



KAY CEE ENERGY & INFRA LIMITED

(Formerly KAY CEE ENERGY & INFRA PRIVATE LIMITED)

REGD. OFFICE: 9 KRISHNA VIHAR, NEAR CHUNGI NAKA, NANTA ROAD, KUNHADI
KOTAL IN LADPURA, KOTA-324001 RAJASTHAN. CIN: U74900RJ2015PLC046976

Email: kaycee.energy.infra@gmail.com

(M): +91- 94141-88324

Email: info@kayceeenergy.in

Website: <https://kayceeenergy.com/>

Date: January 30, 2024

To,
Department of Corporate Services
Bombay Stock Exchange Limited
25th Floor, P. J. Tower,
Dalal Street,
Fort, Mumbai- 400 001.

Dear Sir/Madam,

Sub: Disclosure pursuant to Regulation 30 of The Securities and Exchange Board of India (LODR) Regulations, 2015.
REF: SCRIP CODE: KCEIL

In accordance with the Regulation 30 read with Schedule III of The Securities and Exchange Board of India (LODR) Regulations, 2015, we are pleased to inform the stakeholders that our company has been awarded a Contract by the Rajasthan Rajya Vidyut Prasaran Nigam LTD, for Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm., 132 kV XLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil works. The order value for aforementioned contract is INR 4,93,66,066.83/- (Rupees Four Crore Ninety-Three Lakh Sixty-Six Thousand Sixty-Six and Paise Eighty-Three only)

We view this as a testament to the dedication and expertise of our team, and we are excited about the prospect of collaborating with Rajasthan Rajya Vidyut Prasaran Nigam LTD on this objective. As a valued stakeholder, your support and engagement will play a pivotal role in ensuring the success of this endeavor.

Further, the detailed disclosure as required under Regulation 30 of the Listing Regulations read with SEBI Circular No. CIR/ CFD /CMD/4/2015 dated September 9, 2015 is enclosed as **Annexure-A**.

Thank you for your continued support and partnership. We look forward to embarking on this exciting journey together.

Thanking You,

For, KAY CEE ENERGY & INFRA LIMITED

LOKENDRA JAIN

Managing Director

DIN: 07071212

Enclosure: Annexure A.



KAY CEE ENERGY & INFRA LIMITED

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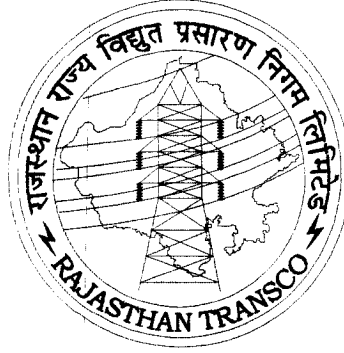
Website: <https://kayceeenergy.com/>

Annexure A

Disclosures as required under SEBI Circular No. CIR/ CFD /CMD/4/2015 dated September 9, 2015.

Name of the entity awarding the order(s)/contract(s)	Rajasthan Rajya Vidyut Prasaran Nigam LTD
Significant terms and conditions of order(s)/contract(s) awarded in brief	Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm., 132 kV XLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil works
Whether order(s) / contract(s) have been awarded by domestic/ international entity	Domestic entity.
Nature of order(s) / contract(s)	Work Contract for modification of electricity line.
Whether domestic or international	Domestic
Time period by which the order(s)/contract(s) is to be executed	9 months
Broad consideration or size of the order(s)/contract(s)	INR 4,93,66,066.83/- (Rupees Four Crore Ninety-Three Lakh Sixty-Six Thousand Sixty-Six and Paise Eighty-Three only)
Whether the promoter/ promoter group / group companies have any interest in the entity that awarded the order(s)/contract(s)? If yes, nature of interest and details thereof	No, the promoter/ promoter group / group companies are not interested in the entity that awarded the order.
Whether the order(s)/contract(s) would fall within related party transactions? If yes, whether the same is done at "arms length	No, the said order does not fall under the ambit of Related Party Transaction.

N RAJYA VIDYUT PRASARAN NIGAM LIMITED



CONTRACT

FOR

Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm. , 132kVXLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil works

AGAINST

SPECIFICATION NO.RVPN/EHV/A&SP/TN-115



PURCHASER'S ADDRESS:
The Superintending Engineer
(Automation, N/M & Special
Projects)
RVPN, VidyutBhawan,
Jyoti Nagar, Jaipur – 302005
Tel. No. 0141-2740752
E-mail: se.spl@rvpn.co.in

CONTRACTOR'S ADDRESS:
M/s Kay Cee Energy & Infra Ltd.
9, Krishna Vihar,
Near Chungi Naka,
Nanta Road, Kunhadi,
Kota – 324008
Email: Kaycee.energy.infra@gmail.com

RAJASTHAN RAJYAVIDYUTPRASARAN NIGAM LTD
[Corporate Identity Number CIN: U40109RJ2000SGC016485]
(AN ISO 9001:2015 CERTIFIED COMPANY)



Regd. Office: VidyutBhawan, Janpath, Jyoti Nagar, Jaipur 302005

OFFICE OF THE SUPERINTENDING ENGINEER (Automation, N/M & SP)

Room No.323, VidyutBhawan, Janpath, Jyoti Nagar, Jaipur (Tel.No. 2740752 / Fax
No. 2740794)

Email: se.spl@rvpn.co.in, website: www.http://emergy.rajasthan.gov.in/rvpnl

No. RVPN/SE (AUTOMATION)/A&SP/TN-115/Contract/P.O.144/D.143 Jaipur dated: 30-01-2024

SAP PO ID NO (Supply): 5700000310
SAP PO ID NO (Services):4600025128

From,
The Superintending Engineer,
(Automation, N/M & Special Projects)
Rajasthan Rajya Vidyut Prasaran Nigam Ltd.,
VidyutBhawan, Jyoti Nagar, Jaipur - 302005.

To,
M/s Kay Cee Energy & Infra Ltd.
9, Krishna Vihar,
Near Chungi Naka,
Nanta Road, Kunhadi,
Kota – 324008
Email: Kaycee.energy.infra@gmail.com

Sub: Letter of award for “Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm. , 132kVXLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil works”, against specification no. RVPN/ EHV/A&SP/TN-115.

Dear Sir,

1.0 REFERENCE:

This has reference to the following:

1.1 **PRE BID REFERENCES**

Our bid document No. RVPN/ EHV/ A&SP/TN-115 consisting of
VOLUME - I: CONDITIONS OF CONTRACT

- Part-I : Instructions to Bidders (ITB)
- Part-II : Bid Data Sheet (BDS)
- Part-III: General Terms & conditions of Contract (GCC)
- Part-IV: Special Conditions of Contract (SCC)
- Part -V: Erection Conditions of Contract (ECC)
- Part-VI: Bid Proposal Form, Schedules & Annexure

VOLUME - II: TECHNICAL SPECIFICATION

MOM of Pre-Bid Meeting held on 12.10.2023.

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POST BID REFERENCES:

- i. Your offer reference no. Kaycee/TN-115 dated 24.10.2023, submitted online on eproc.rajasthan.gov.in and Techno Commercial bid opened on date 01.12.2023 and price bid opened on date 14.12.2023.
- ii. This office Letter of Intent RajKaj No. 5229795 dated 22.12.2023.
- iii. Your Notification of Award acceptance letter dated 23.12.2023.

2.0 AWARD OF CONTRACT AND ITS SCOPE

- 2.1 We are pleased to accept your bid for the subject package as referred to Clause 1.2 above, read in conjunction with the specifications, terms & conditions of the bidding documents & its amendments (referred at Clause 1.1 above) and the post bid confirmations/ communications (referred at Clause 1.2 above) and award on you a Contract for "Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm. , 132 kV XLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil works", project require the contractor to provide quality & timely services with speed and certainty to Nigam. The broad scope of project covered under this Letter of Award, inter-alia, includes but not limited to following:

Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm. , 132 kV XLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil works

The list of equipment & materials to be supplied and Services to be rendered by you is enclosed at Appendix-IA (BOQB1)& Appendix-IB (BOQB2) enclosed.

- 2.2 The scope of work under this Letter of Award (LOA) shall also include all such items which are not specifically mentioned in the Bidding Documents and/or your bid but are necessary for the successful completion of your scope under the Contract for "Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm. , 132 kV XLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil works", as detailed in the Bidding Documents, unless otherwise specifically excluded in the Bidding Documents or in this LOA.

- 2.3 This LOA is subject to the terms and conditions detailed hereunder:

- i) The work under this LOA shall be performed by you strictly in line with the Bidding Documents and all its subsequent amendments, if any, except as specifically amended/modified in this LOA and mentioned herein below. All the deviations and/or additional conditions (other than those found acceptable by Nigam in bid evaluation process), implicit or explicit, contained in your bid referred to above and your subsequent communications, if any, shall stand withdrawn without any cost implication to Nigam, in so far as they are repugnant to what has been stated in this LOA and/or Bidding Documents and its subsequent amendments.

- ii) The award of contract shall not in any way dilute the responsibility of the contractor for the successful completion of the project as per

specification and a breach in any part of the contract shall confer a right on the Nigam to terminate the contract at the risk and the cost of the contactor.

3.0 CONTRACT PRICE

3.1 We agree to pay you Rs.4,93,66,066.83/- (Rs. Four Crore Ninety Three Lakh Sixty Six Thousand Sixty Six and Paise Eighty Three only).(including GST)as the Contract Price for the complete scope of work under this LOA, as per the following break up:

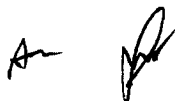
S. No.	PRICE COMPONENT	Amount in Rs.
i)	Supply Part	40879915.11
ii)	Services Part	8486151.72
iii)	Total Contract Price = (i)+ (ii)	4,93,66,066.83
	Rs.4,93,66,066.83/- (Rs. Four Crore Ninety Three Lakh Sixty Six Thousand Sixty Six and Paise Eighty Three only).	

Further break-up of the Contract Price for the purpose of on-account payment is given at Appendix-IA (BOQB1)& Appendix-IB (BOQB2).

- 3.2 Notwithstanding the break-up of the Contract Price, the Contract shall, at all times, be construed as a single source responsibility contract and any breach in any part of the Contract shall be treated as breach of entire Contract.
- 3.3 The total price for the items indicated at Appendix-IA and Appendix-IB to this LOA as lump-sum/lot/set basis shall remain constant irrespective of any increase or decrease in quantities of any existing items, addition of any new item or deletion of any existing item for completion of scope of work as per Technical Specifications, unless there is any change in the scope of work by Nigam, in line with Clause 42.2 of GCC, Vol.-I of the Bidding Documents. The break-up of prices for these Items, as indicated at Appendix-IA and Appendix-IB, is for on account payment purpose only.

In case, the actual requirement of quantity of such items is more than the quantities identified in the LOA/Contract Agreement/approved BOQ/Billing break-up or some additional items are required for the successful completion of the scope of work as per the Technical Specification, such additional items/ quantities shall be supplied without any additional cost to Nigam.

In case quantities of these Items supplied at site are in excess of that required for successful completion of scope of work as detailed in the Bidding Documents, such additional quantities shall be your property and you shall be allowed to take back the same from the site for which no deduction from the lumpsum price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ/billing breakup, the lumpsum price of these Installation Items shall remain unchanged and no deduction shall be made from the lumpsum price due to such reduction of quantities. It shall, however, be your responsibility to pay all statutory taxes, duties and levies to the concerned authorities for such surplus material, which would otherwise have been lawfully payable. You shall submit an indemnity bond to keep Nigam harmless from any such liability, before release of such material to you by Nigam.









4.0 TAXES & DUTIES

Taxes & Duties under the subject Contract shall be governed by the provisions of Clause 11.0, General Conditions of Contract, Volume-I of the Bidding Documents and as per the following:

- 4.1 The Contract price indicated above consist of Supply of Material/Items on FOR Destination basis inclusive of all taxes and duties, F&I as indicated in Appendix-IA and Services to be rendered inclusive of all taxes and duties as indicated in Appendix- IB.

4.2 Goods and Service Tax (GST):

The Goods and Service Tax is included in the contract price indicated above. GST is considered @18% on all equipment/ material and services as indicated in Appendix-IA and Appendix-IB.

You shall submit the GST invoice signed by authorized signatory as per GST law for payment/ reimbursement of GST. GST shall be paid up to the extent of quoted percentage defined above.

Any tax declaration form/ statutory information as required under GST law for above transactions shall be issued by Nigam.

- 4.3 Statutory Variation: The statutory variation on GST shall be applicable for all the equipment's/ items and services defined in Appendix-IA & Appendix-IB. Any statutory variation in the GST during contractual period shall only be on the Nigam's account. After the contractual delivery/ completion period, if the GST is reduced the benefit shall be on account of Nigam; however on any increase in GST it shall be on the contractor's account.
- 4.4 You shall be responsible for any other taxes and duties not covered under the GST but applicable on Work contracts for supply and services to be performed in India, as applicable and Nigam would not bear any liability on this account. Nigam shall, however, deduct such taxes at source for supply and services and issue Tax Deduction at Source (TDS) Certificate to the Contractor, if applicable.
- 4.5 Nigam shall be entitled to deduct tax at source in accordance with the provisions of Tax Laws as applicable from time to time. In such case, necessary TDS certificate shall be issued by Nigam.
- 4.6 You shall be solely responsible for payment of all taxes, duties, license fees etc., if any, for all the equipment/ material and services covered under this Contract to the concerned authorities as applicable from time to time.
- 4.7 You shall be required to carry out registration of workers under the building & other construction workers (Regulation of Employment & Conditions of Service) Act, 1996 and extension of benefit to such workers under the Act. Deductions of cess at source will be made as per provisions of the said Act, in force from time to time.

5.0 PRICE ADJUSTMENT

5.1 Price Adjustment on Ex-Works price/Unit Rate:

- 5.1.1 Price adjustment on Ex-Works price/Unit Rateshall be applicable for supply and erection including civil works as per relevant price variation formula wherever applicable as per GCC clause no. 12 and SCC clause no. 9 and **Appendix-II.**

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For Supply Items:

5.1.2 For the purpose of price adjustment, the date of dispatch means the date on which the material is notified as being ready for inspection (date of receipt of inspection call by Nigam), scheduled date of dispatch or actual date of dispatch or actual date of erection (If applicable and falling after contractual completion period), whichever is beneficial to the Nigam. Scheduled date of dispatch will be Ex-work date of dispatch, governed by the accepted Bar Chart/PERT Network for supplies wherein supply schedule for main equipment/ Items, cables, structures etc. will be indicated. Further, no price increase shall be allowed beyond the original delivery dates unless specifically stated in the Time Extension Letter, if any, issued by the Owner. The Owner will, however, be entitled to any decrease in the Contract Price which may be caused due to lower price adjustment amount in case of delivery of Goods beyond the original delivery dates. Therefore, in case of delivery of Goods beyond the original delivery dates, the liability of the Owner shall be limited to the lower of the price adjustment amount which may work out either on date on which the material is notified as being ready for inspection (date of receipt of inspection call by Nigam) or schedule date or actual date of dispatch of Goods or actual date of erection (If applicable and falling after contractual completion period).

For Erection (including Civil Works):

5.1.3 For the purpose of price adjustment, the billing period shall mean the billing period as per Contract time schedule i.e., the agreed Bar Chart or actual period, whichever is beneficial to the Nigam. The Billing period for various erection activities will be as per agreed erection Bar Chart indicating monthly schedule of erection activities for completion of works. Further, no price increase shall be allowed beyond the original erection dates unless specifically stated in the Time Extension letter, if any, issued by the Owner. The Owner will, however, be entitled to any decrease in the Contract Price which may be caused due to lower price adjustment amount in case of delays beyond the original erection dates. Therefore, in case of delays beyond the original erection dates, the liability of the Owner shall be limited to lower of the price adjustment amount which may work out either on schedule date or actual date of erection (including civil works).

5.2 For Supply Items:

5.2.1 Provisional & Final Price Adjustment:

The contractor shall submit the price adjustment claims as follows:

5.2.2 Provisional Price Adjustment:

The contractor shall submit the provisional price adjustment claim (after shipment of material at site) considering the date of dispatch as the date on which the material is notified as being ready for inspection (date of receipt of inspection call by Nigam), scheduled date of dispatch or actual date of dispatch, whichever is beneficial to the Nigam.

5.2.3 Final Price Adjustment:

The contractor shall submit the Final price adjustment claim (after erection of material at site) considering the date of dispatch as the date on which the material is notified as being ready for inspection (date of receipt of inspection call by Nigam), scheduled date of dispatch or actual date of dispatch or actual date of erection (If applicable and falling after contractual completion period), whichever is beneficial to the Nigam.

5.3 Price Adjustment Ceiling for Supply & Service Part:

The total adjustment shall not be subject to any ceiling whatsoever individually of the respective Ex-works price / Unit rate.

6.0 TERMS OF PAYMENT

The terms of payment under this LOA shall be governed by the stipulations of Clause 9.7, General Conditions of Contract, Volume-I of the Bidding Documents.

6.1 The payment terms under clause 9.7.3 (GCC) is amended in clause no.6 of SCC and shall be as under:

(A) Price Component for Equipment and its Erection, Testing and Commissioning[As indicated in Appendix-IA & Appendix-IB of this LOA]

a) **Supply Component:**

Payment equal to 60% (Sixty percent) of the Ex- works value of material or equipment shall be made to the contractor on the supply of the material / equipment at site on the basis of certificate issued by engineer in-charge that this much quantity has been supplied by the contractor at site. However, before despatch of material / equipment at site, contractor shall be required to get it inspected and cleared from the purchaser which will be further verified by the Engineer-in-charge before installation at site.

Subsequent payment equal to 20 % (Twenty percent) of the Ex-works value of material or equipment shall be made to the contractor on the Erection of the material / equipment at site on the basis of certificate issued by engineer in-charge that this much quantity has been erected by the contractor at site.

Subsequent payment equal to 10 % (Ten percent) of the Ex- works value of material or equipment shall be made to the contractor after commissioning@ of Line.

Final payment equal to 10 % (Ten percent) of the Ex- works value of material or equipment shall be made to the contractor on completion and issue of Taking Over Certificate (TOC) and after adjustment of due recoveries/ damages, if any, proof of submission of required number of reproducible, O&M manuals, approved drawings, data sheets, test reports, pamphlets and manuals of spares, maintenance and testing equipment under the project.

b) **Service Component**

Payment equal to 80% (Eighty percent) of the ETC Charges of material or equipment/ Civil work Charges shall be made to the contractor on the Erection of the material or equipment at site/ Execution of Civil Work on the basis of certificate issued by engineer in-charge that this much quantity has been erected/ executed by the contractor at site.

Subsequent payment equal to 10 % (Ten percent) of the ETC Charges of material or equipment/ Civil work Charges shall be made to the contractor after commissioning@ of Line.

Final payment equal to 10 % (Ten percent) of the ETC Charges of material or equipment/ Civil work Charges shall be made to the contractor on completion and issue of Taking Over Certificate (TOC) and after adjustment of due recoveries/ damages, if any, proof of submission of required number of reproducible, O&M manuals, approved drawings, data sheets, test reports, pamphlets and manuals of spares, maintenance and testing equipment under the project.

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Note:

1. Relief to the contractor shall be provided if contractor is not able to complete the commissioning due to any other deficiencies on the part of RVPN or reasons not attributable to contractor.

@ "Commissioning" for the purpose of payments shall mean satisfactory completion of all supplies, erection, testing, commissioning and continuous energisation of the related equipment/materials of Line at rated voltage at site as per the Contract and to the satisfaction/approval of Nigam.

(A) Type Test Charges- (NOT APPLICABLE)

(B) Inland Transportation, In-transit insurance, Loading & unloading Charges

Inland transportation and In-transit insurance charges shall be paid to the Contractor on pro-rata basis, as per the unit rates indicated in the Contract Agreement, after receipt of materials/items at site and on presentation of the bill of supply or any other documents prescribed under GST Law along-with supporting documents by the Contractor. However, these charges will be subject to a limitation that the aggregate of all invoices does not exceed the total amount indicated in the Contract Agreement.

It is the Nigam understanding that as per extant provisions, on the charges for Inland transportation, in transit insurance charges, Loading and unloading charges by the Contractor to the Nigam, GST is not payable. If payable, the same shall be to the Contractor's account and Nigam shall not reimburse any GST on this account.

(C) Payment towards Price adjustment

Any variation in Contract price due to price adjustment provision of Annexure-B shall be effected on presentation of debit note/credit note, as prescribed under the GST law, supported by calculations as per formulae specified therein along with documentary evidence for different indices applicable for Price Adjustment.

