borrowings on a fixed rate of interest basis are not subject to the interest rate risk as defined in Ind AS 107, since neither the carrying amount nor future cash flows will fluctuate because of change in market interest rates. The borrowings on a variable rate of interest are subject to interest rate risk as defined in Ind AS 107.

Classification of borrowings by nature of interest rate	As at	
	31.03.2018	31.03.2017
Borrowings at variable interest rate		
- Non - Current	-	-
- Current	1181.59	1459.63
Borrowings at fixed interest rate		
- Non - Current	66.32	66.83
- Current	45.71	33.01
Total Borrowings	1293.62	1559.47

Current borrowings at variable interest rate represents cash-credit and term loan. The foreign currency term loans are benchmarked to USD 6 months LIBOR.

Since there are no non-current borrowings on variable interest rate as on 31st March 2018 & 2017, interest rate exposure is nil.

b (iii). Price risks

The Group is exposed to equity price risks arising from equity investments. Certain of the Group equity investments are held for strategic rather than trading purposes. The Group also holds certain other equity investments for trading purposes.

Equity price sensitivity analysis

The accumulated fair value change recognised on equity investment which are held for strategic purpose and designated at Fair value through other comprehensive income as at 31st March 2018 is ₹84.42 million (31st March 2017: ₹57.79 million) - Refer Note no: 14. The sensitivity analysis below have been determined based on the exposure to equity price risks at the end of the reporting periods. If equity prices moves-up or decreases by 5%, the impact to other comprehensive income and equity is given below:

Movement of equity price	Impact to Other Comprehensive Income/equity	
	As at 31.03.2018	As at 31.03.2017
Increase by 5%	7.24	5.91
Decrease by 5%	(7.24)	(5.91)

The impact of change in equity price on non-current investment recorded at Fair value through Profit and Loss and other investment designated as Fair value through Other comprehensive income is not significant.

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c. Liquidity risk management

The Group has established a liquidity risk management framework. The Group manages liquidity risk through cash generation from business and by having adequate banking facilities. The Group continuously monitors forecasts and actual cash flows, and by matching the maturity profiles of financial assets and liabilities.

Contractual maturities of financial liabilities

The table below provides details regarding the contractual maturities of financial liabilities including estimated interest payments as at 31st March 2018:

Particulars	Carrying amount	upto 1 year	1-3 years	3-5 years	More than 5 years	Total contracted cash flows
Non-current financial liabilities						
Borrowings and interest thereon*	54.64		67.40			67.40
Finance lease liability	11.68		9.47	3.18		12.65
Current financial liabilities						
Borrowings and interest thereon*	1181.59	1240.66				1240.66
Trade payables	1975.67	1975.67				1975.67
Finance lease liability	7.54	10.83				10.83
Maturities of long term borrowing	38.17	41.22				41.22
Other financial liabilities	621.90	621.90				621.90

The table below provides details regarding the contractual maturities of financial liabilities including estimated interest payments as at 31st March 2017:

Particulars	Carrying amount	upto 1 year	1-3 years	3-5 years	More than 5 years	Total contracted cash flows
Non-current financial liabilities						
Borrowings and interest thereon*	48.86		67.40			67.40
Finance lease liability	17.95		17.33	5.42		22.75
Current financial liabilities						
Borrowings and interest thereon*	1424.47	1485.16				1485.16
Trade payables	1650.23	1650.23				1650.23
Finance lease liability	8.23	11.63				11.63
Maturities of long term borrowing	59.96	65.99				65.99
Other financial liabilities	602.62	602.62				602.62

*Amount included in the above maturity analysis assumes interest outflows based on the actual interest rates.

Contractual maturities of financial assets

The table below provides details regarding the contractual maturities of financial assets including estimated interest receipts as at 31st March 2018:

Particulars	Carrying amount	upto 1 year	1-3 years	3-5 years	More than 5 years	Total contracted cash flows
Non-current financial assets						
Other financial assets	120.76		53.54		67.22	120.76
Current financial assets						
Trade receivables	4750.60	4750.60				4750.60
Advance to employees	12.78	12.78				12.78
Other financial assets	41.88	41.88				41.88

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The table below provides details regarding the contractual maturities of financial assets including estimated interest receipts as at 31st March 2017:

Particulars	Carrying amount	upto 1 year	1-3 years	3-5 years	More than 5 years	Total contracted cash flows
Non-current financial assets						
Other financial assets	110.80				110.80	110.80
Current financial assets						
Trade receivables	3805.83	3805.83				3805.83
Advance to employees	11.97	11.97				11.97
Other financial assets	42.51	42.51				42.51

Maturity analysis of Derivative financial instruments

The following table details the Group maturity analysis for its derivative financial instruments. The table has been drawn up based on the undiscounted estimated cash flows determined by reference to the projected market rates at the end of the reporting period. A positive amount represents an anticipated cash inflow and a negative amount represents an anticipated cash outflow.

Currency	Contracts booked for	As at			As at		
		31.03.2018			31.03.2017		
		Carrying amount	Less than 1 year	1-3 years	Carrying amount	Less than 1 year	1-3 years
USD	Export receivable	81.30	81.30	-	72.93	72.93	-
USD	Import payment	13.01	13.01	-	19.35	19.35	-

The note below sets out details of additional undrawn facilities that the Group has at its disposal to further reduce liquidity risk.

Financing facilities

Particulars	As at	
	31.03.2018	31.03.2017
Unsecured term loan from bank:		
Amount used	574.86	879.24
Amount unused	368.22	64.83
	943.08	944.07
Unsecured cash credit and other borrowings facility:		
Amount used	508.95	454.25
Amount unused	934.53	924.47
	1443.48	1378.72
Secured Borrowings from bank:		
Amount used	0.50	36.21
Amount unused	-	85.02
	0.50	121.23
Secured cash credit and other borrowings facility:		
Amount used	97.78	90.98
Amount unused	1472.22	1519.02
Total	1570.00	1610.00
Amount used	1182.09	1460.68
Amount unused	2774.97	2593.34
	3957.06	4054.02

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Fair value measurements

This note provides information about how the Group determines fair value of various financial assets and financial liabilities.

Fair value of the Group financial assets and financial liabilities are measured at fair value on a recurring basis.

Some of the Group financial assets and financial liabilities are measured at fair value at the end of the reporting period. The following table gives information about how the fair values of these financial assets and financial liabilities are determined (in particular, the valuation techniques and inputs used):

Financial assets/financial liabilities	Fair Value as at		Fair value hierarchy	Valuation techniques & key inputs used
	31.03.2018	31.03.2017		
Investments in quoted equity instruments at FVTOCI	144.85	118.22	Level 1	Quoted bid price in an active market (a)
Investments in quoted instruments at FVTPL	574.30	3.03	Level 1	Quoted bid price in an active market
Investments in unquoted instruments at FVTPL	0.33	0.30	Level 3	Fair valuation (b)
Investments in unquoted instruments at OCI	11.30	11.30	Level 3	Fair valuation (b)

There were no changes in the fair value hierarchy Levels in the above periods.

(a) These investments in equity instruments are not for trading. Instead, they are held for medium or long term strategic purpose. Upon the application of IND AS 109, the Group has chosen to designate these investments in equity instruments as at FVTOCI as the Directors believe that this provides a more meaningful presentation for medium or long term strategic investments, than reflecting changes in fair value immediately in profit or loss.

(b) These investment in equity are not significant in value and hence additional disclosures are not presented.

Fair value of financial assets and financial liabilities that are not measured at fair value (but fair value disclosures are required)

Particulars	Fair value hierarchy	As at 31.03.2018		As at 31.03.2017	
		Carrying amount	Fair value	Carrying amount	Fair value
Financial assets at amortised cost:					
Non-current financial assets					
Other financial assets					
Security deposit	Level 3	120.76	115.78	110.80	95.57
Current financial assets					
Trade receivable	Level 2	4750.60	4750.60	3805.83	3805.83
Advances to employees	Level 3	12.78	12.78	11.97	11.97
Other advances	Level 3	41.88	41.88	42.51	42.51
Financial liabilities held at amortised cost:					
Non-current financial liabilities					
Borrowings and interest thereon	Level 2	54.64	54.64	48.86	44.87
Finance lease and interest thereon	Level 2	11.68	11.68	17.95	17.95
Current financial liabilities					
Borrowings and interest thereon	Level 2	1181.59	1181.59	1424.47	1362.22
Trade payables	Level 2	1975.67	1975.67	1650.23	1650.23
Finance lease and interest thereon	Level 2	7.54	7.54	8.23	8.23
Current maturities of long term	Level 2	38.17	38.17	59.96	57.05
Others financial liabilities	Level 3	621.90	621.90	602.62	602.92

The fair values of the financial assets and financial liabilities included above have been determined in accordance with generally accepted pricing models based on a discounted cash flow analysis, with the most significant inputs being the discount rate that reflects the credit risk of counterparties.

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36. Related Party Disclosures

List of related parties

Related party relationships are as identified by the management and relied upon by the auditors.

Joint ventures

Murugappa Morgan Thermal Ceramics Ltd. [MMTCL]

Ciria India Ltd. [Ciria]

Associate and its subsidiaries

Wendt (India) Ltd. [Wendt]

Wendt Grinding Technologies Ltd., Thailand [WGTL]

Wendt (Middle East) FZE [WME]

Key Management Personnel

Mr. K Srinivasan, Managing Director

Other Related parties

Ambadi Investments Ltd. (Shareholder with significant influence) [AIL]

Parry Enterprises India Ltd. (Subsidiary of AIL) [PEIL]

Parry Agro Industries Ltd. (Subsidiary of AIL) [PAL]

Carborundum Universal Employees Provident fund [CUEPF]

Retiral funds of Joint ventures, Associate and Other Related parties

A. Transactions during FY 2017-18

Related Party	Income from Sales & Services	Dividend income	Purchase of goods	Expenditure on other services	Rental Expenses	Managerial remuneration	Purchases of Fixed asset	Contribution to Provident Fund
Joint Ventures								
MMTCL	25.54	71.54	8.22	-	-	-	0.14	-
Ciria	108.38	30.00	1.97	-	-	-	-	-
Total	133.92	101.54	10.19	-	-	-	0.14	-
Associate & its subsidiaries								
Wendt	28.61	19.93	20.36	0.91	1.73	-	2.28	-
WGTL	56.41	-	4.71	-	-	-	-	-
WME	2.05	-	-	-	-	-	-	-
Total	87.07	19.93	25.07	0.91	1.73	-	2.28	-
Other related parties								
PEIL	-	-	-	34.40	-	-	-	-
CUEPF	-	-	-	-	-	-	-	116.80
Total	-	-	-	34.40	-	-	-	116.80
KMP	-	-	-	-	-	22.46	-	-
Grand Total	220.99	121.47	35.26	35.31	1.73	22.46	2.42	116.80

Notes forming part of the Consolidated Financial Statements

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B. Transactions during FY 2016-17

Related Party	Income from Sales & Services	Dividend income	Reimbursement of employee cost	Purchase of goods	Expenditure on other services	Rental expenses	Managerial remuneration	Contribution to Provident Fund
Joint Ventures								
MMTCL	23.94	157.39	-	9.53	-	-	-	-
Ciria	148.74	15.00	-	-	-	-	-	-
Total	172.68	172.39	-	9.53	-	-	-	-
Associate & its subsidiaries								
Wendt	27.70	19.93	0.06	18.66	2.42	1.54	-	-
WGTL	51.70	-	-	-	-	-	-	-
WME	2.97	-	-	-	-	-	-	-
Total	82.37	19.93	0.06	18.66	2.42	1.54	-	-
Other related parties								
PEIL	-	-	-	-	39.68	-	-	-
CUEPF	-	-	-	-	-	-	-	106.26
Total	-	-	-	-	39.68	-	-	106.26
KMP	-	-	-	-	-	-	20.02	-
Grand Total	255.05	192.32	0.06	28.19	42.10	1.54	20.02	106.26

C. Outstandings

Related Party	As at 31.03.2018			As at 31.03.2017		
	Trade and other receivable	Deposit outstanding	Payables	Trade and other receivable	Deposit outstanding	Payables
Joint Ventures						
MMTCL	17.23	-	0.38	0.04	-	1.68
Ciria	32.12	-	0.22	8.90	-	-
Total	49.35	-	0.60	8.94	-	1.68
Associate & its subsidiaries						
Wendt	26.66	1.00	1.92	2.39	1.00	3.79
WGTL	9.21	-	1.17	3.46	-	-
WME	1.05	-	-	0.96	-	-
Total	36.92	1.00	3.09	6.81	1.00	3.79
Other related parties						
PEIL	-	-	1.61	-	-	1.19
CUEPF	-	-	9.88	-	-	9.09
Total	-	-	11.49	-	-	10.28
Grand Total	86.27	1.00	15.18	15.75	1.00	15.75

Transactions with related parties in the nature of sale of goods, rendering of services, purchase of goods, procurement of services are at arm's length price.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Compensation to Key Management Personnel

The remuneration to Key Management Personnel for the years is given below:

Particulars	As at	
	31.03.2018	31.03.2017
Short term benefits	19.39	17.41
Post employment benefits	3.04	2.58
Other benefits	0.03	0.03
	22.46	20.02

The Remuneration to Key Management Personnel is determined by the Nomination and Remuneration Committee having regard to the performance of individual and market trends.

37. Notes relating to Leases

Particulars	As at	
	31.03.2018	31.03.2017
a. Original cost of Leased Assets	37.40	40.28
Cost as per Fixed Assets Schedule. - Refer Note: 4A	31.58	35.33
b. Net Carrying amount	13.55	21.67
c. Reconciliation between Total Minimum Lease payments and their Present value:		
Total Minimum Lease Payments	23.48	34.38
Less: Future Liability on Interest account	(4.26)	(8.20)
Present value of Lease payments - Refer Note: 16	19.22	26.18

d. Year wise Future Minimum lease rental payments:

Particulars	Total Minimum Lease Payments as on 31.03.2018	Present value of Lease payments as on 31.03.2018	Total Minimum Lease Payments as on 31.03.2017	Present value of Lease payments as on 31.03.2017
(i) Not later than one year	10.83	7.54	11.63	8.23
(ii) Later than one year and not later than three years	9.47	8.71	17.33	13.28
(iii) Later than three years and not later than five years	3.18	2.97	5.42	4.67
(iv) Later than five years	-	-	-	-
Total	23.48	19.22	34.38	26.18

- e. The Group has taken certain premises under operating leases cancellable at mutual option. Hence no disclosure in this regard has been made.
- f. The subsidiary in America has entered into non-cancellable operating leases upto five years to the value of the minimum lease rentals aggregating to ₹23.15 million.

38. Dividend Tax on the Interim Dividend has been paid after availing the credit amounting to ₹18.15 million (Previous year: ₹22.65 million) in respect of the tax paid on the dividends received from three domestic subsidiaries. Dividend tax payable on the proposed final dividend is eligible for set off of dividend tax credit amounting to ₹13.22 million (Previous year - ₹14.05 million) in respect of dividend tax payable on dividends to be distributed by one domestic subsidiary and an overseas subsidiary based on provision under sub section (1A) of Section 115O of the Income tax Act.

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

39. Research and Development expenditure incurred during the year is given below:

a) Revenue Expenditure (disclosed under respective heads of expenditure)

Particulars	For the year	
	2017-18	2016-17
Direct Material, Supplies and Consumables	36.64	57.66
Employee Benefit Expenses	55.80	44.12
Repair & Maintenance	3.04	3.40
Other Expenses	24.35	18.60
Depreciation	11.93	10.53
Total Revenue Expenditure	131.76	134.31

b) Capital Expenditure

Particulars	For the year	
	2017-18	2016-17
Property, plant and equipment		
Buildings	2.30	2.49
Plant & Machinery	24.21	7.11
Furniture & Fixtures	0.03	1.85
	26.54	11.45
Intangibles	0.02	2.29
Total	26.56	13.74

40. Disclosure relating to Specified Bank Notes (SBN)

Particulars	SBN	Other Denomination Notes	Total
Closing Cash in hand as on 08.11.2016	0.99	0.58	1.57
Add: Permitted Receipts	-	3.37	3.37
Deduct: Permitted Payments	-	3.15	3.15
Deduct: Amount deposited in Banks	0.99	-	0.99
Closing Cash in hand as on 30.12.2016	-	0.80	0.80

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

41. Additional information as required by Paragraph 2 of the General Instructions for Preparation of Consolidated Financial Statements to Schedule III to the Companies Act, 2013

Name of the entity	2017-18							
	Net assets i.e. total asset minus total liabilities		Share in profit or loss		Share in Other Comprehensive Income		Share in Total Comprehensive Income	
	As % of Consolidated net assets	Amount (₹ million)	As % of Consolidated Profit	Amount (₹ million)	As % of Consolidated Other Comprehensive Income	Amount (₹ million)	As % of Consolidated Profit	Amount (₹ million)
I. Parent								
Carborundum Universal Limited	74.77%	11696.70	66.55%	1434.79	162.15%	29.95	67.36%	1464.74
II. Subsidiaries (including Step down subsidiaries)								
a) Indian								
1. Net Access India Ltd.	0.69%	108.26	1.26%	27.27	2.49%	0.46	1.28%	27.73
2. Southern Energy Development Corporation Ltd.	1.13%	176.69	2.35%	50.68	0.16%	0.03	2.33%	50.71
3. Sterling Abrasives Ltd.	3.13%	489.29	4.23%	91.21	(17.22%)	(3.18)	4.05%	88.03
b) Foreign								
1. CUMI (Australia) Pty Ltd.	3.81%	596.26	4.95%	106.74	-	-	4.91%	106.74
2. CUMI International Ltd.	19.89%	3111.36	13.16%	283.83	-	-	13.05%	283.83
3. Volzhsky Abrasives Works	25.40%	3973.39	41.92%	903.80	-	-	41.56%	903.80
4. Foskor Zirconia (Pty) Ltd.	0.09%	13.39	(7.53%)	(162.31)	1.84%	0.34	(7.45%)	(161.97)
5. CUMI America Inc.	0.28%	45.48	(1.52%)	(32.68)	-	-	(1.50%)	(32.68)
6. CUMI Middle East FZE	0.14%	21.69	0.36%	7.95	-	-	0.37%	7.95
7. CUMI Abrasives & Ceramics Company Ltd.	0.31%	48.82	(0.41%)	(8.88)	-	-	(0.41%)	(8.88)
8. Thukela Refractories Isithebe Pty Ltd.	0.00%	0.00	(0.01%)	(0.11)	-	-	(0.01%)	(0.11)
9. CUMI Europe s.r.o	0.02%	3.04	(0.35%)	(7.59)	-	-	(0.35%)	(7.59)
Non-controlling interest in all subsidiaries	(3.93%)	(614.74)	(1.85%)	(39.92)	5.97%	1.10	(1.79%)	(38.82)
II. Associates (Investment as per equity method)								
1. Wendt (India) Ltd.	3.10%	484.89	2.43%	52.32	47.60%	8.79	2.81%	61.11
III. Joint ventures (Investment as per equity method)								
Indian								
1. Murugappa Morgan Thermal Ceramics Ltd.	3.30%	516.89	3.32%	71.52	4.60%	0.85	3.33%	72.37
2. Ciria India Ltd.	0.44%	70.38	1.06%	22.76	0.28%	0.05	1.05%	22.81
Inter-company Elimination & Consolidation Adjustments	(32.57%)	(5098.29)	(29.92%)	(645.42)	(107.87%)	(19.92)	(30.59%)	(665.34)
Total	100.00%	15643.50	100.00%	2155.96	100.00%	18.47	100.00%	2174.43

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

Name of the entity	2016-17							
	Net assets i.e. total asset minus total liabilities		Share in profit or loss		Share in Other Comprehensive Income		Share in Total Comprehensive Income	
	As % of Consolidated net assets	Amount (₹ million)	As % of Consolidated Profit	Amount (₹ million)	As % of consolidated Other Comprehensive Income	Amount (₹ million)	As % of Consolidated Profit	Amount (₹ million)
I. Parent								
Carborundum Universal Limited	76.30%	10550.30	69.64%	1217.75	(20.24%)	(79.50)	53.15%	1138.25
II. Subsidiaries (including Step down subsidiaries)								
a) Indian								
1. Net Access India Ltd.	0.76%	104.60	1.38%	24.13	(0.14%)	(0.56)	1.10%	23.57
2. Southern Energy Development Corporation Ltd.	1.67%	231.17	3.52%	61.59	(0.28%)	(1.10)	2.82%	60.49
3. Sterling Abrasives Ltd.	3.10%	428.34	3.78%	66.07	0.38%	1.49	3.15%	67.56
b) Foreign								
1. CUMI (Australia) Pty Ltd.	4.22%	584.22	5.74%	100.34	-	-	4.69%	100.34
2. CUMI International Ltd.	20.37%	2816.25	13.72%	239.91	-	-	11.20%	239.91
3. Volzhsky Abrasives Works	25.00%	3457.37	35.54%	621.43	-	-	29.02%	621.43
4. Foskor Zirconia (Pty) Ltd.	1.23%	170.68	(1.35%)	(23.59)	(0.08%)	(0.33)	(1.12%)	(23.92)
5. CUMI America Inc	0.56%	78.22	(5.62%)	(98.31)	-	-	(4.59%)	(98.31)
6. CUMI Middle East FZE	0.13%	18.49	0.27%	4.81	-	-	0.22%	4.81
7. CUMI Abrasives & Ceramics Company Ltd.	0.38%	52.89	0.03%	0.57	-	-	0.03%	0.57
8. Thukela Refractories Isithebe Pty Ltd.	-	0.15	(0.11%)	(2.00)	-	-	(0.09)	(2.00)
9. CUMI Europe s.r.o	0.07%	9.12	0.08%	1.38	-	-	0.06%	1.38
Non controlling interest in all subsidiaries	(4.75%)	(656.63)	(5.10%)	(89.13)	(0.07%)	(0.27)	(4.17%)	(89.40)
II. Associates (Investment as per equity method)								
1. Wendt (India) Ltd.	3.24%	447.77	2.75%	48.05	(0.71%)	(2.81)	2.11%	45.24
III. Joint ventures (Investment as per equity method)								
Indian								
1. Murugappa Morgan Thermal Ceramics Ltd.	3.84%	530.64	6.09%	106.49	(0.24%)	(0.94)	4.93%	105.55
2. Ciria India Ltd.	0.60%	83.67	2.08%	36.34	0.00%	(0.02)	1.70%	36.32
Inter-company Elimination & Consolidation Adjustments	(36.72%)	(5079.39)	(32.44%)	(567.16)	121.38%	476.91	(4.21%)	(90.25)
Total	100.00%	13827.86	100.00%	1748.67	100.00%	392.87	100.00%	2141.54

Notes forming part of the Consolidated Financial Statements

For the year ended March 31, 2018 (in Indian Rupees million, unless otherwise stated)

42. Events after the reporting period:

No significant event is to be reported between the closing date and that of the meeting of Board of directors.

43. Applicability of New/amendment on existing Indian Accounting Standards (Ind AS)

During the current year, the following new Ind AS/amendments to existing Ind AS were announced which are effective from next financial year w.e.f. 1st April 2018:

Standards	Ind AS 115	Ind AS 21	Ind AS 12	Ind AS 40
Title of the new Ind AS/Amendment to existing Ind AS;	Revenue from contracts with customers	Effect of changes in Foreign exchange rate	Income taxes	Investment property
The nature of the impending change or changes in accounting policy;	The standard replaces Ind AS 18 Revenue and Ind AS 11 Construction contracts and related appendices. A new five-step process must be applied before revenue can be recognised.	The amendment clarifies recognition of advances at the initial rate only. No subsequent reinstatement required.	The amendments clarify the accounting for deferred taxes where an asset is measured at fair value and that fair value is below the asset's tax base.	The amendments clarify that transfers to, or from, investment property can only be made if there has been a change in use that is supported by evidence.
The date by which application of the Ind AS is required;	Effective from 1 st April 2018			
The date as at which it plans to apply the Ind AS initially	This will be implemented from the effective date 1 st April 2018 as applicable.			
Impact to the Group	No material impact foreseen	Already practised. Hence no incremental impact	No material impact foreseen	No investment property is held by the Group.