- i) Any increase in Contract price due to price adjustment provision shall be payable as follows:

For Supply Portion:

90% (ninety percent) of the price adjustment amount for the respective shipment shall be paid on receipt of said shipment at site and issuance of Debit Note, as prescribed under the GST law, by the Contractor. Balance 10% (ten percent) of the price adjustment amount shall be paid along-with the final payment.

Any interest on GST payable due to increase in Contract price due to price adjustment shall be to the Contractor's account and Nigam shall not reimburse any amount on this account.

For Service Portion:

90% (ninety percent) of the price adjustment amount for the respective billing period shall be paid after certification by Nigam's representative for quantum of work done in the said billing period and issuance of Debit Note, as per GST law, by the Contractor. Balance 10% (ten percent) of the price adjustment amount shall be paid along-with the final payment.

Any interest on GST payable due to increase in Contract price due to price adjustment shall be to the Contractor's account and Nigam shall not reimburse any amount on this account.

- ii) For any reduction in Contract Price due to price adjustment provisions the Contractor shall issue 'Credit note', as prescribed under the GST law. Further, the reduction in Contract Price shall be effected by recovering 100% of the reduction amount along with applicable GST, if any charged earlier, from Contractor's invoices falling immediately due for payment or any other payments.
- iii) In case negative PV invoice is submitted by the contractor after the specified timeline as per the contract, interest shall be charged on said

amount less provisional amount withheld on this account, if any, for the period elapsed beyond the specified timeline and date of submission of PV bill by the contractor. Rate of Interest shall be @11.0% per annum. Further, the amount of interest worked out on negative PV shall be recovered from Contractor's invoices falling immediately due for payment or any other payments under the contract.

(D) Maintenance Service Charges [NOT APPLICABLE].

(E) Training Charges [NOT APPLICABLE]

(F) Payment towards Taxes and Duties

Taxes and duties applicable as per Indian Tax laws, concerning Supply of Goods and Services in respect of transaction between the Nigam and the Contractor, shall be reimbursed by the Nigam as follows:

- (a) In case of Ex-works supply of goods, GST shall be reimbursed along with progressive payment on dispatch.
- (b) In case of Installation, GST shall be reimbursed along with Progressive payment on completion of Erection activity.
- (c) In case of maintenance, GST shall be reimbursed along-with progressive payment on completion of maintenance activity.
- (d) GST on Training charges shall be reimbursed on successful completion of Training.

All GST payment shall be against GST invoices/ debit notes raised by the Contractor as specified under the GST Act and related Rules, Notifications, etc as notified by the Government in this regard. In the event that the Contractor fails to provide the invoice/ debit note in the form and manner prescribed under the GST Act and Rules, the Nigam shall not be liable to make any payment against such invoice/debit note. Payment towards taxes & duties shall be released by the Nigam directly to the Contractor.

6.2 Payment Procedure and mode of Payment

Payment procedures and mode of payment shall be governed by Clause No. 9.0, General Conditions of Contract Volume-I of the Bidding Documents. All payment will be made as per prevailing payment policy of RVPN.

7.0 QUANTITY VARIATION

Quantity Variation under the subject Contract shall be governed by the provisions of Clause 42.0, General Conditions of Contract, Volume-I of the Bidding Documents and as per the following:

7.1 Nigam's Right to Vary Quantities

- i. If the Nigam does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding documents.
- ii. Orders for extra items may be placed by the Nigam, upto 5% of the value of the original contract. The fair market value of such extra items payable by the Nigam to the contractor shall be determined by the procuring entity after assessment of market prices to be assessed on the basis of rate references of other purchase orders placed by RVPNL or other organisations, BSR, Rate contracts of any other Govt. Department / Utility / PSU / Nigam for the item, rates quoted by other

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bidders in same Bid. etc.

- iii. Orders for additional quantities may be placed, on the rates and conditions given in the contract and the original order was given after inviting open competitive bids. Delivery or completion period may also be proportionately increased. The limits of orders for additional quantities shall be as under :-

(a) 50% of the quantity of the individual items and 50% of the value of original contract in case of works; and

(b) 50% of the value of goods or services of the original contract.

Provided that in exceptional circumstances and without changing the scope of work envisaged under the contract, a Nigam may procure additional quantities beyond 50% of the quantity of the individual items as provided in the original work order with prior approval of the Energy Department, GOR as follows :-

(a) the procuring entity shall obtain prior approval for revised requirements from the competent authority for reasons to be recorded in writing. Wherever necessary, due to the quantum of orders for additional quantities, the procuring entity shall obtain prior and revised technical, financial and administrative sanctions from the competent authorities;

(b) that the additional quantities so procured shall be part and parcel of the work being executed;

(c) that the limit of 50% of the value of original contract shall not be exceeded in any case.

7.2 For the Items where Quantities are defined/identified by the Nigam in the Appendix-IA & Appendix-IB to this LOA:

a) The contractor is bound to execute/complete the scope of work with variation in quantities. The quantities of Individual Items may vary to any extent, however it shall be permitted within the ceiling of (+) 1% (One percent only) [FOR SUBSTATION AND RELATED PACKAGES]/ (+) 3% (Three percent only) [FOR TRANSMISSION LINE AND RELATED PACKAGES] of Contract value of Goods and Services Contracts taken together.

b) However, if the following condition arises,

i. The relative evaluated position of the contractor changes i.e. Total evaluated cost increases from the nearest higher evaluated bidder within above limit [(+) 1 %/ (+) 3% as applicable].

OR

ii. The above limit [(+) 1 %/ (+) 3% as applicable] is crossed due to further increase of quantities of individual items for completion of scope of work,

Then the lumpsum reduction of amount in the exceeded payable amount shall be computed as under:

$$R = \sum_{n=1} Q_n (CP - LP)$$

1

Where,

R = Lumpsum Reduction amount (in Rs.);

n = Number of items for which contract unit prices/ charges (for Supply & Services taken together or Supply only or Services only, as applicable) are higher than the lowest unit prices/ charges (for Supply & Services taken together or Supply only of Services only, as applicable) among all the qualified bidders.;

Q = Quantity Exceeded on individual item after meeting any of the conditions mentioned as above. (Considering proportionate increase of each Quantities);

CP = Contract Unit Price/ Charges (for Supply & Services taken together or Supply only or Services only, as applicable) (in Rs.);

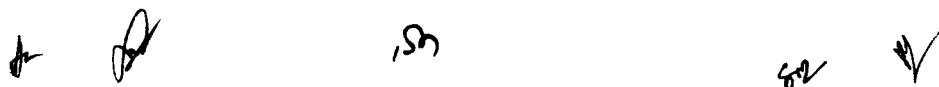
LP = Lowest Unit Price/ Charges [for Supply & Services taken together or Supply Only or Services only, as applicable) among all the qualified bidders] (In Rs.)

- c) The provisional lumpsum reduction in amount shall be reviewed/ evaluated and recovered/ effected at every 5% increase after any of the above mentioned conditions prescribed above are met. The final lumpsum reduction amount after adjusting previously reduced provisional amounts, if any shall be settled on the completion of the facilities as per the scope of works.

Lowest Unit Prices/ Charges (LP) as above, for various items/ material have been indicated in Appendix-III to this LOA.

- 7.3 The Contract Price for (i) items for which quantities have been indicated as lumpsum/lot/set /job and (ii) items for which quantities were to be estimated by the Contractor, including additional items [falling under (i) and/or (ii)] considered necessary by the Bidder for successful completion of the works as per Technical Specification and indicated by him in his Bid shall remain constant unless there is change made in the Scope of Work by the Purchaser. The quantities and unit prices (a) subsequently arrived while approving the Billing break-up of lumpsum/lot/set/Job quantities and/or (b) quantities estimated by the Bidder/Contractor shall be for on account payment purpose only. In case additional quantities, over and above the quantities in Billing Break-up and or estimated by the Contractor, are required for the successful completion of the scope of work as per Technical Specification, the Contractor shall execute additional quantities of these items for which no additional payment shall be made over and above the lumpsum Contract Price.

In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be property of the Contractor and they shall be allowed to take back the same from the site for which no deduction from the lumpsum Contract Price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved billing break up and/or estimated by the Contractor, the lumpsum Contract Price shall remain unchanged and no deduction shall be made from the lumpsum price due to reduction of quantities. It shall be the responsibility of the Contractor to pay all statutory taxes, duties and levies to the concerned authorities for such surplus material which would otherwise have been, lawfully payable. The Contractor shall



- submit an indemnity bond to keep Nigam harmless from any liability before release of such material to the contractor by Nigam.
- 7.4 The contract price shall accordingly be adjusted based on the unit rates available/ identified in the contract for the change in quantities as above. The base unit rates, as identified in the contract as above at Clause 42.2 shall however remain constant during the currency of the contract. In case the unit rates are not available for the change in quantity, the same shall be subject to mutual agreement.
- 7.5 **Surplus and Unaccounted Materials:**
- a. The contractor, within two (2) months from the taking over of the Substation/line by the Owner, shall furnish account for the surplus and unaccounted materials.
 - b. On completion of the works, all surplus and unaccounted materials (out of the materials brought by the contractor for erection and payments thereof made by NIGAM), shall be to his account and the surplus materials shall be taken back by him at his own expenses.
 - c. NIGAM will make necessary recoveries from the outstanding bills of the contractor for the cost of such paid surplus and unaccounted materials.

8.0 INSURANCE

The provision of insurance under the Contract shall be as per Clause 39.0, General Conditions of Contract, Volume- I of the Bidding Documents and as per the following:

- 8.1 All the equipment and materials being supplied by you shall be kept completely insured by you at your cost from the time of dispatch from your works, up-to the completion of installation and TOC of the system in accordance with the provisions of Bidding Documents.
- 8.2 It will be your responsibility to lodge, pursue and settle all claims with the insurance company for all equipment/materials in case of any damage, loss, theft, pilferage or fire during the execution of the Contract and Nigam shall be kept informed about it. You shall be responsible for replacement of the lost/damaged materials promptly irrespective of the settlement of the insurance claims. The losses, if any, in such replacements shall have to be borne by you.
- 8.3 The insurance covers to be taken by you shall be in the joint name of Nigam and you with jurisdiction of courts at Jaipur (Rajasthan) only from approved list of non-life insurers of IRDA. You shall, however, be authorized to deal directly with insurance company or companies and shall be responsible in regard to maintenance of all insurance covers.

The provisions of Clause 28.0 Erection Conditions of Contract Volume- I of Bidding Document are also to be read with above for other applicable insurance requirements to be complied by contractor for works under this project.

9.0 WORK SCHEDULE

- 9.1 The basic consideration and essence of this contract shall be the strict adherence to the work schedule for completion of entire work. The work under this Contract shall be performed in such a manner so as to meet the schedule and the key dates identified as given below:

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S. No.	Description of Work	Period in Months (from the date of Notification of Award)
1.	Completion of detailed engineering	20 days
2.	Procurement of raw materials	20 days
3.	Manufacturing a) Commencement b) Completion	60 days
4.	Type Tests (if envisaged) a) Commencement b) Completion	Not required
5.	Shipments a) Commencement b) Completion	15 days
6.	Establishment of Site office	20 days
7.	Erection a) Commencement b) Completion	90 days
8.	Testing & Pre-commissioning a) Commencement b) Completion	30days
9.	Commissioning	15 days
	Total Months	9 Months (270 days)

9.2 The time for Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm. , 132 kV XLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil workscovered under the subject Contract is **09 (Nine) months** from the date of Notification of Award.

9.3 You shall develop and furnish a detailed schedule in the form of a master network identifying key phases in various areas of the total work like design/drawing approval, manufacture, testing, shipment etc. of the equipment/materials for substation and line work. The Master Network shall be submitted separately for each of the items of works specified within 30 (thirty) days from the date of Letter of Award in line with Schedule-A of the specification. The master network shall conform to the scheduled commissioning period, reckoned from the date of Letter of Award based on the key dates identified at Clause 9.1 above. You shall submit network schedules based on Letter of Award for review and approval. After approval of network schedule, one reproducible with sufficient number of prints as desired by RVPN shall be submitted.

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10.0 COMPLETION TIME GUARANTEE

10.1 The time and the date of delivery/completion period specified at Clause No. 9.2 above shall be deemed to be the essence of the contract and the facilities shall have to be completed no later than the period specified therein. If the Contractor fails to comply with the Time for Completion for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Nigam recovery for such default, without prejudice to the Nigam's other rights and remedies under the Contract as follows:

a	Delay over and above the prescribed completion period upto 1/4 th of scheduled completion period;	2.5% of the total contract price, as may be revised
b	Delay exceeding 1/4 th period but not exceeding 1/2 of scheduled completion period;	5% of the total contract price, as may be revised
c	Delay exceeding 1/2 period but not exceeding 3/4 th of scheduled completion period;	7.5 % of the total contract price, as may be revised
d	Delay exceeding 3/4 th period of scheduled completion;	10% of the total contract price, as may be revised

Note: - Any fraction in such calculation shall be rounded off to the nearest one.

The Nigam may, without prejudice to any other method of recovery, deduct the amount of such recovery from any payment immediately falling due or to become due to the Contractor. The payment or deduction of such recovery shall not relieve the Contractor from his obligation to complete the Works, or from any other of his obligations and liabilities under the Contract.

10.2 Any financial liability arising from and consequent upon the failure of the contractor to adhere to the stipulated completion schedule shall be to the contractor's account.

10.3 The period of delay shall be reckoned from the scheduled date of completion to the date of Taking Over, as certified in the Taking over Certificate.

10.4 Provisions of PERT chart is related to be used for project monitoring purpose and no intermediate activity wise penalty in delay is applicable. The penalty in delay shall be on complete scheduled completion period

11.0 CONTRACT AGREEMENT

You shall have to execute the contract agreement within 30 days from the issue of this LOA in accordance to Clause 31.0 ITB and Clause 2.0 GCC in conjunction with Clause 3.0 SCC of the bidding document in the prescribed Performa in Part-VI, Vol-I of the bidding document on Rajasthan State Non-judicial stamp paper worth @0.15% subject to max. 25 lacsof total contract value along with copy of this LOA and related documents. It is advised that each and every page of relevant documents is to be signed by authorized person with stamp. It may however be ensured that one copy of the LOA and other documents as above, are signed by an authorized person holding valid power of attorney. The power of attorney should be on non judicial stamp paper worth Rs. 500/- which should be attested by the Notary Public. For this, a copy of power of attorney in favour of person signing these

On testing, if it is found that actual losses are more than the values guaranteed by you, undisputed liquidated damages for non-performance (rupees per kw) shall be recovered from you at the cost of losses stipulated hereunder:

Cable loss per km per kw : Rs. 2,96,000.00

For fraction of kilowatt evaluation will be on prorata basis

If the said guaranteed parameters are not established at factory test, Purchaser at his discretion may reject or accept the equipment/items after assessing the liquidated damages given above for nonperformance of cable and such amount, if any, shall be deducted from the Contract Price or otherwise recovered from you. The amount of liquidated damages so recoverable shall be without any ceiling and shall not prejudice the Contractor's other liabilities under the Contract in any manner. The liquidated damages for shortfall in guaranteed parameters and for delay in completion are independent of each other and recovery shall be levied separately and concurrently.

13.2 The cable under no circumstances shall be accepted if the measured losses are more than +15 percent of the guaranteed losses at rated voltage as quoted by you..

14.0 INDEMNITY

14.1 For the equipment/material to be provided by the Contractor, it will be the responsibility of the Contractor to take delivery, unload and store the materials at Site and execute an Indemnity Bond and obtain authorization letter from Nigam as per prescribed proforma in Part-VI, Vol-I of Bid Document, in favour of the Nigam against loss, damage and any risks involved for the full value of the materials. This Indemnity Bond shall be furnished by the Contractor before commencement of the supplies and shall be valid till the scheduled date of Taking Over of the equipment by the Nigam.

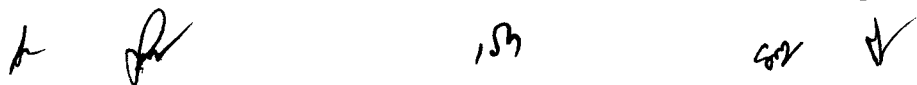
14.2 In case of Contracts, where the Nigam hands over his equipment/material to the Contractor for executing the Contract, then the Contractor shall, at the time of taking delivery of the equipment/material through Bill of Lading or other dispatch documents, furnish trust Receipt for Plant, Equipment and Materials and also execute an Indemnity Bond in favour of the Nigam in the form acceptable to the Nigam for keeping the equipment in safe custody and to utilize the same exclusively for the purpose of the said Contract. Samples of proforma for the Trust receipt and Indemnity Bond are as per prescribed proforma in Part-VI, Vol-I of Bid Document. The Nigam shall also issue a separate Authorization Letter to the Contractor to enable him to take physical delivery of plant, equipment and materials from the Nigam as per prescribed proforma in Part-VI, Vol-I of Bid Document.

15.0 QUALITY ASSURANCE PROGRAM

15.1 You shall submit the quality manual based on ISO 9001 / ISO certificate. You shall perform all manufacturing activities as per the requirements of the quality manual. This also applies to your vendors who will supply the other material. Small vendor may be got approved from RVPN for exemption.

15.2 You will submit and get finalized detailed comprehensive standard manufacturing Quality Plan (SMQP) within 60 days from date of issue of this order for bought out items and items manufactured by you.

- 15.3 The Standard Manufacturing Quality Plan shall relate to the specific and objective manufacturing practices right from procurement of raw materials till final inspection & testing followed by them (for bought out items) and items manufactured by you. Accordingly, the Manufacturing Quality Plan shall be submitted broadly under following sub-heads:
- a) Raw Material/Bought Out Items and Components.
 - b) In process inspection and test/checks to establish successful completion/accomplishment of the process.
 - c) Final tests/checks in accordance with relevant national/international standards/specification.
- 15.4 The SMQP shall be submitted in A-4 size in the format with all the information properly filled. It shall be submitted with all the reference documents without which the submission shall be deemed to be incomplete.
- 15.5 The quantum of check for each and every inspection/test item shall be based on an established sampling method and the quantum of check indicated in the SMQP should be designed to provide adequate quality protection.
- 15.6 The SMQP shall be mutually discussed and agreed upon within 30 days from the date of its receipt. NIGAM shall indicate CIP (Customer Inspection Points) on such agreed SMQP, beyond which work shall progress only with the consent of NIGAM. The inspection at various stages shall be arranged by NIGAM as per agreed SMQP.
- 15.7 You have agreed to follow the Standard Field Quality Plan(s) (SFQP) / Procedure for carrying out works as enclosed in Technical Specification for this project.
- 15.8 In case reference documents/acceptance norms are indicated as per plant standards then the same shall be duly substantiated/properly explained by well-established and proven engineering practices. All submissions will be in English language only.
- 15.9 The items which you have proposed to procure from sub vendors/vendors list shall be specifically informed to NIGAM and approval of NIGAM shall be specifically obtained by you before start of manufacturing. Even in case of any change in the approved sub vendor, the matter shall be referred to NIGAM immediately for its approval. In any case no request for change will be made by you after 3 months from date of issue of this LOA.
- 15.10 You shall furnish to NIGAM following details for vendors given in approved vendor list within two months while applying for approval of vendor from the date of issue of this purchase order normally RVPN will give vendor approval within 15 days from the date of receipt of all desired details.
- a) List of manufacturing/testing facilities available with the proposed vendor with each machines capacity and year of purchase.
 - b) Name and qualification details of the Head of the Design, Production, QA, QC functions along with their past experience in the field.
 - c) Third party approval status of the proposed vendors for the following along with evidence.
 - Quality system approval for the proposed vendors.
 - Product approval for the offered products.
 - d) Details of past supplies made by the vendor in case of last order in which the proposed sub-vendor was approved by and has supplied the material for which he is being proposed now.
 - e) Evidence of SQC techniques used by the vendor in the past.

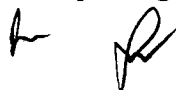


f) Assessment report of your QA engineer in respect of each vendor.

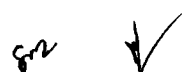
- 15.11 For raw material etc. you shall furnish details desired in the technical specification. Procurement of all bought out items/services shall be made only from NIGAM approved sources and in accordance with approved Manufacturing Quality Plan/ Drawings/ Specifications.
- 15.12 You have agreed to allow NIGAM to carry out Quality Audit/Quality surveillance on you and your sub-vendor's works with reference to contractual obligations to ensure that the quality management practices/norms as detailed out in the Quality Manual are adhered to. To facilitate this activity, you shall keep NIGAM informed all progress of work in this contract on monthly basis.
- 15.13 You will associate/fully witness in each inspection being carried out at your/ your sub-vendor's works by our authorized inspection engineer(s).