44. Approval of financial statements:

The financial statements were reviewed and recommended by the Audit Committee and has been approved by the Board of Directors at their meeting held on May 04, 2018.

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(in Indian Rupees million, unless otherwise stated)

Statement containing salient features of the Financial Statement of Subsidiaries/Associate companies/Joint ventures.

Pursuant to first proviso to sub-section (3) of section 129 read with Companies (Accounts) Rules, 2014)

(a) Summary financial information of Subsidiary Companies

Reporting currency	RUB		Rand		AUD		INR		USD	
Exchange rate	1.11	1.11	5.46	5.46	50.09	50.09	NA	NA	63.93	63.93
Particulars	Volzhsky Abrasive Works		Foskor Zirconia Pty Ltd		CUMI Australia Pty. Ltd		Sterling Abrasives Limited		CUMI International Ltd	
Financial year ended	2017	2016	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017	2016
Date of becoming subsidiary	7 th September 2007		4 th August 2008		1 st September 2003		31 st March 2003		7 th June 2007	
1. Share capital	4.00	4.00	0.01	0.01	25.08	25.08	9.00	9.00	1645.39	1645.39
2. Reserves & Surplus	3659.16	3186.87	13.37	192.58	464.08	464.08	480.29	419.34	1418.69	1179.96
3. Total Liabilities ^(a)	394.85	417.34	698.51	594.75	211.01	212.84	219.90	227.12	570.40	937.92
4. Total Assets ^(b)	4058.01	3608.21	711.89	787.34	700.17	702.00	709.19	655.46	3634.48	3763.27
5. Investments	0.14	0.11	-	-	-	-	-	-	3620.15	3555.38
6. Turnover	5948.77	5440.85	903.89	1072.34	920.41	831.00	816.39	719.66	353.56	326.28
7. Profit before Tax	1083.29	882.04	(179.58)	(22.48)	152.95	142.18	134.28	101.20	256.18	216.32
8. Provision for Taxation	269.66	166.23	-	5.37	45.85	42.65	43.07	35.13	17.44	16.31
9. Profit after Tax	813.63	715.81	(179.58)	(27.85)	107.10	99.53	91.21	66.07	238.74	200.01
10. Proposed dividend ^(c)	371.90	359.71	-	-	107.10	99.53	32.53	27.08	-	-
11. % of Shareholding	98.07	98.07	51.00	51.00	51.22	51.22	60.00	60.00	100.00	100.00

Reporting currency	RMB		RAND		INR		INR		USD	
Exchange Rate	9.83	9.83	5.46	5.46	NA	NA	NA	NA	65.04	65.04
Particulars	CUMI Abrasives & Ceramics Co Ltd		Thukela Refractories Isithebe Pty. Ltd.		Southern Energy Development Corporation Limited		Net Access India Limited		CUMI Middle East FZE.	
Financial year ended	2017	2016	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17
Date of becoming subsidiary	31 st December 2009		1 st August 2012		31 st March 2003		1 st December 2001		11 th December 2005	
1. Share capital	989.38	797.70	0.01	0.01	4.60	4.60	50.00	50.00	1.77	1.77
2. Reserves & Surplus	(940.93)	(914.22)	(0.01)	0.16	1004.47	919.58	58.26	54.60	19.92	16.78
3. Total Liabilities ^(a)	113.25	327.91	-	1.05	8.96	9.45	100.25	81.48	88.05	36.62
4. Total Assets ^(b)	161.70	211.39	-	1.22	1018.03	933.63	208.51	186.08	109.74	55.17
5. Investments	-	-	-	-	876.56	758.84	0.00	2.31	-	-
6. Turnover	218.36	304.65	0.00	3.19	246.43	271.07	403.59	396.71	215.55	151.75
7. Profit before Tax	(28.10)	(104.40)	(0.12)	(2.30)	71.19	89.96	37.18	35.40	8.02	4.67
8. Provision for Taxation	-	-	-	-	20.51	28.37	9.91	11.27	-	-
9. Profit after Tax	(28.10)	(104.40)	(0.12)	(2.30)	50.68	61.59	27.27	24.13	8.02	4.67
10. Proposed dividend ^(c)	-	-	-	-	88.58	55.37	24.07	34.00	6.50	4.88
11. % of Shareholding	100.00	100.00	100.00	100.00	84.76	84.76	100.00	100.00	100.00	100.00

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(in Indian Rupees million, unless otherwise stated)

Reporting currency	USD		CZK	
Exchange Rate	65.04	65.04	3.00	3.00
Particulars	CUMI America Inc		CUMI Europe s.r.o	
Financial year ended	2017-18	2016-17	2017	2016
Date of becoming subsidiary	4 th June 1999		9 th December 2014	
1. Share capital	315.44	315.44	82.80	82.80
2. Reserves & Surplus	(269.96)	(236.98)	(21.70)	(13.46)
3. Total Liabilities ^(a)	399.73	367.53	7.30	7.31
4. Total Assets ^(b)	445.21	445.99	68.40	76.65
5. Investments	-	-	-	-
6. Turnover	474.26	388.54	30.60	37.07
7. Profit before Tax	(32.98)	(95.31)	(8.24)	(1.14)
8. Provision for Taxation	-	-	-	-
9. Profit after Tax	(32.98)	(95.31)	(8.24)	(1.14)
10. Proposed dividend ^(c)	-	-	-	-
11. % of Shareholding	100.00	100.00	100.00	100.00

1. Names of subsidiaries which are yet to commence operations - Nil

2. Names of subsidiaries which have been liquidated or sold during the year - Nil

Notes:

- Total Liabilities include: Current Liabilities, Non Current Liabilities
- Total Assets include: Current Assets, Non Current Assets
- Including interim dividend and dividend distribution tax as applicable. For Volzhsky Abrasive Works, Russia, dividend for 2017 is due for consideration by the shareholders in June 2018.
- The above information has been furnished in accordance with Section 129(3) of the Companies Act 2013. The above statement is based on the financial statements of the respective subsidiary company which have been prepared in accordance with regulatory requirements as applicable in the country of incorporation. In case of foreign subsidiaries, the figures given in foreign currency have been translated into Indian Rupees based on the exchange rate as on 31.3.2018 / 31.12.2017, as applicable.
- The conversation rates have been maintained at the same for the previous financial year for comparative purposes.
- Investments in VAW, Foskor, CACCL China, Thukela Refractories, CUMI Middle East, CUMI America, CUMI Europe are held by CUMI International Limited.

(b) Associates and Joint Ventures

Statement pursuant to Section 129(3) of the Companies Act, 2013 related to Associate Companies and Joint Ventures

S.no	Name of Associates/Joint Ventures	Wendt (India) Limited	Ciria India Limited	Murugappa Morgan Thermal Ceramics Limited
1	Latest audited Balance Sheet Date	31.03.2018	31.03.2018	31.03.2018
2	Date on which the Associate or Joint Venture was associated or acquired	16 th October 1990	26 th July 2000	13 th November 1995
3	Shares of Associate/Joint Ventures held by the company on the year end			
	No. of shares	797,352	59,998	1,430,793
	Amount of Investment in Associates/Joint Venture ₹ In million	10.36	1.68	44.04
	Extent of Holding %	39.87	30.00	49.00
4	Description of how there is significant influence	Through shareholding	Through shareholding	Through shareholding
5	Reason why the associate / joint venture is not consolidated	Not applicable as the financials of this entity is consolidated in the Company's Consolidated Financials	Not applicable as the financials of this entity is consolidated in the Company's Consolidated Financials	Not applicable as the financials of this entity is consolidated in the Company's Consolidated Financials
6	Networth attributable to Shareholding as per latest audited Balance Sheet	484.89	70.38	516.89
7	Profit / Loss for the year	131.24	75.86	145.94
	Considered in Consolidation	52.32	22.76	71.52
	Not Considered in Consolidation	78.92	53.10	74.42

On behalf of the Board

M M Murugappan
Chairman

K Srinivasan
Managing Director

Chennai
May 04, 2018

P Padmanabhan
Senior Associate Vice President - Accounts and Taxation

Rekha Surendhiran
Company Secretary

Independent Auditors' Report

TO

THE MEMBERS OF CARBORUNDUM UNIVERSAL LIMITED Report on the Standalone Indian Accounting Standards (Ind AS) Financial Statements

1. We have audited the accompanying standalone financial statements of Carborundum Universal Limited ("the Company"), which comprise the Balance Sheet as at March 31, 2018, the Statement of Profit and Loss (including Other Comprehensive Income), the Cash Flow Statement and the Statement of Changes in Equity for the year then ended, and a summary of the significant accounting policies and other explanatory information.

Management's Responsibility for the Standalone Ind AS Financial Statements

2. The Company's Board of Directors is responsible for the matters stated in Section 134(5) of the Companies Act, 2013 ("the Act") with respect to the preparation of these standalone Ind AS financial statements to give a true and fair view of the financial position, financial performance (including other comprehensive income), cash flows and changes in equity of the Company in accordance with the accounting principles generally accepted in India, including the Indian Accounting Standards specified in the Companies (Indian Accounting Standards) Rules, 2015 (as amended) under Section 133 of the Act. This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding of the assets of the Company and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the standalone Ind AS financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

3. Our responsibility is to express an opinion on these standalone Ind AS financial statements based on our audit.
4. We have taken into account the provisions of the Act and the Rules made thereunder including the accounting and auditing standards and matters which are required to be included in the audit report under the provisions of the Act and the Rules made thereunder.
5. We conducted our audit of the standalone Ind AS financial statements in accordance with the Standards on Auditing specified under Section 143(10) of the Act and other applicable authoritative pronouncements issued by the Institute of Chartered Accountants of India. Those Standards and pronouncements require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the standalone Ind AS financial statements are free from material misstatement.

6. An audit involves performing procedures to obtain audit evidence about the amounts and the disclosures in the standalone Ind AS financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the standalone Ind AS financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal financial control relevant to the Company's preparation of the standalone Ind AS financial statements that give a true and fair view, in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of the accounting estimates made by the Company's Directors, as well as evaluating the overall presentation of the standalone Ind AS financial statements.
7. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the standalone Ind AS financial statements.

Opinion

8. In our opinion and to the best of our information and according to the explanations given to us, the aforesaid standalone Ind AS financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India, of the state of affairs of the Company as at March 31, 2018, and its total comprehensive income (comprising of profit and other comprehensive income), its cash flows and the changes in equity for the year ended on that date.

Other Matter

9. The standalone Ind AS financial statements of the Company for the year ended March 31, 2017, were audited by another firm of Chartered Accountants under the Companies Act, 2013 who, vide their report dated May 9, 2017, expressed an unmodified opinion on those financial statements. Our opinion is not qualified in respect of this matter.

Report on Other Legal and Regulatory Requirements

10. As required by the Companies (Auditor's Report) Order, 2016, issued by the Central Government of India in terms of sub-section (11) of section 143 of the Act ("the Order"), and on the basis of such checks of the books and records of the Company as we considered appropriate and according to the information and explanations given to us, we give in the Annexure B a statement on the matters specified in paragraphs 3 and 4 of the Order.
11. As required by Section 143 (3) of the Act, we report that:
 - a) We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit.
 - b) In our opinion, proper books of account as required by law have been kept by the Company so far as it appears from our examination of those books.

Independent Auditors' Report

- c) The Balance Sheet, the Statement of Profit and Loss (including other comprehensive income), the Cash Flow Statement and the Statement of Changes in Equity dealt with by this Report are in agreement with the books of account.
- d) In our opinion, the aforesaid standalone Ind AS financial statements comply with the Indian Accounting Standards specified under Section 133 of the Act.
- e) On the basis of the written representations received from the directors as on March 31, 2018 taken on record by the Board of Directors, none of the directors is disqualified as on March 31, 2018 from being appointed as a director in terms of Section 164 (2) of the Act.
- f) With respect to the adequacy of the internal financial controls with reference to financial statements of the Company and the operating effectiveness of such controls, refer to our separate Report in Annexure A.
- g) With respect to the other matters to be included in the Auditors' Report in accordance with Rule 11 of the Companies (Audit and Auditors) Rules, 2014, in our opinion and to the best of our knowledge and belief and according to the information and explanations given to us:
 - i. The Company has disclosed the impact, if any, of pending litigations as at March 31, 2018 on its financial position in its standalone Ind AS financial statements - Refer Note 30;
 - ii. The Company did not have any material foreseeable losses on long-term contracts and did not have any derivative contracts as at March 31, 2018.
 - iii. There has been no delay in transferring amounts, required to be transferred, to the Investor Education and Protection Fund by the Company during the year ended March 31, 2018.
 - iv. The reporting on disclosures relating to Specified Bank Notes is not applicable to the Company for the year ended March 31, 2018.

For Price Waterhouse Chartered Accountants LLP
Firm Registration Number: 012754N/N500016
Chartered Accountants

Subramanian Vivek
Partner

Place: Chennai
Date: May 04, 2018

Membership No. 100332

Annexure A to Independent Auditors' Report

Referred to in paragraph 11(f) of the Independent Auditors' Report of even date to the members of Carborundum Universal Limited on the standalone financial statements as of and for the year ended March 31, 2018

Report on the Internal Financial Controls under Clause (i) of Sub-section 3 of Section 143 of the Act

1. We have audited the internal financial controls over financial reporting of Carborundum Universal Limited ("the Company") as of March 31, 2018 in conjunction with our audit of the standalone financial statements of the Company for the year ended on that date.

Management's Responsibility for Internal Financial Controls

2. The Company's management is responsible for establishing and maintaining internal financial controls based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting issued by the Institute of Chartered Accountants of India (ICAI). These responsibilities include the design, implementation and maintenance of adequate internal financial controls that were operating effectively for ensuring the orderly and efficient conduct of its business, including adherence to company's policies, the safeguarding of its assets, the prevention and detection of frauds and errors, the accuracy and completeness of the accounting records, and the timely preparation of reliable financial information, as required under the Act.

Auditors' Responsibility

3. Our responsibility is to express an opinion on the Company's internal financial controls over financial reporting based on our audit. We conducted our audit in accordance with the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting (the "Guidance Note") and the Standards on Auditing deemed to be prescribed under section 143(10) of the Act to the extent applicable to an audit of internal financial controls, both applicable to an audit of internal financial controls and issued by the ICAI. Those Standards and the Guidance Note require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether adequate internal financial controls over financial reporting was established and maintained and if such controls operated effectively in all material respects.
4. Our audit involves performing procedures to obtain audit evidence about the adequacy of the internal financial controls system over financial reporting and their operating effectiveness. Our audit of internal financial controls over financial reporting included obtaining an understanding of internal financial controls over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. The procedures selected

Independent Auditors' Report

depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error.

5. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the Company's internal financial controls system over financial reporting.

Meaning of Internal Financial Controls Over Financial Reporting

6. A company's internal financial control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal financial control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorisations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorised acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Inherent Limitations of Internal Financial Controls Over Financial Reporting

7. Because of the inherent limitations of internal financial controls over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may occur and not be detected. Also, projections of any evaluation of the internal financial controls over financial reporting to future periods are subject to the risk that the internal financial control over financial reporting may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Opinion

8. In our opinion, the Company has, in all material respects, an adequate internal financial controls system over financial reporting and such internal financial controls over financial reporting were operating effectively as at March 31, 2018, based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting issued by the Institute of Chartered Accountants of India.

For Price Waterhouse Chartered Accountants LLP

Firm Registration Number: 012754N/N500016

Chartered Accountants

Subramanian Vivek

Partner

Place: Chennai
Date: May 04, 2018

Membership No. 100332

Annexure B to Independent Auditors' Report

Referred to in paragraph 10 of the Independent Auditors' Report of even date to the members of Carborundum Universal Limited on the standalone financial statements for the year ended March 31, 2018

- i. In respect of fixed assets:
 - (a) The Company is maintaining proper records showing full particulars, including quantitative details and situation, of fixed assets.
 - (b) The fixed assets are physically verified by the Management according to a phased programme designed to cover all the items at regular intervals which, in our opinion, is reasonable having regard to the size of the Company and the nature of its assets. Pursuant to the programme, the fixed assets have been physically verified by the Management during the year and no material discrepancies have been noticed on such verification.
 - (c) According to the information and explanations given to us and based on the examination of the registered title deeds provided to us, we report that the title deeds of all the immovable properties of land and buildings as disclosed in Note 4 are held in the name of the Company as at the Balance Sheet date; Immovable properties of land and buildings whose title deeds have been pledged as security for loans, guarantees, etc. are held in the name of the Company as per the Memorandum of Entry executed by the Company and confirmed by the banker as on the balance sheet date. In respect of immovable properties of land and buildings that have been taken on lease, the lease agreements are in the name of the Company where the Company is a lessee in the agreement.
- ii. The physical verification of inventory, excluding stocks at third party warehouses, have been conducted at reasonable intervals by the Management during the year. In respect of inventory lying at third party warehouses, these have been confirmed by them. The discrepancies noticed on physical verification of inventory as compared to book records were not material.
- iii. The Company has not granted any loans, secured or unsecured, to companies, firms, Limited Liability Partnerships or other parties covered in the register maintained under Section 189 of the Act. Therefore, the provisions of Clause 3(iii) of the said Order are not applicable to the Company.
- iv. In our opinion, and according to the information and explanations given to us, the Company has complied with the provisions of Section 185 and 186 of the Companies Act, 2013 in respect of the loans and investments made, and guarantees and security provided by it.
- v. The Company has not accepted any deposits from the public within the meaning of Sections 73, 74, 75 and 76 of the Act and the Rules framed there under to the extent notified.

Independent Auditors' Report

vi. Pursuant to the rules made by the Central Government, the Company is required to maintain cost records as specified under Section 148(1) of the Act. We have broadly reviewed the same, and are of the opinion that, prima facie, the prescribed accounts and records have been made and maintained. We have not, however, made a detailed examination of the records with a view to determine whether they are accurate or complete.

vii. (a) According to the information and explanations given to us and the records of the Company examined by us, in our opinion, the Company is regular in depositing undisputed statutory dues, including provident fund, employees' state insurance, income tax,

sales tax, service tax, duty of customs, duty of excise, value added tax, goods and service tax with effect from July 01, 2017, cess and other material statutory dues, as applicable, with the appropriate authorities.

(b) According to the information and explanations given to us and the records of the Company examined by us, there are no dues of duty of customs, value added tax and goods and service tax which have not been deposited on account of any dispute. The particulars of dues of income tax, sales tax, service tax and duty of excise as at March 31, 2018 which have not been deposited on account of a dispute, are as follows:

Name of the statute	Nature of dues	Amount (₹ in Million)*	Period to which the amount relates	Forum where the dispute is pending
Central Excise Act, 1944	Excise duty	0.95	1986-1987	High Court of Kerala
Central Excise Act, 1944	Excise duty	1.25	1993, 1996-1997 and 1998 - 2003	The Customs, Excise & Service Tax Appellate Tribunal
Central Excise Act, 1944	Excise duty	7.69	1999 - 2000 and 2011- 2015	Commissioner of Central Excise (Appeals)
Finance Act, 1994	Service tax	0.85	2006 - 2011	The Customs, Excise & Service Tax Appellate Tribunal
The Central Sales Tax Act, 1956	Central Sales Tax	0.47	1989 - 1991	High Court of Madras
Tamil Nadu General Sales Tax Act, 1959	Sales Tax	0.02	1995 - 1996	Sales Tax Appellate Tribunal, Chennai
The Central Sales Tax Act, 1956	Central Sales Tax	0.23	2002 - 2003	Sales Tax Appellate Tribunal, Chennai
The Central Sales Tax Act, 1956	Central Sales Tax	0.06	2004 - 2005	Commissioner Appeals
Tamil Nadu General Sales Tax Act, 1959	Sales Tax	0.66	2005 - 2006	Deputy Commissioner Appeals
The Central Sales Tax Act, 1956	Central Sales Tax	15.32	2005 - 2008 and 2012 -2013	Deputy Commissioner Appeals
The Central Sales Tax Act, 1956	Central Sales Tax	1.43	2011 - 2012	Commercial Tax Appellate Board, Madhya Pradesh
The Central Sales Tax Act, 1956	Central Sales Tax	2.78	2013-2015	Assistant Commissioner Appeals
The Central Sales Tax Act, 1956	Central Sales Tax	9.48	2014 - 2015	Additional Commissioner West Bengal - VAT
Income Tax Act, 1961	Income Tax	73.70	2009 - 2015	Commissioner of Income Tax (Appeals)

* Amount considered above is net of ₹15.26 Million paid under protest.

viii. According to the records of the Company examined by us and the information and explanations given to us, the Company has not defaulted in repayment of loans or borrowings to any financial institution or bank. The Company has not availed any loans or borrowings from Government nor has it issued any debentures.

ix. The Company has not raised any moneys by way of initial public offer, further public offer (including debt instruments) and term loans. Accordingly, the provisions of Clause 3(ix) of the Order are not applicable to the Company.

x. During the course of our examination of the books and records of the Company, carried out in accordance with the generally accepted auditing practices in India and according to the information and explanations given to us, we have neither come across any instance of material fraud by the Company or on the Company by its officers or employees, noticed or reported during the year, nor have we been informed of any such case by the Management.

xi. The Company has paid/ provided for managerial remuneration in accordance with the requisite approvals mandated by the provisions of Section 197 read with Schedule V to the Act.

xii. As the Company is not a Nidhi Company and the Nidhi Rules, 2014 are not applicable to it, the provisions of Clause 3(xii) of the Order are not applicable to the Company.

xiii. In our opinion and according to the information and explanations given to us the Company is in compliance with Section 177 and 188

of the Companies Act 2013, where applicable, for all transactions with the related parties and the details of related party transactions have been disclosed in the financial statements as required under Indian Accounting Standards (Ind AS) 24 Related Party Disclosure specified under Section 133 of the Act.

xiv. The Company has not made any preferential allotment or private placement of shares or fully or partly convertible debentures during the year under review. Accordingly, the provisions of Clause 3(xiv) of the Order are not applicable to the Company.

xv. The Company has not entered into any non-cash transactions with its directors or persons connected with him. Accordingly, the provisions of Clause 3(xv) of the Order are not applicable to the Company.

xvi. The Company is not required to be registered under Section 45-IA of the Reserve Bank of India Act, 1934. Accordingly, the provisions of Clause 3(xvi) of the Order are not applicable to the Company.