16.0 INSPECTION AND TESTING

- 16.1 The engineer and his duly authorized representative shall have at all reasonable times access to the contractors premises of works and shall have the power at all reasonable time to inspect drawing of any portion of the work or examine the materials and workmanship of the plant being manufactured on other premises, the contractor shall obtain for the engineer and for his duly authorized representative permission to inspect it as if the plant was manufactured on the contractor's own premises.
- 16.2 The engineer shall on giving seven day's notice in writing to the contractor setting out any grounds of objections which he may have in respect of the work, be at liberty to reject any drawing and all or any plant or workmanship connected with such work which in his opinion are not in accordance with the contract or are in his opinion, defective for any reason whatsoever.
- 16.3 The contractor shall state in his bid the places of manufacture, testing and inspection of various equipment's offered by him. Unless specifically provided otherwise all tests shall be made at the contractor's works before shipment.
- 16.4 The contractor shall intimate at-least 15 days in advance through notice(s) about the readiness of material for dispatch commensurate with specific delivery schedule so as to enable the Nigam to depute his representative for inspection testing and checking of the material/equipment. For this purpose the date of receipt of the letter in the office of the purchasing authority shall be deemed as the date of call for inspection and not the date mentioned in the letter and the date of dispatch. In case, material/equipment is not found ready by the representative of the Nigam deputed for inspection to the extent of the quantity indicated in the inspection call with tolerance of (-) 10% or if the inspection is not got carried out by any, reason(s) on account of the supplier an amount of Rs.3000.00 only for the manufacturer's work located in Rajasthan and an amount of Rs. 10000.00 only for the manufacturer's works located outside Rajasthan will become payable by the contractor on this account to the Senior Accounts Officer (EA& Cash), RVPN, Jaipur. The contractor will deposit the amount with the Senior Accounts Officer (EA& Cash), RVPN, Jaipur immediately under intimation to the purchasing authority, failing which the subsequent call for inspection shall not be entertained.
- 16.5 The material/equipment shall be offered duly packed so as to enable the inspecting officer to seal.







- 16.6 In all cases where the contract provides for tests, whether at the premises of works of the contractor or any sub contractor's site the contractor except where otherwise specified shall provide free of charge to the Nigam, such labour, materials, electricity fuel water, stores apparatus and instruments as may reasonably be demanded to carry out efficiently such tests of the plant, in accordance with the contract and shall give facilities to the engineer or his authorized representative to accompany such testing.
- 16.7 The purchaser reserve the right of having any inspection or special test of a reasonable nature at contractor's premises or at sites in addition to those prescribed in applicable standards and the enclosed technical specification.
- 16.8 When the tests have been satisfactorily completed at the contractor's/ subcontractors works the engineer shall issue a certificate to that effect but if the tests were not witnessed by the engineer or his representative, the certificate would be issued after the receipt of test certificate by the engineer. No plant shall be shipped before such a certificate has been issued. The satisfactory completion of these tests or the issue of this certificate shall not bind the purchaser to accept the plant, should it on further tests after erection, be found not to comply with the contract.
- 16.9 The authorized representative of the Nigam shall have at all reasonable times access to the works and premises of the manufacturer and / or his associates, if any, and shall be free to inspect the works, examine and test the product(s) including raw material used and the workmanship employed during/ after manufacture.
- 16.10 The manufacturer shall also furnish the latest calibration certificate of the testing instruments / equipment used for the testing of the material / equipment's as covered in the Nigam order, to the inspecting officer. The testing instruments / machines should be got calibrated by the manufacturer from time to time from the manufacturer of the testing instruments or any Govt. recognized testing laboratory or any NABL accredited Laboratory. The calibration certificate should not in any case, be older than one year at the time of presenting the same to the Inspecting Officer. In case however, the manufacturer fails to comply with the conditions as aforesaid a certificate in writing of the inspector / representative of the Nigam that the manufacturer has failed to provide the facilities shall be conclusive.
- 16.11 Unless the inspection is specifically waived no material shall be dispatched without inspection and clearance for dispatch by the Nigam's representative.
- 16.12 The owner reserve the right to reject all or any part of the material being manufactured or awaiting dispatch, due to any defect or deviations from the standard specification prescribed as observed during the inspection. In case of any dispute/ difference in this regard the decision of the Chief Engineer (PP&D) shall be final and binding.
- 16.13 The Nigam also reserves the right to get the material/equipment tested in any recognized Government Laboratory & claiming any compensation or rejecting the material/ equipment, if not found in accordance with the specification. All charges consequent to such rejection and replacement/ rectification shall be borne by the contractor.
- 16.14 **ABROAD INSPECTION AND TESTING:**

The inspection and testing to be carried out at the manufacturers works, if it is situated abroad, the contractor shall clearly indicate about the tests

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on various equipments which may be carried out at Manufacturer's work abroad, their works in India and on site.

For the inspection and testing to be carried out by Nigam Engineers under the project, the contractor shall be responsible for arranging the following:

For 2 Engineers, to-fro air fare, accommodation (boarding & lodging), food, local transport, visa fees/expenses etc. i.e. Charges for ex- India, duration of Inspection and return to India.

17.0 PROJECT-IN-CHARGE / CONSIGNEE

1. Project-in-Charge:

Superintending Engineer (T&C), RVPN, Jaipur-Rural

2. Consignee/ Engineer-in-Charge:

Assistant Engineer- (T&C-Phagi), RVPN, Jaipur-Rural under control of Executive Engineer (T&C), RVPN, Jaipur-Rural

The List of addresses of Nigam's contact persons for various works is appended at **Appendix-V** for your reference.

18.0 PROJECT ORGANISATION AND CO-ORDINATION

18.1 You shall be required to nominate the following coordinators for the various functions under this contract within 15 days from the date of issue of this Purchase order:

- a) Contract Coordinator
- b) Engineering Coordinator
- c) Contract Quality Assurance Coordinator.

18.2 This progress of work shall be reviewed at-least once in a month at NIGAM's office and at site office where your contract coordinator and other coordinator etc. should be present.

18.3 Alternative coordinators shall also be nominated to facilitate un-interrupted working.

19.0 PROGRESS REPORT AND PHOTOGRAPHS

19.1 During the various stages of the work in pursuance of the contract, the contractor shall at his own cost submit periodic progress reports as may be reasonably required by the Engineer with such materials as, charts, net-networks, photographs, test certificates, etc.

19.2 You will amend format of progress reports indicating additional information etc. time to time to include all activities as per NIGAM's requirement. Such progress reports shall be in the form and size as may be required by the Engineer and shall be submitted in at least three (3) copies.

20.0 TAKING OVER (As per GCC Clause No. 26.0)

Upon successful completion of all the tests to be performed at site on all the equipment's supplied and erected by the contractor, the engineer shall issue to the contractor a Taking Over Certificate as a proof of the final acceptance of all the equipment's and facilities executed/commissioned as per complete scope of work. Such certificate shall not unreasonably be withheld nor will the engineer delay the issuance thereof on account of minor omissions or defects in the line which do not materially affect the

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commercial operation, safety and efficient use thereof provided that the contractor shall undertake to make good the same in due course. Such certificate shall not relieve the contractor of any of his obligations which otherwise survive, by the terms and conditions of the contract after issue of such certificate. Punch points, if any, shall be attached with the TOC as Annexure

21.0 RECONCILIATION AND FINAL ACCOUNT

- 21.1 Within 1 month after the date of completion of work, you shall submit a draft statement of final account and supporting document to the Engineer/Engineer's representative showing therein the details, the value of the material supplied/works done in accordance with the contract, together with all further sums which the contract up-to the date of taking over certificate (hereinafter called the "Contractor's Draft Final Account").
- 21.2 Within 1 (one) month after receipt of the Contractor's Draft Final Account and of all information reasonably required for its verification, the Engineer/Engineer's representative shall determine the value of all matters to which you are entitled to under the contract. The Engineer/Engineer's representative shall then issue to you a statement showing the final amount, to which you are entitled to, under the contract. You shall sign the Engineer's statement of Final Account as an acknowledgement of the full and final value of the work performed under the contract and shall promptly submit a signed copy of the same to the Engineer/Engineer's representative.

22.0 FINAL CERTIFICATE

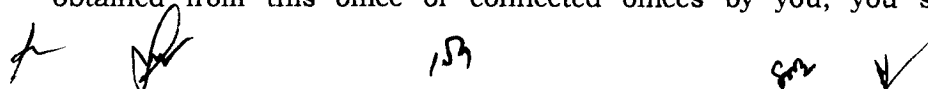
- 22.1 On receipt of the final Account, the Engineer/Engineer's representative shall promptly prepare and submit to this office for approval. This office shall issue instructions to the Sr. AO (CPC), RVPN, Jaipur for Final payment, certifying any further amount due to you in respect of the contract.
- 22.2 After issue of the certificate(s) by the Engineer, you shall prepare bills in triplicate and furnish the same to the Sr. AO (CPC), RVPN, Jaipur for releasing the payment with a copy to the purchaser.

23.0 FURTHER CORRESPONDENCE

- 23.1 All correspondence pertaining to the order in respect of any clarification required on technical particulars, terms and conditions, dispatch instructions, approval of contract drawings and test certificate, inspection and testing etc. should be addressed to the Superintending Engineer (Automation, N/M &SP), RVPN, Jaipur-302005.
- 23.2 All the correspondence pertaining to the payment of the bills etc should be addressed to the Sr. Accounts Officer (CPC), RVPN, Jaipur-302005, with copies to this office and the consignee.
- 23.3 All the correspondence relating to dispatch and receipt of material shall be addressed to the project-in-charge/ consignee with a copy to this office and to the Sr. Accounts Officer (CPC), RVPN, Jaipur-302005.

24.0 RESPONSIBILITY FOR OBTAINING INFORMATION AND TAKING ACTION IN TIME

- 24.1 Whenever any information or clarification in respect of manufacture of any material or any terms and conditions laid down herein is required to be obtained from this office or connected offices by you, you shall be

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responsible for taking action well in time so that there is no delay in supply of material on this account. You shall also take prompt action for arranging dispatches through GTR for these consignments in time to the destination station. The schedule completion period of Line work mentioned in this LOA shall be deemed to include the time taken for completing such incidental formalities. Any request for extension of schedule completion period of subject works on such ground will not be entertained.

25.0 SETTLEMENT OF DISPUTES

25.1 All disputes, differences, questions whatsoever so arising between the Nigam & Contractor upon or in relation to or in connection with contract shall be deemed to have arisen at Jaipur (Rajasthan) and no court other than court in Jaipur shall have jurisdiction to entertain the same.

25.2 The settlement of dispute can be referred for decision by contractor to the Committee of Nigam by depositing prescribed fees in cash/demand draft/pay order with the Sr. Accounts Officer (EA& Cash), RVPN, Jaipur. The details of the centralized Standing Committee for settlement of disputed claims under conditions of contract relating to RVPN as under:-

- | | | |
|---------------------------------------|---|-----------|
| 1) Chairman & Managing Director | - | Chairman |
| 2) Director (Finance) | - | Member |
| 3) Director (Technical) | - | Member |
| 4) Director (Operation) | - | Member |
| 5) Advisor (LA) | - | Member |
| 6) Concerned CE /ZCE/Dy.CE(R&M)/Civil | - | Member |
| | | Secretary |

The committee shall consider all cases for settlement of disputed claims relating to purchases, works, turnkey contracts and labour contracts, civil works etc. Further, this committee shall also take decision whether a particular matter is required to be referred to the Board for approval before settlement. The following guide lines are prescribed for referring the matter to this committee:

Disputes will be referred contract wise.

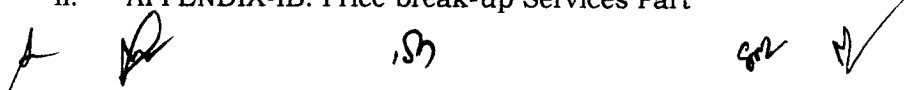
- i) Disputes involving amount above Rs.1.00 lacs only will be referred / entertained.
- ii) Non-refundable fee shall be deposited by the contractor / firm @ 2% of disputed amount as claimed by the contractor / firm subject to maximum fee of Rs.1.00 lac. + GST.
- iii) Application for settlement and procedure to be followed shall be on the line as mentioned under PWF& AR Part-III.

26.0 ACCEPTANCE OF THE ORDER

The acceptance of this detailed LOA must be acknowledged to the Superintending Engineer (Automation, N/M &SP), RVPN, Jaipur-302005, within ten days of the receipt of LOA failing which it will be presumed that the terms and conditions incorporated in the LOA are acceptable to you.

27.0 ENCLOSURES

- i. APPENDIX-IA: Price break-up of Supply Part
- ii. APPENDIX-IB: Price break-up Services Part

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- iii. APPENDIX-II: Price Adjustment/ Price basis
- iv. APPENDIX-III: Price break-up Lowest Unit Prices/ Charges of Various Items
- v. APPENDIX-IV: Guaranteed and Other Technical Particular
- vi. APPENDIX-V: List of addresses of RVPN contact persons
- vii. APPENDIX-VI: Performa for undertaking / authorization letters from vendors
- viii. Annexure-A SAP PO ID: 5700000310 (Supply)
- ix. Annexure-B SAP PO ID: 4600025128 (Service)
- x. Bidding document/Specification consisting of:

VOLUME - I: CONDITIONS OF CONTRACT

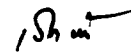
- Part - I: Instructions to Bidders (ITB)
- Part- II: Bid Data Sheet (BDS)
- Part - III: General Terms & conditions of Contract (GCC)
- Part – IV: Special Conditions of Contract (SCC)
- Part – V: Erection Conditions of Contract (ECC)
- Part - VI: Bid Proposal Form, Schedules & Annexures

VOLUME - II: TECHNICAL SPECIFICATION

28.0 USED ABBREVIATIONS/ MEANINGS

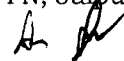
Owner/NIGAM/Purchaser/RVPNL/ RVPN:	M/s Rajasthan RajaVidyut Prasaran Nigam Limited, Jaipur
Bidder/ Supplier/Contractor:	M/s Kay Cee Energy & Infra Ltd. 9, Krishna Vihar, Near Chungi Naka, Nanta Road, Kunhadi, Kota – 324008 Email:-Kaycee.energy.infra@gmail.com; lokendra.dangi73@gmail.com
LOA:	Letter of Award
GSS:	Grid Substation
ETC:	Erection, Testing and Commissioning
GST:	Goods and Services Tax
PV:	Price Variation
F&I:	Freight and Insurance
F.O.R.:	Freight on Rail
Rs.:	Indian Rupees
GCC:	General Conditions of Contract
SCC:	Special Conditions of Contract
ECC:	Erection Conditions of Contract
O&M:	Operation & Maintenance
SMQP:	Standard Manufacturing Quality Plan
Project-in-Charge	Superintending Engineer (T&C), RVPN, Jaipur-Rural
Consignee/ Engineer- in-Charge	Assistant Engineer (T&C-Phagi), RVPN, Jaipur-Rural

Yours faithfully,



(V. A. Kale)

Superintending Engineer (Automation, N/M &SP)
RVPN, Jaipur.

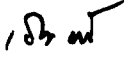


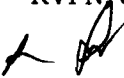
Copy submitted/forwarded to the following along-with enclosures for information:

1. The Chief Engineer (PP&D), RVPN, Jaipur
2. The Zonal Chief Engineer (T&C/Civil), RVPN, Jaipur
3. The Chief Controller of Accounts-I/II, RVPN, Jaipur
4. The Chief Accounts Officer (PP&D), RVPN, Jaipur
5. The Superintending Engineer (T&C-Rural), RVPN, Jaipur
6. The Dy. Director (IA), RVPN, Jaipur.
7. The Resident Audit Officer, RVPN, Room No. 418, Vidyut Bhawan, Jaipur.
8. The Commissioner of Income tax, Rajasthan, Statue Circle, Jaipur.
9. The Commissioner (Commercial Taxes), Govt. of Rajasthan, Jaipur, Kar Bhawan, Jaipur.

Copy forwarded to the following along-with enclosures for information and necessary action:-

10. The Executive Engineer (T&C-Rural/Civil/MPT&S), RVPN, Jaipur
11. The Sr. Accounts Officer (CPC), RVPN, Jaipur.
12. The Assistant Engineer(T&C-Phagi), RVPN, Jaipur-Rural
13. The Assistant Engineer (Civil), RVPN, Jaipur
14. The Accounts Officer (P&C - II), RVPN, Jaipur.


Superintending Engineer (Automation, N/M &SP)
RVPN, Jaipur.



Appendix-1A(Supply Part)

Sl. No.	Item Description	Quantity	Units	Unit Rate (in Rs.)	CGST Rate (in %)	CGST Amount (in Rs.)	SGST Rate (in %)	SGST Amount (in Rs.)	Unit Rate with Taxes (in Rs.)	Unit F&I (in Rs.)	CGST Rate (in %)	CGST Amount (in Rs.)	SGST Rate (in %)	SGST Amount (in Rs.)	Unit F&I with Taxes (in Rs.)	Unit FORD Rate with Taxes (in Rs.)	Total FORD Prices with Taxes (in Rs.)
1	2	3	4	5	8	9	10	11	12	13	16	17	18	19	20	21	22
1	Over Head Line Material																
2	Stub & Super structure of 220 kv D/C Narrow Base with stub and Cleat for termination of XLPE cable																
3	Stub	2	Sets.	108600.00	9.00	9774.00	9.00	9774.00	128148.00	2754.00	9.00	247.86	9.00	247.86	3249.72	131397.72	262795.44
4	TTD	2	Nos.	999600.00	9.00	89964.00	9.00	89964.00	1179528.00	28041.00	9.00	2523.69	9.00	2523.69	33088.38	1212816.38	2425232.76
5	ACSR Panther conductor	0.5	KM	226600.00	9.00	20304.00	9.00	20304.00	266208.00	4995.00	9.00	449.55	9.00	449.55	5894.10	272102.10	138051.05
6	Single tension hardware Panther	6	Sets.	2760.00	9.00	248.40	9.00	248.40	3256.80	442.00	9.00	39.78	9.00	39.78	521.56	3778.36	22670.16
7	Vibration damper	6	Nos.	771.00	9.00	69.39	9.00	69.39	909.78	27.29	9.00	2.46	9.00	2.46	32.21	941.99	5651.94
8	H/W Set -24Fiber OPGW Cable	2	Sets.	63600.00	9.00	5724.00	9.00	5724.00	75048.00	2251.44	9.00	202.63	9.00	202.63	2656.70	77704.70	165408.40
9	Joint Box (24Fiber) OPGW	2	Nos.	7800.00	9.00	702.00	9.00	702.00	9204.00	276.00	9.00	24.75	9.00	24.75	324.50	9528.50	19057.00
10	Insulators- 120 KN	60	Nos.	717.00	9.00	64.53	9.00	64.53	846.06	26.00	9.00	2.34	9.00	2.34	30.68	876.74	52804.40
11	70KN	30	Nos.	474.00	9.00	42.66	9.00	42.66	559.32	17.00	9.00	1.53	9.00	1.53	20.06	579.38	17381.40
12	G.I. Nut-Bolt assorted size as per requirement & technical specification	1	MT.	126600.00	9.00	11394.00	9.00	11394.00	149388.00	4177.00	9.00	375.93	9.00	375.93	4928.86	154316.86	164316.86
13	G.I. Step bolts of size M16X175mm	0.1	MT.	136800.00	9.00	12204.00	9.00	12204.00	160008.00	4779.00	9.00	430.11	9.00	430.11	5639.22	165647.22	16564.72
14	Electro Galvanised Spring Washer M16 B type	0.2	MT.	136600.00	9.00	12284.00	9.00	12284.00	160008.00	4779.00	9.00	430.11	9.00	430.11	5639.22	165647.22	33129.44
15	Earthing Set- Pipe type	2	Sets.	3255.00	9.00	292.95	9.00	292.95	3840.90	115.00	9.00	10.35	9.00	10.35	135.70	3976.60	7963.20
16	Number plate	2	Nos.	258.00	9.00	23.22	9.00	23.22	304.44	8.00	9.00	0.72	9.00	0.72	9.44	313.88	627.76
17	Phase plate	2	Sets.	196.00	9.00	17.55	9.00	17.55	230.10	8.00	9.00	0.72	9.00	0.72	9.44	239.54	479.08
18	Danger plate	2	Nos.	276.00	9.00	24.84	9.00	24.84	325.68	10.00	9.00	0.90	9.00	0.90	11.80	337.48	674.96
19	Under ground cable Material																
20	132 kV, Single core, 500 sq. mm XLPE Copper Cable as per foregoing specification requirements	4	Km	6122220.00	9.00	550999.80	9.00	550999.80	7224219.60	227811.00	9.00	20502.99	9.00	20502.99	268816.98	7493036.58	29972146.32
21	145KV Premould XLPE Straight Through Joint	4	Nos.	196741.00	9.00	17616.69	9.00	17616.69	230974.38	6930.00	9.00	623.70	9.00	623.70	8177.40	239151.78	956807.12
22	145 kV rated voltage premolded outdoor end termination kit complete with accessories suitable for the above underground cable and suitable for termination in Outdoor Switchyard as per the requirement of foregoing specification	8	Nos.	224136.00	9.00	20172.24	9.00	20172.24	264480.48	7935.00	9.00	714.15	9.00	714.15	9363.30	273843.78	2190750.24
23	Solid bonding Link box with Link plates, bonding & grounding cable complete with other associated accessories for I-phase	8	Nos.	63600.00	9.00	5724.00	9.00	5724.00	75048.00	2200.00	9.00	198.00	9.00	198.00	2596.00	77644.00	621152.00

24	Gantry Steel Supporting Structures/ arrangement tower/s maintaining statorry clearances and safety as per IE rules	2	SFTs.	393000.00	9.00	36370.00	9.00	36370.00	463740.00	14798.00	9.00	1331.82	9.00	1331.82	17461.64	491201.64	962403.28
25	Earthing Material including cast iron pipes with suitable clamps, charcoal, common salt etc. complete set for each Cable Circuit(each having 3 core)	2	Sets.	81063.00	9.00	7296.67	9.00	7296.67	95664.34	2870.00	9.00	258.30	9.00	258.30	3386.60	99040.94	198081.88
26	Cable end Terminal connector suitable for ACSR Panther on the item No. 3 to connect cable end termination to ACSR panther line	8	Nos.	4646.00	9.00	409.06	9.00	409.06	5363.10	160.00	9.00	14.40	9.00	14.40	188.80	5651.90	44415.20
27	Warning Tapes as per Specification	1.8	Km	46046.00	9.00	4064.06	9.00	4064.06	63163.10	1696.00	9.00	143.66	9.00	143.66	1882.10	56036.20	99063.56
28	Optical Fiber Cable and associated accessories / items as per specification	1	KM	281285.00	9.00	26676.66	9.00	26676.66	336636.30	6160.00	9.00	663.50	9.00	663.50	7267.00	343893.30	
29	132 KV class of 132 KV rating LA with grading ring, discharge counter with Millimeter	6	Nos.	98963.00	9.00	8726.67	9.00	8726.67	114416.34	3460.00	9.00	310.60	9.00	310.60	4071.00	118487.34	710924.04
30	Line differential cum distance - Numerical relay with optical interface	2	Nos.	492495.00	9.00	44324.56	9.00	44324.56	681144.10	17536.00	9.00	1678.16	9.00	1678.16	20691.30	601836.40	1203670.80
31	Cable System as per specification requirements Add: Any other item bidder may require to complete the	1	LOT	226600.00	9.00	20304.00	9.00	20304.00	266208.00		9.00	0.00	9.00	0.00	0.00	266208.00	266208.00
				Total in Figures												12254934.53	40879915.11

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Appendix-1B(Service Part)

Sl. No.	Item Description	Quantity	Units	Unit Charges (in Rs.)	CGST Rate (in %)	CGST Amount (in Rs.)	SGST Rate (in %)	SGST Amount (in Rs.)	Unit Charges with Taxes (in Rs.)	Total Charges with Taxes (in Rs.)
1	2	3	4	5	8	9	10	11	12	13
1	Service Part									
2	Over Head Line work (Rates as per BSR)									
3	Check Survey as per approved route of line which includes-	1.500	KM	3570.00	9.00	321.30	9.00	321.30	4212.60	6318.90
4	Excavation:- Excavation, excluding back filling, including shoring, shuttering, dewatering etc. upto the required depth as per foundation specification / drawings.									
5	(i) Any soil soft rock other than Hard rock	560.00	CUM	438.00	9.00	39.42	9.00	39.42	516.84	289430.40
6	Setting of template & stub/ anchor bolt & removal after concreting, excluding cost of excavation and concreting but including back filling with excavated/ borrowed earth (with lead & lift) in layers with ramming and watering as per specification.									
7	Tower upto +9 mtr Extension	2	Nos	9330.00	9.00	839.70	9.00	839.70	11009.40	22018.80
8	CONCRETING: Providing and laying cement concrete for all types of foundation as per latest ISS:456 including cement, sand, stone aggregate 20 mm nominal size, water etc, preparing surfaces, shuttering, mixing, placing, ramming, curing, finishing as per specification and drawings.									
9	(i) 1:3:6 Mix (M-10)	11.00	CUM	8700.00	9.00	783.00	9.00	783.00	10266.00	112926.00
10	(ii) 1:1.5:3 Mix (M-20)	70.00	CUM	11553.00	9.00	1039.77	9.00	1039.77	13632.54	954277.80
11	Steel Reinforcement:									
12	Cutting, bending, welding of joints if required, fixing and placing of steel reinforcement as per specification and drawings including material.	6.00	MT	81600.00	9.00	7344.00	9.00	7344.00	96288.00	577728.00
13	Earthing:									
14	(A) Earthing of towers with pipe type earthing excluding the supply of pipes, wires, flats & connectors, but including coke/charcoal, etc. excavation, augering and back filling in all types of soil.	2	Set	2760.00	9.00	248.40	9.00	248.40	3256.80	6513.60
15	Erection of Towers:- Erection of super structures including D-shackles, ACD, Hangers, U-Bolts, step bolts, danger plate, phase plate, number plate etc. Also including tack welding of bolts & nuts upto bottom cross arm/beam level including application of Zinc Rich paint									
16	Tower upto +9 mtr Extension	20.00	MT	7440.00	9.00	669.60	9.00	669.60	8779.20	175584.00
17	Conductor Stringing:- Stringing of ACSR Pnather including hoisting of insulators string, laying, jointing & tensioning of conductor, clamping with armour rods & fixing of dampers.									
18	Single conductor	0.50	KM	18600.00	9.00	1674.00	9.00	1674.00	21948.00	10974.00
19	Install -OPGW Cable-H/W-Joint box (24 Fiber) (As per TN-73)	2	Nos	66300.00	9.00	5967.00	9.00	5967.00	78234.00	156468.00
20	DISMANTLING OF TOWERS Dismantling of super structures along with extensions having tack welded Bolts & Nuts, including removing of D shackles, hangers, U-Bolts, step bolts, ACD, Danger plate, number plate, Phase plate of tower including transportation from site to our store and stacking of all material									
21	(A) 132 KV and 220 KV S/C & D/C Towers (all Types)	8.00	MT	6333.00	9.00	569.97	9.00	569.97	7472.94	59783.52

22	DESTRINGING OF CONDUCTOR / EARTH WIRE									
23	(A) Destrining of ACSR Panther Conductor:- Dismantling of vibration damper and Armour Rods, removal of conductor from clamps and fittings in rollers, de-tensioning, de-hoisting of insulator string as required and collecting the material and depositing the same in our store and stacking									
24	(i) Single conductor	3.00	KM	21633.00	9.00	1946.97	9.00	1946.97	25526.94	76580.82
25	(ii) Destrining of OPGW (As per TN-73)	1.000	KM	73500.00	9.00	6615.00	9.00	6615.00	86730.00	86730.00
26	RESTRINGING OF CONDUCTOR / EARTH WIRE:-									
27	Restringing of ACSR Panther Conductor:- Dismantling of vibration damper and Armour Rods, fittings in rollers, de-tensioning, holding and lowering of conductor, de-hoisting of insulator string as required adding / removing and jointing of conductor, hoisting of insulator string lifting of conductor in roller and re-tensioning, jointing, fitting of armour rods and vibration dampers and clamping per route KM of the line section to be restrung dismantled material not re-used to be deposited in our store and stacked.									
28	(i) Single conductor ACSR Panther	1.00	KM	18330.00	9.00	1649.70	9.00	1649.70	21629.40	21629.40
29	(ii) OPGW(As per TN-73)	0.50	KM	63900.00	9.00	5751.00	9.00	5751.00	75402.00	37701.00
30	CABLE INSTALLATION WORK (Rates as per TN-73)									
31	Detailed Survey									
32	Surveying of cable route excavation of trial hole as per field requirement, prepration of cable route profile drawings etc.	0.900	Km	81900.00	9.00	7371.00	9.00	7371.00	96642.00	86977.80
33	Evaluation of Thermal Resistivity of soil along cable route.	1	LS	72900.00	9.00	6561.00	9.00	6561.00	86022.00	86022.00
34	Handling, Transportation to site and laying of 132 kV, Single Core, 500 Sq. mm XLPE Copper Cable as per foregoing specification requirements.	4.00	KM	180180.00	9.00	16216.20	9.00	16216.20	212612.40	850449.60
35	Establishing of Single circuit 3-Phase ckt. having 4 nos (3+1spare) 132kV single core, 500 sq. mm copper cable in trefoil formation alogwith pilot fiber cable, providing of Warning tape taging fixing, pipes for drain & gate crossing as per drawings and specifications in trench by pulling, drawing, etc. including cables, using standard cable installation equipments and as per directions of the engineer in charge and returning of unused items in Store.	1.000	KM	144135.00	9.00	12972.15	9.00	12972.15	170079.30	170079.30
36	Handling and making of Straight Through Joint for 132KV single core 500sq mm XLPE cable as per specification	4	Nos	81063.00	9.00	7295.67	9.00	7295.67	95654.34	382617.36
37	Handling and making of outdoor type cable end terminations for 132 kV single core power cable as per specification	8	Nos	108135.00	9.00	9732.15	9.00	9732.15	127599.30	1020794.40
38	Erection of Galvanized Steel Supporting Structures/ arrangement, Gantry structures, Ladders etc. for suitable and Safe terminations of XLPE cable from Termina; tower maintaining statutory clearances and safety as per IE rules for each phase.	2	SET	188685.00	9.00	16981.65	9.00	16981.65	222648.30	445296.60
39	Erection of Solid bonding Link box with Link plates, bonding & grounding cable complete with other associated accessories for 1-phase	8	Set	25200.00	9.00	2268.00	9.00	2268.00	29736.00	237888.00
40	Earthing Material including cast iron pipes with suitable clamps, charcol, common salt etc. complete set for each Cable Circuit(each having 3 core + 1spare)	2	Lot	96300.00	9.00	8667.00	9.00	8667.00	113634.00	227268.00
41	Terminal connector suitable for ACSR Panther to connect cable end termination to ACSR panther line	8	Nos	1233.00	9.00	110.97	9.00	110.97	1454.94	11639.52
42	Installation of 132KV Class of 120 KV rating LA with grading ring discharge counter with millimeter.	6	Nos	15300.00	9.00	1377.00	9.00	1377.00	18054.00	108324.00
43	Installation of Optical Fiber Cable alongwith XLPE cable and at the both ends	1.000	KM	91800.00	9.00	8262.00	9.00	8262.00	108324.00	108324.00
44	Retrofitting of protection relays (Line differantial cum distance - Numerical relay with optical interface).	2	Set	54540.00	9.00	4908.60	9.00	4908.60	64357.20	128714.40
45	Charges of conducting pre-commissioning tests as per specification and successful commissioning of circuits.	1	Lot	144441.00	9.00	12999.69	9.00	12999.69	170440.38	170440.38

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46	CIVIL WORKS									
47	Cutting Black Bitumen surface upto any depth including all layers of crust for laying Power Cables etc, staking of useful material and disposal of surplus debris including all leads including barricading, providing danger board/ diversion board, lighting, reflectors etc.	25.00	Sqm	144.00	9.00	12.96	9.00	12.96	169.92	4248.00
48	Horizontal Direct Drilling (Trenchless Digging) method (with 250 mm HDPE pipe of minimum 6PN and strength complying to relevant ISS) wherever open cut method cannot be adopted. (If required)									
49	Earth work in excavation for burried cable trenches/foundations including dressing of sides and ramming of bottoms, lift upto 2.5 mtr. including taking out the excavated soil & backfilling of jhiri with watering & ramming ,timbering & shoring (wherever required) disposal of surplus excavated soil as directed with all lead and lift including barricading, providing danger board/diversion board, lighting, reflectors etc.	1600.00	cum	342.00	9.00	30.78	9.00	30.78	403.56	645696.00
50	Providing and laying of Cement concrete including curing, etc using stone aggregate 40 mm nominal size (crusher broken) in foundation plinth, excluding the cost of shuttering using 1 cement: 4 sand: 8 stone aggregate (For equipment foundation, junction box etc.)	300.00	cum	999.00	9.00	89.91	9.00	89.91	1178.82	353646.00
51	P&L cement concrete in R.C.C. work in foundation, rafts,footings, strap beams, bases of columns etc.,including curing , compaction, finishing with rendering in cement sand mortar 1:3 (1cement :3 sand) and making good the joints, excl. the cost of centering and shuttering and reinforcement :M-20 grade mix 1:1.5:3 (1cement:1.5coarse sand : 3 graded stone aggregate 20 mm nominal size (For equipment foundation, junction box ,culvert etc.)	20.00	cum	81.00	9.00	7.29	9.00	7.29	95.58	1911.60
52	Brick wall works, if required	1	LS	144.00	9.00	12.96	9.00	12.96	169.92	169.92
53	Providing and fabricating steel reinforcement for R.C.C. work bending ,placing in position and binding complete including cost of binding wire in foundation ,raft footing ,strap beams base of column etc., up to plinth level hot rolled deformed (I.S.1139) cold twisted (I.S.1786)bars (For equipment foundation, junction box \ etc.)	20.00	kG	45.00	9.00	4.05	9.00	4.05	53.10	1062.00
54	Centering and shuttering with plywood or steel plates including strutting, propping bracing both ways with wooden members and removal of formwork for superstructure up to 4.5m height above plinth level for (For equipment foundation, junction box etc.)	150.00	sqmm	27.00	9.00	2.43	9.00	2.43	31.86	4779.00
55	Providing & Fixing of steel fabrication made of angles, tees, square bars or other flats black pipe with hold fast and fittings complete as per design @ drawing including cutting welding & fabrication with priming coat of redoxide.	20.00	kg	36.00	9.00	3.24	9.00	3.24	42.48	849.60
56	Providing,Laying & jointing RCC class NP-2 Non Pressure pipes (IS:458 Mark) of approved make with collars, jointed with CM 1:2 or having Spigot & socket ends with flexible rubber rings joint including testing of joints etc. complete: 450 mm D.	20.00	RM	135.00	9.00	12.15	9.00	12.15	159.30	3186.00
57	Providing & Fixing of Reinforced Ferro Cement Cable Trench Covers designed for 'A' & 'AA' loading duly marked on cover with adequate reinforcement having thickness 75mm to 100 mm anti corrosive bitumen painted MS plate Rim & MS lifting hooks admixtures like plasticizer bond -improving compound, shrinkage resistance compound, abrasion resistant complete as per approved design (For cable joint box) (For any span)	20.00	SQM	81.00	9.00	7.29	9.00	7.29	95.58	1911.60
58	Providing & Laying HDPE pipe heavy duty of approved make jointed with solvent cement									
59	(i) 250 mm dia.	30.00	RM	2430.00	9.00	218.70	9.00	218.70	2867.40	86022.00
60	HDPLE PLB Duct For Optical Fibre Cable	1.000	KM	45450.00	9.00	4090.50	9.00	4090.50	53631.00	53631.00
61	Supply and laying inter locking RCC cable covers as per approved drawing	720.00	SQM	243.00	9.00	21.87	9.00	21.87	286.74	206452.80
62	Supply, spreading of clean river sand/ M sand in the cable trench and cable joint pit as per specification.	380.00	CUM	999.00	9.00	89.91	9.00	89.91	1178.82	447951.60
63	Providing & Fixing Cable Route Marker along the route of cable at the spacing of 50 meter etc. as per drawing and site requirement.	25	NOS	1530.00	9.00	137.70	9.00	137.70	1805.40	45135.00
64	Add: Any other item bidder may require to complete the Civil works as per specification requirements	1	LOT	0.00	9.00	0.00	9.00	0.00	0.00	0.00
Total in Figures									2044332.30	8486151.72

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ANNEXURE-B

PRICE ADJUSTMENT PROVISIONS FOR LINES

1.0 GENERAL:

- 1.1 The Bidder shall quote base price for the ex-works price of the equipment/materials and erection price components. These price components paid by the Owner for certain equipment/materials, as specified, shall be subject to price adjustment to reflect changes in the cost of labour and material components as per the price adjustment provisions contained herein.
- 1.1 The ex-works components of Disc Insulators, Hardware Fittings and Line Accessories OPGW, earthwire, tower accessories such as danger plates, phase plates, number plates, anti climbing devices, pipe and counterpoise earthing, aviation signals/aids, bird guards etc. and other items not specifically mentioned below shall remain firm and no price adjustment, whatsoever, shall be applicable for the price component of these items. Further, prices for survey activity, type test, freight & insurance and other charges, if any, shall be firm and no price adjustment shall be applicable for these price components.
- 1.2 The ex-works prices of the main equipment viz., EHV XLPE Cable and Erection Price Component (including charges for civil works) shall be subject to price adjustment as per the details given hereunder.

2.0 FOREX-WORKS PRICE COMPONENT

- 2.1 The formula for calculating the price adjustment to be applied to the Ex-works price component of the main equipment will be as follows:

A. FOR EHV XLPE CABLES:

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Material Price Variation Clause for XLPE Insulated EHV Cables (66 kV to 500 KV)

The Price quoted/confirmed is based on the input cost of raw materials/components as on the date of quotation, and the same is deemed to be related to the prices of raw materials as specified in the price variation clause given below. In case of any variation in these prices, the price payable shall be subject to adjustment up or down in accordance with the formulae provided in this document.

Terms used in price variation formulae:

P Price payable as adjusted in accordance with above appropriate formula (in Rs/Km)
 Po Price quoted/confirmed (in Rs/Km)

1) Conductor Metal

MIF Variation factor for Conductor

MIF2 Price of Respective Conductor Material as below (from a to b); this price is as applicable on Two months prior to the date of delivery.

MIF1 Price of Respective Conductor Material as below (from a to b); this price is as applicable on One month prior to the date of tendering.

a) ALUMINIUM (Conductor)

AIF Variation factor for Aluminium

AI Price of Aluminium; this price is as applicable on Two months prior to the date of delivery.

Alo Price of Aluminium; this price is as applicable on One month prior to the date of tendering.

b) COPPER (Conductor)

CuF Variation factor for copper

Cu Price of CC Copper rods. This price is as applicable on Two months prior to the date of delivery.

Cuo Price of CC copper rods. This price is as applicable on One month prior to the date of tendering.

2) XLPE Compound

XL3 Variation factor for XLPE Compound

XLFAI Variation factor for XLPE Compound for Aluminium Conductor Cable

XLFCu Variation factor for XLPE Compound for Copper Conductor Cable

CC Price of XLPE Compound. This price is as applicable on Two months prior to the date of delivery.

Cco Price of XLPE Compound. This price is as applicable on One month prior to the date of tendering.

3) Polymer Compound

XLS Variation factor for Polymer Compound

CCFAI Variation factor for PE Compound for Aluminium Conductor Cable

CCFCu Variation factor for PE Compound for Copper Conductor Cable

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POC Price of Polymer Compound. This price is as applicable on Two months prior to the date of delivery.

POCo Price of Polymer Compound. This price is as applicable on One month prior to the date of tendering.

4) Metallic Screen / Sheath

SMIF Variation factor for Sheath/Screen material

SMIF2 Price of Respective Sheath/Screen Material as below (from a to d); this price is as applicable on Two months prior to the date of delivery.

SMIF1 Price of Respective Sheath/Screen Material as below (from a to d); this price is as applicable on One month prior to the date of tendering.

a) COPPER (Screen) : In Copper Wire Screen + PolyAl Construction

CuFc Variation factor for copper screen

Cu Price of CC copper rods. This price is as applicable on Two months prior to the date of delivery.

Cuo Price of CC copper rods. This price is as applicable on One month prior to the date of tendering.

b) COPPER (Screen) : In Lead Sheath Construction

CuFpb Variation factor for copper screen

Cu Price of CC copper rods. This price is as applicable on Two months prior to the date of delivery.