For Price Waterhouse Chartered Accountants LLP
Firm Registration Number: 012754N/N500016
Chartered Accountants

Subramanian Vivek
Partner

Place: Chennai
Date: May 04, 2018

Membership No. 100332

Balance Sheet

(in Indian Rupees million, unless otherwise stated)

Particulars	Notes	As at 31.03.2018	As at 31.03.2017
ASSETS			
Non-current assets			
(a) Property, plant and equipment	4A	4255.96	4004.01
(b) Capital work-in-progress	4B	169.63	514.09
(c) Intangible assets	5A	48.45	76.90
(d) Intangible assets under development	5B	0.29	0.33
(e) Financial assets			
(i) Investments			
(a) Investment in associate	6A	10.36	10.36
(b) Investment in joint ventures	6B	45.72	45.72
(c) Investment in subsidiaries	6C	2352.35	2352.35
(d) Other investments	6D	160.14	132.73
(ii) Other financial assets	7A	109.54	99.87
(f) Other non-current assets	8A	164.24	229.13
Total Non-Current assets		7316.68	7465.49
Current assets			
(a) Inventories	9	2603.98	2267.72
(b) Financial assets			
(i) Other investments	6E	544.79	-
(ii) Trade receivables	10	3267.44	2562.84
(iii) Cash and cash equivalents	11A	195.67	67.05
(iv) Bank balances other than (iii) above	11B	12.76	12.21
(v) Other financial assets	7B	46.95	43.60
(c) Other current assets	8B	370.33	554.25
Total Current assets		7041.92	5507.67
Total Assets		14358.60	12973.16
EQUITY AND LIABILITIES			
EQUITY			
(a) Equity share capital	12	188.96	188.66
(b) Other equity	13	11507.74	10361.64
Total Equity		11696.70	10550.30
LIABILITIES			
Non-Current liabilities			
(a) Financial liabilities			
Borrowings	14	10.78	17.94
(b) Provisions	15A	56.95	43.84
(c) Deferred tax liabilities (net)	16	260.79	340.65
Total Non-Current liabilities		328.52	402.43
Current liabilities			
(a) Financial liabilities			
(i) Trade payables	17	1668.66	1339.36
(ii) Other financial liabilities	18	564.23	525.04
(b) Provisions	15B	39.10	39.46
(c) Other current liabilities	19	61.39	116.57
Total Current liabilities		2333.38	2020.43
Total Liabilities		2661.90	2422.86
Total Equity and Liabilities		14358.60	12973.16
See accompanying notes forming part of the financial statements			

In terms of our report attached

On behalf of the Board

For **Price Waterhouse Chartered Accountants LLP**
Firm Registration Number: 012754N/N500016
Chartered Accountants

M M Murugappan
Chairman

K Srinivasan
Managing Director

Subramanian Vivek
Partner
Membership Number: 100332
Chennai
May 04, 2018

P Padmanabhan
Senior Associate Vice President - Accounts and Taxation

Rekha Surendhiran
Company Secretary

Statement of Profit and Loss

(in Indian Rupees million, unless otherwise stated)

Sl. No.	Particulars	Notes	For the year	
			2017-18	2016-17
I	Revenue from Operations	20	16022.82	15197.77
II	Other income	21	310.37	343.25
III	Total Income (I+II)		16333.19	15541.02
IV	Expenses			
	Cost of material consumed		5796.17	5120.71
	Purchases of stock-in-trade		709.25	818.13
	Changes in inventories of finished goods, stock-in-trade and work-in-progress	22	137.76	11.96
	Excise duty on sale of goods		260.49	1140.86
	Employee benefits expense	23	1741.96	1532.71
	Finance costs	24	14.67	87.60
	Depreciation and amortisation expense	25	738.88	669.36
	Other expenses	26	4882.08	4452.61
	Total expenses (IV)		14281.26	13833.94
V	Profit before tax (III-IV)		2051.93	1707.08
VI	Tax expense			
	(1) Current tax	27A	697.00	527.50
	(2) Deferred tax	16	(79.86)	(38.17)
	Total tax [VI]		617.14	489.33
VII	Profit for the year (V - VI)		1434.79	1217.75
VIII	Other Comprehensive Income [OCI]			
A	(i) Items that will not be reclassified to profit or loss			
	(a) Remeasurement of the defined benefit plans		3.32	(25.34)
	(b) Equity instruments through OCI		26.63	(54.16)
	(ii) Income tax relating to items that will not be reclassified to profit or loss	27B	-	-
	Total Other Comprehensive Income (VIII)		29.95	(79.50)
IX	Total Comprehensive Income for the year (VII + VIII)		1464.74	1138.25
X	Earnings per equity share (of ₹1 each) on profit for the year (VII)	28		
	- Basic		7.60	6.46
	- Diluted		7.58	6.44

See accompanying notes forming part of the financial statements

In terms of our report attached

On behalf of the Board

For **Price Waterhouse Chartered Accountants LLP**
Firm Registration Number: 012754N/N500016
Chartered Accountants

M M Murugappan
Chairman

K Srinivasan
Managing Director

Subramanian Vivek
Partner
Membership Number: 100332
Chennai
May 04, 2018

P Padmanabhan
Senior Associate Vice President - Accounts and Taxation

Rekha Surendhiran
Company Secretary

Statement of changes in equity

(in Indian Rupees million, unless otherwise stated)

A. Equity share capital - Refer Note: 12

Balance as at March 31, 2016	188.38
Changes in equity share capital during the year	
Shares issued against Employee Stock Options Scheme/Plan	0.28
Balance as at March 31, 2017	188.66
Changes in equity share capital during the year	
Shares issued against Employee Stock Options Scheme/Plan	0.30
Balance as at March 31, 2018	188.96

B. Statement of changes in other equity

Particulars	Reserves and Surplus - Refer Note: 13A						Items of Other Comprehensive Income - Refer Note: 13B		Share application money pending allotment - Refer Note: 13C	Total
	Profit on Forfeiture of Shares / Warrants	Capital redemption reserve	Securities premium	General Reserve	Share options outstanding account	Retained Earnings	Reserve for equity instruments	Revaluation surplus		
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
Balance at the beginning of the year - March 31, 2016	6.03	27.68	166.61	5675.43	11.77	3372.71	111.95	23.74		9395.92
Profit for the year						1217.75				1217.75
Other Comprehensive income for the year						(25.34)	(54.16)			(79.50)
Total Comprehensive income for the year	-	-	-	-	-	1192.41	(54.16)	-		1138.25
Share premium received on allotment of equity shares under ESOP			27.54			-				27.54
Recognition of share-based payments					4.31					4.31
Interim dividend paid during the year						(188.63)				(188.63)
Dividend tax on Interim dividend paid during the year						(15.75)				(15.75)
Transfer to General Reserve				500.00		(500.00)				-
Balance at the end of the year - March 31, 2017	6.03	27.68	194.15	6175.43	16.08	3860.74	57.79	23.74		10361.64
Profit for the year						1434.79				1434.79
Other Comprehensive income for the year						3.32	26.63			29.95
Total Comprehensive income for the year	-	-	-	-	-	1438.11	26.63	-		1464.74
Share premium received on allotment of equity shares under ESOP			32.04							32.04
Share application money pending for allotment									0.23	0.23
Recognition of share-based payments					14.76					14.76
Final dividend paid during the year						(141.51)				(141.51)
Dividend tax on Final dividend						(14.92)				(14.92)
Interim dividend paid during the year						(188.93)				(188.93)
Dividend tax on Interim dividend paid during the year						(20.31)				(20.31)
Transfer to General Reserve				500.00		(500.00)				-
Balance at the end of the year - March 31, 2018	6.03	27.68	226.19	6675.43	30.84	4433.18	84.42	23.74	0.23	11507.74

See accompanying notes forming part of the financial statements

In terms of our report attached

On behalf of the Board

For **Price Waterhouse Chartered Accountants LLP**
Firm Registration Number: 012754N/N500016
Chartered Accountants

M M Murugappan
Chairman

K Srinivasan
Managing Director

Subramanian Vivek
Partner
Membership Number: 100332
Chennai
May 04, 2018

P Padmanabhan
Senior Associate Vice President - Accounts and Taxation

Rekha Surendhiran
Company Secretary

Cash flow Statement

(in Indian Rupees million, unless otherwise stated)

Particulars	For the year		
	2017-18	2016-17	
A. Cash flow from operating activities			
Profit before Tax		2051.93	1707.08
Adjustment for:			
Depreciation and amortization expenses	738.88		669.36
Fair valuation of investments	(0.78)		(0.75)
Finance Costs	14.67		87.60
Interest income	(4.99)		(5.40)
Dividend income	(285.34)		(321.25)
Expenses recognised in respect of equity-settled share-based payments	14.76		4.31
Allowance for doubtful receivable and advances	31.21		18.22
Reversal of allowance for doubtful receivables and advances	(10.41)		(9.65)
Provision for expenses no longer required written back	(2.94)		(3.73)
Loss on sale of assets (net)	3.17		3.12
Unrealised exchange gain/(loss)-net	(17.72)	480.51	5.62
		447.45	
Operating profit before working capital changes		2532.44	2154.53
Movement in working capital			
(Increase)/decrease in trade receivables	(698.43)		(52.47)
(Increase)/decrease in inventories	(336.26)		(15.35)
(Increase)/decrease in other financial assets	(13.91)		(7.21)
(Increase)/decrease in other assets	170.02		(165.85)
Increase/(decrease) in trade payables	327.21		313.32
Increase/(decrease) in provision and other current liabilities	(42.42)		30.90
Increase/(decrease) in other financial liabilities	62.39	(531.40)	25.83
		129.17	
Cash generated from Operations		2001.04	2283.70
Income tax paid		(685.00)	(515.00)
Net cash generated by Operating activities [A]		1316.04	1768.70
B. Cash flow from investing activities			
Payments to acquire property, plant and equipment	(578.45)		(742.94)
Payments for intangible assets	(5.37)		(8.70)
Proceeds from sale of property, plant and equipment	6.53		2.05
Investment made in subsidiaries	-		(34.00)
Interest income received	4.98		5.39
Dividend income received	285.34		321.25
Net cash (used in) investing activities [B]		(286.97)	(456.95)
C. Cash flow from financing activities			
Proceeds from issue of equity shares	32.34		27.82
Share application money pending allotment	0.23		-
(Repayment) of long-term borrowings - net	(7.89)		(739.32)
(Repayment) of short-term borrowings - net	-		(325.65)
Finance costs paid	(14.67)		(87.60)
Dividends paid	(330.44)		(188.63)
Tax on dividend	(35.23)		(15.75)
Net cash (used in) financing activities [C]		(355.66)	(1329.13)
Net increase/(decrease) in cash and cash equivalents(A+B+C) [D]		673.41	(17.38)
Add: Cash and Cash equivalents at the beginning of the year		67.05	84.43
Cash and Cash equivalents at the end of the year		740.46	67.05
Reconciliation of Cash and cash equivalents with the Balance Sheet:			
Cash and Cash equivalents at the beginning of the year			
Cash and cash equivalents - Refer Note: 11A		67.05	84.43
Cash and cash equivalents at the end of the year			
Cash and cash equivalents - Refer Note: 11A		195.67	67.05
Current investment considered as Cash and Cash equivalents - Refer Note: 6E		544.79	-
		740.46	67.05

See accompanying notes forming part of the financial statements

In terms of our report attached

On behalf of the Board

For **Price Waterhouse Chartered Accountants LLP**

Firm Registration Number: 012754N/N500016

Chartered Accountants

Subramanian Vivek

Partner, Membership Number: 100332

Chennai

May 04, 2018

M M Murugappan

Chairman

P Padmanabhan

Senior Associate Vice President - Accounts and Taxation

K Srinivasan

Managing Director

Rekha Surendhiran

Company Secretary

Notes forming part of the Standalone Financial Statements

For the year ended March 31, 2018

Statement showing the applicable Key Accounting Standards (Ind AS) with related Policy & Notes references as per Standalone financial statements.

Ind AS No.	Description	Accounting policy Reference	Note Reference
2	Inventories	3.16	9
7	Statement of Cash flow	3.15	11
8	Accounting Policies, Changes in Accounting Estimates and Errors		47
10	Event after the reporting period		46,48
12	Income tax	3.10	27,16
16	Property, plant and equipment	3.11	4,25
17	Leases	3.23	4,42
18	Revenue	3.4	20
19	Employee benefits	3.8	23,33
24	Related party disclosure		35
28	Investments in associates and joint ventures		6A,6B
33	Earning per share	3.24	28
36	Impairment of assets	3.13	4,5
37	Provisions, Contingent liabilities and assets	3.17,3.18	15,30
38	Intangible assets	3.12	5,25
102	Share based payments	3.9	23,36
103	Business combinations	3.12.3	
105	Non current held for sale and discontinued operations	3.3	
107	Financial instruments - Disclosures	3.19,3.26,3.27	10,14,17,21,34
108	Operating segments	3.22	29
113	Fair value measurements		34

Notes forming part of the Standalone Financial Statements

For the year ended March 31, 2018

1. General information

Carborundum Universal Limited (CUMI) was incorporated in India as a Public Limited Company in 1954 and the shares of the Company are listed in National Stock Exchange of India Ltd. and BSE Ltd. The addresses of its registered office and place of business are disclosed in the annual report.

CUMI manufactures and sells mainly Abrasives, Ceramics (Industrial Ceramics, Refractories) and Electrominerals. (Refer Note: 29).

2. Application of Indian Accounting Standards (Ind AS):

The financial statements comply in all material aspects with Indian Accounting Standards (Ind AS) notified under Section 133 of the Companies Act, 2013 (the Act) [Companies (Indian Accounting Standards) Rules, 2015] and other relevant provisions of the Act.

3. Significant accounting policies:

3.1. Basis of preparation and presentation

The financial statements have been prepared on the historical cost basis except for certain financial instruments that are measured at fair values at the end of each reporting period, as explained in the accounting policies below:

Historical cost is generally based on the fair value of the consideration given in exchange for goods and services.

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value measurement is based on the presumption that the transaction to sell the asset or transfer the liability takes place either:

- In the principal market for the asset or liability, or
- In the absence of a principal market, in the most advantageous market for the asset or liability.

The principal or the most advantageous market must be accessible by the Company.

The fair value of an asset or a liability is measured using the assumptions that market participants would use when pricing the asset or liability, assuming that market participants act in their best economic interest.

A fair value measurement of a non-financial asset takes into account a market participant's ability to generate economic benefits by using the asset in its highest and best use or by selling it to another market participant that would use the asset in its highest and best use.

The Company uses valuation techniques that are appropriate in the circumstances and for which sufficient data are available to measure fair value, maximising the use of relevant observable inputs and minimising the use of unobservable inputs.

All assets and liabilities for which fair value is measured or disclosed in the financial statements are categorised within the fair value hierarchy, described as follows, based on the lowest level input that is significant to the fair value measurement as a whole:

- Level 1 - Quoted (unadjusted) market prices in active markets for identical assets or liabilities.
- Level 2 - Valuation techniques for which the lowest level input that is significant to the fair value measurement is directly or indirectly observable.
- Level 3 - Valuation techniques for which the lowest level input that is significant to the fair value measurement is unobservable.

For assets and liabilities that are recognised in the financial statements on a recurring basis, the Company determines whether transfers have occurred between levels in the hierarchy by re-assessing categorisation (based on the lowest level input that is significant to the fair value measurement as a whole) at the end of each reporting period.

3.2 Use of estimates and judgements

In preparing these financial statements, management has made judgments, estimates and assumptions that affect the application of accounting policies and the reported amounts of assets, liabilities, income and expenses. Actual results may differ from these estimates.

3.2.1 Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised prospectively.

3.2.2 Judgements are made in applying accounting policies that have the most significant effects on the amounts recognised in the financial statements.

3.2.3 Assumptions and estimation uncertainties that have a significant risk of resulting in a material adjustment are reviewed on an ongoing basis.

The areas involving critical estimates or judgements are:

S.No	Particulars	Notes
I	Estimation of useful life of tangible and intangible asset	3.11 & 3.12
II	Estimation of fair value of unlisted securities	6D
III	Impairment of Trade receivables: Expected credit loss	10
IV	Recognition and measurement of provisions and contingencies; key assumptions about the likelihood and magnitude of an outflow of resources.	15 & 30
V	Measurement of defined benefit obligation: Key actuarial assumptions.	33

3.3 Non-current assets held for sale

Non-current assets and disposals groups are classified as held for sale if their carrying amount will be recovered principally through a sale transaction rather than through continuing use. This condition is regarded as met only when the asset (or disposal) is available for immediate sale in its present condition subject only to terms that are usual and customary for sale of such assets and its sales is highly probable.

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Non-current assets classified as held for sale are measured at the lower of their carrying amount and fair value less costs to sell.

3.4 Revenue recognition

Revenue is recognised to the extent that it is probable that the economic benefits will flow to the Company and the revenue can be reliably measured, regardless of when the payment is being made. Revenue is measured at the fair value of the consideration received or receivable, taking into account contractually defined terms of payment and excluding taxes or duties collected on behalf of the government. Revenue is reduced for estimated customer returns, rebates and other similar allowances.

Based on the Educational Material on Ind AS 18 issued by the ICAI, the Company has assumed that recovery of excise duty flows to the Company on its own account. This is for the reason that it is a liability of the manufacturer which forms part of the cost of production, irrespective of whether the goods are sold or not. Since the recovery of excise duty flows to the Company on its own account, revenue is recorded inclusive of excise duty.

However, Goods and Service Tax (GST)/Sales Tax/Value Added Tax (VAT) is not received by the Company on its own account. Rather, it is tax collected on value added to the commodity by the seller on behalf of the government. Accordingly, it is excluded from revenue.

The specific recognition criteria described below must also be met before revenue is recognised.

3.4.1 Sale of goods

Revenue from the sale of goods is recognised when the goods are delivered and titles have passed, which generally coincides with dispatch of products to customers in case of domestic sales and on the basis of bill of lading in the case of export sales, at which time all the following conditions are satisfied:

- the Company has transferred to the buyer the significant risks and rewards of ownership of the goods;
- the Company retains neither continuing managerial involvement to the degree usually associated with ownership nor effective control over the goods sold;
- the amount of revenue can be measured reliably;
- it is probable that the economic benefits associated with the transaction will flow to the Company; and
- the costs incurred or to be incurred in respect of the transaction can be measured reliably.

3.4.2 Rendering of services

The revenue from divisible contracts are recognised on the percentage completion method in respect of service contracts and in respect of supplies on dispatch. In respect of indivisible contracts, the revenues are recognised on a percentage completion method, synchronized to the billing schedules agreed by the customers.

3.4.3 Other income

Royalty income is recognised on an accrual basis in accordance with the substance of the relevant agreement.

Dividend income from investments is recognised when the shareholder's right to receive payment has been established.

Interest income from a financial asset is recognised and accrued using effective interest rate method.

Rental income is recognised on a straight line basis in accordance with the agreement.

3.5 Foreign Currencies

Foreign currency transactions are recorded at the rates of exchange prevailing on the date of the transactions. Monetary assets and liabilities outstanding at the year-end are translated at the rate of exchange prevailing at the year-end and the gain or loss, is recognised in the Statement of Profit and Loss.

Foreign currency monetary items (other than derivative contracts) of the Company, outstanding at the Balance Sheet date are restated at the year-end rates. Non-monetary items of the Company are carried at historical cost.

Exchange differences arising on settlement / restatement of short-term foreign currency monetary assets and liabilities of the Company are recognised as income or expense in the Statement of Profit and Loss.

Refer Notes: 3.26 and 3.27 for accounting for forward exchange contracts relating to firm commitments and highly probable forecast transactions.

3.6 Borrowing costs

The borrowing costs (other than those attributable to fixed assets - Refer Note: 4 & 5) are recognised in profit or loss in the period in which they are incurred.

Interest income earned on temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalisation.

3.7 Government grants

Government grants are not recognised until there is reasonable assurance that the Company will comply with the conditions attaching to them and that the grants will be received.

Government grants are recognised in profit or loss on a systematic basis over the periods in which the Company recognises as expenses the related cost for which the grants are intended to compensate. Specifically, government grants whose primary condition is that the Company should purchase, construct or otherwise acquire non-current assets are recognised as deferred revenue in the Balance Sheet and transferred to profit or loss on a systematic and rational basis over the useful lives of the related assets.

Government grants that are receivable as compensation for expenses or losses already incurred or for the purpose of giving immediate financial

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support to the Company with no future related costs are recognised in profit or loss in the period in which they become receivable.

The benefit of a government loan at a below market rate of interest is treated as a government grant, measured as the differences between proceeds received and the fair value of the loan based on prevailing market interest rate.

Export Benefits on account of entitlement to import goods free of duty under 'Exports Benefits Scheme' are accounted based on eligibility and when there is no uncertainty in receiving the same.

3.8 Employee benefits

3.8.1. Retirement benefit costs and termination benefits

Payments to defined contribution retirement benefit plans are recognised as an expense when employees have rendered service entitling them to the contributions.

For defined benefit retirement plans, the cost of providing benefits is determined using the projected unit credit method, with actuarial valuations being carried out at the end of each annual reporting period. Remeasurement, comprising actuarial gain and loss, the effect of the changes to asset ceiling (if applicable) and the return on plan assets (excluding net interest), is reflected immediately in the Balance Sheet with a charge or credit recognised in other comprehensive income in the period in which they occur. Remeasurement recognised in other comprehensive income is reflected in retained earnings and is not reclassified to profit or loss. Past service cost is recognised in profit or loss in the period of plan amendment. Net interest is calculated by applying the rate at the beginning of the period to the net defined benefit liability or asset.

Defined benefit costs are categorised as follows:

- service cost (including current service cost, past service cost, as well as gains and losses on curtailments and settlements);
- net interest expense or income;
- remeasurement.

The Company presents the first two components of defined benefit costs in profit or loss in the line item 'Employee benefit expense'. Curtailment gain and loss are accounted for as past service costs.

A liability for a termination benefit is recognised when the entity can no longer withdraw the offer of the termination benefit as per the relevant scheme.

The employees and the Company make monthly fixed contributions to the Carborundum Universal Limited Employee's Provident Fund Trust, equal to a specified percentage of the covered employee's salary. The interest rate payable by the Trust to the beneficiaries is being notified by the Government every year. The Company obtains an independent actuarial valuation of the Interest Guarantees as at the Balance Sheet date and provides for the shortfall, if any, in the present value of obligation of interest over the fair value of the surplus in the Fund.

3.8.2 Short-term and other long-term employee benefits

A liability is recognised for benefits accruing to employees in respect of wages and salaries, annual leave and sick leave in the period the related service is rendered.

Liabilities recognised in respect of short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in exchange for the related service.

Liabilities recognised in respect of other long-term employee benefits are measured at the present value of the estimated future cash outflows expected to be made by the Company in respect of services provided by employees up to the reporting date.

3.8.3 Voluntary retirement compensation

Compensation to employees who have retired under voluntary retirement scheme is charged off to revenue.

3.9 Share-based payment arrangements

Equity-settled share-based payments to employees and others providing similar services are measured at the fair value of the equity instruments at the grant date. Details regarding the determination of the fair value of equity settled share based transactions are set out in Note: 36.

The fair value determined at the grant date of the equity-settled-based payments is expensed on a straight-line basis over the vesting period, based on the Company's estimate of equity instruments that will eventually vest, with a corresponding increase in equity. At the end of each reporting period, the Company revises its estimate of the number of equity instruments expected to vest. The impact of the revision of the original estimates, if any, is recognised in profit or loss such that the cumulative expense reflect the revised estimate, with a corresponding adjustment to the Share options outstanding account.

3.10 Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

3.10.1 Current tax

The tax currently payable is based on taxable profits for the year. Taxable profit differs from 'Profit before tax' as reported in the Statement of Profit and Loss because of items of income or expense that are taxable or deductible in other years (Temporary differences) and items that are never taxable or deductible (Permanent differences). The Company's current tax is calculated using tax rates that have been enacted by the end of the reporting period.

Current income tax assets and liabilities are measured at the amount expected to be recovered from or paid to the taxation authorities.

Current income tax relating to items recognised outside profit or loss is either in other comprehensive income or in equity. Current tax items are recognised in correlation to the underlying transaction either in OCI or directly in equity. Management periodically evaluates positions taken in the tax returns with respect to situations in which applicable tax regulations are subject to interpretation and establishes provisions where appropriate.

Notes forming part of the Standalone Financial Statements

For the year ended March 31, 2018

3.10.2 Deferred tax

Deferred tax is recognised on temporary differences between the carrying amounts of assets and liabilities in the financial statements and the corresponding tax bases used in computation of taxable profit. Deferred tax liabilities are generally recognised for all taxable temporary differences.