Cuo Price of CC copper rods. This price is as applicable on One month prior to the date of tendering.

c) LEAD : In Lead Sheath Construction

PbF Variation factor for Lead

Pb Price of Pig lead (99.97%). This price is as applicable on Two months prior to the date of delivery.

Pbo Price of Pig lead (99.97%). This price is as applicable on One month days prior to the date of tendering.

d) Corrugated Aluminium Sheath


AIFs Variation factor for corrugated Aluminium sheath

Al Price of Aluminium. This price is as applicable on Two months prior to the date of delivery.

Alo Price of Aluminium). This price is as applicable on One month prior to the date of tendering.

The above prices and indices are as published by IEEMA vide Circular reference IEEMA(PVC)/CABLE(R-1)/--/-- prevailing as on 1st working day of the month i.e. one month prior to the date of tendering.

The date of delivery is the date on which the cable is notified as being ready for inspection/dispatch (in the absence of such notification, the date of manufacturer's dispatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

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Notes

- (a) All prices of raw materials are exclusive of GST amount.
- (b) All prices excluding Aluminium & Copper are as on first working day of the month.
- (c) The details of prices are as under:
 1. Price of Aluminium is LME average Cash SELLER Settlement price of Primary Aluminium in per MT as published by London Metal Bulletin (LME) including Premium for Aluminium in US\$ per MT is converted in Indian Rs./MT.
 2. Price of CC copper rods (in Rs/MT) is ex-works price as quoted by the primary producer.
 3. Price of Pig lead (in Rs/MT) is ex-works price as quoted by the primary producer.
 4. Price of Polymer Compound (in Rs/MT) is the ex-work price, as quoted by the manufacturer.
 5. Price of XLPE Compound (in Rs/MT) is the ex-works price, as quoted by the manufacturer.

PV Formulae

- a) **For Aluminium /copper Conductor XLPE insulated copper wire screen + polyal PE/PVC sheathed cables**

$$P = P_o + MIF (MIF2 - MIF1) + XL3 (CC-Cco) + SMIF (SMIF2-SMIF1) + XL5 (POC - POC_o)$$

Table references:-

Table 1 (MIF) : Aluminium Conductor AIF / Copper Conductor CuF

Table 2 (XL3) : Aluminium Conductor XLFAI / Copper Conductor XLFCu

Table 3a (SMIF) : Copper Wire Screen in Copper Wire Screen + Polyal Construction (CUFc)

Table 4 (XL5) : Aluminium Conductor CCFAl / Copper Conductor CCFCu

Note:

For cases where Short Circuit Current through Screen/Sheath is required & is not available in Reference Tables, in that case Screen/Sheath area as approved by the customer in Datasheet Short Circuit Current calculation of Screen/Sheath shall be used to derive SMIF as below:

If A= Area of Metallic Screen/Sheath in Approved Datasheet / Calculation Sheet

D= Density= 8.89 for Cu

$$SMIF=(A*D)/1000$$

- b) **For Aluminium /Copper Conductor XLPE insulated copper wire screen +Lead metallic sheathed PE/PVC sheathed cables**

$$P = P_o + MIF (MIF2 - MIF1) + XL3 (CC-Cco) + SMIF_{PbF} (SMIF2-SMIF1) + SMIF_{CuFpb} (SMIF2-SMIF1) + XL5 (POC - POC_o)$$

Table references:-

Table 1 (MIF) : Aluminium Conductor AIF / Copper Conductor CuF

Table 2 (XL3) : Aluminium Conductor XLFAI / Copper Conductor XLFCu

Table 3c (SMIF) : Lead in Lead Sheath Construction PbF

Table 3d (SMIF) : Copper wire screen in Lead Sheath Construction CuFpb

Table 4 (XL5) : Aluminium Conductor CCFAl / Copper Conductor CCFCu

Note:

For cases where Short Circuit Current through Screen/Sheath is required & is not available in the Reference Tables, in that case Screen/Sheath area as approved by the customer in Datasheet / Short Circuit Current calculation of Screen/Sheath shall be used to derive SMIF as below:

If A= Area of Metallic Screen/Sheath in Approved Datasheet / Calculation Sheet

D= Density= 8.89 for Cu & 11.3 for Pb

SMIF=(A*D)/1000

c) For Aluminium /Copper Conductor XLPE insulated Corrugated Aluminium metallic sheathed PE/PVC sheathed cables

$P = P_o + MIF (MIF2 - MIF1) + XL3 (CC-Cco) + SMIF (SMIF2-SMIF1) + XL5 (POC - POCco)$

Table references:-

Table 1 (MIF) : Aluminium Conductor AIF / Copper Conductor CuF

Table 2 (XL3) : Aluminium Conductor XLFAI / Copper Conductor XLFCu

Table 3b (SMIF) : Corrugated Aluminium in CAS Construction AIFs

Table 4 (XL5) : Aluminium Conductor CCFAI / Copper Conductor CCFCu

Note:

For cases where Short Circuit Current through Screen/Sheath is required & is not available in the Reference Tables, in that case Screen/Sheath area as approved by the customer in Datasheet / Short Circuit Current calculation of Screen/Sheath shall be used to derive SMIF as below:

If A= Area of Metallic Screen/Sheath in Approved Datasheet / Calculation Sheet

D= Density= 2.703 for Al

SMIF=(A*D)/1000

FORERECTION (INCLUDING CIVIL WORKS) PRICE COMPONENT

2.2 The formula for calculation of the monthly price adjustments for Erection (including civil works) price component shall be as under:

i. **For Erection price component {including civil works but excluding 'supply & placement of reinforcement steel', 'concreting', survey and aviation signal (if any)}**

$$ER_1 = ER_0 [0.20 + 0.22 (A_1/A_0) + 0.58 (L_1/L_0)] - ER_0$$

Where,

ER₁ = Price adjustment amount payable on erection price component excluding supply & placement of steel and concreting.

ER₀ = Value of erection work done (excluding supply & placement of steel and concreting) in billing period as established by Contract.

A = Rate for Diesel Oil as published by Indian Oil Corporation which has jurisdiction over the place of work.

L = Indian field Labour index-namely All India Consumer Price Index for industrial workers as published by Labour Bureau, Shimla (Govt. of India).

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ii. **For Supply and placement of reinforcement steel:**

$$ER_1 = ER_0 [0.20 + 0.10(A_1/A_0) + 0.05 (L_1/L_0) + 0.65(B_1/B_0)] - ER_0$$

Where,

ER₁ = Price adjustment amount payable on price components of Supply and Placement of Steel.

ER₀ = Value of supply & placement of steel in billing period as established by Contract.

A = Rate for Diesel Oil as published by Indian Oil Corporation has jurisdiction over the place of work.

L = Indian field Labour index-namely All India Consumer Price Index for industrial workers as published by Labour Bureau, Shimla (Govt. of India).

B = Whole sale Price Index number for 'Ferrous Metals' (Group Item) (monthly) (Base 2004-05=100) as published by office of Economic Advisor, Ministry of Commerce & Industry on their website www.eaindustry.nic.in.

iii. **For Concreting:**

$$ER_1 = ER_0 [0.20 + 0.20 (A_1/A_0) + 0.10 (L_1/L_0) + 0.30 (B_1/B_0) + 0.20 (C_1/C_0)] - ER_0$$

Where,

ER₁ = Price adjustment amount payable on price components of concreting.

ER₀ = Value of concreting in billing period as established by Contract.

A = Rate for Diesel Oil as published by Indian Oil Corporation has jurisdiction over the place of work.

L = Indian field Labour index-namely All India consumer price index for industrial workers as published by Labour Bureau, Shimla (Govt. of India).

B = Whole sale Price Index number for 'Cement & Lime' (Group Item) (monthly) (Base 2004-05=100) as published by office of Economic Advisor, Ministry of Commerce & Industry on their website www.eaindustry.nic.in

C = Whole sale Price Index numbers for 'Structural Clay Products' (Group Item) (monthly) (Base 2004-05=100) as published by office of Economic Advisor, Ministry of Commerce & Industry on their website www.eaindustry.nic.in

3.2 In the above price adjustment formulae, subscript '0' refers to indices as applicable on 30 days prior to date of bid opening (referred to as base date indices) and subscript '1' will correspond to billing period (billing period as defined at para 4.0).

3.0 The above price adjustment provision shall be invoked by either party subject to the following further conditions:

a) **For the Purpose of Price Adjustment,**

(i) **On Supply Prices :**

For the purpose of price adjustment (including spares), the date of despatch means the date on which the material is notified as being ready for inspection (date of receipt of



inspection call by Nigam), scheduled date of erection and actual date of erection whichever is beneficial to the Nigam. Further, no price increase shall be allowed beyond the original erection date unless specifically stated in the Time Extension Letter, if any, issued by the Owner. The Owner will, however, be entitled to any decrease in the Contract Price which may be caused due to lower price adjustment amount in case of erection of Goods beyond the original date. Therefore, in case of erection of Goods beyond the original date, the liability of the Owner shall be limited to the lower of the price adjustment amount which may work out either on date on which the material is notified as being ready for inspection (date of receipt of inspection call by Nigam) or schedule date of erection and actual date of erection.

(ii) On Erection Charges (Including Civil Works):

For the purpose of price adjustment, the billing period shall mean the billing period as per Contract time schedule i.e., the agreed Bar Chart or actual period, whichever is beneficial to the Nigam. The Billing period for various erection activities will be as per agreed erection Bar Chart indicating monthly schedule of erection activities for completion of works. Further, no price increase shall be allowed beyond the original erection dates unless specifically stated in the Time Extension letter, if any, issued by the Owner. The Owner will, however, be entitled to any decrease in the Contract Price which may be caused due to lower price adjustment amount in case of delays beyond the original erection dates. Therefore, in case of delays beyond the original erection dates, the liability of the Owner shall be limited to lower of the price adjustment amount which may work out either on schedule date or actual date of erection (including civil works).

b) Price Adjustment Ceiling:

1. Ex-Works Component:

The total adjustment for EHV XLPE Cables shall not be subject to any ceiling whatsoever individually of the respective Ex-works prices of EHV XLPE Cable.

2. Erection Price Component:

The total price adjustment for Erection (including charges for civil works) Price Component shall not be subject to any ceiling whatsoever.

- c) In case IEEMA does not publish any of the price indices, as mentioned above, the Bidder shall indicate any nationally recognized published index for respective items and the source of the same shall be furnished in the Bid.
- d) In case of non-publication of applicable indices on a particular date, which happens to be the applicable date for Price Adjustment purposes, the published indices prevailing immediately prior to the particular date shall be applicable.
- e) If the Price Adjustment amount works out to be positive, the same is payable to the Contractor by the Owner and if it works out to be negative, the same is to be recovered by the Owner from the Contractor.
- f) The Contractor shall promptly submit price adjustment invoices on monthly basis, whether such adjustment is positive or negative.

NOTE: In case IEEMA changes the applicable formula for Price Variation and issue guideline for adopting the same during currency of contract, the new formula and guideline shall be adopted.



Appendix-III(Supply)

1	Over Head Line Material		
2	Stub & Super structure of 220 kv D/C Narrow Base with stub and Cleat for termination of XLPE cable		
3	Stub	Sets.	131397.7
4	TTD	Nos.	1212616
5	ACSR Panther conductor	KM	211491.4
6	Single tension hardware Panther	Sets.	3778.36
7	Vibration damper	Nos.	941.99
8	H/W Set -24Fiber OPGW Cable	Sets.	75532.98
9	Joint Box (24Fiber) OPGW	Nos.	9528.5
10	Insulators- 120 KN	Nos.	876.74
11	70KN	Nos.	579.38
12	G.I. Nut-Bolt assorted size as per requirement & technical specification	MT.	154316.9
13	G.I. Step bolts of size M16X175mm	MT.	24925.73
14	Electro Galvanised Spring Washer M16 B type	MT.	39277.01
15	Earthing Set- Pipe type	Sets.	3976.6

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16	Number plate	Nos.	313.88
17	Phase plate	Sets.	239.54
18	Danger plate	Nos.	337.48
19	Under ground cable Material		
20	132 kV, Single core, 500 sq. mm XLPE Copper Cable as per foregoing specification requirements	Km	7493037
21	145KV Premould XLPE Straight Through Joint	Nos.	239151.8
22	145 kV rated voltage premolded outdoor end termination kit complete with accessories suitable for the above underground cable and suitable for termination in Outdoor Switchyard as per the requirement of foregoing specification	Nos.	273843.8
23	Solid bonding Link box with Link plates, bonding & grounding cable complete with other associated accessories for I-phase	Nos.	77644
24	Galvanized Steel Supporting Structures/ arrangement, gentry structure, ladders etc alongwith clamps, connectors, nut-bolts, washers, foundation bolts etc. for suitable and safe termination of XLPE cable from terminal tower/s maintaining statutory clearances and safety as per IE rules	SETs.	237928.1
25	Earthing Material including cast iron pipes with suitable clamps, charcoal, common salt etc. complete set for each Cable Circuit(each having 3 core)	Sets.	60426.62
26	Cable end Terminal connector suitable for ACSR Panther on the item No. 3 to connect cable end termination to ACSR panther Line	Nos.	5551.9
27	Warning Tapes as per Specification	Km	42298.28
28	Optical Fiber Cable and associated accessories / items as per specification	KM	180587.2
29	132 kV class of 132 kV rating LA with grading ring, discharge counter with Millimeter	Nos.	70585.24
30	Line differential cum distance - Numerical relay with optical interface	Nos.	601835.4
31	Add: Any other item bidder may require to complete the Cable System as per specification requirements	LOT	0

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Appendix-III
Service

Sl No	Description of Work / Item	Units	Latest Service Rate
1	Service Part		
2	Over Head Line work (Rates as per BSR)		
3	Check Survey as per approved route of line which includes-	KM	4212.6
4	Excavation:- Excavation, excluding back filling, including shoring, shuttering, dewatering etc. upto the required depth as per foundation specification / drawings.		
5	(i) Any soil soft rock other than Hard rock	CUM	385.86
6	Setting of template & stub/ anchor bolt & removal after concreting, excluding cost of excavation and concreting but including back filling with excavated/ borrowed earth (with		
7	Tower upto +9 mtr Extension	Nos	11009.4
8	CONCRETING: Providing and laying cement concrete for all types of foundation as per latest ISS:456 including cement, sand, stone aggregate 20 mm nominal size, water etc,		
9	(i) 1:3:6 Mix (M-10)	CUM	8477.12
10	(ii) 1:1.5:3 Mix (M-20)	CUM	13101.54
11	Steel Reinforcement:		
12	Cutting, bending, welding of joints if required, fixing and placing of steel reinforcement as per specification and drawings including material.	MT	23120.92
13	Earthing:		
14	(A) Earthing of towers with pipe type earthing excluding the supply of pipes, wires, flats & connectors, but including coke/charcoal, etc. excavation, augering and back filling in	Set	3256.8
15	Erection of Towers:- Erection of super structures including D-shackles, ACD, Hangers, U-Bolts, step bolts, danger plate, phase plate, number plate etc. Also including tack welding of		
16	Tower upto +9 mtr Extension	MT	8779.2
17	Conductor Stringing:- Stringing of ACSR Pnather including hoisting of insulators string, laying, jointing & tensioning of conductor, clamping with armour rods & fixing of dampers.		
18	Single conductor	KM	21948
19	Install -OPGW Cable-HW-Joint box (24 Fiber) (As per TN-73)	Nos	18496.5

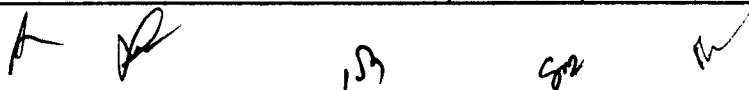
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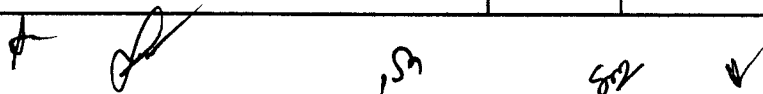
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20	DISMANTLING OF TOWERS Dismantling of super structures along with extensions having tack welded Bolts & Nuts, including removing of D shackles, hangers, U-Bolts,		
21	(A) 132 KV and 220 KV S/C & D/C Towers (all Types)	MT	7472.94
22	DESTRINGING OF CONDUCTOR / EARTH WIRE		
23	(A) Destringing of ACSR Panther Conductor:- Dismantling of vibration damper and Armour Rods, removal of conductor from clamps and fittings in rollers, de-tensioning, de-hoisting		
24	(i) Single conductor	KM	25526.94
25	(ii) Destringing of OPGW (As per TN-73)	KM	15413.16
26	RESTRINGING OF CONDUCTOR / EARTH WIRE:-		
27	Restringing of ACSR Panther Conductor:- Dismantling of vibration damper and Armour Rods, fittings in rollers, de-tensioning, holding and lowering of conductor, de-hoisting of		
28	(i) Single conductor ACSR Panther	KM	21629.4
29	(ii) OPGW(As per TN-73)	KM	15413.75
30	CABLE INSTALLATION WORK		
31	Detailed Survey		
32	Surveying of cable route excavation of trial hole as per field requirement, preparation of cable route profile drawings etc.	Km	62425.42
33	Evaluation of Thermal Resistivity of soil along cable route.	LS	30827.5
34	Handling, Transportation to site and laying of 132 kV, Single Core, 500 Sq. mm XLPE Copper Cable as per foregoing specification requirements.	KM	212612.4
35	Establishing of Single circuit 3-Phase ckt. having 4 nos (3+1spare) 132kV single core, 500 sq. mm copper cable in trefoil formation alongwith pilot fiber cable, providing of	KM	170079.3
36	Handling and making of Straight Through Joint for 132KV single core 500sq mm XLPE cable as per specification	Nos	95654.34
37	Handling and making of outdoor type cable end terminations for 132 kV single core power cable as per specification	Nos	127599.3
38	Erection of Galvanized Steel Supporting Structures/ arrangement, Gantry structures, Ladders etc. for suitable and Safe terminations of XLPE cable from Termina; tower	SET	154136.32
39	Erection of Solid bonding Link box with Link plates, bonding & grounding cable complete with other associated accessories for 1-phase	Set	9247.66
40	Earthing Material including cast iron pipes with suitable clamps, charcol, common salt etc. complete set for each Cable Circuit(each having 3 core + 1spare)	Lot	61655



41	Terminal connector suitable for ACSR Panther to connect cable end termination to ACSR panther line	Nos	925.12
42	Installation of 132KV Class of 120 KV rating LA with grading ring discharge counter with millimeter.	Nos	15413.16
43	Installation of Optical Fiber Cable alongwith XLPE cable and at the both ends	KM	92481.32
44	Retrofitting of protection relays (Line differantial cum distance - Numerical relay with optical interface).	Set	15413.16
45	Charges of conducting pre-commissioning tests as per specification and successful commissioning of circuits.	Lot	77068.16
46	CIVIL WORKS		
47	Cutting Black Bitumen surface upto any depth including all layers of crust for laying Power Cables etc. staking of useful material and disposal of surplus debries including all leads	Sqm	169.92
48	Horizontal Direct Drilling (Trenchless Digging) method (with 250 mm HDPE pipe of minimum 6PN and strength complying to relevant ISS) wherever open cut method		
49	Earth work in excavation for burried cable trenches/foundations including dressing of sides and ramming of bottoms, lift upto 2.5 mtr. including taking out the	cum	369.34
50	Providing and laying of Cement concrete including curing, etc using stone aggregate 40 mm nominal size (crusher broken) in foundat- ion plinth, excluding the cost of	cum	1178.82
51	P&L cement concrete in R.C.C. work in foundation, rafts,footings, strap beams, bases of columns etc.,including curing , compaction, finishing with rendering in cement sand	cum	95.58
52	Brick wall works, if required	LS	169.92
53	Providing and fabricating steel reinforcement for R.C.C. work bending ,placing in position and binding complete including cost of binding wire in foundation ,raft footing ,strap	kG	53.1
54	Centering and shuttering with plywood or steel plates including strutting, propping bracing both ways with wooden members and removal of formwork for superstructure up to	sqmm	31.86
55	Providing & Fixing of steel febrication made of angles, tees, square bars or other flats black pipe with hold fast and fittings complete as per design @ drawing including cutting	kg	42.48
56	Providing,Laying & Jointing RCC class NP-2 Non Pressure pipes (IS:458 Mark) of approved make with collars, jointed with CM 1:2 or having Spigot & socket ends with flexible	RM	159.3
57	Providing & Fixing of Reinforced Ferro Cement Cable Trench Covers designed for 'A' & 'AA' loading duly marked on cover with adequate reinforcement having thickness	SQM	95.58
58	Providing & Laying HDPE pipe heavy duty of approved make jointed with solvent cement		
59	(i) 250 mm dia.	RM	2158.22
60	HDPLE PLB Duct For Optical Fibre Cable	KM	53631
61	Supply and laying inter locking RCC cable covers as per approved drawing	SQM	286.74



62	Supply, spreading of clean river sand/ M sand in the cable trench and cable joint pit as per specification.	CUM	1178.82
63	Providing & Fixing Cable Route Marker along the route of cable at the spacing of 50 meter etc. as per drawing and site requirement.	NOS	1805.4
64	Add: Any other item bidder may require to complete the Civil works as per specification requirements	LOT	0






Manufacturer:- KEI Industries Ltd.