Deferred tax assets are generally recognised for all deductible temporary differences to the extent that it is probable that taxable profit will be available against which those deductible temporary differences can be utilised. Such deferred tax assets and liabilities are not recognised if the temporary differences arises from the initial recognition (other than in a business combination) of assets and liabilities in a transaction that affects neither the taxable profit nor the accounting profit. In addition deferred tax liabilities are not recognised if the temporary difference arises from the initial recognition of goodwill.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the year when the asset is realised or the liability is settled, based on tax rates and tax laws that have been enacted or substantively enacted at the reporting date.

Deferred tax relating to items recognised outside profit or loss is recognised either in other comprehensive income or in equity. Deferred tax items are recognised in correlation to the underlying transaction either in OCI or directly in equity.

3.10.3 Indirect taxes

GST/CENVAT/VAT credit on materials purchased/services availed for production/Input services are taken into account at the time of purchase. Service tax input credit is accounted for in the books in the period in which the underlying service received is accounted and when there is no uncertainty in availing/utilising the credits. GST/CENVAT/VAT credit on purchase of capital items wherever applicable are taken into account as and when the assets are acquired. The GST/CENVAT credits so taken are utilised for payment of GST on supply and service/excise duty on goods manufactured or for payment of service tax on services rendered. The unutilised GST/CENVAT/VAT credit is carried forward in the books.

3.11 Property, plant and equipment

Land and buildings held for use in the production or supply of goods or services, or for administrative purposes, are stated in the Balance Sheet at cost less accumulated depreciation and accumulated impairment losses. Freehold land is not depreciated.

Fixtures and equipment are stated at cost less accumulated depreciation and accumulated impairment losses.

Depreciation is recognised so as to write off the cost of the assets (other than freehold land) less their residual values over their useful lives as specified under Schedule II, using the straight-line method. The estimated useful lives, residual value and depreciation method are reviewed at the end of each reporting period, with the effect of any changes in estimate accounted for on a prospective basis.

Assets held under finance lease are depreciated over their expected useful lives on the same basis as owned assets. However, when there is

no reasonable certainty that ownership will be obtained by the end of the lease term, assets are depreciated over the shorter of the lease term and their useful lives.

Building on lease hold land are depreciated over the lease period if it is lower than the useful life mentioned in Schedule II.

Individual assets costing less than ₹5,000 are depreciated in full in the year of acquisition.

An item of property, plant and equipment is derecognised upon disposal or when no future economic benefits are expected to arise from the continued use of the asset. Any gain or loss arising on the disposal or retirement of an item of property, plant and equipment is determined as the difference between the sale proceeds and the carrying amount of the asset and is recognised in profit or loss.

When significant parts of plant and equipment are required to be replaced at regular intervals, the Company depreciates them separately based on their specific useful lives. Likewise, when a major inspection is performed, its cost is recognised in the carrying amount of the plant and equipment as a replacement if the recognition criteria are satisfied. All other repair and maintenance costs are recognised in profit or loss as incurred. The present value of the expected cost for the decommissioning of an asset after its use is included in the cost of the respective asset if the recognition criteria for a provision are met.

An item of property, plant and equipment and any significant part initially recognised is derecognised upon disposal or when no future economic benefits are expected from its use or disposal. Any gain or loss arising on derecognition of the asset (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in the income statement when the asset is derecognised.

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use or sale, are added to the cost of those assets, until such time as the assets are substantially ready for their intended use or sale.

3.12 Intangible assets

3.12.1 Intangible assets acquired separately

Intangible assets that are acquired separately are carried at cost less accumulated amortisation and accumulated impairment losses. Amortisation is recognised on a straight-line basis over their estimated useful lives.

The estimated useful life and amortisation method are reviewed at the end of each reporting period, with the effect of any changes in estimate being accounted for on a prospective basis. The amortisation expense on intangible assets with finite lives is recognised in the statement of profit and loss unless such expenditure forms part of carrying value of another asset.

3.12.2 Internally generated intangibles, excluding eligible development costs, are not capitalised and the related expenditure is reflected in profit or loss in the period in which the expenditure is incurred.

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For the year ended March 31, 2018

3.12.3. Intangible assets acquired in a business combination

Intangible assets acquired in a business combination and recognised separately from goodwill are initially recognised at their fair value at the acquisition date, which is regarded as their cost.

Subsequent to initial recognition, intangible assets acquired in a business combination are reported at cost less accumulated amortisation and accumulated impairment losses, on the same basis as intangible assets that are acquired separately.

3.12.4 Derecognition of intangible assets

An intangible asset is derecognised on disposal, or when no future economic benefits are expected from use or disposal. Gain or loss arising from Derecognition of an intangible asset, measured as the difference between the net disposal proceeds and the carrying amount of the asset, are recognised in profit or loss when the asset is derecognised.

3.13 Impairment of tangible and intangible assets other than goodwill

At the end of each reporting period, the Company reviews the carrying amount of tangible and intangible assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the assets is estimated in order to determine the extent of the impairment loss (if any). When it is not possible to estimate the recoverable amount of an individual asset, the Company estimates the recoverable amount of the cash-generating unit to which the asset belongs. When a reasonable and consistent basis of allocation can be identified, corporate assets are also allocated to individual cash-generating units.

Intangible assets with indefinite useful lives and intangible assets not yet available for use are tested for impairment at least annually, and whenever there is an indication that the asset may be impaired.

Recoverable amount is higher of fair value less cost of disposal and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset.

If the recoverable amount of an asset (or cash-generating unit) is estimated to be less than its carrying amount, the carrying amount of the asset (or cash-generating unit) is reduced to its recoverable amount. An impairment loss is recognised immediately in profit or loss.

When an impairment loss subsequently reverses, the carrying amount of the asset (or a cash-generating unit) is increased to the revised estimate of its recoverable amount, but so that the increased carrying amount does not exceed the carrying amount that would have been determined had no impairment loss been recognised for the asset (or cash-generated unit) in prior years. A reversal of an impairment loss is recognised immediately in profit or loss.

3.14 Cash and cash equivalents (for purposes of Cash Flow Statement)

Cash comprises cash on hand and demand deposits with banks. Cash equivalents are short-term balances (with an original maturity of three

months or less from the date of acquisition), highly liquid investments that are readily convertible into known amounts of cash and which are subject to insignificant risk of changes in value.

3.15 Cash Flow Statement

Cash flows are reported using the indirect method, whereby profit/(loss) before tax is adjusted for the effects of transactions of non-cash nature and any deferrals or accruals of past or future cash receipts or payments. The cash flows from operating, investing and financing activities of the Company are segregated based on the available information.

3.16 Inventories

Inventories are stated at the lower of cost and net-realizable value. Cost includes freight, taxes and duties net of GST/CENVAT/VAT credit wherever applicable. Customs duty payable on material in bonded warehouse is added to the cost.

In respect of raw materials, stores and spare parts and traded stock, cost is determined on weighted average basis. In respect of work in progress and finished goods, cost includes all direct costs and applicable production overheads, to bring the goods to the present location and condition. Net realisable value represents the estimated selling price for inventories less all estimated cost of completion and cost necessary to make the sale.

3.17 Provisions

Provisions are recognised when the Company has a present obligation (legal or constructive) as a result of a past event, it is probable that the Company will be required to settle the obligation, and a reliable estimate can be made of the amount of obligation.

The amount recognised as a provision is the best estimate of the consideration required to settle present obligation at the end of reporting period, taking into account the risk and uncertainty surrounding the obligation. When a provision is measured using the cash flows estimated to settle the present obligation, its carrying amount is the present value of these cash flows (when the effect of the time value of money is material).

When some or all of the economic benefits required to settle a provision are expected to be recovered from a third party, a receivable is recognised as an asset if it is virtually certain that reimbursement will be received and the amount of receivable can be measured reliably.

3.18 Contingent liabilities

Contingent liability is disclosed for (i) Possible obligation which will be confirmed only by future events not wholly within the control of the Company or (ii) Present obligations arising from past events where it is not probable that an outflow of resources will be required to settle the obligation or a reliable estimate of the amount of the obligation cannot be made. Contingent assets are not recognised in the financial statements.

3.19 Financial instruments

Financial assets and financial liabilities are recognised when the Company becomes a party to the contractual provision of the instruments.

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For the year ended March 31, 2018

Financial assets and financial liabilities are initially measured at fair value. Transaction costs that are directly attributable to the acquisition or issue of financial assets and financial liabilities (other than financial assets and financial liabilities at fair value through profit or loss) are added to or deducted from the fair value of the financial asset or financial liabilities, as appropriate, on initial recognition. Transaction cost directly attributable to the acquisition of financial assets or financial liabilities at fair value through profit or loss are recognised immediately in profit or loss.

3.20 Financial assets

All regular way purchases or sale of financial assets are recognised and derecognised on a trade date basis. Regular way purchases or sales are purchases or sale of financial assets that require delivery of assets within the time frame established by regulation or convention in the market place.

All recognised financial assets are subsequently measured in their entirety at either amortized cost or fair value, depending on the classification of the financial assets.

3.20.1 Classification of financial assets

Debt instruments that meet the following conditions are subsequently measured at amortised cost (except for debt instruments that are designated as at fair value through profit or loss on initial recognition):

- the asset is held within business model whose objective is to hold assets in order to collect contractual cash flows; and
- the contractual terms of the instruments give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

For the impairment policy on financial assets measured at amortised cost, Refer Note: 3.20.4.

3.20.2 Investment in equity instruments at Fair value through Other Comprehensive Income [FVTOCI]

On initial recognition, the Company can make an irrevocable election (on an instrument - by instrument basis) to present the subsequent changes in fair value in other comprehensive income pertaining to investment in equity instruments. This election is not permitted if the equity investment is held for trading.

These elected investments are initially measured at fair value plus transaction costs. Subsequently, they are measured at fair value with gain and loss arising from changes in fair value recognised in other comprehensive income and accumulated in the 'Reserve for equity instrument through other comprehensive income'. The cumulative gain or loss is not reclassified to profit or loss on disposal of the investments.

A financial asset is held for trading if:

- it has been acquired principally for the purpose of selling it in the near term;
- on initial recognition it is part of a portfolio of identified financial instruments that the Company manages together and has a recent actual pattern of short-term profit-taking; or

- it is a derivative that is not designated and effective as a hedging instrument or a financial guarantee.

The Company has equity instrument in two entities, which are not held for trading. The Company has elected the FVTOCI irrevocable option for both of these investments (Note: 6D). Fair value is determined in the manner described in Note: 34.

Dividend on these investments are recognised in profit or loss when the Company's right to receive the dividends is established, it is probable that the economic benefits associated with the dividend will flow to the entity, the dividend does not represent a recovery of part of cost of the investment and the amount of dividend can be measured reliably. Dividend recognised in profit and loss are included in 'Other income' line item.

3.20.3 Financial assets at fair value through profit or loss (FVTPL)

Investments in equity instruments are classified as at FVTPL, unless the Company irrevocably elects on initial recognition to present subsequent changes in fair value in other comprehensive income for investments in equity instruments which are not held for trading (Note: 3.20.2).

Debt instruments that do not meet the amortised cost criteria or FVTOCI criteria are measured at FVTPL. In addition, debt instruments that meet the amortised cost criteria or the FVTOCI criteria but are designated as at FVTPL are measured at FVTPL.

A financial asset that meets the amortised cost criteria or debt instruments that meet the FVTOCI criteria may be designated as at FVTPL upon initial recognition if such designation eliminates or significantly reduces a measurement or recognition inconsistency that would arise from measuring assets or liabilities or recognising the gain or loss on them on different bases. The Company has not designated any such debt instrument as at FVTPL.

Financial asset at FVTPL is measured at fair value at the end of each reporting period, with gains or losses arising on remeasurement recognised in profit or loss. The net gain or loss recognised in profit or loss incorporate any dividend or interest earned on the financial asset and is included in the 'Other income' line item. Dividend on financial asset at FVTPL is recognised when the Company's right to receive the dividends is established. It is probable that the economic benefits associated with the dividend will flow to the entity which does not represent a recovery of part of cost of the investment and the amount can be measured reliably.

3.20.4. Impairment of financial assets

The Company applied the expected credit loss model for recognising impairment loss on financial assets measured at amortised cost, debt instruments at FVTOCI, lease receivable, trade receivable, other contractual rights to receive cash or other financial asset, and financial guarantees not designated as at FVTPL.

Expected credit losses are the weighted average of credit losses with the respective risks of default occurring as the weights. Credit loss is the difference between all contractual cash flows that are due to the Company in accordance with the contract and all the cash flows that the Company expects to receive (i.e., all cash shortfalls), discounted at

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the original effective interest rate (or credit-adjusted effective interest rate for purchased or originated credit-impairment financial assets). The Company estimates cash flows by considering all contractual terms of the financial instrument (for example, prepayments, extension, call and similar options) through the expected life of that financial instruments.

The Company measures the loss allowance for the financial instruments at an amount equal to the lifetime expected credit losses if the credit risk on those financial instruments has increased significantly since initial recognition.

If the credit risk on financial instruments has not increased significantly since initial recognition, the Company measures the loss allowance for that financial instruments at an amount equal to 12 month expected credit losses. The twelve months expected credit losses are a portion of the lifetime cash shortfalls that will result if default occurs within 12 months after the reporting date and thus, are not cash shortfalls that are predicted over 12 months.

If the Company measured loss allowance for the financial instruments at life time expected credit loss model in the previous period, but determines at the end of a reporting period that the credit risk has not increased significantly since initial recognition due to improvement in credit quality as compared to the previous period, the Company again measures the loss allowance based on 12 month expected credit losses.

When making the assessment of whether there has been a significant increase in credit risk since initial recognition, the Company uses the change in the risk of a default occurring over the expected life of the financial instruments instead of the change in the amount of expected credit losses. To make the assessment, the Company compares the risk of a default occurring on the financial instrument as at the reporting date with the risk of a default occurring on the financial instrument as at the date of initial recognition and consider reasonable and supportable information, that is available without undue cost or effort, that is indicative of significant increase in credit risk since initial recognition.

For trade receivables or any contractual rights to receive cash or other financial assets that results from transactions that are within the scope of Ind AS 11 and Ind AS 18, the Company always measures the loss allowance at an amount equal to life time expected credit losses.

Further, for the purposes of measuring lifetime expected credit loss allowance for trade receivables, the Company has used a practical expedient as permitted under Ind AS 109. This expected credit loss allowance is computed based on a provision matrix which takes into account historical credit loss experience and adjusted for forward-looking information.

The impairment requirements for the recognition and measurement of a loss allowance are equally applied to debt instruments at FVTOCI except that the loss allowance is recognised in other comprehensive income and is not reduced from the carrying amount in the Balance Sheet.

3.20.5 Derecognition of financial assets

The Company derecognises a financial asset when the contractual rights to the cash flows from the asset expire, or when it transfers the financial asset and substantially all the risks and rewards of ownership of the

asset to another party. If the Company neither transfers nor retains subsequently all the risks and rewards of ownership and continues to control the transferred asset, the Company recognises its retained interest in the asset and an associated liability for the amount it may have to pay. If the Company retains substantially all the risks and rewards of ownership of a transferred financial asset, the Company continues to recognise the financial asset and also recognises a collateralised borrowing for the proceeds received.

On derecognition of a financial asset in its entirety, the difference between the asset's carrying amount and the sum of the consideration received and receivable and the cumulative gain or loss that had been recognised in other comprehensive income and accumulated in equity is recognised in profit or loss if such gain or loss would have otherwise been recognised in profit or loss on disposal of that financial asset.

On derecognition of a financial asset other than its entirety (eg., when the Company retains an option to repurchase part of a transferred asset), the Company allocates the previous carried over amount of financial asset between the part it continues to recognise under continuing involvement, and the part it no longer recognises on the basis of the relative fair values of those parts on the date of the transfer.

The difference between the carrying amount allocated to the part that is no longer recognised and the sum of consideration received for the part no longer recognised and any cumulative gain or loss allocated to it that had been recognised in profit or loss on disposal of that financial asset. A cumulative gain or loss that had been recognised in other comprehensive income is allocated between the part that continues to be recognised and the part that is no longer recognised on the basis of the relative fair value of those parts.

3.20.6 Foreign exchange gain and loss

The fair value of financial assets denominated in foreign currency is determined in that foreign currency and translated at the spot rate at the end of each reporting period.

- For Foreign currency denominated financial asset measured at amortised cost and FVTPL, the exchange differences are recognised in profit or loss except for those which are designated hedging instruments in a hedging relationship.
- Changes in the carrying amount of investments in equity instruments at FVTOCI relating to changes in foreign currency rates are recognised in other comprehensive income.
- For the purposes of recognising foreign exchange gain and loss, FVTOCI debt instruments are treated as financial assets measured at amortised cost. Thus, the exchange differences on the amortised cost are recognised in profit or loss and other changes in the fair value of FVTOCI financial asset are recognised in other comprehensive income.

3.21 Financial liabilities and equity instruments

3.21.1 Classification as debt or equity

Debt and equity instruments issued by a Company are classified as either financial liabilities or as equity in accordance with the substance of the

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contractual arrangements and the definition of a financial liabilities and an equity instrument.

3.21.2 Equity instruments

An equity instrument is a contract that evidences a residual interest in the asset of an entity after deducting all of its liabilities. Equity instruments issued by a Company is recognised at the proceeds received, net of direct issue costs.

3.21.3 Financial liabilities

All financial liabilities are subsequently measured at amortised cost using the effective interest methods or at FVTPL.

However, financial liabilities that arise when a transfer of a financial asset does not qualify for derecognition or when the continuing involvement approach applies, financial guarantee contracts issued by the Company, and commitments issued by the Company to provide a loan at below-market interest rate are measured in accordance with the specific accounting policies set out below:

3.21.3.1 Financial liabilities at FVTPL

Financial liabilities are classified as at FVTPL when the financial liability is either contingent consideration recognised by the Company as an acquirer in a business combination to which Ind AS 103 applies or is held for trading or it is designated as at FVTPL.

A financial liability is classified as held for trading if:

- it has been incurred principally for the purpose of repurchasing it in the near term; or
- on initial recognition, it is part of a portfolio of identified financial instruments that the Company manages together and has a recent actual pattern of short-term profit-taking; or
- it is a derivative that is not designated and effective as a hedging instrument.

A financial liability other than a financial liability held for trading or contingent consideration recognised by the Company as an acquirer in a business combination to which Ind AS 103 applies, may be designated as at FVTPL upon initial recognition if:

- such designation eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise.
- the financial liability forms part of a group of financial asset or financial liabilities or both, which is managed and its performance is evaluated on a fair value basis, in accordance with the Company's documented risk management or investment strategy, and information about the grouping is provided internally on that basis; or
- it forms part of a contract containing one or more embedded derivatives, and Ind AS 109 permits the entire combined contracts to be designated as at FVTPL in accordance with Ind AS 109.

Financial liabilities at FVTPL are stated at fair value, with any gains or losses arising on remeasurement recognised in profit or loss. The net gain or loss recognised in profit or loss incorporates any interest paid

on the financial liability and is included in the 'Other income' line item.

However, for not-held for trading financial liabilities that are designated as at FVTPL, the amount of change in the fair value of the financial liability that is attributable to changes in the credit risk of the liability recognised in other comprehensive income, unless the recognition of the effects of changes in the liability's credit risk in other comprehensive income would create or enlarge an accounting mismatch in profit or loss, in which case these effect of changes in credit risk are recognised in profit or loss. Changes in fair value attributable to a financial liability's credit risk that are recognised in other comprehensive income are reflected immediately in retained earnings and are not subsequently reclassified to profit or loss.

Gain or loss on financial guarantee contract and loan commitments issued by the Company that are designated by the Company as at fair value through profit or loss are recognised in profit or loss. Fair value is determined in the manner described in Note: 34.

3.21.3.2 Financial liabilities subsequently measured at amortised cost

Financial liabilities are not held-for-trading and are not designated as at FVTPL are measured at amortised cost at the end of subsequent accounting periods. The carrying amounts of financial liabilities that are subsequently measured at amortised cost are determined based on the effective interest method. Interest expenses that is not capitalised as part of cost of an asset is included in the 'Finance cost' line item.

The effective interest method is a method of calculating the amortised cost of a financial liability and of allocating interest income over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments (including all fees and points paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts) through the expected life of the financial liability or, (where appropriate), a shorter period, to the net carrying amount on initial recognition.

3.21.3.3 Financial guarantee contracts

A financial guarantee contract is a contract that requires the issuer to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payments when due in accordance with the terms of a debt instrument.

Financial guarantee contracts issued by a Company are initially measured at their fair value and, if not designated as at FVTPL, are subsequently measured at a higher of:

- the amount of loss allowance determined in accordance with impairment requirement of Ind AS 109; and
- the amount initially recognised less, when appropriate, the cumulative amount of income recognised in accordance with the principles of Ind AS 18.

3.21.3.4 Foreign exchange gain and loss

For financial liabilities that are denominated in a foreign currency and are measured at amortised cost at the end of each reporting period, the

Notes forming part of the Standalone Financial Statements

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foreign exchange gain and loss are determined based on the amortised cost of the instruments and are recognised in 'Other income'.

The fair value of financial assets denominated in foreign currency is determined in that foreign currency and translated at the spot rate at the end of each reporting period. For financial liabilities that are measured at FVTPL, the foreign exchange component forms part of the fair value gain or loss and is recognised in profit or loss.

3.21.3.5 Derecognition of financial liabilities

The Company derecognises financial liabilities when, and only when, the Company's obligations are discharged, cancelled or have expired. An exchange between a lenders of debt instruments with substantially different terms is accounted for as an extinguishment of the original financial liability and the recognition of a new financial liability. Similarly, a substantial modification of the terms of an existing financial liability (whether or not attributable to the financial difficulty of the debtor) is accounted for as an extinguishment of the original financial liability and the recognition of a new financial liability. The difference between the carrying amount of the financial liability derecognised and the consideration paid and payable is recognised in profit or loss.

3.22 Segment reporting

The accounting policies adopted for Segment reporting are in line with the accounting policies of the Company with the following additional policies:

- Inter-segment revenue is accounted on the basis of transactions which are primarily determined based on market/fair value factors.
- Revenue and expenses have been identified to segments on the basis of their relationship to the operating activities of the Segment. Revenue and expenses, which relate to the enterprise as a whole and are not allocable to Segments on a reasonable basis have been included under "Un-allocated Corporate expenses".

3.23 Leases

Assets leased by the Company in its capacity as a lessee, where substantially all the risks and rewards of ownership vest in the Company are classified as finance leases. Such leases are capitalised at the inception of the lease at the lower of the fair value and the present value of the minimum lease payments and a liability is created for an equivalent amount. Each lease rental paid is allocated between the liability and the interest cost so as to obtain a constant periodic rate of interest on the outstanding liability for each year.

3.24 Earnings per share

Basic earnings per share is computed by dividing the profit/(loss) after tax by the weighted average number of equity shares outstanding during the year. Diluted earnings per share is computed by dividing the profit/(loss) after tax as adjusted for dividend, interest and other charges to expense or income relating to the dilutive potential equity shares, by the weighted average number of equity shares considered for deriving basic earnings per share and the weighted average number of equity shares which could have been issued on the conversion of all dilutive potential equity shares.

Potential equity shares are deemed to be dilutive only if their conversion to equity shares would decrease the net profit per share from continuing ordinary operations. Potential dilutive equity shares are deemed to be converted as at the beginning of the period, unless they have been issued at a later date. The dilutive potential equity shares are adjusted for the proceeds receivable had the shares been actually issued at fair value (i.e. average market value of the outstanding shares). Dilutive potential equity shares are determined independently for each period presented. The number of equity shares and potentially dilutive equity shares are adjusted for share splits/reverse share splits and bonus shares, as appropriate.

3.25 Research and development

All revenue expenditure related to research and development are charged to the respective heads on the Statement of Profit and Loss. Capital expenditure incurred on research and development is capitalised as fixed assets and depreciated in accordance with the depreciation policy of the Company.

3.26 Derivative financial instruments

Derivatives are initially recognised at fair value at the date the derivative contracts are entered into and are subsequently remeasured to their fair values at the end of each reporting period. The resulting gain or loss is recognised in profit or loss immediately unless the derivative is designated and effective as hedging instrument, in which event the timing of the recognition in profit or loss depends on the nature of the hedging relationship and the nature of the hedged item.

3.27 Hedge accounting

The Company designates certain hedging instruments, which includes derivatives and non-derivatives in respect of foreign currency risk, at either fair value hedges, cash flow hedges, or hedges of net investments in foreign operations. Hedges of foreign exchange risk on firm commitments are accounted for as cash flow hedges.

At the inception of the hedge relationship, the entity documents the relationship between the hedging instrument and the hedged item, along with its risk management objectives and its strategy for undertaking various hedge transactions. Furthermore, at the inception of the hedge and on an ongoing basis, the entity documents whether the hedging instrument is highly effective in offsetting changes in fair values or cash flows of the hedged item attributable to the hedged risk.

3.27.1 Fair value hedges

Changes in fair value of the designated portion of derivatives that qualify as fair value hedges are recognised in profit or loss immediately, together with any changes in the fair value of the hedging asset or liability that are attributable to the hedged risk. The change in the fair value of the designated portion of hedging instrument and the change in the hedged item attributable to the hedged risk are recognised in profit or loss in the line item relating to the hedged item.

Hedge accounting is discontinued when the hedging instruments expires or is sold, terminated, or exercised, or when it no longer qualify for hedge accounting. The fair value adjustment to the carrying amount

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of the hedged item arising from the hedged risk is amortised to profit or loss from that date.

3.27.2 Cash flow hedges

The effective portion of changes in the fair value of derivatives that are designated and qualify as cash flow hedges is recognised in other comprehensive income and accumulated under the heading of cash flow hedging reserve. The gain or loss relating to the ineffective portion is recognised immediately in profit or loss, and is included in the 'Other income' line item.

Amount previously recognised in other comprehensive income and accumulated in equity relating to (effective portion as described above) are reclassified to profit or loss in the periods when the hedged item affect profit or loss, in the same line as the recognised hedged item. However, when the hedged forecast transaction results in the recognition of non-financial asset or a non-financial liability, such gain or loss are transferred from equity (but not as a reclassification adjustment) and included in the initial measurement of the cost of the non-financial asset or non-financial liability.

In cases, where the designated hedging instruments are options and forward contracts, the Company has an option, for each designation, to designate on an instrument only the changes in intrinsic value of the option and spot element of forward contract respectively as hedges. In such cases the time value of the options is accounted based on the type of hedged item which those options hedge.

In case of transaction related hedged item in the above cases, the change in time value of the options is recognised in other comprehensive income to the extent it relates to the hedged item and accumulated in a separate component of equity i.e. Reserve for time value of options and forward elements of forward contract in hedging relationship. This separate component is removed and directly included in the initial cost or other carrying amount of the asset or the liability (i.e. not as a reclassification adjustment thus not affecting other comprehensive income) if the hedged item subsequently results in recognition of a non-financial asset or non-financial liability. In other cases, the amount accumulated is reclassified to profit or loss as a reclassification adjustment in the same period in which the hedged expected future cash flow affects profit or loss.

In case of time period related hedged item in the above cases, the change in time value of the options is recognised in other comprehensive income to the extent it relates to the hedged item and accumulated in a separate component of equity i.e. Reserve for time value of options and forward elements of forward contracts in hedging relationship. The time value of options at the date of designation of the options in the hedging relationship is amortised on a systematic and rational basis over the period during which the options intrinsic value could affect profit or loss. This is done as a reclassification adjustment and hence affects other comprehensive income.

In cases where only the spot element of the forward contracts is designated in a hedging relationship and the forward element of the forward contract is not designated, the Company makes the choice for each designation whether to recognise the changes in forward element of fair value of the forward contracts in profit or loss or to account for this element similar to the time value of option (as described above).

Hedge accounting is discontinued when the hedging instrument expires or is sold, terminated, or exercised, or when it no longer qualifies for hedge accounting. Any gain or loss recognised in other comprehensive income and accumulated in equity at that time remains in equity and is recognised when the forecasted transactions is ultimately recognised in profit or loss. When a forecasted transaction is no longer expected to occur, the gain or loss accumulated in equity is recognised immediately in profit or loss.

3.28 Insurance claims

Insurance claims are accounted for on the basis of claims admitted/expected to be admitted and to the extent that the amount recoverable can be measured reliably and it is reasonable to expect ultimate collection.

3.29 Operating cycle

Based on the nature of the products/activities of the Company and the normal time between acquisition of assets and their realisation in cash or cash equivalents, the Company has determined its operating cycle as 12 months for the purpose of classification of its assets and liabilities as current and non-current.

4. Property, plant and equipment

Particulars					As at 31.03.2018	As at 31.03.2017	
A. Carrying amounts							
Freehold land					37.86	37.86	
Buildings					1227.05	1194.74	
Plant and equipment					2924.59	2703.58	
Furniture and fittings					40.82	40.27	
Vehicles					13.14	6.48	
Vehicles under finance lease					12.50	21.08	
Total					4255.96	4004.01	
B. Capital work-in-progress:					169.63	514.09	
Cost	Freehold land	Buildings (a)	Plant and equipment	Furniture and fittings	Vehicles	Vehicles under finance lease	Total
Balance at March 31, 2016	37.86	1154.48	2959.00	50.89	8.82	26.04	4237.09
Additions - (b)	-	151.37	814.62	14.44	0.99	8.68	990.10
Disposals	-	(0.04)	(7.70)	(0.56)	(1.17)	(0.27)	(9.74)
Balance at March 31, 2017	37.86	1305.81	3765.92	64.77	8.64	34.45	5217.45
Additions - (b)	-	98.04	848.48	11.07	8.38	0.70	966.67
Disposals	-	(4.35)	(63.31)	(7.30)	(1.54)	(1.51)	(78.01)
Balance at March 31, 2018	37.86	1399.50	4551.09	68.54	15.48	33.64	6106.11
Accumulated depreciation and impairment	Freehold land	Buildings	Plant and equipment	Furniture and fittings	Vehicles	Vehicles under finance lease	Total
Balance at March 31, 2016	-	54.38	509.54	12.40	1.13	5.20	582.65
Depreciation expense	-	56.69	556.30	12.61	1.32	8.44	635.36
Eliminated on disposals	-	-	(3.50)	(0.51)	(0.29)	(0.27)	(4.57)
Balance at March 31, 2017	-	111.07	1062.34	24.50	2.16	13.37	1213.44
Depreciation expense	-	62.68	621.15	10.51	1.72	8.96	705.02
Eliminated on disposals	-	(1.30)	(56.99)	(7.29)	(1.54)	(1.19)	(68.31)
Balance at March 31, 2018	-	172.45	1626.50	27.72	2.34	21.14	1850.15
Carrying Amounts	Freehold land	Buildings	Plant and equipment	Furniture and fittings	Vehicles	Vehicles under finance lease	Total
Balance at March 31, 2016	37.86	1100.10	2449.46	38.49	7.69	20.84	3654.44
Additions	-	151.37	814.62	14.44	0.99	8.68	990.10
Depreciation expense	-	(56.69)	(556.30)	(12.61)	(1.32)	(8.44)	(635.36)
Disposals (net)	-	(0.04)	(4.20)	(0.05)	(0.88)	-	(5.17)
Balance at March 31, 2017	37.86	1194.74	2703.58	40.27	6.48	21.08	4004.01
Additions	-	98.04	848.48	11.07	8.38	0.70	966.67
Depreciation expense	-	(62.68)	(621.15)	(10.51)	(1.72)	(8.96)	(705.02)
Disposals (net)	-	(3.05)	(6.32)	(0.01)	-	(0.32)	(9.70)
Balance at March 31, 2018	37.86	1227.05	2924.59	40.82	13.14	12.50	4255.96

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
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Capital work in progress movement	Total
Balance at March 31, 2016	678.03
Addition during the year	826.16
Capitalised during the year	(990.10)
Balance at March 31, 2017	514.09
Addition during the year	622.21
Capitalised during the year	(966.67)
Balance at March 31, 2018	169.63

(a) Includes ₹602.20 million (Previous year: ₹595.62 million) being cost of building on leasehold land.

(b) Includes Research and Development capital expenditure of ₹26.54 million (Previous year: ₹11.45 million) - Refer Note: 40(b) on Research & Development expenditure.

(c) Assets pledged as security

Immovable properties of the Company carry pari-passu charge in favour of the consortium of bankers, as security for banking facilities availed.

The vehicles purchased through finance lease arrangement are hypothecated to the lessor.

(d) Capitalised borrowing cost

Borrowing costs capitalised on property, plant and equipment during the year - ₹ Nil (Previous year: ₹ Nil).

(e) Contractual obligations

Refer Note: 30B for disclosure of Contractual commitments for the acquisition of property, plant and equipment.

5. Intangible assets

Particulars	As at 31.03.2018	As at 31.03.2017
A. Carrying amounts		
Software	9.09	8.76
Technical know-how	39.36	68.14
Total	48.45	76.90
B. Intangible assets under development	0.29	0.33

Cost	Software	Technical know-how	Total
Balance at March 31, 2016	15.68	117.97	133.65
Additions - (a)	5.77	6.17	11.94
Balance at March 31, 2017	21.45	124.14	145.59
Additions - (a)	5.41	-	5.41
Balance at March 31, 2018	26.86	124.14	151.00

Accumulated amortisation and impairment	Software	Technical know-how	Total
Balance at March 31, 2016	7.39	27.30	34.69
Amortisation expense	5.30	28.70	34.00
Balance at March 31, 2017	12.69	56.00	68.69
Amortisation expense	5.08	28.78	33.86
Balance at March 31, 2018	17.77	84.78	102.55

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

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Carrying amounts	Software	Technical know-how	Total
Balance at March 31, 2016	8.29	90.67	98.96
Additions	5.77	6.17	11.94
Amortisation expense	(5.30)	(28.70)	(34.00)
Balance at March 31, 2017	8.76	68.14	76.90
Additions	5.41	-	5.41
Amortisation expense	(5.08)	(28.78)	(33.86)
Balance at March 31, 2018	9.09	39.36	48.45

(a) Includes Research and Development capital expenditure of ₹0.02 million (Previous year: ₹2.29 million) - Refer Note: 40(b) on Research & Development expenditure.

6. Investments - Non Current

Particulars	Quantity in numbers		Nominal value (g)	Notes	Value	
	As at 31.03.2018	As at 31.03.2017			As at 31.03.2018	As at 31.03.2017
Non Current investments:						
(A) Investment in associate - Equity Shares (fully paid) Quoted (Trade): Instruments at cost						
Wendt (India) Ltd.	797,352	797,352	10		10.36	10.36
				6A	10.36	10.36
(B) Investments in joint ventures - Equity Shares (fully paid) Unquoted (Trade): Instruments at cost						
Murugappa Morgan Thermal Ceramics Ltd.	1,430,793	1,430,793	10		44.04	44.04
Ciria India Ltd.	59,998	59,998	10		1.68	1.68
				6B	45.72	45.72
(C) Investments in subsidiaries - Equity Shares (fully paid) Unquoted (Trade): Instruments at cost						
CUMI International Ltd., Cyprus	25,737,406	25,737,406	USD 1		2195.80	2195.80
Sterling Abrasives Ltd.	54,000	54,000	100		37.10	37.10
Southern Energy Development Corporation Ltd.	389,908	389,908	10		54.66	54.66
Net Access India Ltd. - (a)	5,000,000	5,000,000	10		50.00	50.00
CUMI (Australia) Pty Ltd., Australia	1,050	1,050	AUD 1		14.79	14.79
				6C	2352.35	2352.35
(D) Other Investments						
Instruments at Fair Value Through Other Comprehensive Income [FVTOCI]						
Investments in equity instruments - Equity Shares (fully paid) Quoted (Trade)						
Coromandel Engineering Co. Ltd.	3,042,900	3,042,900	10		144.85	118.22
Unquoted (Non - Trade)						
Murugappa Management Services Ltd.	44,704	44,704	100		11.30	11.30
				6D(i)	156.15	129.52

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
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Particulars	Quantity in numbers		Nominal value (g)	Notes	Value	
	As at 31.03.2018	As at 31.03.2017			As at 31.03.2018	As at 31.03.2017
Instruments at Fair Value Through Profit or Loss [FVTPL]						
Quoted (Non-Trade) Investments in equity instruments - Equity Shares (fully paid)						
Grindwell Norton Ltd. - (b)	800	800	5		0.40	0.28
Orient Abrasives Ltd.	10,000	10,000	1		0.35	0.35
Orient Refractories Ltd.	10,000	10,000	1		1.59	1.29
EID Parry (India) Ltd.	1,000	1,000	1		0.28	0.28
Cholamandalam Investment and Finance Co Ltd.	100	100	10		0.15	0.10
TI Financial Holdings Ltd. (c)	1,000	1,000	1		0.65	0.63
Tube Investments of India Ltd. (c)	1,000	-	1		0.22	-
Coromandel International Ltd.	330	330	1		0.17	0.10
				6D(ii)	3.81	3.03
Unquoted (Non-Trade) Investments in equity instruments - Equity Shares (fully paid)						
Chennai Willingdon Corporate Foundation(₹50 only) - (d)	5	5	10		0.00	0.00
John Oakey Mohan Ltd.	1,900	1,900	10		0.05	0.05
CUMI Employees Co-operative Society/Stores	-	-	-		0.03	0.03
Kerala Enviro Infrastructure Ltd.	10,000	10,000	10		0.10	0.10
Other Investment						
7 Years National Savings Certificate of ₹2,000/- deposited with the Government	-	-	-		0.00	0.00
				6D(iii)	0.18	0.18
				6D	160.14	132.73
Investment - Non Current Grant Total [6A] + [6B] + [6C] + [6D]					2568.57	2541.16

Particulars	Value	
	As at 31.03.2018	As at 31.03.2017
Other Investment - Current		
Instruments at Fair Value Through Profit or Loss [FVTPL] - Mutual Fund	6E	544.79
		-

- (a) During previous year, the Company invested in 3,400,000 equity shares of ₹10 each at par in Net Access India Ltd.
- (b) During previous year, Grindwell Norton Ltd. issued bonus shares in the ratio of 1:1.
- (c) During the current year, TI Financial Holdings Ltd. under a scheme of arrangement demerged into TI Financial Holdings Ltd. and Tube Investments of India Ltd. Consequently, the face value of equity share of TI Financial Holding Ltd. was changed from ₹2 per share to ₹1 per share.
- (d) Shares allotted against corporate membership contribution.

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(e) Particulars	As at	
	31.03.2018	31.03.2017
Aggregate book value of quoted investments	703.81	131.61
Aggregate market value of quoted investments	2640.18	1633.23
Aggregate carrying value of unquoted investments	2409.55	2409.55

(f) Categorywise other investment as per Ind AS 109	As at	
	31.03.2018	31.03.2017
Mandatorily measured at FVTPL - 6D(ii)+6D(iii)+ 6E	548.78	3.21
Financial assets designated at FVTOCI (equity instruments) - 6D(i)	156.15	129.52
Investments at cost (includes investment in associate, joint ventures and subsidiaries) - 6A+6B+6C	2408.43	2408.43
	3113.36	2541.16

(g) Nominal value per share is given in Indian Rupees or in respective foreign currency where stated.

7. Other financial assets.

Particulars	As at	
	31.03.2018	31.03.2017
A. Non-current		
Security deposits	109.54	99.87
	109.54	99.87
B. Current		
Advances to employees	9.05	9.85
Other receivables:		
Considered good	37.90	33.75
Considered doubtful	1.11	0.92
Less: Allowance for doubtful receivables	(1.11)	(0.92)
	46.95	43.60

8. Other assets

Particulars	As at	
	31.03.2018	31.03.2017
A. Non-current		
Capital advances	26.67	92.91
Prepayments	77.54	78.41
Deposits paid under protest relating to Sales tax, Value Added Tax, Central excise and Service tax demands	16.38	19.49
Taxation (net of provisions)	43.65	38.32
	164.24	229.13
B. Current		
Prepayments	31.73	27.87
Recoverable from Electricity Board - Banked power	-	74.61
Trade advance to Suppliers	195.75	204.07
Balances with/amount receivable from Statutory Authorities:	142.85	247.70
	370.33	554.25

9. Inventories

Particulars	As at	
	31.03.2018	31.03.2017
Raw materials	1049.94	675.81
Raw materials in transit	123.86	68.94
Work-in-progress	620.17	601.45
Stock-in-trade	122.05	161.70
Stock-in-trade in transit	25.51	-
Finished goods	441.63	583.97
Stores and spares	220.82	175.85
	2603.98	2267.72

- The method of valuation of inventories are stated in Note: 3.16.
- The cost of inventories recognised as an expense (consumption) during the year was ₹7,606.90 million (previous year: ₹6581.26 million) and such expenses includes ₹15.89 million towards reversal of write-down of inventory to net realisable value (the corresponding reversal for previous year was ₹7.22 million). The write-down of inventory to net realisable value made in earlier years were reversed in current year as a result of increased realisation in certain market/segments
- All the above inventories are expected to be recovered/ utilised within twelve months.

10. Trade receivables (Unsecured)

Particulars	As at	
	31.03.2018	31.03.2017
Current		
Considered good	3267.44	2562.84
Doubtful	70.96	50.35
Allowance for doubtful receivables (expected credit loss allowance)	(70.96)	(50.35)
	3267.44	2562.84

- Trade receivables are generally due between 30 to 60 days. The Company's term includes charging of interest for delayed payment beyond agreed credit days. However, the Company charges interest after considering the historical trend, business prospects, reason for delay, market conditions etc.
- Credit risk** is managed at the operational segment level. The credit limit and credit period are fixed for each customer after evaluating the financial position, past performance, business opportunities, credit references etc. The credit limit and the credit period are reviewed regularly at periodical intervals.
- Concentration risk** considers significant exposures relating to industry, counterparty, geography, currency etc. The concentration of credit risk is not significant as the customer base is large and diversified.
- The Company has used a practical expedient by computing the expected credit loss allowance for trade receivables based on provision matrix which takes into account the historical credit loss experience adjusted for forward looking information.
- Some trade receivable may be past due over 365 days without being impaired considering the certainty of realisation.
- Movement in expected credit loss allowance:

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	50.35	72.36
Add: Allowance made during the year	30.32	17.69
Less: Reversal of allowance during the year	(9.71)	(39.70)
Balance at the end of the year	70.96	50.35

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
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11A. Cash and cash equivalents

Particulars	As at	
	31.03.2018	31.03.2017
Balances with banks	191.50	63.13
Deposit account	3.23	3.03
Cash on hand	0.94	0.89
	195.67	67.05

Non-cash transactions:

During the year, the Company has not entered into any non-cash transactions on investing and financing activities.

11B. Bank balances other than above

Particulars	As at	
	31.03.2018	31.03.2017
Earmarked funds - Unclaimed and unpaid dividend - Refer Note: 18	12.76	12.21

12. Equity Share Capital

Particulars	As at	
	31.03.2018	31.03.2017
Authorised share capital:		
387,250,000 (as at March 31, 2017: 387,250,000) equity shares of ₹1 each	387.25	387.25
Issued, Subscribed and Paid-up		
188,955,751 (as at March 31, 2017: 188,658,090) equity shares of ₹1 each fully paid	188.96	188.66

a) Reconciliation of the shares outstanding at the beginning and at the end of the reporting period

Particulars	As at 31.03.2018		As at 31.03.2017	
	No. of Shares	Value of Shares	No. of Shares	Value of Shares
Equity shares with voting rights				
At the beginning of the year	188,658,090	188.66	188,379,560	188.38
Add: Shares issued against Employee Stock Option Scheme/Plan	297,661	0.30	278,530	0.28
At the end of the year	188,955,751	188.96	188,658,090	188.66

The Company has received share application money for 1500 shares under Employee Stock Option Scheme 2007, which is pending for allotment. This receipt is shown under "Other equity" - Refer Note no: 13C .

b) Terms / Rights attached to Equity Shares

The Company has only one class of Equity shares having a par value of ₹1/- per share. Each holder of equity shares is entitled to one vote per share. Repayment of capital will be in proportion to the number of equity shares held.

c) Dividend details

An interim dividend of ₹1/- per share was declared at the meeting of the Board of Directors held on February 14, 2018 and the same has been paid (previous year an interim dividend of ₹1/- per share was declared at the meeting of the Board of Directors held on February 04, 2017 and the same has been paid).

Final dividend of ₹1.25 per share is proposed for the year ended March 31, 2018 (previous year final dividend of ₹0.75 was proposed and paid). The dividend proposed by the Board of Directors is subject to the approval of the shareholders in the ensuing Annual General Meeting, upon which the liability will be recorded in the books.

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
(in Indian Rupees million, unless otherwise stated)

d) Details of shares held by shareholders holding more than 5% of the aggregate shares in the Company

Name of the Shareholder	As at			
	31.03.2018		31.03.2017	
	No. of Shares held	% of holding	No. of Shares held	% of holding
Ambadi Investments Ltd.*	56,054,244	29.67%	3,121,960	1.65%
Murugappa Holdings Ltd.**	-	-	55,432,284	29.38%
HDFC Trustee Company Ltd.*	16,873,797	8.93%	16,864,050	8.94%

* Holdings combined based on the PAN of the shareholders

** Merged with Ambadi Investments Ltd. (formerly known as Ambadi Investments Private Ltd.) w.e.f. 28th August 2017

e) Stock Options granted under the Company's Employee Stock Option Scheme/Plan

Stock Options granted under the Company's Employee Stock Option Scheme/Plan pending exercise by option holders carry no right to dividend and voting rights. Further details of the Employee Stock Option Scheme/Plan are provided in Note: 36.

13. Other equity

Particulars	As at	
	31.03.2018	31.03.2017
A. Reserves and Surplus		
a. Profit on Forfeiture of shares / warrants	6.03	6.03
b. Capital redemption reserve	27.68	27.68
c. Securities premium	226.19	194.15
d. General reserve	6675.43	6175.43
e. Share options outstanding account	30.84	16.08
f. Retained earnings	4433.18	3860.74
B. Items of Other Comprehensive Income		
g. Reserve for equity instruments	84.42	57.79
h. Revaluation Surplus	23.74	23.74
C. Share application money pending allotment		
i. Share application money pending allotment	0.23	-
Total Other equity	11507.74	10361.64

a. Profit on Forfeiture of shares/warrants

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	6.03	6.03
Movements	-	-
Balance at end of the year	6.03	6.03

During 1999, an amount of ₹6.03 million has been added on account of forfeiture of shares. This balance can be used in paying up unissued shares as fully paid bonus shares to the shareholders of the Company.

b. Capital redemption reserve

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	27.68	27.68
Movements	-	-
Balance at end of the year	27.68	27.68

During the year 2000-01, the Company bought back 2,768,000 shares at the then face value of ₹10 each at the price of ₹115 per share from the shareholders, pursuant to the offer of buy back of shares. A sum equal to nominal value of shares so bought back was transferred to capital redemption reserve account as per Companies Act, 1956. This reserve can be used in paying up unissued shares as fully paid bonus shares to the shareholders of the Company.

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

c. Securities premium

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	194.15	166.61
Movements	32.04	27.54
Balance at end of the year	226.19	194.15

The Securities premium received during the year represents the premium received towards allotment of 297,661 shares. Cumulatively 2,247,751 equity shares were allotted during the period FY 2009-10 to FY 2017-18 under ESOP Scheme 2007 and ESOP Plan 2016(Refer Note: 36 towards details of the Scheme/Plan).