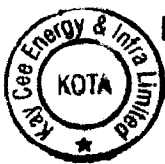
Customer :- RRVNPL

Tender Reference No.:- RVPN/EHV/ASP/TN-115

KEI Ref. No.:- KEI/DEL/23-24/EHV-EHV-TG060

KEI**Guaranteed Technical Particulars for 500 SQMM 132 KV Cable**

S.No.	Description	Technical Particular
S-IA	132 KV XLPE CABLE	132kV x 1C x 500 Sqmm
1	Name of the Manufacturer	KEI INDUSTRIES LIMITED, NEW DELHI
2	Country of Manufacture	INDIA
3	Type of cable	2XA2Y (Copper conductor , XLPE insulated, Corrugated Aluminium & overall HDPE sheathed cable)
4	Applicable Standard	General confirming to IEC:60840/ 7098 P-3
5	(a) Rated Nominal Voltage	132KV
	(b) Rated Maximum Voltage	145KV
6	Whether Suitable for	
	(a) Earthed System	Yes
	(b) Unearthed System	No
7	Nominal Cross Sectional area of conductor (sq.mm)	500
8	Conductor	
(a)	Material	Plain annealed Copper conductor as per class 2 of IEC:60228 (Water tightness shall be achieved by providing the non conducting water Swellable tape at each layer of stranding)
(b)	Shape & Formation	Stranded Compacted Circular
(c)	Diameter of Conductor(mm)	26.6 +/- 0.6 mm (Nominal)
	i) No. of Strands(wire) in Conductor	As per IEC:60840
(d)	ii) Nominal diameter of each inlet wire in conductor before compacting	Suitably selected to meet class-2 requirements of IEC: 60228
(e)	Thickness of semi conducting tape(mm)	0.10 mm (Nominal)
9	Conductor Screen	
(a)	Material	Extruded Semi conducting Compound
(b)	Minimum / Nominal Thickness (mm)	1.0 minimum / 1.30 nominal
(c)	Maximum Volume resistivity (at 25 degree centigrade) before and after ageing (Ohm-cm)	100000
10	Maximum value of the electric stress at the conductor screen (calculation to be shown separately) (KV/mm)	6.44 (Nominal)
11	Insulation	
(a)	Material/Composition	Extruded XLPE Compound
(b)	Dia of cable over the insulation (mm)	65.8 +/- 1.5 mm (Nominal diameter over XLPE Insulation)



For Kay Cee Energy & Infra Limited

Lotkesh Kumar
Director



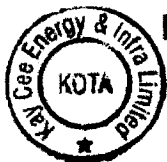
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Manufacturer:- KEI Industries Ltd.
 Customer :- RRVPNL
 Tender Reference No.:- RVPN/EHV/ASP/TN-115
 KEI Ref. No.:- KEI/DEL/23-24/EHV-EHV-TG060



Guaranteed Technical Particulars for 500 SQMM 132 KV Cable

S.No.	Description	Technical Particular
	Radial thickness	
(c)	i) Minimum Average (mm)	18.0 (Nominal)
	ii) Minimum at any point. (mm)	16.2 (Minimum)
(d)	Maximum dielectric stress (KV/mm)	2.92 (Nominal) at insulation surface
12	Maximum dielectric stress at the insulation (KV/mm)	2.92 (Nominal) at insulation surface
13	Insulation screen	
(a)	Material	Extruded semiconducting compound
(b)	Nominal Thickness (mm)	0.80 minimum / 1.0 nominal
(c)	Maximum Volume resistivity (at 25 degree c) Ohm-cm	50000
14	Swellable type water blocking semi- conducting tape	
(a)	Material	Synthetic non woven semiconducting water swellable tape & foam tape
(b)	Approximate thickness (mm)	0.30 & 1.50 (Nominal)
15	Metallic Sheath	
	i) Material	Corrugated Aluminium Sheath (Seam welded)
	ii) Constructional feature	Annular Type
(a)	iii) thickness of the sheath (Radial) (mm)	2.0 nominal
	iv) Diameter of cable across metallic sheath	85.0 (Nominal) (Over Corrugated Aluminium Sheath)
	Concentric copper wire screen	Not applicable
	i) Material and type	Not applicable
(b)	ii) Min. Copper screen area(sq.mm)	Not applicable
	iii) Nominal Diameter	Not applicable
	iv) Thickness of copper tape	Not applicable
(c)	Symmetrical short circuit rating for one second duration for lead sheath and copper screen combined	≥ 40 Kamps for 1 second for Corrugation Aluminium sheath (Calculation enclosed)
	Anticorrosion layer over Aluminium corrugation	Bitumin layer followed by textile tape
16	External Overall sheath	
(a)	Material & type	Extruded Black HDPE Type ST-7 Compound with antirodent and termite
(b)	Nominal Thickness (mm)	3.60
(c)	Spark test voltage at works (6e KV)	Not applicable since the conductive layer is extruded along the outer sheath



For Kay Cee Energy & Infra Limited

Lokesh Kumar
 Director



Manufacturer:- KEI Industries Ltd.
 Customer :- RRVPNL
 Tender Reference No.:- RVPN/EHV/ASP/TN-115
 KEI Ref. No.:- KEI/DEL/23-24/EHV-EHV-TG060



Guaranteed Technical Particulars for 500 SQMM 132 KV Cable

S.No.	Description	Technical Particular
	Embossing on the outer sheath	KEI 76/132KV 1C x 500 SQMM Year of Mfg. RVPNL
	Sequential length marking over the outer sheath (spacing between one set of marking and the beginning of the next on the legend shall not exceed 150 mm)	Shall be provided @ every one meter by printing
17	Tolerance on thickness of overall sheath if any (mm)	As per IEC:60840
18 (a)	Conductive layer over PE/PVC sheath	Extruded semiconducting layer shall be provided
(b)	Thickness of conductive layer (mm)	0.30 mm for extruded semiconducting layer
(c)	Whether suitable chemical added in outersheathing (c.) compound for protection against termite	Yes, Chemical additives shall be provided in the outer sheath
19	Approximate overall dia of cables(mm)	94.5 +/- 3 mm
20	Min. cable bending radius	
(a)	For pulling	25 X D, Where D is the overall diameter of the cable
(b)	Below terminals	25 X D, Where D is the overall diameter of the cable
21	Permissible maximum Pulling tension in cable (Kg)	25KN
22	Max. safe continuous operating volatage (KV)	145KV

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13



For Kay Cee Energy & Infra Limited

Lokesh Kumar
 Director



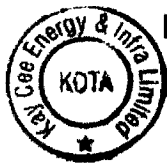
Manufacturer:- KEI Industries Ltd.
 Customer :- RRVPNL
 Tender Reference No.:- RVPN/EHV/ASP/TN-115
 KEI Ref. No.:- KEI/DEL/23-24/EHV-EHV-TG060



Guaranteed Technical Particulars for 500 SQMM 132 KV Cable

S.No.	Description	Technical Particular
23	Rated Current	
(a)	In air (Amps)	716 Amps (Conductor Temp.- 90 Deg. C, Single Ckt, Trefoil Formation, Air Temperature: 50 Deg.C, Shaded, Both End Bonding, Shaded to Sun)
(b)	In ground (Amps)	450 (Single Ckt, Trefoil Formation, Depth of laying: 1.5 mt from top of cable, Soil Temperature: 35 Deg.C, Soil Thermal Resistivity: 1.5 K.m/W, Both End Bonding, Conductor Temp: 83.6 Deg C)
24	i) Continuous current rating under the specified installation and operating conditions. Conductor temperature 90 Deg.C and 70 Deg. C Ground temperature 35 Deg. C and depth of laying 1500 mm	
(a)	in Ground at 35 deg c (amp) - Single Circuit	477 A (Conductor Temp.- 90 Deg. C) / 385 A (Conductor Temp.- 70 Deg. C) (Trefoil Formation, Depth of laying: 1.5 meter from top of the trefoil, Soil Temperature: 35 Deg.C, Soil Thermal Resistivity: 1.5 K.m/W, Both End Bonding)
	in Ground at 35 deg c (amp) - Double Circuit	411 A (Conductor Temp.- 90 Deg. C) / 332 A (Conductor Temp.- 70 Deg. C) (Trefoil Formation, Depth of laying: 1.5 meter from top of the trefoil, Soil Temperature: 35 Deg.C, Soil Thermal Resistivity: 1.5 K.m/W, Both End Bonding, Circuit to circuit distance- 800 mm)
(b)	In air (amp) at 50 deg c (shaded portion)	716 A (Conductor Temp.- 90 Deg. C) / 493 A (Conductor Temp.- 70 Deg. C) (Trefoil Formation, Air Temperature: 50 Deg.C, Shaded to Sun, Both End Bonding)

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For Kay Cee Energy & Infra Limited

Lokesh Kumar
Director

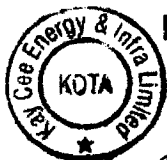


Manufacturer:- KEI Industries Ltd.
 Customer :- RRVPNL
 Tender Reference No.:- RVPN/EHV/ASP/TN-115
 KEI Ref. No.:- KEI/DEL/23-24/EHV-EHV-TG060



Guaranteed Technical Particulars for 500 SQMM 132 KV Cable

S.No.	Description	Technical Particular
	ii) Continuous current rating under the specified installation and operating conditions. Conductor temperature 90 Deg.C and 70 Deg. C Ground temperature 30 Deg. C and depth of laying 1500 mm	
(a)	in Ground at 30 deg c(amp) - Single Circuit	498 A (Conductor Temp.- 90 Deg. C) / 412 A (Conductor Temp.- 70 Deg. C) (Trefoil Formation, Depth of laying: 1.5 meter from top of the trefoil, Soil Temperature: 30 Deg.C, Soil Thermal Resistivity: 1.5 K.m/W, Both End Bonding)
	in Ground at 30 deg c(amp) - Double Circuit	430 A (Conductor Temp.- 90 Deg. C) / 355 A (Conductor Temp.- 70 Deg. C) (Trefoil Formation, Depth of laying: 1.5 meter from top of the trefoil, Soil Temperature: 30 Deg.C, Soil Thermal Resistivity: 1.5 K.m/W, Both End Bonding, Circuit to circuit distance- 800 mm)
(b)	In air (amp) at 50 deg c	716 A (Conductor Temp.- 90 Deg. C) / 493 A (Conductor Temp.- 70 Deg. C) (Trefoil Formation, Air Temperature: 50 Deg.C, Shaded to Sun, Both End Bonding)
	(iii) Maximum permissible current for cable that can be overloaded without exceeding conductor temperature of 100 Degree c	514 Amps (Single circuit) (Trefoil Formation, Depth of laying: 1.5 mtr from top of the trefoil, Soil Temperature: 35 Deg.C, Soil Thermal Resistivity: 1.5 K.m/W, Both End Bonding, Conductor Temperature: 100 Deg C)
25	Maximum permissible conductor temperature for continuous operation under the specified and installation conditions (C)	90 Deg C
26	Temperature of Conductor at rated current (° C)	83.6 Deg C at 450 Amps
27	Basic impulse level at conductor temperature of 90 °C (KV)	650
28	Impulse wave shape (KV)	As per IEC:60840
29	Power frequency withstand voltage	190 KV for 30 minutes
30	Ionization factor at 50 Hz (Tan Delta)	0.001
31	Nominal potential gradient at conductor surface (KV/cm)	64.4
32	Minimum potential gradient at conductor surface (KV/cm)	NA
33	Sheath voltage under maximum operating conditions assuming all circuits connected (KV/km)	Since, both end bonding is considered. Hence, sheath voltage is not applicable.



For Kay Cee Energy & Infra Limited

Lokesh Kumar
 Director



153

Manufacturer:- KEI Industries Ltd.
 Customer :- RRVPNL
 Tender Reference No.:- RVPN/EHV/ASP/TN-115
 KEI Ref. No.:- KEI/DEL/23-24/EHV-EHV-TG060



Guaranteed Technical Particulars for 500 SQMM 132 KV Cable

S.No.	Description	Technical Particular
34	Withstand voltage of sheath covering when spark tested (sheath continuity test)	6KV/mm AC or 9KV/mm DC subjected to max. 15KV AC & 25KV DC respectively
35	Permissible short circuit current for interruption	Permissible short circuit current for metallic sheath (Corrugated Aluminium Sheath)
(a)	0.1 sec (KA)	127.0
(b)	0.2 sec (KA)	90.8
(c)	0.5 sec (KA)	58.6
(d)	1.0 sec (KA)	42.4
36	Conductor maximum D.C./A.C resistance per 1000 metre lengths:	
(a)	at 20 ^o C (ohm/Km)	0.0366/0.0394
(b)	at 90 ^o C (ohm/Km)	0.04667/0.0489
(c)	at 10% continuous overload (ohm/Km)	0.0485/0.0507 (at 524 Amps)
37	Equivalent star resistance at 50 Hz. Per 1000 Metre length of 3 phase current	
(a)	at 20 ^o C (ohm/Km)	0.0394
(b)	at 90 ^o C (ohm/Km)	0.0489
(c)	at 10% continuous overload (ohm/Km)	0.0507 (at 524 Amps)
38	Star reactance at 50 Hz per 1000 metre length (ohm/Km)	0.1389
39	Impedance at 50 Hz per 1000 metre length	
(a)	at 20 ^o C (ohm/Km)	0.0394+/-j0.1389
(b)	at 90 ^o C (ohm/Km)	0.0489+/-j0.1389
(c)	at 10% continuous overload (ohm/Km)	0.0507+/-j0.1389 (at 524 Amps)
40	Positive and negative sequence reactance per 1000 metre length (ohm)	0.0489+/-j0.1389 ohm/Km
41	Zero sequence data per 1000 metre length	
(a)	Series resistance (ohm)	0.0948 ohm/Km
(b)	Series reactance (ohm)	0.05441 ohm/Km
(c)	Shunt capacitive reactance (ohm)	18198 ohm/Km
42	Sheath resistance at 20 deg.C per 1000 metre length (ohm/Km)	0.0569 (DC Resistance of Sheath @ 20 ^o C)
43	Surge impedance of cable in ohms.	50.2



For Kay Cee Energy & Infra Limited

Lokesh Kumar
 Director



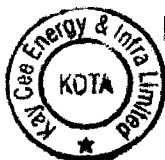
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Manufacturer:- KEI Industries Ltd.
 Customer :- RRVPNL
 Tender Reference No.:- RVPN/EHV/ASP/TN-115
 KEI Ref. No.:- KEI/DEL/23-24/EHV-EHV-TG060



Guaranteed Technical Particulars for 500 SQMM 132 KV Cable

S.No.	Description	Technical Particular
44	Self electrostatic capacitance per 1000 metres length (micro farads/Km)	0.175 (Nominal)
45	Dielectric dissipation factor at rated voltage	0.001
46	I.R value at ambient temperature per 1000 metres length (ohm-cm)	Insulation Resistance shall be measured at ambient temp. during inspection / Acceptance Test. Typical value shall be > 50 G-ohm at 5 kV.
47	P.F. at conductor temperature of 90 deg.C and at	
(a)	50% of rated phase to neutral voltage	Max. 0.001 at U_0
(b)	100% of rated phase to neutral voltage	Max. 0.001 at U_0
48	Guaranteed losses per 1000 metres length: (detailed working sheet should be furnished.)	Corresponding to current 450 Amps at Conductor Temperature 90 Deg. C, Ground Temperature 35 deg.C, Both End Bonding, Single circuit in Burried Ground
(a)	Dielectric losses per phase at rated voltage and rated current (KW)	0.32 W/m/phase
(b)	Copper losses per phase at rated voltage and rated current (KW)	9.90 W/m/phase
(c)	Other losses(sheath/screen/ phase at rated voltage and rated current (KW)	5.32 W/m/phase
(d)	Losses due to reinforcement if any (KW)	"0" as there is no any reinforcement in cable
(e)	Total losses at rated continuous current (KW) per km per phase	15.54 W/m/phase
49	Short circuit capacity of conductor for one second assuming conductor temperature of 90 ° C prior to short circuit and 250 ° C during short circuit	71.5 KA (Calculation Sheet attached)
50	Short circuit capacity of mettalic sheath for one sec assuming at screen temperature of 75 ° C prior to short circuit and 250 ° C during short circuit	≥ 40 Kamps for 1 second for corrugation Aluminium sheath (Calculation encloded)
51	Maximum tan delta at μ_0 KV maximum increment opf between 0.5 μ_0 to 2 μ_0 .	0.001 U_0
52	A.C test voltage for 15 minutes (Routine Test)	As per IEC:60840
53	A.C test voltage for 4 hours (Type Test)	Not applicable as per IEC:60840
54	Partial discharge at 2 μ_0 to 1.50 μ_0	As per IEC:60840
55	Impulse test voltage	650 KV
56	Approximate drum dimensions (dia & width)	Flange 3100 mm x Traverse 2100 mm (for 500 mtrs)
57	Maximum length of the cable in drum meters	600 mtrs
58	Minimum length of the cable in drum meters	As per approved drum schedule
59	Approx. gross weight of cable in a drum (MT)	6.0 MT (for 500 mtrs drum length)



For Kay Cee Energy & Infra Limited

Lokesh Kumar
 Director



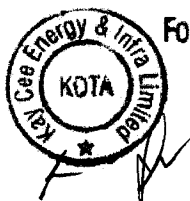
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Manufacturer:- KEI Industries Ltd.
 Customer :- RRVPNL
 Tender Reference No.:- RVPN/EHV/ASP/TN-115
 KEI Ref. No.:- KEI/DEL/23-24/EHV-EHV-TG060



Guaranteed Technical Particulars for 500 SQMM 132 KV Cable

S.No.	Description	Technical Particular
60	Maximum charging current of conductor per Km. of cable at nominal voltage (amps.)	4.2 A/km/phase
61	Derating factors for	
(a)	Ground temperature of 20 °C, 25 °C, 30 °C, 35 °C and 40 °C	Enclosed
(b)	Depth of burial 0.75 m, 1.0 m 1.25 m and 1.5 m	Enclosed
(c)	Short circuit (current) capacity with conductor temperature of 90 °C for duration of	
	0.5 sec	101.2
	1.0 sec	71.5
	2.0 sec	50.6
62	Continuous current rating for double circuit under the specified installation and operation conditions and conductor temperature 90 ° C and ground temperature 35 ° C	
(a)	When both circuits alive	411 Amps
(b)	When only one circuit is alive and other is dead	477 Amps
63	Screening factor of the cable for calculating interference on control and communication cables	0.113
64	Expected cable life	Above 40 years
65	Which type of manufacturing process viz. Continuous catenary vulcanisation (CCV) or vertical catenary vulcanisation (VCV) or horizontal MDCV will be used to ensure circularity and concentricity of extruded layers around the conductor	Continuous catenary Vulcanisation (CCV) Process
66	Nature of water tightness measures in screening area	By water swellable tapes
67	The conductor screen, insulation and insulation screen shall be extruded in one simultaneous triple extrusion process	Confirmed
68	The cross linking, curing and cooling shall be carried out in one operation and shall be a dry curing process under high pressure to eliminate the formation of voids in the insulation and contaminants in the dielectric	Confirmed
69	Process conditions such as curing and cooling temperature, production speed etc. shall be closely monitored during manufacture to ensure a good degree of cross linking through the whole insulation	Confirmed
70 (i)	Loading of the extruder in the manufacturing plant shall be performed entirely closed and dust proof	Confirmed



For Kay Cee Energy & Infra Limited

Signature
 Director



Manufacturer:- KEI Industries Ltd.
Customer :- RRVPNL
Tender Reference No.:- RVPN/EHV/ASP/TN-115
KEI Ref. No.:- KEI/DEL/23-24/EHV-EHV-TG060



Guaranteed Technical Particulars for 500 SQMM 132 KV Cable

S.No.	Description	Technical Particular
(ii)	the entire line of processing shall be controlled from computerized central control console	Confirmed
(iii)	Contamination shall be avoided by use of fully enclosed material handling system	Confirmed
(iv)	The use of special means like pressurized air etc. for transport of granuels shall, as for as practicable, be avoided.	Confirmed
71	Detailed list of testing facilities available at the works of suppliers for testing material as per clause above	Confirmed