This balance will be utilised in accordance with the provisions of Section 52 of the Companies Act 2013 towards issuance of fully paid bonus shares, write-off of preliminary expenses, commission / discount expenses on issue of shares / debentures, premium payable on redemption of redeemable preference shares / debentures and buy back of its own shares / securities under Section 68 of the Companies Act.

d. General reserve

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	6175.43	5675.43
Transfer from retained earnings	500.00	500.00
Balance at end of the year	6675.43	6175.43

The general reserve is a free reserve, retained from Company's profits and can be utilized upon fulfilling certain conditions in accordance with the Companies Act.

e. Share options outstanding account

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	16.08	11.77
Movements	14.76	4.31
Balance at end of the year	30.84	16.08

Under Ind AS 102, fair value of the options granted is to be expensed out over the life of the vesting period as employee compensation costs reflecting period of receipt of service. Refer Note: 36 for details.

f. Retained earnings:

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	3860.74	3372.71
Add: Profits for the year	1434.79	1217.75
Add: Other Comprehensive Income arising from remeasurement of defined benefit obligation net of tax	3.32	(25.34)
Less: Transfer to General reserve	(500.00)	(500.00)
Less: Final dividend paid	(141.51)	-
Less: Dividend tax on Final dividend	(14.92)	-
Less: Interim dividend paid	(188.93)	(188.63)
Less: Dividend tax on interim dividend	(20.31)	(15.75)
Balance at end of the year	4,433.18	3860.74

The amount that can be distributed by the Company as dividend to its equity shareholders is determined based on the financial position and dividend policy of the Company and in compliance with the requirements of the Companies Act, 2013.

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

g. Reserve for equity instruments

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	57.79	111.95
Movements	26.63	(54.16)
Balance at end of the year	84.42	57.79

This reserve represents the cumulative gains and losses arising on the revaluation of equity instruments measured at fair value through other comprehensive income (Refer Note: 6D(ii)), which will be reclassified to retained earnings when those assets are disposed off.

h. Revaluation Surplus

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	23.74	23.74
Movements	-	-
Balance at end of the year	23.74	23.74

Land & Buildings added upto 31st August 1984 were revalued in 1984 based on the valuation done by an independent valuer. The value added on revaluation amounting to ₹58.41 million was credited to fixed asset revaluation reserve. The depreciation charged on the revalued portion was recouped every year from this reserve upto March 31, 2015 under previous GAAP.

i. Share application money pending allotment

Particulars	As at	
	31.03.2018	31.03.2017
Balance at the beginning of the year	-	-
Movements	0.23	-
Balance at end of the year	0.23	-

Share application money pending for allotment under ESOP scheme. This represents the amount to the extent not refundable.

14. Non - Current borrowings

Particulars			As at	
	Maturity date	Repayment terms	31.03.2018	31.03.2017
Secured				
Finance lease obligation (consisting of multiple contracts with varied maturities) - Refer (a)	Ranging from 2016 to 2022	Monthly instalments	18.09	25.98
Less: Current maturities of finance lease obligation (included in Note: 18)			7.31	8.04
Total Non - Current borrowings			10.78	17.94

- Secured by the assets (vehicles) leased under the finance lease arrangement. The obligation consists of fixed rate of debt with repayment periods of not exceeding 4 years (Refer Note: 42)
- As per amended provisions of Ind AS 7 Statement of Cash flows, the disclosure relating to "Changes in liabilities arising from financial activities" which is becoming effective from periods beginning 1 April, 2017 is given below:

Net debts reconciliation:	Note	As at	
		31.03.2018	31.03.2017
Cash and Cash equivalents	11A	195.67	67.05
Other investments (liquid)	6E	544.79	-
Non Current borrowings (including current maturities)	14	(18.09)	(25.98)
Net Cash/(Net debt)		722.37	41.07

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
(in Indian Rupees million, unless otherwise stated)

Particulars	Other assets		Liabilities from Financing activities	Total
	Cash and Cash equivalents	Other investments (liquid)	Non Current borrowings (including current maturities)	
Net Cash/(Net debt) as at 31 st March 2017	67.05	-	(25.98)	41.07
Changes from Financing Cash flows	128.62	544.79	7.89	681.30
Net Cash/(Net debt) as at 31 st March 2018	195.67	544.79	(18.09)	722.37

15. Provisions

Particulars	As at	
	31.03.2018	31.03.2017
A. Non Current		
Employee benefits - Compensated absences	56.95	43.84
B. Current		
Employee benefits - Compensated absences	39.10	39.46

The movement represents the provision created for the year arising out of the actuarial valuation after considering the actual settlements made during the year.

16. Deferred tax liabilities (net)

Particulars	As at	
	31.03.2018	31.03.2017
Deferred tax liabilities (net)	260.79	340.65

Deferred tax liabilities are the amounts of income taxes payable in future periods in respect of taxable temporary differences.

Deferred tax assets are the amounts of income taxes recoverable in future periods in respect of: (a) deductible temporary differences; (b) the carry forward of unused tax losses; and (c) the carry forward of unused tax credits.

Particulars	2017-18			
	Balance as at 31.03.2017	Recognised in Profit & loss	Recognised in Other Comprehensive Income	Balance as at 31.03.2018
Breakup of deferred tax liabilities (net):				
Allowance for doubtful receivables and advances	(17.74)	(7.44)	-	(25.18)
Voluntary retirement scheme payments	(0.43)	(0.21)	-	(0.64)
Expenses allowed on payment basis	(44.83)	(4.29)	-	(49.12)
Principal portion of finance lease rentals	(1.69)	(0.27)	-	(1.96)
Accelerated depreciation for tax purposes	405.34	(67.65)	-	337.69
	340.65	(79.86)	-	260.79

Particulars	2016-17			
	Balance as at 31.03.2016	Recognised in Profit & loss	Recognised in Other Comprehensive Income	Balance as at 31.03.2017
Breakup of deferred tax liabilities (net):				
Allowance for doubtful receivables and advances	(34.13)	16.39	-	(17.74)
Voluntary retirement scheme payments	(0.37)	(0.06)	-	(0.43)
Expenses allowed on payment basis	(39.90)	(4.93)	-	(44.83)
Principal portion of finance lease rentals	(1.02)	(0.67)	-	(1.69)
Accelerated depreciation for tax purposes	454.24	(48.90)	-	405.34
	378.82	(38.17)	-	340.65

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

17. Trade payables

Particulars	As at	
	31.03.2018	31.03.2017
Total outstandings due to micro and small enterprises - Refer Note: 32	15.46	16.62
Other Trade payables	1653.20	1322.74
	1668.66	1339.36

- Trade payables are non-interest bearing and are normally settled as per due dates generally ranging from 30 to 60 days.
- The Company has financial risk management policies in place to ensure that all payables are paid within the agreed credit terms.
- Dues to Micro and Small enterprises have been determined to the extent such parties have been identified on the basis of the information collected by the Management. This has been relied upon by the auditors.

18. Other financial liabilities

Particulars	As at	
	31.03.2018	31.03.2017
Secured		
Current Maturities of Finance lease obligation (Refer Note: 14)	7.31	8.04
Unsecured		
Unclaimed and Unpaid dividends (a)	12.76	12.21
Remuneration payable to directors	21.32	20.01
Deposits	41.75	34.43
Payable relating to Capital expenditure	57.38	79.86
Other payables	423.71	370.49
	564.23	525.04

- There is no amount which has fallen due as at Balance sheet date to be credited to Investor Education and Protection Fund. The unclaimed dividend portion is kept separately in earmarked bank accounts - Refer Note: 11B

19. Other current liabilities

Particulars	As at	
	31.03.2018	31.03.2017
Advance from Customers	36.16	33.17
Statutory liabilities	25.23	83.40
	61.39	116.57

20. Revenue from operations

Particulars	For the year	
	2017-18	2016-17
a. Gross Sales / Income from Operations		
Sale of products (including Excise duty of ₹260.49 million for the year 2017-18 and ₹1140.86 million for the year 2016-17) - Refer Note: 29 "Segment Disclosure" for breakup of sales	15656.70	14865.49
Sale of services / Income from Contracts	117.55	103.15
	15774.25	14968.64
b. Other operating income:		
Service income	69.28	65.33
Scrap Sales	57.08	66.39
Miscellaneous income		
- Export benefits	109.99	77.82
- Royalty income	4.06	3.74
- Others	8.16	15.85
	248.57	229.13
Total Revenue from operations (a + b)	16022.82	15197.77

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

Gross Sales/Income from operations reported above are exclusive of excise duty effective from July 01, 2017 due to implementation of Goods and Service Tax. The comparative figures excluding excise duty is summarised below:

Particulars	For the year	
	2017-18	2016-17
Gross Sales / Income from Operations (inclusive of excise duty)	15774.25	14968.64
Less: Excise duty on Sales	260.49	1140.86
Gross Sales / Income from Operations (exclusive of excise duty)	15513.76	13827.78

21. Other Income

Particulars	For the year	
	2017-18	2016-17
(a) Dividend Income		
Dividend Income from Non-Current Investments		
Dividend from Subsidiaries	157.35	111.26
Dividend from Joint ventures	101.54	172.39
Dividend from Associate	19.93	19.93
Dividend from Others	0.03	0.03
Dividend Income from Current Investments	6.49	17.64
	285.34	321.25
(b) Interest Income earned on financial assets that are not designated as fair value through profit or loss [FVTPL]		
from bank deposits (at amortised cost)	0.64	0.42
from other financial assets carried (at amortised cost)	4.35	4.98
	4.99	5.40
(c) Net gain/(loss) arising on financial assets mandatorily measured at fair value through profit or loss [FVTPL] - (Refer Note: 6D(ii) & 6D(iii))	0.78	0.75
(d) Other Non operating income		
Profit on sale of assets	4.48	0.64
Reversal of allowance for doubtful receivables and advances	10.41	9.65
Provision for expenses no longer required written back	2.94	3.73
Rental income	1.43	1.83
	19.26	15.85
Total Other Income (a + b + c + d)	310.37	343.25

22. Changes in inventories of finished goods, stock-in-trade and work in progress

Particulars	For the year	
	2017-18	2016-17
Opening stock		
Work-in-progress	601.45	631.70
Stock-in-trade	161.70	182.30
Finished goods	583.97	545.08
(A)	1347.12	1359.08
Less: Closing stock		
Work-in-progress	620.17	601.45
Stock-in-trade (including in transit)	147.56	161.70
Finished goods	441.63	583.97
(B)	1209.36	1347.12
Decretion / (Accretion) to stock (A) - (B)	137.76	11.96

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
(in Indian Rupees million, unless otherwise stated)

23. Employee benefits expense

Particulars	For the year	
	2017-18	2016-17
Salaries, wages and bonus	1279.90	1114.48
Contribution to provident and other funds	138.80	124.34
Voluntary retirement compensation	1.35	0.90
Share based payments to employees (ESOPs) - Refer Note: 36	14.76	4.31
Remuneration to Managing Director	22.43	19.99
Welfare expenses	284.72	268.69
	1741.96	1532.71
Remuneration to Managing Director includes:		
Salaries & Allowances	13.67	12.22
Incentive *	5.72	5.19
Contribution to provident and other funds	3.04	2.58
(excludes gratuity, compensated absences and share based payments since employee-wise valuation is not available)		
	22.43	19.99
Value of perquisites (included under appropriate heads of accounts)	0.03	0.03

* Incentive to Managing Director is provisional and subject to determination by the Nomination and Remuneration Committee.

24. Finance costs

Particulars	For the year	
	2017-18	2016-17
Interest costs		
- on Fixed loans	1.14	70.98
- on Others	7.86	9.78
Other borrowing costs	5.67	6.84
	14.67	87.60

25. Depreciation and amortisation expense

Particulars	For the year	
	2017-18	2016-17
Depreciation of property, plant and equipment - Refer Note: 4A	705.02	635.36
Amortisation of intangible assets - Refer Note: 5A	33.86	34.00
	738.88	669.36

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

26. Other expenses

Particulars	For the year	
	2017-18	2016-17
Consumption of stores and spares (a)	682.89	630.46
Power and fuel (b)	1623.69	1298.08
Rent	50.10	42.26
Excise duty on stock differential (c)	(62.86)	7.07
Rates and taxes	51.35	76.75
Insurance	19.84	19.54
Repairs to: (d)		
- Buildings	21.60	32.85
- Machinery	474.68	431.11
Directors' Sitting fees (refer Corporate Governance report)	1.94	1.56
Commission to Non-wholetime Directors (refer Corporate Governance report)	15.60	14.82
Auditors' remuneration (Refer Note: 39)	6.30	6.79
Travel and conveyance	168.89	166.34
Freight, delivery and shipping charges	442.79	395.00
Impairment loss on financial assets	-	55.96
Less: Provision adjusted	-	(55.96)
Allowance for doubtful receivables and advances	31.21	18.22
Selling commission	41.88	46.37
Advertisement and publicity	37.97	59.74
Printing, stationery and communication	44.18	48.16
Loss on exchange fluctuation (net)	1.60	29.33
Professional fees	68.09	74.06
Services outsourced	1009.26	914.06
Loss on sale of assets	7.65	3.76
Miscellaneous expenses	143.43	136.28
	4882.08	4452.61

(a) Includes consumption of packing materials amounting ₹372.59 million (previous year ₹313.93 million)

(b) Net of own power generation, which includes energy banked with Kerala State Electricity Board - ₹ NIL (Previous year ₹74.61 million)
- Refer Note: 8B

(c) Represents the excise duty differential on finished stocks; Consequent to implementation of Goods and Service tax, no excise duty is applicable on the closing stock of current year.

(d) Repairs includes consumption of stores and spares amounting to ₹280.83 million (Previous year: ₹246.38 million)

27. Income tax expense

Particulars	For the year	
	2017-18	2016-17
A. Income tax expense recognised in Profit and loss:		
a. Current tax		
In respect of the current year	697.00	527.50
	697.00	527.50
b. Deferred tax		
In respect of the current year	(80.17)	(38.17)
Adjustment to deferred tax attributable to changes in tax rates and laws	0.31	-
	(79.86)	(38.17)
Total Income tax expense recognised during the year (net)	617.14	489.33

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
(in Indian Rupees million, unless otherwise stated)

Income tax reconciliation

Particulars	For the year	
	2017-18	2016-17
Profit before tax	2051.93	1707.08
Income tax expense calculated at the applicable tax rate of 34.608% on Profit before tax	710.13	590.79
Tax expenses recognised during the year	617.14	489.33
Differential tax impact	(92.99)	(101.46)
Differential tax impact due to the following (tax benefit)/tax expenses		
Exempted Dividend income - Net of disallowance	(71.74)	(86.56)
Dividend Income from Overseas Subsidiaries - Taxable at special rates	(8.62)	(7.89)
Expenditure on Corporate Social Responsibility not eligible for tax deduction	4.46	4.40
Claim of weighted benefit relating to In-house Research & Development facilities	(16.33)	(17.76)
Movement in the fair valuation of the quoted Investment	(0.28)	(0.26)
Area based tax incentives	-	(7.12)
Donations not allowable	2.28	2.06
Depreciation and amortisation not allowable under Income tax provisions	(10.69)	6.83
Effect of changes in tax rate	0.31	-
Share based payments not eligible for tax deduction	5.36	1.49
Others	2.26	3.35
	(92.99)	(101.46)
B. Income tax expense recognised in Other Comprehensive Income:	-	-

28. Earnings per share

Particulars	For the year	
	2017-18	2016-17
Basic earnings per share (₹)	7.60	6.46
Diluted earnings per share (₹)	7.58	6.44
The calculation of Basic and Diluted Earnings per share is based on the following data:		
Profits for the year after tax	1434.79	1217.75
Weighted average number of equity shares outstanding during the year:		
- Basic	188,783,979	188,513,561
- Dilutive	189,356,441	189,030,648

The weighted average number of equity shares: for the purpose of diluted earnings per share reconciles with the basic earnings per share as given below:

Particulars	For the year	
	2017-18	2016-17
Weighted average number of equity shares used in the calculation of basic earnings per share	188,783,979	188,513,561
Shares deemed to be issued for no consideration in respect of:		
- Employee Stock Option Scheme/Plan	572,462	517,087
Weighted average number of equity shares used in the calculation of diluted earnings per share	189,356,441	189,030,648

29. Segment information

Carborundum Universal Limited provides solutions for following industrial manufacturing needs by developing, manufacturing and marketing products using the properties of materials known as electrominerals:

- Surface engineering (material removal, cutting, polishing) known as Abrasives. This segment comprise of Bonded, Coated, Processed cloth, Polymers, Power tools and Coolants.
- Technical ceramics and super refractory solutions to address wear protection, corrosion resistance, electrical resistance, heat protection and ballistic protection known as Ceramics.
- Electrominerals for surface engineering, refractories, energy and environment. It includes fused alumina, silicon carbide, zirconia, specialty minerals and captive power generation from hydel power plant.

The Business Group Management Committee headed by Managing director (CODM) consisting of Chief Financial Officer, Leaders of Strategic Business Units and Human resources have identified the above three reportable business segments. It reviews and monitors the operating results of the business segments for the purpose of making decisions about resource allocation and performance assessment using profit or loss and return on capital employed.

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
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₹ million

Particulars	Abrasives		Ceramics		Electrominerals		Eliminations		Total	
	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17
Sales										
External Sales - Gross	8628.49	8583.69	3911.32	3778.98	3116.89	2502.82	-	-	15656.70	14865.49
Income from Contracts	-	-	117.55	103.15	-	-	-	-	117.55	103.15
Inter segment sales	7.43	8.00	27.16	16.44	989.91	893.19	(1024.50)	(917.63)	-	-
Gross Sales / Income from Operations	8635.92	8591.69	4056.03	3898.57	4106.80	3396.01	(1024.50)	(917.63)	15774.25	14968.64
Results										
Segment result - EBITDA	1467.10	1281.52	801.80	766.69	551.75	376.78	-	-	2820.65	2424.99
Depreciation/amortisation	(240.37)	(232.99)	(256.79)	(257.87)	(227.24)	(163.81)	-	-	(724.40)	(654.67)
Profit on sale of Fixed Assets (Net)	(1.57)	(1.68)	(3.38)	(0.21)	0.68	(1.40)	-	-	(4.27)	(3.29)
Unallocated corporate expenses/ (Income)									(316.49)	(299.75)
Interest expense									(14.67)	(87.60)
Interest and dividend income									290.33	326.65
Fair valuation of Investment									0.78	0.75
Profit before tax	1225.16	1046.85	541.63	508.61	325.19	211.57	-	-	2051.93	1707.08
Income taxes									(617.14)	(489.33)
Net profit after taxes									1434.79	1217.75
Other information:										
Segment assets	4431.68	4096.20	3433.11	3255.51	3063.48	2974.53	-	-	10928.27	10326.24
Unallocated corporate assets									3430.33	2646.92
Total assets	4431.68	4096.20	3433.11	3255.51	3063.48	2974.53	-	-	14358.60	12973.16
Segment liabilities	1078.07	973.85	449.30	435.73	667.01	486.17	-	-	2194.38	1895.75
Unallocated corporate liabilities									467.52	527.11
Total liabilities	1078.07	973.85	449.30	435.73	667.01	486.17	-	-	2661.90	2422.86
Addition to Non - Current assets	234.11	207.92	193.81	240.35	128.06	312.20				
Depreciation & Amortization	240.37	232.99	256.79	257.87	227.24	163.81				
Impairment losses	19.70	7.31	7.88	8.77	3.63	2.14				

Sales between operating segments are carried out at arm's length basis and are eliminated at entity level consolidation.

The accounting policies of the reportable segments are the same as that of Company's accounting policies described in Note: 3.22; Segment profit represents the profit before tax earned by each segment without allocation of central administration costs and directors' salaries, other income, as well as finance costs. This is the measure reported to the chief operating decision maker for the purposes of resource allocation and assessment of segment performance.

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

Segment assets and liabilities:

For the purposes of monitoring segment performance and allocating resources between segments:

1. All assets other than investments, loans, current and deferred tax assets, unallocable current and non-current assets, are allocated to reportable segments.
2. All liabilities other than borrowings, current and deferred tax liabilities, and unallocable current and non-current liabilities, are allocated to reportable segments.

Geographical information:

The Company is domiciled in India. The amount of its revenue from external customers is broken down by location of the customers and information about its non-current assets other than financial instruments, deferred tax assets, post employment benefit asset and right arising from insurance contracts by location are detailed below:

Particulars	Sales from external customers		Non-current assets	
	For the year		As at	
	2017-18	2016-17	31.03.2018	31.03.2017
India	12200.72	11832.35	4638.57	4824.46
Rest of the world	3573.53	3136.29	-	-
	15774.25	14968.64	4638.57	4824.46

Information about major customers:

No single customer contributed 10% or more to the Company's revenue during the years 2017-18 and 2016-17.

Gross Sales/Income from operations reported above are exclusive of excise duty effective from July 01, 2017 due to implementation of Goods and Service Tax. The comparative figures excluding excise duty is summarised below:

Particulars	Abrasives		Ceramics		Electrominerals		Eliminations		Total	
	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17	2017-18	2016-17
Gross Sales/Income from Operations (inclusive of excise duty)	8635.92	8591.69	4056.03	3898.57	4106.80	3396.01	(1024.50)	(917.63)	15774.25	14968.64
Less: Excise duty on Sales	(165.59)	(725.91)	(42.70)	(210.40)	(52.20)	(204.55)	-	-	(260.49)	(1140.86)
Gross Sales/Income from Operations (exclusive of excise duty)	8470.33	7865.78	4013.33	3688.17	4054.60	3191.46	(1024.50)	(917.63)	15513.76	13827.78

30. Contingent Liabilities and commitments:

Particulars	As at 31.03.2018	As at 31.03.2017
A. Contingent Liabilities		
a. No provision is considered necessary for disputed income tax, sales tax, service tax, excise duty and customs duty demand which are under various stages of appeal proceedings as given below:		
i. Income Tax Act, 1961	223.53	196.52
ii. Central Sales Tax Act, 1956 & Local Sales Tax laws of various states	19.80	8.67
iii. Central Excise Act, 1944	12.20	4.83
iv. Service Tax	1.00	2.88
b. Outstanding guarantees given on behalf of subsidiaries	1726.64	1691.08
c. Outstanding letters of credit	217.63	88.01
d. Claims against the Company not acknowledged as debts		
i. Electricity tax	3.92	3.92
ii. Stamp duty	1.90	1.90
iii. Claim filed by ship liner towards damages	14.00	14.00
iv. Claim filed before Consumer Dispute Redressal Forum / Civil Court	0.61	1.61
v. Mining Royalty	-	42.80
vi. Additional Electricity Deposit Demand - Tamil Nadu Electricity Board	3.00	3.00
vii. Demand charges - TANGEDCO	1.39	1.39
viii. Contribution to District Mineral Foundation under Mines and Minerals (Development and Regulation), Act	22.76	22.76
	47.58	91.38

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
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Particulars	As at 31.03.2018	As at 31.03.2017
e. Employees demands pending before Labour Courts - quantum not ascertainable at present		
In respect of the above demands disputed by the Company, appeals filed are pending before respective appellate authorities. Outflows, if any, arising out of these claims would depend on the outcome of the decision of the appellate authorities and the Company's rights for future appeals. No reimbursements are expected.		
B. Commitments:		
Estimated amount of contracts remaining to be executed (net of advances):		
- Towards capital account	123.38	148.30

31. The following pre-commissioning expenses incurred during the year on various projects have been included in Fixed Assets/Capital Work in Progress:

Particulars	For the year	
	2017-18	2016-17
Account Head:		
Cost of materials consumed	3.23	4.94
Consumption of Stores and Spares	0.45	4.31
Salary, Wages and Bonus	7.43	9.43
Power and Fuel	16.77	12.51
Rent	0.24	-
Equipment Hire Charges	-	1.27
Travel and Conveyance	0.34	1.72
Freight, Delivery and Shipping charges	0.42	43.25
Rates and Taxes	1.05	0.66
Professional Fees	0.49	1.17
Miscellaneous Expenses	1.18	2.69
	31.60	81.95

32. Disclosures required under Section 22 of the Micro, Small and Medium Enterprises Development Act, 2006

Particulars	As at 31.03.2018	As at 31.03.2017
(i) Principal amount remaining unpaid to suppliers (Refer Note: 17) Dues to Micro and Small Enterprises have been determined to the extent such parties have been identified on the basis of information collected by the Management. This has been relied upon by the auditors. There were no overdue amounts / interest payable to Micro and small enterprises as per Micro, Small and Medium Enterprises Development Act, 2006 as at the Balance Sheet date or any time during the year.	15.46	16.62

33. Employee Benefits:

a. Defined contribution plans:

The Company operates defined contribution retirement benefit plans for all qualifying employees. The assets of the plans are held separately from those of the Company in funds under the control of trustees. When employees leave the plans prior to full vesting of the contributions, the contributions payable by the Company are reduced by the amount of forfeited contributions.