For KEI INDUSTRIES LIMITED



For Kay Cee Energy & Infra Limited

Lokesh Kumar
Director

K. R.



13

GUARANTEED TECHNICAL PARTICULARS OF SHEATH BONDING CABLES



Manufacturer:- KEI Industries Ltd.
 Customer: - RRVPNL
 Tender Reference No.: - RVPN/EHV/ASP/TN-115
 KEI Ref. No.: - KEI/DEL/23-24/EHV-TG060

S.No.	Description	1C x 300 Sqmm
1	GENERAL	
	Name of Manufacturer	M/s KEI Industries Limited, New Delhi
		Factory Address : SP-919/920/922 RIICO Industrial Area , Phase-III , Bhiwadi , Distt. Alwar , Unit-2 - A/280-284 , RIICO Industrial Area , Chopanki , Distt. Alwar, Rajasthan
	Standards followed	Generally as per IS: 7098 P-2
2	CONDUCTOR	
	Material	Plain annealed copper conductor as per class- 2 of IS: 8130/1984
	Nominal Cross sectional area	sq.mm. 300
	Shape of conductor	Stranded compacted circular
	Grade	Electrolytic Grade
	Nominal diameter	mm 20.6
	Nos. / dia, of each strand (before stranding & compacting)	Nos./mm 37 Nos. / 3.26 mm
	Max. DC Resistance at 20 Deg.C	Ohms/Km 0.0601
	Short Circuit Current for 1 Second	Kamps. 42.9
3	INSULATION	
	Material	Extruded XLPE as per IS: 7098 P-2
	Thickness (Nominal)	mm 3.60
4	CORE COLOUR	Natural
5	OUTER SHEATH	
	Material	Extruded PVC " Type ST- 2 "
	Thickness (Nominal)	mm 4.00
	Colour	Black
6	CABLE DATA	
	Approx,overall diameter of cable	mm 36.5
	Tolerance on overall diameter	± 2 mm
	Packing length	As per approved drum schedule
	Approx. weight per km	3450 Kg
7	Embossing/Printing	KEI, Bonding Cable Size, Voltage Grade. Year of Manufacturing, RVPNL
	Sequential length marking	Shall be provided at every one meter



For Kay Cee Energy & Infra Limited

Signature
 Director



For KEI INDUSTRIES LIMITED

**SCHEDULE-D
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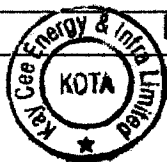
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S. No.	Description	Technical Particular
S-IA	132 kV XLPE CABLE	
1	Name of Manufacturer	Sterlite Power Transmission Limited
2	Country of Manufacture	India
3	Type of cable	2XA2Y
4	Applicable Standard	IEC 60502-2(Construction) / IEC 60840 (Testing)
5	(a) Rated nominal voltage	132 kV
	(b) Rated Maximum voltage	145 kV
6	Whether suitable for	
	(a) Earthed System	Yes
	(b) Unearthed System	No
7	Nominal cross-sectional area of conductor (Sq.mm)	500
8	Conductor	
	(a) Material	Plain Annealed Copper
	(b) Shape & formation	Stranded Compacted Circular
	(c) Diameter of conductor (mm)	26.3 (Approx)
	(d) i). No. of strands(wires) in conductor	Diameter & Nos. of Wires shall be chosen to meet requirement of DC Resistance as per IEC 60228
	ii) Nominal dia of each inlet wire in conductor before compacting	
	(e) Thickness of semi conducting tape	0.15 mm Approx.
9	Conductor Screen	
	(a) Material	Extruded Semiconducting Compound
	(b) Thickness (mm)	1.0 mm (Min.)
	(c) Maximum volume resistivity (at 25 ° Degree Centigrade) before and after ageing (Ohm - cm)	1000 ohm-m (At 90degC)
10	Maximum value of electric stresses at the conductor screen (Calculation to be shown separately) (KV/mm)	6.49 kV/mm
11	Insulation	
	(a) Material/Composition	Extruded XLPE Compound
	(b) Dia of cable over the insulation (mm)	65.5 Approx.
	(c) Radial thickness	
	i) Minimum Average (mm)	18.0
	ii) Minimum at Any Point (mm)	16.2
	(d) Maximum Dielectric Stress (KV/mm)	2.90 (At Insulation Screen)
12	Maximum value of dielectric stress at the insulation (KV/mm)	2.90 (At Insulation Screen)
13	Insulation Screen	
	(a) Material	Extruded Semiconducting Compound
	(b) Nominal Thickness (mm)	0.9 mm (Nom.) / 0.8 mm (Min.)
	(c) Maximum volume resistivity (at 25 ° C) (Ohm - cm)	500 ohm-m (At 90degC)

Director

14	Swellable type water blocking semi -conducting tape	
	(a) Material	Non Woven Semiconducting Water Swellable Tape
	(b) Approximate thickness (mm)	0.3 (Nom.)
15	a) Metallic Sheath:	
	(i) Material	Corrugated Aluminium Sheath (Seam Welded)
	(ii) Constructional feature.	Seam Welded (Helical Type)
	(iii) Thickness of the sheath (Radial) (mm)	1.55 mm (Min. at any point)
	(v) Diameter of the cable across the metallic sheath	82.0 Approx (Over Aluminium Sheath)
	b) Concentric copper wire screen	
	i) Material and type	
	ii) Min. copper screen area (Sq. mm)	
	iii) Nominal diameter	
	iv) Thickness of copper tape	
	c) Symmetrical Short circuit rating for one second duration for lead sheath and copper screened combined.	40kA for 1sec (Through Corrugated Aluminium Sheath)
16	External overall sheath	
	(a) Material & Type	Extruded HDPE ST-7 Compound (Black Coloured)
	(b) Nominal thickness (e) (mm)	3.40
	(c) Spark test voltage at works (6e KV)	8 kV/mm or 25 kV Max. (DC test on Oversheath as per IEC 60229)
17	Tolerance on thickness of overall sheath if any (mm)	2.79 mm (Min. at any point)
18	(a) Conductive Layer over PE/ PVC sheath	Graphite Coating
	(b) Thickness of conductive layer	Very Thin Coating not measurable
	(c) Whether suitable chemicals added in outer sheathing compound for protection against termite.	Yes, Suitable additives shall be mixed with Outsheath material
19	Approximate external overall dia of cables (mm)	91.0
20	Minimum cable bending radius	
	(a) for pulling	20 x OD of Cable
	(b) below terminals	20 x OD of Cable
21	Permissible maximum tension in the cable (Kg.)	2500
22	Maximum safe continuous operating voltage (KV)	76 / 132 kV
23	Rated Current:	As per Conditions mentioned in Sr No. 24 with Conductor temperature of 90 degC and Trefoil Formation , Single Point/ Cross Bonding
	(a) In Air (Amp.)	780 (Air Temp 50degC)
	(b) In Ground (Amp)	558 (Ground Temp 35degC)
24	i) Continuous current rating under the specified installation and operating conditions. Conductor temperature 90° C and 70° C. Ground temperature 35° C and depth of laying 1500 mm	Both End Bonding
	a) In Ground	495 Amps / 400 Amps

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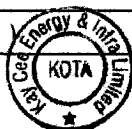
For Kay Cee Energy & Infra Limited

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Director



	b) In Air	725 Amps (Air Temp 50degC) / 500 Amps (Air Temp 50degC)
	ii) Continuous current rating under the specified installation and operating conditions. Conductor temperature 90° C and 70° C. Ground temperature 30° C and depth of laying 1500 mm	Both End Bonding
	a) In Ground	515 Amps / 415 Amps
	b) In Air	725 Amps (Air Temp 50degC) / 500 Amps (Air Temp 50degC)
	iii) Maximum permissible current for cable that can be overloaded without exceeding conductor temperature of 100° C	530 Amps (Ground Temp 35 DegC)
25	Maximum permissible conductor temperature for continuous operation under the specified and installation conditions (°C)	90 degC
26	Temperature of conductor at rated current (°C)	80.5 DegC at 450 A
27	Basic impulse level at conductor temperature of 90° C (kV)	650 kVp
28	Impulse wave shape (kV)	Impulse waves applied shall have Wave front of a duration between 1µS and 5µS, and a duration to half the peak value of 50 ± 10µS)
29	Power frequency withstand voltage	190 kV for 30 Minutes (Routine Test)
30	Ionization factor at 50 Hz. (Tan Delta)	0.001 Max.
31	Maximum potential gradient at conductor surface (kV/cm)	6.49 kV/mm (Nominal Stress at Conductor Screen)
32	Minimum potential gradient at conductor surface (kV/cm)	
33	Sheath voltage under maximum operating conditions assuming all circuits connected (kV per KM)	30.9 V/km (At 558 Amps Ground Current). However, sheath voltage is applicable for Single end Bonding
34	Withstand voltage of sheath covering when spark tested	8 kV/mm or 25kV Max. (DC Test on Oversheath as per IEC 60229)
35	Permissible short circuit current for interruption:	For Conductor
	(a) 0.1 Sec. (kA)	226.1
	(b) 0.2 Sec. (kA)	159.9
	(c) 0.5 Sec. (kA)	101.1
	(d) 1.0 Sec. (kA)	71.5
36	Conductor maximum D.C. / A.C. resistance per 1000 Metre lengths:	d.c/a.c.
	(a) at 20° C (Ohm)	0.0366 / 0.0393
	(b).at 90° C (Ohm)	0.0467 / 0.0489
	(c)at 10% Continuous overload (Ohm)	0.0481 / 0.0503
37	Equivalent Star resistance at 50 Hz. per 1000 Metre length of 3 phase current	
	(a) at 20° C (Ohm)	0.0393
	(b) at 90° C (Ohm)	0.0489
	(c) at 10% continuous overload (Ohm)	0.0503

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For Kay Dee Energy & Infra Limited

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Director

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38	Star reactance at 50Hz. per 1000 Metre length (Ohm)	0.137
39	Impedance at 50 Hz. per 1000 Metre length	
	(a) at 20° C (Ohm)	0.143
	(b)at 90° C (Ohm)	0.145
	(c) at 10% continuous overload (Ohm)	0.146
40	Positive and negative sequence reactance per 1000 Meters length Ohm)	0.0489 ± j 0.137
41	Zero sequence data per 1000 Metre length	
	(a) Series resistance (Ohm)	0.146
	(b) Series reactance (Ohm)	0.082
	(c) Shunt capacitive reactance (Ohm)	18400 Approx.
42	Sheath resistance at 20° C per 1000 Metres length (Ohm)	0.083
43	Surge impedance of the cable in Ohms.	50.2
44	Self electrostatic capacitance per 1000 metres length (micro farads)	0.173 micro-farad/km
45	Dielectric dissipation factor at rated voltage	0.001
46	I.R. value at ambient temperature per 1000 metres length (Ohm-cm)	NA as per IS 7098 Part-3
47	P.F. at conductor temperature of 90 ° C and at	
	a) 50% of rated phase to neutral voltage	0.001 (Dielectric Power Factor)
	b).100% of rated phase to neutral Voltage	
48	Guaranteed Losses per 1000 Metres length: (Detailed working sheet should be furnished)	Data Furnished at 450 Amps Current as per specifications
	a) Dielectric losses per phase at rated voltage and rated current (kW)	0.314
	b) Copper losses per phase at rated voltages and rated current (kW)	9.64
	c) Other losses (sheath/screen losses/ Phase at rated voltage and current (kW)	4.56
	d) Losses due to reinforcement if any (kW)	NA
	e)Total losses at rated continuous current (kW)	14.52 kW/km/phase (At 450 Amps Current)
49	Short circuit capacity of conductor for one second assuming conductor temperature of 90°C prior to short circuit and 250°C during short circuit	71.5 kA for 1sec
50	Short circuit capacity of metallic sheath for one second at screen temperature of 75°C prior to short circuit and 250°C during short circuit	40 kA for 1sec
51	Maximum tan delta at Uo kV maximum increment of between 0.5 Uo to 2 Uo.	Tan delta value shall not exceed 0.001
52	A.C. Test voltage for 15 minutes (Routine test)	190 kV for 30 Minutes
53	A.C. Test voltage for 4 hours (Type test)	190kV for 15 minutes as per IEC 60840
54	Partial discharge at 2 Uo 1.50 Uo	Partial Discharge mangntitude at 1.5 Uo shall not exceed 5pC for Type Test & 10pC for Routine Test
55	Impulse test voltage	650 KVp
56	Approximate drum dimension (dia & width)	2900 mm (Flange Diameter) x 1950 (Width)
57	Maximum length of cable in a drum	300 OR AS PER DRUM SCHEDULE (+/- 3%)

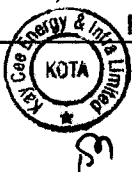


For Kay Cee Energy & Infra Limited
 Director



58	Minimum length of cable in a drum (Metres)	500 OR AS PER DRUM SCHEDULE (+/- 3%)
59	Approximate gross weight of cable in a drum (MT)	5.3 MT (Including Drum Weight for 500mts Cable)
60	Maximum charging current of conductor per KM of cable at Nominal voltage (Amps)	4.13 Amps / km (At $U_0 = 76$ kV)
61	Derating factors for	
	a) Ground temperature of 20 °, C25 °, C 30 °, C35 ° & 40 ° C	Derating Factor Sheet Attached
	b) Depth of burial 0.75m. 1.0m. 1.25m. and 1.5 m	
	c) Short circuit (current) capacity with conductor Temperature of 90°C for duration of 0.5 Secs. 1.0 Secs and 2.0 Secs.	101.1 / 71.5 / 50.6
62	Continuous current rating of cable for Single circuit under the specified installation and operation conditions and conductor temperature 90°C and ground temperature 35°C	In Air - 780 Amps (Air Temp 50degC) In Ground - 558 Amps (Ground Temp 35degC & 1.5m Depth of laying, Trefoil formation)
63	Screening factor of the cable for calculating interference on control and communication cables	NA
64	Expected Cable life.	30 yrs
65	Which type of manufacturing process viz. Continuous Catanery Vulcanisation (CCV) or vertical Catanery Vulcanisation system (VCV) or horizontal MDCV will be used to ensure circularity and concentricity of the extruded layers around the conductor.	Continuous Catanery Vulcanisation (CCV)
66	Nature of water tightness measures in screening area.	Corrugated Aluminium Sheath (For Radial Water Blocking) & Semiconducting Water Swellable Tape (for Longitudinal Water Blocking below Metallic Sheath)
67	The Conductor screen, insulation and insulation screen shall be extruded in one simultaneous triple extrusion process	Yes
68	The cross linking, curing and cooling shall be carried out in one operation and shall be a dry curing process under high pressure to eliminate the formation of voids in the insulation and contaminants in the dielectric.	Yes
69	Process conditions such as curing and cooling temperature, production speed etc. shall be closely monitored during manufacture to ensure a good degree of cross linking through the whole insulation.	Yes
70	i) Loading of the extruder in the manufacturing plant shall be performed entirely closed and dust proof.	Yes
	ii) The entire line of processing shall be controlled from a computerized central control console.	Yes
	iii) Contamination shall be avoided by use of a fully enclosed material handling system.	Yes
	iv) The use of special means like pressurized air etc. for transport of granules shall, as far as practicable, be avoided.	Yes

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For Kay Cee Energy & Infra Limited

[Handwritten signature]
Director



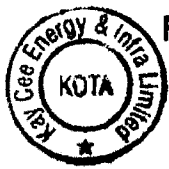
71	Detailed list of testing facilities available at the works of supplier's for testing material as per clause 8 above.	Shall be furnished separately
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Embossing Details : At every one meter on Outersheath of cable

"LOGO" STERLITE POWER TRANSMISSION LIMITED XLPE CABLE 76/132kV 1Cx500 SQMM 2XA2Y "RVPNL" YEAR

Sequential meter marking shall be provided by printing at every one meter on Outersheath of cable.

A *dl* *59*



For Kay Cee Energy & Infra Limited

Lokesh Kumar
Director



LIST OF ADDRESSES OF RVPN CONTACT PERSONS

(For correspondence to be made for related works)

1.	Nigam office	Correspondence related to
(i)	The Chief Engineer (PP&D), RVPN, Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur.	In-charge for overall co-ordination of complete project
(ii)	The Superintending Engineer (Automation, N/M & SP) RVPN, Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur.	Regarding Contractual/commercial/financial matters, technical matters like technical approval, drawings etc. quality assurance, inspection matters, approvals of vendors, GTPs and drawings, approval of PERT/Bar chart, checking of layout drawings and other details related to cable system, monitoring of works, manufacturing quality assurance plan and inspection at works, approval of testing at works of vendors, authorization of dispatch of supply material, co-ordination in verification of supply bills, co-ordination in release of payment etc.
(iii)	The Superintending Engineer (Automation, N/M & SP) in association with the Superintending Engineer (T&C-Jaipur Rural), RVPN, Jaipur	For the checking and approval of all EHV Line work drawings and erection co-ordination.
2.	Execution Authority Office	
(i)	The Zonal Chief Engineer (T&C), RVPN, Jaipur	In-charge for overall co-ordination of Erection work.
(ii)	The Superintending Engineer (T&C - Jaipur Rural), RRVPNL, Jaipur (Project-In-Charge) The Executive Engineer (T&C - Jaipur Rural), RRVPNL, Jaipur The Assistant Engineer- (T&C- Phagi - Jaipur Rural), RRVPNL, Jaipur(Consignee/ Engineer-In- Charge)	Receipt of material, verification of supply bills, all matters erection contract work as per scope of TN-103. Comments on layout design, drawings of equipments, schematic drawings etc., Checking of erection work verification of quality assurance/ audit/ checks verification of erection bills, inspection as per field quality plans, Verification of final account, Co-ordination in release of payment.
3.	The Sr. Accounts Officer (CPC),RVPN, Jaipur	All matters related to release of payment
4	The Accounts Officer (P&C), RVPN, Jaipur.	For issuing certificate(s), if any as per GST law.

PROFORMA FOR UNDERTAKING/ AUTHORISATION LETTER FROM VENDORS

TO WHOM IT MAY CONCERN

For

Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm. , 132kVXLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil worksfor **approx. Route length 1.00 KM (Jaipur)", against specification no. RVPN/ EHV/A&SP/TN-115, against RAJASTHAN RAJYAVIDYUTPRASARAN NIGAM LTD., JAIPUR (RVPN)'s P.O. No. _____ dated _____**

With reference to the order placed by RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD., JAIPUR We M/s _____ organized and existing under the law of INDIA having its Principal business office at _____ hereby authorize:

**M/s Kay Cee Energy & Infra Ltd.
9, Krishna Vihar,
Near Chungi Naka,
Nanta Road, Kunhadi,
Kota – 324008
Email: Kaycee.energy.infra@gmail.com**

to act and work as our representative on our behalf in the execution of the Contract. We also hereby confirm to furnish all the details desired in the above purchase order No. _____ dated _____ that the inspection, testing and supply of the materials shall be completed in line with the contractual requirements.

We also agree to authorize the representative of Rajasthan Rajya Vidyut Prasaran Nigam Ltd. to have access at all reasonable times to our works and premises and the representative shall be free to inspect the works, examine and test the product(s) including raw materials used and the workmanship employed during/after manufacture. We will allow RVPN's representative to carryout quality audit/quality surveillance to ensure quality management practices/norms as detailed in our quality manual duly approved by RVPN. We shall provide free of charge to him, such labour, materials, electricity, fuel, water, stores, apparatus and instruments as may be reasonably be demanded to carry out efficiently such tests of the material, in accordance with the



contract and shall give facilities to him to accomplish such testing. We shall also arrange to furnish the latest calibration certificate of the testing instruments/equipments (calibrated from time to time from the manufacturer of the testing instruments or any Govt. recognized testing laboratory not older than one year at the time of presenting the same to the inspecting officer) used for the testing of the materials as covered in the purchaser order, to the inspecting officer.

This Letter of Authority is effective from the date of our offer and will remain in full force until the guarantee period as per specification No. RVPN/EHV/A&SP/TN-115.

In case of any defect observed in our material during warrantee period, We will immediately respond within 15 days of RVPN's intimation and full support will be given to **M/s Kay Cee Energy & Infra Ltd.** for repair/replacement of the material to the satisfaction of RVPN as per the Purchase order terms and conditions.