Particulars	For the year	
	2017-18	2016-17
Contribution to Provident fund and Other funds recognised in Profit and Loss for the year	113.44	102.09
Amounts outstanding as at the end of the respective year and paid subsequently	13.65	12.39

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

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b. Defined benefit plans:

The Company sponsors funded defined benefit plans for employees. Under the plans, the employees are entitled to post-retirement benefits by way of gratuity amounting to 57.69% of last drawn salary for each year of completed service until the retirement age of 58. The defined benefit plans are administered by separate funds, independent of the Company.

These plans typically expose the Company to actuarial risks such as: Investment, Interest rate, longevity and salary risk:

- i) **Investment risk:** The present value of the defined benefit obligation is calculated using a discount rate which is determined by reference to market yields at the end of the reporting period on government bonds.
- ii) **Interest risk:** A decrease in the bond interest rate will increase the plan liability; however, this will be partially offset by an increase in the return on the plan's debt investments.
- iii) **Longevity risk:** The present value of the defined benefit obligation is calculated by reference to the best estimate of the mortality of plan participants during their employment. An increase in the life expectancy of the plan participants will increase the plan's liability.
- iv) **Salary escalation risk:** The present value of the defined benefit plan liability is calculated by reference to the future salaries of plan participants. As such, an increase in the salary of the plan participants will increase the plan's liability.

The actuarial valuation of the plan assets and the present value of the defined benefit obligation were carried out as at March 31, 2018 by a certified actuary of the Institute of Actuaries of India. The present value of the defined benefit obligation, and the related current service cost and past service cost, were measured using the projected unit credit method.

No other post-retirement benefits are provided to the employees. In respect of the contribution made to provident funds, the employer guarantees the interest notified by the appropriate authority and to the extent of interest rate guaranteed, the liability is considered as defined benefit. For the financial year ended March 31, 2018, the interest yield is adequate to meet the guaranteed interest.

Assumptions:

The principal assumptions used for the purposes of the actuarial valuations are given below:

Particulars	As at 31.03.2018	As at 31.03.2017
Discount rate	8.00%	7.25%
Expected rate of return	8.00%	7.25%
Expected salary increment	5%	5%
Attrition rate	2%	2%
Mortality table used	Indian Assured Lives Mortality (2006-08) Ultimate	

A. Gratuity

The details of actuarial valuation in respect of Gratuity liability are given below:

Particulars	As at 31.03.2018	As at 31.03.2017
i. Projected benefit obligation as at beginning of the year	271.30	240.22
Service cost	23.44	21.45
Interest cost	18.71	18.53
Remeasurement (gain)/ loss:		
Actuarial (gain)/loss arising from experience adjustments	(2.48)	8.36
Benefits paid	(26.35)	(17.26)
Projected benefit obligation as at end of the year	284.62	271.30
ii. Fair value of plan assets as at beginning of the year	224.88	218.19
Expected return on plan assets	16.79	17.72
Contributions	22.30	23.20
Benefits paid	(26.35)	(17.25)
Remeasurement gain/ (loss):		
Actuarial Gain /(losses) on plan assets	0.84	(16.98)
Fair value of plan assets as at end of the year	238.46	224.88
iii. Amount recognised in the balance sheet:		
Projected benefit obligation as at end of the year	284.62	271.30
Fair value of the plan assets at the end of the year	238.46	224.88
(Liability) / Asset recognised in the Balance sheet - net	(46.16)	(46.42)

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Particulars	As at 31.03.2018	As at 31.03.2017
iv. Cost of the defined benefit plan for the year:		
Current service cost	23.44	21.45
Interest on obligation	18.71	18.53
Expected return on plan assets	(16.79)	(17.72)
Components of defined benefit cost recognised in the Statement of Profit and Loss	25.36	22.26
(included in Note: 23 Contribution to Provident and other funds)		
Remeasurement on the net defined benefit liability:		
Actuarial (gain)/loss arising from changes in demographic assumptions	(2.48)	8.36
Actuarial (gain)/loss arising from changes in financial assumptions	(0.84)	16.98
Components of defined benefit costs recognised in Other Comprehensive Income	(3.32)	25.34
Total cost of the defined benefit plan for the year	22.04	47.60
v Experience Adjustment	As at 31.03.2018	As at 31.03.2017
Present value of defined benefit obligation	284.62	271.30
Fair value of plan assets	238.46	224.88
Balance sheet (Liability)/ Asset	(46.16)	(46.42)
P & L (Income) / expenses	25.36	22.26
Experience adjustment on plan liabilities (gain) / loss	(2.48)	8.36
Experience adjustment on plan assets gain / (loss)	(0.84)	16.98

In the absence of the relevant information from the actuary, the above details do not include the composition of plan assets and expected return on each category of plan assets.

The actual return on plan assets was ₹16.79 million (for the year ended March 31, 2017: ₹17.72 million).

Sensitivity analysis in respect of the actuarial assumptions used in calculation of defined benefit obligation are given below:

Particulars	As at	
	31.03.2018	31.03.2017
Discount rate - 100 basis point higher	(265.76)	(252.49)
Discount rate - 100 basis point lower	305.99	292.73
Salary escalation rate - 100 basis point higher	304.31	291.25
Salary escalation rate - 100 basis point lower	(266.87)	(253.30)
Life expectancy rate - 100 basis point higher	289.21	274.56
Life expectancy rate - 100 basis point lower	(279.52)	(267.67)

In the above table, positive figures indicate increase in the liability and negative figures indicate decrease in the liability.

The weighted average duration of the benefit obligation as at March 31, 2018 is 15 years (as at March 31, 2017: 15 years).

The Company expects to make a contribution of ₹46.14 million (as at March 31, 2017: ₹ 46.42 million) to the defined benefit plans during the next financial year.

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B. Provident fund

The actuary has assessed the calculations of the Interest Rate Guarantees based on the guidance note issued by the Institute of Actuaries of India. The disclosures required under Ind AS 19 is as set out below:

Fund and plan asset position are as follows:

Particulars	As at	
	31.03.2018	31.03.2017
Plan asset at the end of the year	1027.54	940.82
Present value of benefit obligation at the end of the year	986.00	767.86
Surplus available	41.54	172.96
Asset recognised in the Balance Sheet	Not applicable since a separate trust is maintained	

The plan assets are primarily invested in Government securities.

Assumptions for present value of interest rate guarantee are as follows:

Particulars	As at	
	31.03.2018	31.03.2017
Discount rate	8.00%	7.25%
Remaining term to maturity of portfolio (years)	4.76 years	5.87 years
Expected guaranteed rate(%)	8.55%	8.65%
Attrition rate	2%	2%

34. Financial Instruments

(i) Capital management

For the purpose of the Company's capital management, capital includes issued equity capital, securities premium and all other equity reserves attributable to the equity holders of the Company. The primary objective of the Company's capital management is to maximise the shareholder value.

The Company's objective when managing capital are to:

- safeguard their ability to continue as a going concern, so that they can continue to provide return for shareholders and benefits for other stakeholders and
- Maintain an optimal capital structure to reduce the weighted average cost of capital.

In order to maintain or adjust the capital structure, the Company may adjust the amount of dividend paid to shareholders, return capital to shareholders, issue new shares, or sell non-core assets to reduce the debt.

Debt to Equity ratio

Particulars	As at	
	31.03.2018	31.03.2017
Debt	18.09	25.98
Equity	11696.70	10550.30
Debt to Equity ratio	0.15%	0.25%

Loan covenants:

No covenants are applicable as of March 31, 2018, since the loans outstanding were only under finance lease.

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

(ii) Categories of financial instruments

Particulars	As at	
	31.03.2018	31.03.2017
A. Financial assets		
Measured at fair value through Profit or Loss (FVTPL) - Mandatorily measured:		
- Equity and other investments	548.78	3.21
Measured at Amortised cost		
- Cash and bank balances	208.43	79.26
- Other financial assets	3423.93	2706.31
Measured at fair value through Other Comprehensive Income (FVTOCI)		
- Investments in equity instruments designated upon initial recognition	156.15	129.52
Measured at cost		
- Investments in Equity instruments in subsidiaries, joint ventures and associate	2408.43	2408.43
B. Financial liabilities		
Measured at amortised cost (including trade payable balances)	2243.67	1882.34

(iii) Financial risk management objectives

The Company's activities expose it to market risk, liquidity risk and credit risk. The table given below explains the sources of risk which the entity is exposed to and how the entity manages the risk.

Risk	Exposure arising from	Measurement	Management
a. Credit risk	Cash and cash equivalents, trade receivables, derivative financial instruments, financial assets measured at amortised cost	Ageing analysis Credit ratings Financial analysis	Diversification of Short term investments, review of credit limits and credit locks and secured mode of payment
b. Market risk:	Future commercial transactions	Cash flow forecasting	Foreign exchange forward contracts
i. Market risk - Foreign exchange	Recognised financial assets and liabilities not denominated in Indian rupee (INR)	Sensitivity analysis	
ii. Market risk - Interest rate	Long-term borrowings at variable rates	Sensitivity analysis	Market trends, Interest rate swaps
iii. Market risk - Price risk	Investment in securities	Sensitivity analysis	Portfolio diversification
c. Liquidity risk	Borrowings and other liabilities	Rolling cash flow forecasts	Availability of sanctioned credit lines and borrowing facilities

The Company's risk management is governed by its policies. The Company's treasury identifies, evaluates and hedges financial risks in close co-ordination with the Company's operating units. The risk management policy of the Company provides written principles for overall risk management covering areas such as foreign exchange risk, interest rate risk, credit risk, use of derivative financial instruments and non-derivative financial instruments and investment of excess liquidity.

a. Credit risk:

Credit risk is the risk that counterparty will not meet its obligations under a financial instrument or customer contract, leading to a financial loss. The Company is exposed to credit risk from its operating activities (primarily trade receivables) and from its financing activities, including deposits with banks and financial institutions, foreign exchange transactions and other financial instruments.

a. (i) Trade receivables

Customer credit risk is managed by each business unit under the guidance of the credit policy, procedures and control relating to customer credit risk management. Credit quality of a customer is assessed based on financial position, past performance, business/economic conditions, market reputation, expected business etc. Based on this evaluation, credit limit and credit terms are decided. Exposure on customer receivables are regularly monitored and managed through credit lock and release. For export customers, credit insurance is generally taken.

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The impairment is based on expected credit loss model considering the historical data and financial position of individual customer at each reporting period. The maximum exposure to credit risk at the reporting date is the carrying value of each class of financial assets disclosed in Note: 10. The Company does not hold any collateral as security.

The Company has low concentration of risk with respect to trade receivables, as its customers are widely spread and belong to diversified industries and operate in largely independent markets.

a. (ii) Financial Instruments and cash deposits

Credit risk from balances with banks and financial institutions is managed by the Company's treasury department in accordance with the Company's policy. Investments of surplus funds are made for short-term in liquid funds of rated mutual funds and deposits with banks. The Investment limits are set out per Mutual fund and the value of total fixed deposit in Banks to minimise the concentration risk. Investments are reviewed by the Board of Directors on a quarterly basis.

The Company has no exposure to credit risk relating to these cash deposits as at: March 31, 2018 and March 31, 2017. The Corporate guarantees given by the Company to bankers on behalf of its subsidiaries are duly approved by the Board of Directors and are reviewed on a quarterly basis. The total exposure to corporate guarantees is limited to figures reported in Note: 30A

b. Market risk

Market risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risk comprises of three types of risks: interest rate risk, currency risk and other price risk, such as equity price risk and commodity risk. Financial instruments affected by market risk include loans and borrowings, deposits, Investments (FVTOCI) and derivative financial instruments.

Market risk exposures are measured using sensitivity analysis. There has been no change in the measurement and management of the Company's exposure to market risks.

b. (i) Foreign currency risk management

Foreign currency risk is the risk that the fair value or future cash flows of an exposure will fluctuate because of changes in foreign exchange rates. Foreign exchange rate exposures are managed within policy parameters approved by Board of Directors. The Company manages its foreign currency risk by hedging transactions that are expected to occur within a maximum of 12 month period of forecasted receipts and payments. When a derivative is entered into for the purpose of hedging, the Company negotiates the terms of those derivatives to match with the terms of the hedged exposure. The Company hedges around 50% of the net material exposure by currency. Exposures relating to capital expenditure beyond a threshold are hedged as per Company policy at the time of commitment.

The carrying amounts of the Company's foreign currency denominated monetary assets and monetary liabilities based on gross exposure at the end of the reporting period is as under:

Currency	Liabilities as at		Assets as at	
	31.03.2018	31.03.2017	31.03.2018	31.03.2017
US Dollar (USD)	194.13	162.17	674.87	543.62
Euro (EUR)	194.06	23.79	300.16	126.12
Great British Pound (GBP)	0.07	0.61	1.34	5.04
Swedish Krona (SEK)	2.88	-	-	-

Foreign currency sensitivity analysis

The Company is mainly exposed to US Dollar. The following table provides the sensitivity impact to a 10% strengthening or weakening of Indian rupee exchange rate against foreign currencies. The sensitivity analysis is done on net exposures. A positive number below indicates an increase in profit or equity when the Rupee weakens against the foreign currency and when net exposure is an asset.

Currency impact in (₹ million) relating to the foreign currencies of:	As at 31.03.2018		As at 31.03.2017	
	Profit or loss	Equity	Profit or loss	Equity
US Dollar (USD)	48.07	48.07	38.15	38.15
EURO (EUR)	10.61	10.61	10.23	10.23
Great Britain Pound (GBP)	0.13	0.13	0.44	0.44
Swedish Krona (SEK)	(0.29)	(0.29)	-	-
Total	58.52	58.52	48.82	48.82

The Company's sensitivity impact to foreign currency has increased during the current year end mainly due to the increase in quantum of exposure.

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b (ii) Interest rate risk Management

Interest rate risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in market interest rates.

The Company has been availing the borrowings on a fixed and variable rate of interest. These borrowings are carried at amortised cost. The borrowings on a fixed rate of interest basis are not subject to the interest rate risk as defined in Ind AS 107, since neither the carrying amount nor future cash flows will fluctuate because of change in market interest rates. The borrowings on a variable rate of interest are subject to interest rate risk as defined in Ind AS 107. The Company at the end of March 2018, does not carry any loans with variable interest.

Classification of borrowings by nature of interest rate	As at	
	31.03.2018	31.03.2017
Borrowings at variable interest rate		
- Non - Current	-	-
- Current	-	-
Borrowings at fixed interest rate		
- Non - Current	10.78	17.94
- Current	7.31	8.04
Total Borrowings	18.09	25.98

Since there are no non-current borrowings on variable interest rate as on 31st March 2018 & 2017, interest rate exposure is Nil.

b (iii) Price risks

The Company is exposed to equity price risks arising from equity investments. Certain of the Company's equity investments are held for strategic rather than trading purposes. The Company also holds certain other equity investments for trading purposes.

Equity price sensitivity analysis

The accumulated fair value change recognised on equity investment which are held for strategic purpose and designated at Fair value through other comprehensive income as at 31st March 2018 is ₹84.42 million (31st March 2017: ₹57.79 million) - Refer Note no: 13. The sensitivity analysis below have been determined based on the exposure to equity price risks at the end of the reporting periods. If equity prices moves-up or decrease by 5%, the impact to other comprehensive income and equity is given below:

Movement of equity price	Impact to Other Comprehensive income / Equity	
	As at March 31, 2018	As at March 31, 2017
Increase by 5%	7.24	5.91
Decrease by 5%	(7.24)	(5.91)

The impact of change in equity price on non current investment recorded at Fair value through Profit and Loss and other investment designated as Fair value through Other comprehensive income is not significant.

c. Liquidity risk management

The Company's treasury under the guidance of Board of Directors have established an appropriate liquidity risk management framework. The Company manages liquidity risk through cash generation from business and have adequate banking facilities. The Company continuously forecasts and monitors actual cash flows and matches the maturity profiles of financial assets and liabilities.

Contractual maturities of financial liabilities

The table below provides details regarding the contractual maturities of financial liabilities including estimated interest payments as at 31st March 2018:

Particulars	Carrying amount	upto 1 year	1-3 years	3-5 years	More than 5 years	Total contracted cash flows
Non-current financial liabilities						
Finance lease liability *	10.78		8.39	3.18		11.57

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Particulars	Carrying amount	upto 1 year	1-3 years	3-5 years	More than 5 years	Total contracted cash flows
Current financial liabilities						
Trade payables	1668.66	1668.66				1668.66
Finance lease liability	7.31	10.45				10.45
Other financial liabilities	556.92	556.92				556.92

The table below provides details regarding the contractual maturities of financial liabilities including estimated interest payments as at 31st March 2017:

Particulars	Carrying amount	upto 1 year	1-3 years	3-5 years	More than 5 years	Total contracted cash flows
Non-current financial liabilities						
Finance lease liability *	17.94		17.33	5.42		22.75
Current financial liabilities						
Trade payables	1339.36	1339.36				1339.36
Finance lease liability	8.04	11.43				11.43
Other financial liabilities	517.00	517.00				517.00

*Amount included in the above maturity analysis assumes interest outflows based on the actual interest rates.

Contractual Maturities of Financial Assets

The table below provides details regarding the contractual maturities of financial assets including estimated interest receipts as at 31st March 2018:

Particulars	Carrying amount	upto 1 year	1-3 years	3-5 years	More than 5 years	Total contracted cash flows
Non-current financial assets						
Other financial assets	109.54		42.32		67.22	109.54
Current financial assets						
Trade receivables	3267.44	3267.44				3267.44
Advance to employees	9.05	9.05				9.05
Other financial assets	37.90	37.90				37.90

The table below provides details regarding the contractual maturities of financial assets including estimated interest receipts as at 31st March 2017:

Particulars	Carrying amount	upto 1 year	1-3 years	3-5 years	More than 5 years	Total contracted cash flows
Non-current financial assets						
Other financial assets	99.87				99.87	99.87
Current financial assets						
Trade receivables	2562.84	2562.84				2562.84
Advance to employees	9.85	9.85				9.85
Other financial assets	33.75	33.75				33.75

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The note below sets out details of additional undrawn facilities that the Company has at its disposal to further reduce liquidity risk.

Financing facilities

Particulars	As at	
	31.03.2018	31.03.2017
Unsecured cash credit and other borrowings facility:		
Amount used	-	-
Amount unused	845.00	845.00
	845.00	845.00
Secured cash credit and other borrowings facility:		
Amount used	-	-
Amount unused	1450.00	1500.00
	1450.00	1500.00
Total facilities		
Amount used	-	-
Amount unused	2295.00	2345.00
	2295.00	2345.00

Fair value measurements

This note provides information about how the Company determines fair value of various financial assets and financial liabilities.

Fair value of the Company's financial assets and financial liabilities that are measured at fair value on a recurring basis.

Some of the Company's financial assets and financial liabilities are measured at fair value at the end of the reporting period. The following table gives information about how the fair values of these financial assets and financial liabilities are determined (in particular, the valuation techniques and inputs used):

Financial assets/financial liabilities	Fair Value as at		Fair value hierarchy	Valuation techniques & key inputs used
	31.03.2018	31.03.2017		
Investments in quoted equity instruments at FVTOCI	144.85	118.22	Level 1	Quoted bid price in an active market (a)
Investments in quoted instruments at FVTPL	548.60	3.03	Level 1	Quoted bid price in an active market
Investments in unquoted instruments at FVTPL	0.18	0.18	Level 3	Fair valuation - (b)
Investments in unquoted instruments at OCI	11.30	11.30	Level 3	Fair valuation - (b)

There were no changes in the fair value hierarchy Levels in the above periods.

- a) These investments in equity instruments are not for trading. Instead, they are held for medium or long term strategic purpose. Upon the application of IND AS 109, the Company has chosen to designate these investments in equity instruments as at FVTOCI as the Directors believe that this provides a more meaningful presentation for medium or long term strategic investments, than reflecting changes in fair value immediately in profit or loss.
- b) These investments in equity are not significant in value and hence additional disclosures are not presented.

Fair value of financial assets and financial liabilities that are not measured at fair value (but fair value disclosures are required)

Particulars	Fair value hierarchy	As at 31.03.2018		As at 31.03.2017	
		Carrying amount	Fair value	Carrying amount	Fair value
Financial assets held at amortised cost:					
Non-current financial assets					
- Other financial assets - Security deposit	Level 3	109.54	105.61	99.87	86.15
Current financial assets					
- Trade receivables	Level 2	3267.44	3267.44	2562.84	2562.84
- Advances to employees	Level 3	9.05	9.05	9.85	9.85
- Other advances	Level 3	37.90	37.90	33.75	33.75
Financial liabilities held at amortised cost:					
Non-current financial liabilities					
- Finance lease and interest thereon	Level 2	10.78	10.78	17.94	17.94
Current financial liabilities					
- Trade payables	Level 2	1668.66	1668.66	1339.36	1339.36
- Finance lease and interest thereon	Level 2	7.31	7.31	8.04	8.04
- Other financial liabilities	Level 3	556.92	556.92	517.00	517.00

The fair values of the financial assets and financial liabilities included above have been determined in accordance with generally accepted pricing models based on a discounted cash flow analysis, with the most significant inputs being the discount rate that reflects the credit risk of counterparties.

35. Related Party Disclosures

List of Related Parties

Related party relationships are as identified by the management and relied upon by the auditors.

I) Parties where control exists - Subsidiaries

Direct Holding:

Net Access India Ltd.	[Net access]
Southern Energy Development Corporation Ltd.	[SEDCO]
Sterling Abrasives Ltd.	[Sterling]
CUMI (Australia) Pty Ltd.	[CAPL]
CUMI International Ltd.	[CIL]

Holding through Subsidiary:

Volzhsky Abrasives Works	[VAW]
Foskor Zirconia (Pty) Ltd.	[Foskor]
CUMI America Inc.	[CAI]
CUMI Middle East FZE	[CME]
CUMI Abrasives & Ceramics Company Ltd.	[CACCL]
Thukela Refractories Isithebe Pty Ltd.	[TRIL]
CUMI Europe s.r.o	[CE]

II) Other related parties with whom transactions have taken place during the year.

Joint Ventures

Murugappa Morgan Thermal Ceramics Ltd.	[MMTCL]
Ciria India Ltd.	[Ciria]

Associate and its subsidiaries

Wendt (India) Ltd.	[Wendt]
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Subsidiaries of Associate:

Wendt Grinding Technologies Ltd., Thailand	[WGTL]
Wendt (Middle East) FZE	[WME]

Key Management Personnel

Mr. K Srinivasan, Managing Director

Other Related parties

Ambadi Investments Ltd (Shareholder with significant influence)	[AIL]
Parry Enterprises India Ltd (Subsidiary of AIL)	[PEIL]
Parry Agro industries Ltd (Subsidiary of AIL)	[PAL]
Carborundum Universal Employees Provident fund	[CUEPF]
Retiral funds of Subsidiaries, Joint ventures, Associate and Other Related parties	

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

A. Transactions during FY 2017-18

Related Party	Income from Sales & Services	Royalty income	Dividend income	Purchase of goods	Purchase of power	Expenditure on other services	Rental Expenses	Managerial remuneration	Commission paid	Purchases of Fixed asset	Contribution to Provident Fund
Subsidiaries											
CAI	296.21	-	-	0.15	-	-	-	-	-	-	-
Net Access	1.46	-	20.00	-	-	26.44	-	-	-	-	-
Sterling	135.32	-	13.50	2.06	-	-	-	-	-	-	-
SEDCO	2.40	-	74.08	-	185.26	-	-	-	-	-	-
CAPL	348.83	4.05	49.77	-	-	-	-	-	-	-	-
CME	113.02	-	-	-	-	-	-	-	-	-	-
Foskor	10.58	-	-	29.72	-	-	-	-	-	-	-
CACCL	61.38	-	-	73.89	-	-	-	-	-	-	-
VAW	50.16	-	-	507.47	-	-	-	-	-	-	-
CUMI Europe	-	-	-	-	-	-	-	-	7.01	-	-
Total	1,019.36	4.05	157.35	613.29	185.26	26.44	-	-	7.01	-	-
Joint Ventures											
MMTCL	25.54	-	71.54	8.22	-	-	-	-	-	0.14	-
Giria	108.38	-	30.00	1.97	-	-	-	-	-	-	-
Total	133.92	-	101.54	10.19	-	-	-	-	-	0.14	-
Associate & its subsidiaries											
Wendt	28.61	-	19.93	20.36	-	0.91	1.73	-	-	2.28	-
WGTL	56.41	-	-	4.71	-	-	-	-	-	-	-
WME	2.05	-	-	-	-	-	-	-	-	-	-
Total	87.07	-	19.93	25.07	-	0.91	1.73	-	-	2.28	-
Other related parties											
PEIL	-	-	-	-	-	34.40	-	-	-	-	-
CUEPF	-	-	-	-	-	-	-	-	-	-	116.80
Total	-	-	-	-	-	34.40	-	-	-	-	116.80
KMP	-	-	-	-	-	-	-	22.46	-	-	-
Grand Total	1240.35	4.05	278.82	648.55	185.26	61.75	1.73	22.46	7.01	2.42	116.80

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
(in Indian Rupees million, unless otherwise stated)

B. Transactions during FY 2016-17

Related Party	Income from Sales & Services	Royalty income	Dividend income	Reimbursement of employee cost	Purchase of goods	Purchase of power	Expenditure on other services	Rental expense	Managerial remuneration	Commission paid	Purchases of Fixed asset	Investment made	Contribution to Provident Fund
Subsidiaries													
CAI	236.00	-	-	-	1.14	-	-	-	-	-	-	-	-
Net Access	1.46	-	28.25	-	-	-	21.53	-	-	-	-	34.00	-
Sterling	104.22	-	10.13	-	1.05	-	-	-	-	-	-	-	-
SEDCO	-	-	27.29	-	-	196.91	-	-	-	-	-	-	-
CAPL	276.86	3.74	45.59	-	-	-	-	-	-	-	-	-	-
CME	95.14	-	-	-	-	-	-	-	-	-	-	-	-
Foskor	6.55	-	-	-	6.21	-	-	-	-	-	14.49	-	-
CACCL	57.36	-	-	-	112.14	-	-	-	-	-	21.87	-	-
VAW	39.57	-	-	-	239.87	-	-	-	-	-	-	-	-
CUMI Europe	-	-	-	-	-	-	-	-	-	9.40	-	-	-
Total	817.16	3.74	111.26	-	360.41	196.91	21.53	-	-	9.40	36.36	34.00	-
Joint Ventures													
MMTCL	23.94	-	157.39	-	9.53	-	-	-	-	-	-	-	-
Ciria	148.74	-	15.00	-	-	-	-	-	-	-	-	-	-
Total	172.68	-	172.39	-	9.53	-	-	-	-	-	-	-	-
Associate & its subsidiaries													
Wendt	27.70	-	19.93	0.06	18.66	-	2.42	1.54	-	-	-	-	-
WGTL	51.70	-	-	-	-	-	-	-	-	-	-	-	-
WME	2.97	-	-	-	-	-	-	-	-	-	-	-	-
Total	82.37	-	19.93	0.06	18.66	-	2.42	1.54	-	-	-	-	-
Other related parties													
PEIL	-	-	-	-	-	-	39.68	-	-	-	-	-	-
CUEPF	-	-	-	-	-	-	-	-	-	-	-	-	106.26
Total	-	-	-	-	-	-	39.68	-	-	-	-	-	106.26
KMP	-	-	-	-	-	-	-	-	20.02	-	-	-	-
Grand Total	1072.21	3.74	303.58	0.06	388.60	196.91	63.63	1.54	20.02	9.40	36.36	34.00	106.26

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
(in Indian Rupees million, unless otherwise stated)

C. Outstandings

Related Party	As at 31.03.2018				As at 31.03.2017			
	Trade and other receivable	Deposit outstanding	Payables	Letter of comfort / Guaranteee outstanding*	Trade and other receivable	Deposit outstanding	Payables	Letter of comfort / Guaranteee outstanding*
Subsidiaries								
CAI	165.83	-	0.23	321.95	121.54	-	1.19	320.95
Net Access	0.29	-	3.91	-	0.14	-	0.48	-
Sterling	16.33	-	0.16	-	12.78	-	0.89	-
SEDCO	0.25	-	15.67	-	-	-	16.65	-
CAPL	20.06	-	-	-	36.60	-	-	-
CME	52.59	-	-	-	21.60	-	-	-
Foskor	-	-	-	273.00	-	-	-	241.94
CIL	-	-	-	1131.69	-	-	-	1128.19
CACCL	41.29	-	6.12	-	62.99	-	34.28	-
VAW	3.27	-	147.71	-	-	-	61.50	-
TRIL	-	-	-	-	-	-	-	-
CUMI Europe	-	-	-	-	-	-	0.81	-
Total	299.91	-	173.80	1726.64	255.65	-	115.80	1691.08
Joint Ventures								
MMTCL	17.23	-	0.38	-	0.04	-	1.68	-
Giria	32.12	-	0.22	-	8.90	-	-	-
Total	49.35	-	0.60	-	8.94	-	1.68	-
Associate & its subsidiaries								
Wendt	26.66	1.00	1.92	-	2.39	1.00	3.79	-
WGTL	9.21	-	1.17	-	3.46	-	-	-
WME	1.05	-	-	-	0.96	-	-	-
Total	36.92	1.00	3.09	-	6.81	1.00	3.79	-
Other related parties								
PEIL	-	-	1.61	-	-	-	1.19	-
CUEPF	-	-	9.88	-	-	-	9.09	-
Total	-	-	11.49	-	-	-	10.28	-
Grand Total	386.18	1.00	188.98	1726.64	271.40	1.00	131.55	1691.08

Transactions with related parties in the nature of sale of goods, rendering of services, purchase of goods, procurement of services are at arm's length price.

* Issued towards availment of banking facilities by the respective entities.

D. Compensation to Key Management Personnel

The remuneration to Key Management Personnel for the years is given below:

Particulars	Year ended	
	31.03.2018	31.03.2017
Short term benefits	19.39	17.41
Post employment benefits	3.04	2.58
Other benefits	0.03	0.03
	22.46	20.02

The Remuneration to Key Management Personnel is determined by the Nomination and Remuneration Committee having regard to the performance of individual and market trends.

36. Employee Stock Option Scheme/Plan [ESOP]

A. ESOP Scheme 2007

- Pursuant to the approval accorded by shareholders at their Annual General Meeting held on 27th July 2007, the Nomination and Remuneration Committee of the Company formulated 'Carborundum Universal Limited Employee Stock Option Scheme 2007' (ESOP Scheme 2007).
- Under the Scheme, options not exceeding 4,667,700 were reserved to be issued to the eligible employees, with each option conferring a right upon the employee to apply for one equity share. The options granted under the Scheme would vest as per the following schedule (except Grant V B):

20% on expiry of one year from the date of grant;

20% on expiry of two years from the date of grant;

30% on expiry of three years from the date of grant; and

30% on expiry of four years from the date of grant.

The options granted to the employees would be capable of being exercised within a period of three years from the date of the first vesting and six years from the date of the second, third and fourth vesting.

In respect of Grant V B, 40 per cent of the Options would vest on expiry of one year from the date of grant and 30 per cent each on expiry of 2 and 3 years from the date of grant. The options granted to the employees (Grant V B) can be exercised within a period of three years from the date of the vesting in respect of 50% of the first tranche and six years for the balance 50% of the first tranche and the subsequent tranches from the respective date of vesting.

- The exercise price of the option is equal to the latest available closing market price of the shares on the stock exchange where there is highest trading volume as on the date prior to the date of the Nomination and Remuneration Committee resolution approving the grant.
- The vesting of options is linked to continued association with the Company and the employee achieving performance rating parameters.

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

The details of the grants under the aforesaid scheme are as follows:

Grant	I	II	III	IV	VA	VB	VI	VII	VIII
Date of Grant	29.09.2007	28.01.2008	30.04.2008	24.07.2008	27.01.2011	27.01.2011	30.04.2011	05.08.2011	04.02.2012
Exercise Price [₹]	91.80	75.23	59.03	61.40	125.08	125.08	124.15	146.00	155.00
Vesting commences on	29.09.2008	28.01.2009	30.04.2009	24.07.2009	27.01.2012	27.01.2012	30.04.2012	05.08.2012	04.02.2013
(i) Options granted	2,671,400	60,000	24,800	139,600	653,200	334,400	73,600	420,000	151,600
(ii) Options outstanding as on 1.4.2017	188,616	-	-	3,876	322,828	161,940	-	190,080	77,787
(iii) Options granted during the year	-	-	-	-	-	-	-	-	-
(iv) Options cancelled during the year	-	-	-	-	-	-	-	-	-
(v) Total options vested during the year	-	-	-	-	-	-	-	-	-
(vi) Options exercised during the year	188,616	-	-	-	47,372	50,524	-	-	975
(vii) Options lapsed during the year	-	-	-	1,824	-	-	-	-	-
(viii) Options outstanding as on 31.03.2018	-	-	-	2,052	275,456	111,416	-	190,080	76,812
(viii) = (ii) + (iii) - (iv) - (vi) - (vii)									
The Options under Grant II and III are fully cancelled and hence there is no outstanding as of March 31, 2018.									
(ix) Options vested but not exercised as at 01.04.2017	188,616	-	-	3,876	322,828	161,940	-	190,080	77,787
(x) Options vested but not exercised as at 31.03.2018	-	-	-	2,052	275,456	111,416	-	190,080	76,812
(x) = (ix) + (v) - (vi) - (vii)									

- e. Contractual Life The ESOP Scheme 2007, was instituted with the approval of the shareholders on 27th July 2007 and the first grant was made on 29th September 2007.
- No further grants is proposed to be made under the ESOP Scheme 2007. However, options granted under the same which are pending to be exercised will continue to be administered by the Company.
- f. The fair value of options based on the valuation of the independent valuer as of the respective dates of grant / modification are given below:

Grant	Fair value as per Black Scholes options pricing formula [₹]	Incremental Fair Value due to the modification of Exercise Period	Exercise Price [₹]
I	33.56	6.09	91.80
II	27.76	-	75.23
III	22.78	-	59.03
IV	24.61	3.00	61.40
VA	49.59	10.20	125.08
VB	44.27	11.75	125.08
VI	45.80	10.09	124.15
VII	54.13	11.07	146.00
VIII	55.62	9.86	155.00

- g. Fair value has been calculated using the Black Scholes Options Pricing Formula and the significant assumptions in this regard are as follows: (weighted average basis)

	Grant			
	I & IV	II & III	VA & VB	VI, VII & VIII
Risk free Interest rate	7.38%	-	8.04%	8.35%
Expected Life (years)	2.5 to 7.0	-	2.5 to 7.0	2.5 to 7.0
Expected volatility	39.93	-	39.81	37.69
Expected dividend yield	2.32%	-	1.29%	1.60%

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

36B. ESOP Plan 2016

A Summary of Status of ESOPs Granted

The position of the existing scheme is summarized as under

Sl. No.	Particulars	ESOP 2016
I. Details of the ESOP Plan 2016		
1.	Date of Shareholder's Approval	9 th January 2017
2.	Total Number of Options approved	3,772,000
3.	Vesting Requirements	The vesting of options granted, is based on annual performance rating for each financial year and as per following schedule: Grant I & Grant II B:- 20 per cent each on expiry of 1 and 2 years from the date of grant and 30 per cent each on expiry of 3 and 4 years from the date of grant Grant IIA: 25 per cent on expiry of 1 year from the date of grant and 37.5 per cent each on expiry of 2 and 3 years from the date of grant.
4.	The Pricing Formula	The options carry a right to subscribe to equity shares at the latest available closing price on the stock exchange which reports the highest trading volume, prior to the date of grant of the options
5.	Maximum term of Options granted (years)	The Exercise period would commence from the date of vesting and will expire on completion of 5 (five) years from the date of respective vesting.
6.	Method of Settlement	Equity
7.	Source of shares	Primary
8.	Variation in terms of ESOP	No variations

II. Options Movement during the year ended 31st March 2018

Sl. No.	Particulars	No. of Options	Weighted average exercise Price	Grant I	Grant IIA	Grant IIB
	Exercise Price per Option (in ₹)			257.55	367.20	367.20
1	No. of Options Outstanding at the beginning of the year	914,900	257.55	914,900	-	-
2	Options Granted during the year	70,214	367.20	-	19,344	50,870
3	Options cancelled during the year	370,400	257.55	370,400	-	-
4	Options Forfeited / Surrendered during the year	-	-	-	-	-
5	Options Lapsed during the year	-	-	-	-	-
6	Options Exercised during the year	10,174	257.55	10,174	-	-
7	Total number of shares arising as a result of exercise of options	10,174	-	10,174	-	-
8	Money realised by exercise of options (₹ in million)	2.62	NA	2.62		
9	Number of Options outstanding at the end of the year	604,540	270.29	534,326	19,344	50,870
10	Number of Options exercisable at the end of the year	98,726	257.55	98,726		

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

III. Weighted Average remaining contractual life as on 31st March 2018

Range of Exercise Price	No. of Options outstanding	Weighted average contractual life (years)
0 to 200	Nil	NA
201 to 400	604,540	6.68

IV. Exercise price equals market price Weighted average Fair Value of Options granted during the year ended 31st March 2018 whose:

Exercise price equals market price	122.58
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V. The weighted average market price of options exercised during the year ended 31st March 2018

347.40

VI. Method and Assumptions used to estimate the fair value of options granted during the year ended 31st March 2018:

The fair value has been calculated using the Black Scholes Option Pricing model.

The Assumptions used in the model are as follows:

Variables	Weighted Average
1. Risk Free Interest Rate (%)	7.19
2. Expected Life(in years)	3.91
3. Expected Volatility (%)	29.21
4. Dividend Yield (%)	0.27
5. Exercise Price	367.2
6. Price of the underlying share in market at the time of the option grant (₹)	367.2

Assumptions:

Stock Price: Closing price on National Stock Exchange of India Ltd. as on the date prior to the date of the Nomination and Remuneration Committee approving the grant has been considered.

Volatility: The expected price volatility is based on the historic volatility, adjusted for any expected changes to future volatility due to public available information.

Risk-free rate of return: The risk-free interest rate being considered for the calculation is the interest rate applicable for a maturity equal to the expected life of the options based on the zero-coupon yield curve for Government Securities.

Exercise Price: Exercise Price of each specific grant has been considered.

Time to Maturity: Time to Maturity / Expected Life of options is the period for which the Company expects the options to be live.

Expected dividend yield: Expected dividend yield has been calculated based on dividend declared prior to date of grant.

VII. Effect of share-based payment transactions on the entity's Profit or Loss for the period:

Particulars	Amount
Employee Option plan expense	₹14.76 million

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018
(in Indian Rupees million, unless otherwise stated)

37. a. Value of Imports on CIF basis

Particulars	For the year	
	2017-18	2016-17
Raw materials	2759.17	2234.20
Components & Spare parts	77.87	86.72
Finished goods	522.42	548.20
Capital goods	140.61	425.49

37. b. Expenditure in foreign currency (on cash basis)

Particulars	For the year	
	2017-18	2016-17
Professional / Consultancy fees	11.18	31.12
Commission	12.75	17.05
Interest	-	0.37
Travel and other matters	43.19	42.59

38. Earnings in foreign exchange on account of

Particulars	For the year	
	2017-18	2016-17
Value of exports on FOB basis	3497.63	3070.64
Royalty	4.05	3.74
Dividend	49.77	45.59
Management fees	19.44	19.61

39. Auditors' Remuneration

Particulars	For the year	
	2017-18	2016-17
Statutory audit	3.20	3.20
Tax Audit	0.80	0.80
Other services	2.28	2.79
Out of pocket expenses	0.02	0.00
	6.30	6.79

40. Research and Development expenditure

Particulars	For the year	
	2017-18	2016-17
a) Revenue Expenditure (disclosed under the respective heads)		
Direct Material, Supplies and Consumables	36.64	33.56
Employee Benefit Expenses	55.80	44.12
Repair & Maintenance	3.04	3.40
Other Expenses	24.35	18.60
Depreciation	11.93	10.53
Total	131.76	110.21
b) Capital Expenditure		
Property, plant and equipment		
Buildings	2.30	2.49
Plant & Machinery	24.21	7.11
Furniture & Fixtures	0.03	1.85
	26.54	11.45
Intangibles	0.02	2.29
Total	26.56	13.74

41. Details on list of Investments in Subsidiaries, joint ventures and associate as per Ind AS 27

Particulars	Principal place of business and Incorporation	Proportion of ownership interest	
		31.03.2018	31.03.2017
A. Investment in Subsidiaries			
CUMI International Ltd., Cyprus	Cyprus	100%	100%
Sterling Abrasives Ltd.	India	60%	60%
Southern Energy Development Corporation Ltd.	India	84.76%	84.76%
Net Access India Ltd.	India	100%	100%
CUMI Australia Pty Ltd., Australia	Australia	51.22%	51.22%
B. Investment in Joint ventures			
Murugappa Morgan Thermal Ceramics Ltd.	India	49.00%	49.00%
Ciria India Ltd.	India	30%	30%
C. Investment in Associate			
Wendt (India) Ltd.	India	39.87%	39.87%

42. Leases

Particulars	As at	
	31.03.2018	31.03.2017
The Company has acquired vehicles under finance lease with respective asset as security:		
a. Original cost of Leased Assets	34.98	39.15
Cost as per Fixed Assets Schedule. - Refer Note: 4A	33.64	34.45
b. Net carrying amount - Refer Note: 4A	12.50	21.08
c. Reconciliation between total minimum lease payments and their present value:		
Total minimum lease payments	22.02	34.18
Less: Future liability on interest account	3.93	8.20
Present value of lease payments - Refer Note: 14	18.09	25.98
d. Yearwise future minimum lease rental payments:		

Particulars	Total Minimum Lease Payments as on 31.03.2018	Present value of Lease payments as on 31.03.2018	Total Minimum Lease Payments as on 31.03.2017	Present value of Lease payments as on 31.03.2017
(i) Not later than one year	10.45	7.31	11.43	8.04
(ii) Later than one year and not later than three years	8.39	7.81	17.33	13.27
(iii) Later than three years and not later then five years	3.18	2.97	5.42	4.67
(iv) Later than five years	-	-	-	-
Total	22.02	18.09	34.18	25.98

e. The Company has taken certain premises under operating leases cancellable at mutual option. Hence no disclosure in this regard is required.

Notes forming part of the Standalone Financial Statements for the year ended March 31, 2018

(in Indian Rupees million, unless otherwise stated)

43. Dividend Tax on the Interim Dividend has been paid after availing the credit amounting to ₹18.15 million (Previous year: ₹22.65 million) in respect of the tax paid on the dividends received from three domestic subsidiaries. Dividend tax payable on the proposed final dividend is eligible for set-off of dividend tax credit amounting to ₹13.22 million (Previous year - ₹14.05 million) in respect of dividend tax payable on dividends to be distributed by one domestic subsidiary and an overseas subsidiary based on provision under sub section (1A) of Section 115O of the Income tax Act.

44. Corporate Social Responsibility

During the year, the Company incurred an aggregate amount of ₹25.61 million (Previous year: ₹23.41 million) towards corporate social responsibility against the amount of ₹25.31 million (Previous year: ₹21.41 million) to be spent as per provision of Section 135 of the Companies Act, 2013 read with relevant schedule and rules made thereunder.

The details of the CSR spend is given below:	For the year	
	2017-18	2016-17
A. Expenditure incurred directly by the Company		
Skill Centre Development - Revenue expenditure	12.95	12.71
B. Expenditure incurred through Agencies		
AMM Foundation	12.66	10.70
	25.61	23.41

45. Disclosure relating to Specified Bank Notes (SBN)

Particulars	SBN	Other Denomination Notes	Total
Closing Cash in hand as on 08.11.2016	0.44	0.48	0.92
Add: Permitted Receipts	-	2.69	2.69
Deduct: Permitted Payments	-	2.50	2.50
Deduct: Amount deposited in Banks	0.44	-	0.44
Closing Cash in hand as on 30.12.2016	-	0.67	0.67

46. Events after the reporting period:

No significant event is to be reported between the closing date and that of the meeting of Board of directors.

47. Applicability of New/amendment on existing Indian Accounting Standards (Ind AS)

During the current year, the following new Ind AS /amendments to existing Ind AS were announced which are becoming effective from next financial year w.e.f. 1st April 2018:

Standards	Ind AS 115	Ind AS 21	Ind AS 12	Ind AS 40
Title of the new Ind AS/ Amendment to existing Ind AS	Revenue from contracts with customers	Effect of changes in Foreign exchange rate	Income taxes	Investment property
The nature of the impending change or changes in accounting policy	The standard replaces Ind AS 18 Revenue and Ind AS 11 Construction contracts and related appendices. A new five-step process must be applied before revenue can be recognised.	The amendment clarifies recognition of advances at the initial rate only. No subsequent reinstatement required.	The amendments clarify the accounting for deferred taxes where an asset is measured at fair value and that fair value is below the asset's tax base.	The amendments clarify that transfers to, or from, investment property can only be made if there has been a change in use that is supported by evidence.
The date by which application of the Ind AS is required	Effective from 1 st April 2018			
The date as at which it plans to apply the Ind AS initially	This will be implemented from the effective date 1 st April 2018 as applicable.			
Impact to the Company	No material impact foreseen	Already practised. Hence no incremental impact	No material impact foreseen	No investment property is held by the Company.

48. Approval of financial statements:

The financial statements were reviewed and recommended by the Audit Committee and has been approved by the Board of Directors at their meeting held on May 04, 2018.

Notes

Notes

Concept & Design :
HASTRA
hastra.hastra@gmail.com

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CARBORUNDUM UNIVERSAL LIMITED

CIN: L29224TN1954PLC000318

PARRY HOUSE, 43 MOORE STREET, CHENNAI- 600001

TEL: 91 44 30006161 FAX: 91 44 30006149

EMAIL: investorservices@cumi.murugappa.com WEB: www.cumi-murugappa.com