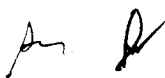
Signature

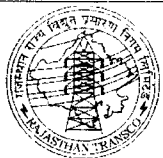
(Authorized Signatory)

Stamp

Place:

Date:





RVPN

An ISO 9001 : 2015
Certified Company

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

[Corporate Identity Number (CIN):U40109RJ2000SGC016485]

Regd. Office: Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur-302005

GST Registration No. 08AABCR8312A1ZT

OFFICE OF THE SUPERINTENDING ENGINEER(AUTO., N/M & SP)

RVPN, VIDYUT BHAWAN, JANPATH, JYOTI NAGAR

JAIPUR, RAJASTHAN, INDIA, PIN CODE : 302005

TELEPHONE : 0141-2740752, FAX : 0141-2740794

EMAIL : se.spl@rvpn.co.in, Website: <https://energy.rajasthan.gov.in/rvpn>

PURCHASE ORDER - 5700000310

S.No	Material Code	Material Description	Qty	Unit	Unit Ex-works Price	Total Price INR	CGST Rate (%)	CGST Amount	SGST Rate (%)	SGST Amount	IGST Rate (%)	IGST Amount	Total Price Incl. of all Taxes INR
1	2300000542	220KV D/C NB (350MSPAN)TTD-STUB	2	SET	108600.00	217200.00	9.00	19548.00	9.00	19548.00	0.00	0.00	256296.00
		F&I (QTY)	2	SET	2754.00	5508.00	9.00	495.72	9.00	495.72	0.00	0.00	6499.44
2	2300000543	220KV D/C NB (350MSPAN)TTD-S/STR	2	NOS	999600.00	1999200.00	9.00	179928.00	9.00	179928.00	0.00	0.00	2359056.00
		F&I (QTY)	2	NOS	28041.00	56082.00	9.00	5047.38	9.00	5047.38	0.00	0.00	66176.76
3	2200000010	ACSR PANTHER (30/3MM AL +7/3MM STEEL)	0.5	KM	225600.00	112800.00	9.00	10152.00	9.00	10152.00	0.00	0.00	133104.00
		F&I (QTY)	0.5	KM	4995.00	2497.50	9.00	224.78	9.00	224.78	0.00	0.00	2947.06
4	9000000170	S/T HW PANTHER	6	SET	2760.00	16560.00	9.00	1490.40	9.00	1490.40	0.00	0.00	19540.80
		F&I (QTY)	6	SET	442.00	2652.00	9.00	238.68	9.00	238.68	0.00	0.00	3129.36
5	9000000152	VIBRATION DAMPER - PANTHER	6	SET	771.00	4626.00	9.00	416.34	9.00	416.34	0.00	0.00	5458.68
		F&I (QTY)	6	SET	27.29	163.74	9.00	14.74	9.00	14.74	0.00	0.00	193.22
6	2000000018	H/W SET-24 FIBER OPGW FIBER OPTIC CABLE	2	SET	63600.00	127200.00	9.00	11448.00	9.00	11448.00	0.00	0.00	150096.00
		F&I (QTY)	2	SET	2251.44	4502.88	9.00	405.26	9.00	405.26	0.00	0.00	5313.40

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S.No	Material Code	Material Description	Qty	Unit	Unit Ex-works Price	Total Price INR	CGST Rate (%)	CGST Amount	SGST Rate (%)	SGST Amount	IGST Rate (%)	IGST Amount	Total Price Incl. of all Taxes INR
7	2000000064	JOINT BOX(24 FIBER) OPGW CABLE	2	NOS	7800.00	15600.00	9.00	1404.00	9.00	1404.00	0.00	0.00	18408.00
		F&I (QTY)	2	NOS	275.00	550.00	9.00	49.50	9.00	49.50	0.00	0.00	649.00
8	2000000088	120KN B&S DISC INSULATOR	60	NOS	717.00	43020.00	9.00	3871.80	9.00	3871.80	0.00	0.00	50763.60
		F&I (QTY)	60	NOS	26.00	1560.00	9.00	140.40	9.00	140.40	0.00	0.00	1840.80
9	2000000096	70KN B&S DISC INSULATOR	30	NOS	474.00	14220.00	9.00	1279.80	9.00	1279.80	0.00	0.00	16779.60
		F&I (QTY)	30	NOS	17.00	510.00	9.00	45.90	9.00	45.90	0.00	0.00	601.80
10	9000000263	STEP BOLT-16X175MM WITH 2NUTS & WASHER	0.1	MT	135600.00	13560.00	9.00	1220.40	9.00	1220.40	0.00	0.00	16000.80
		F&I (QTY)	0.1	MT	4779.00	477.90	9.00	43.01	9.00	43.01	0.00	0.00	563.92
11	9000000264	SPRING WASHER ELECTRO GALVANISED 16MM	0.2	MT	135600.00	27120.00	9.00	2440.80	9.00	2440.80	0.00	0.00	32001.60
		F&I (QTY)	0.2	MT	4779.00	955.80	9.00	86.02	9.00	86.02	0.00	0.00	1127.84
12	2000000622	EARTHING SET-PIPE TYPE	2	SET	3255.00	6510.00	9.00	585.90	9.00	585.90	0.00	0.00	7681.80
		F&I (QTY)	2	SET	115.00	230.00	9.00	20.70	9.00	20.70	0.00	0.00	271.40
13	2300000524	NUMBER PLATE	2	NOS	258.00	516.00	9.00	46.44	9.00	46.44	0.00	0.00	608.88
		F&I (QTY)	2	NOS	8.00	16.00	9.00	1.44	9.00	1.44	0.00	0.00	18.88
14	2300000525	PHASE PLATE	2	SET	195.00	390.00	9.00	35.10	9.00	35.10	0.00	0.00	460.20
		F&I (QTY)	2	SET	8.00	16.00	9.00	1.44	9.00	1.44	0.00	0.00	18.88

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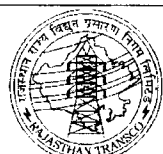
S.No	Material Code	Material Description	Qty	Unit	Unit Ex-works Price	Total Price INR	CGST Rate (%)	CGST Amount	SGST Rate (%)	SGST Amount	IGST Rate (%)	IGST Amount	Total Price Incl. of all Taxes INR
15	2300000523	DANGER PLATE	2	NOS	276.00	552.00	9.00	49.68	9.00	49.68	0.00	0.00	651.36
		F&I (QTY)	2	NOS	10.00	20.00	9.00	1.80	9.00	1.80	0.00	0.00	23.60
16	3600000033	132KV XLPE COPPER CABLE 1CX500 MM2	4	KM	6122220.00	24488880.00	9.00	2203999.20	9.00	2203999.20	0.00	0.00	28896878.40
		F&I (QTY)	4	KM	227811.00	911244.00	9.00	82011.96	9.00	82011.96	0.00	0.00	1075267.92
17	3600000001	145KV PREMOULD XLPE STRAIGHT THRU JOINT	4	NOS	195741.00	782964.00	9.00	70466.76	9.00	70466.76	0.00	0.00	923897.52
		F&I (QTY)	4	NOS	6930.00	27720.00	9.00	2494.80	9.00	2494.80	0.00	0.00	32709.60
18	3600000031	145KV PREMOULD XLPE TERMINATION KIT	8	NOS	224136.00	1793088.00	9.00	161377.92	9.00	161377.92	0.00	0.00	2115843.84
		F&I (QTY)	8	NOS	7935.00	63480.00	9.00	5713.20	9.00	5713.20	0.00	0.00	74906.40
19	3600000186	SOLID BONDING LINK BOX WITH LINK PLATE	8	NOS	63600.00	508800.00	9.00	45792.00	9.00	45792.00	0.00	0.00	600384.00
		F&I (QTY)	8	NOS	2200.00	17600.00	9.00	1584.00	9.00	1584.00	0.00	0.00	20768.00
20	3600000090	GALV.STEEL STRUCTURE - XLPE TERMINATION	2	LOT	393000.00	786000.00	9.00	70740.00	9.00	70740.00	0.00	0.00	927480.00
		F&I (QTY)	2	LOT	14798.00	29596.00	9.00	2663.64	9.00	2663.64	0.00	0.00	34923.28
21	3600000083	EARTHING MATERIAL FOR CABLE CKT (3C)	2	SET	81063.00	162126.00	9.00	14591.34	9.00	14591.34	0.00	0.00	191308.68
		F&I (QTY)	2	SET	2870.00	5740.00	9.00	516.60	9.00	516.60	0.00	0.00	6773.20
22	3600000170	T/C- XLPE CABLE END TERM.- ACSR PANTHER	8	NOS	4545.00	36360.00	9.00	3272.40	9.00	3272.40	0.00	0.00	42904.80
		F&I (QTY)	8	NOS	160.00	1280.00	9.00	115.20	9.00	115.20	0.00	0.00	1510.40

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S.No	Material Code	Material Description	Qty	Unit	Unit Ex-works Price	Total Price INR	CGST Rate (%)	CGST Amount	SGST Rate (%)	SGST Amount	IGST Rate (%)	IGST Amount	Total Price Incl. of all Taxes INR
23	3100000061	WARNING TAPES	1.8	KM	45045.00	81081.00	9.00	7297.29	9.00	7297.29	0.00	0.00	95675.58
		F&I (QTY)	1.8	KM	1595.00	2871.00	9.00	258.39	9.00	258.39	0.00	0.00	3387.78
24	2000000076	OPTICAL FIBER CABLE & ACEESS	1	KM	285285.00	285285.00	9.00	25675.65	9.00	25675.65	0.00	0.00	336636.30
		F&I (QTY)	1	KM	6150.00	6150.00	9.00	553.50	9.00	553.50	0.00	0.00	7257.00
25	1500000024	132KV LA WITH GRADING RING COUNTER MA	6	NOS	96963.00	581778.00	9.00	52360.02	9.00	52360.02	0.00	0.00	686498.04
		F&I (QTY)	6	NOS	3450.00	20700.00	9.00	1863.00	9.00	1863.00	0.00	0.00	24426.00
26	3100000535	LINE DIFFERENTIAL/ DISTANCE RELAY-132KV	2	NOS	492495.00	984990.00	9.00	88649.10	9.00	88649.10	0.00	0.00	1162288.20
		F&I (QTY)	2	NOS	17535.00	35070.00	9.00	3156.30	9.00	3156.30	0.00	0.00	41382.60
27	3600000187	ADD OTHER ITEM TO COMPLETE CABLE SYSTEM	1	LOT	225600.00	225600.00	9.00	20304.00	9.00	20304.00	0.00	0.00	266208.00
28	9000000279	G.I.NUT & BOLT ASSORTED SIZE	1	MT	126600.00	126600.00	9.00	11394.00	9.00	11394.00	0.00	0.00	149388.00
		F&I (QTY)	1	MT	4177.00	4177.00	9.00	375.93	9.00	375.93	0.00	0.00	4928.86
					Total	34643995.82		3117959.63		3117959.63		0.00	40879915.08

Amount in Words: RUPEES FOUR CRORE EIGHT LAKH SEVENTY NINE THOUSAND NINE HUNDRED FIFTEEN AND PAISE EIGHT ONLY

S. S. S.
SUPERINTENDING ENGINEER(AUTO., N/M & SP)



RVPN

An ISO 9001 : 2015
Certified Company

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

[Corporate Identity Number (CIN):U40109RJ2000SGC016485]

Regd. Office: Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur-302005

GST Registration No. 08AABCR8312A1ZT

OFFICE OF THE SUPERINTENDING ENGINEER(AUTO., N/M & SP)

RVPN, VIDYUT BHAWAN, JANPATH, JYOTI NAGAR

JAIPUR, RAJASTHAN, INDIA, PIN CODE : 302005

TELEPHONE : 0141-2740752, FAX : 0141-2740794

EMAIL : se.spl@rvpn.co.in, Website: <https://energy.rajasthan.gov.in/rvvpn/>

WORK ORDER No. - 4600025128


Sl.No	Service Text at header level	Service Code	Short Text Service	Qty	Uom	Unit Price INR	OH Charge (%)	Unit Price Including OH charge Value	Total Price INR	CGST Rate (%)	CGST Amt	SGST Rate (%)	SGST Amt	IGST Rate (%)	IGST Amt	Total Price incl. of all taxes INR
10	ETC-115															
10.1		PRJ1055	CHECK SURVEY AS PER APPROVED ROUTE	1.5	KM	3,570.00	0.00	3,570.00	5,355.00	9.00	481.95	9.00	481.95			6,318.90
10.2		PRJ1192	EXCAVATION-NORMAL SOIL	560	M3	438.00	0.00	438.00	245,280.00	9.00	22,075.20	9.00	22,075.20			289,430.40
10.3		PRJ1237	SETTING TEMPLATE UPTO+9M 220KVD/C TTD	2	NOS	9,330.00	0.00	9,330.00	18,660.00	9.00	1,679.40	9.00	1,679.40			22,018.80
10.4		PRJ1058	CONCRETING- 1:3:6 MIX	11	M3	8,700.00	0.00	8,700.00	95,700.00	9.00	8,613.00	9.00	8,613.00			112,926.00
10.5		PRJ1056	CONCRETING- 1:1.5:3 MIX	70	M3	11,553.00	0.00	11,553.00	808,710.00	9.00	72,783.90	9.00	72,783.90			954,277.80
10.6		PRJ1069	STEEL REINFORCEMENT	6	MT	81,600.00	0.00	81,600.00	489,600.00	9.00	44,064.00	9.00	44,064.00			577,728.00
10.7		PRJ1085	PIPE TYPE EARTHING OF TOWER	2	SET	2,760.00	0.00	2,760.00	5,520.00	9.00	496.80	9.00	496.80			6,513.60
10.8		PRJ3910	ERECTION OF TOWER -UPTO +9M EXTN.	20	MT	7,440.00	0.00	7,440.00	148,800.00	9.00	13,392.00	9.00	13,392.00			175,584.00
10.9		PRJ3901	STRINGING- PANTHER-1 CONDUCTOR	0.5	KM	18,600.00	0.00	18,600.00	9,300.00	9.00	837.00	9.00	837.00			10,974.00
10.10		PRJ1457	INSTALL OPGW-H/W-JOINT BOX(24FIBRE)	2	NOS	66,300.00	0.00	66,300.00	132,600.00	9.00	11,934.00	9.00	11,934.00			156,468.00

[Handwritten signatures and initials]

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10.11		PRJ1079	DISMANTLING-132,220KV S/ C,D/C TOWER-ALL	8	MT	6,333.00	0.00	6,333.00	50,664.00	9.00	4,559.76	9.00	4,559.76			59,783.52
10.12		PRJ3904	DESTRINGING- PANTHER-1 CONDUCTOR	3	KM	21,633.00	0.00	21,633.00	64,899.00	9.00	5,840.91	9.00	5,840.91			76,580.82
10.13		PRJ4550	DESTRINGING OF E/W-1NO. 7/3.15MM/ OPGW	1	KM	73,500.00	0.00	73,500.00	73,500.00	9.00	6,615.00	9.00	6,615.00			86,730.00
10.14		PRJ3906	RESTRINGING- PANTHER-1 CONDUCTOR	1	KM	18,330.00	0.00	18,330.00	18,330.00	9.00	1,649.70	9.00	1,649.70			21,629.40
10.15		PRJ4549	RESTRINGING OF E/W-1NO. 7/3.15MM/ OPGW	0.5	KM	63,900.00	0.00	63,900.00	31,950.00	9.00	2,875.50	9.00	2,875.50			37,701.00
10.16		PRJ1855	SURVEY OF CABLE ROUTE	0.9	KM	81,900.00	0.00	81,900.00	73,710.00	9.00	6,633.90	9.00	6,633.90			86,977.80
10.17		PRJ1856	EVALUATION- THERMAL RESISTIVITY OF SOIL	1	LS	72,900.00	0.00	72,900.00	72,900.00	9.00	6,561.00	9.00	6,561.00			86,022.00
10.18		PRJ2925	TRANSPORT, LAYING 132KV 1C XLPE CABLE	4	KM	180,180.00	0.00	180,180.00	720,720.00	9.00	64,864.80	9.00	64,864.80			850,449.60
10.19		PRJ4206	ESTABLISH-SINGLE CKT-132KV XLPE CABLE	1	KM	144,135.00	0.00	144,135.00	144,135.00	9.00	12,972.15	9.00	12,972.15			170,079.30
10.20		PRJ2927	MAKING ST.THRU JOINTS FOR 132KV 1C CABLE	4	NOS	81,063.00	0.00	81,063.00	324,252.00	9.00	29,182.68	9.00	29,182.68			382,617.36
10.21		PRJ4199	ETC 132KV OD CABLE TERMINATION FOR XLPE	8	NOS	108,135.00	0.00	108,135.00	865,080.00	9.00	77,857.20	9.00	77,857.20			1,020,794.40
10.22		PRJ2929	ERECT-GALV STEEL STRUCTURE-132KV CABLE	2	SET	188,685.00	0.00	188,685.00	377,370.00	9.00	33,963.30	9.00	33,963.30			445,296.60
10.23		PRJ4201	ETC SOLID BONDING LINK BOX WITH LINK	8	NOS	25,200.00	0.00	25,200.00	201,600.00	9.00	18,144.00	9.00	18,144.00			237,888.00
10.24		PRJ3108	EARTHING WORK INCL. MATERIAL	2	LOT	96,300.00	0.00	96,300.00	192,600.00	9.00	17,334.00	9.00	17,334.00			227,268.00

[Handwritten signatures and initials]

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10.25		PRJ2935	ETC-TERMINAL CONNECTOR FOR ACSR PANTHER	8	NOS	1,233.00	0.00	1,233.00	9,864.00	9.00	887.76	9.00	887.76			11,639.52
10.26		PRJ2464	INST OF SURGE ARRESTER	6	NOS	15,300.00	0.00	15,300.00	91,800.00	9.00	8,262.00	9.00	8,262.00			108,324.00
10.27		PRJ2936	ETC- OFC AND ACCESS./ITEMS	1	KM	91,800.00	0.00	91,800.00	91,800.00	9.00	8,262.00	9.00	8,262.00			108,324.00
10.28		PRJ3821	RETROF. DISTANCE - DIFFENTIAL RELAY & LIU	2	SET	54,540.00	0.00	54,540.00	109,080.00	9.00	9,817.20	9.00	9,817.20			128,714.40
10.29		PRJ1868	CHARGES-CONDUCTING PRECOMMISSIONING TEST	1	LS	144,441.00	0.00	144,441.00	144,441.00	9.00	12,999.69	9.00	12,999.69			170,440.38
10.30		PRJ1838	CUTTING BLACK BITUMEN SURFACE	25	M2	144.00	0.00	144.00	3,600.00	9.00	324.00	9.00	324.00			4,248.00
10.31		PRJ1839	EARTH WORK-EXCAVATION-CABLE TRENCHES	1,600	M3	342.00	0.00	342.00	547,200.00	9.00	49,248.00	9.00	49,248.00			645,696.00
10.32		PRJ1841	P&L CC 1:4:8 (40MM)	300	M3	999.00	0.00	999.00	299,700.00	9.00	26,973.00	9.00	26,973.00			353,646.00
10.33		PRJ1842	P&L CM1:3 CC 1:1.5:3 (M20, 20MM)	20	M3	81.00	0.00	81.00	1,620.00	9.00	145.80	9.00	145.80			1,911.60
10.34		PRJ3181	BRICK WALL CONSTRUCTION	1	LS	144.00	0.00	144.00	144.00	9.00	12.96	9.00	12.96			169.92
10.35		PRJ1843	P&F STEEL REINFORCEMENT FOR RCC	20	KG	45.00	0.00	45.00	900.00	9.00	81.00	9.00	81.00			1,062.00
10.36		PRJ1844	CENTERING, SHUTTERING	150	M2	27.00	0.00	27.00	4,050.00	9.00	364.50	9.00	364.50			4,779.00
10.37		PRJ1845	P&F OF STEEL FEBRICATION	20	KG	36.00	0.00	36.00	720.00	9.00	64.80	9.00	64.80			849.60
10.38		PRJ1846	P&L, JOINTING RCC CLASS NP-2 PIPES	20	M	135.00	0.00	135.00	2,700.00	9.00	243.00	9.00	243.00			3,186.00

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10.39		PRJ1847	P&F REINFORCED CEMENT TRENCH COVER	20	M2	81.00	0.00	81.00	1,620.00	9.00	145.80	9.00	145.80			1,911.60
10.40		PRJ1848	P&L HDPE HD PIPE D250	30	M	2,430.00	0.00	2,430.00	72,900.00	9.00	6,561.00	9.00	6,561.00			86,022.00
10.41		PRJ4210	HDPE PLB DUCT	1	KM	45,450.00	0.00	45,450.00	45,450.00	9.00	4,090.50	9.00	4,090.50			53,631.00
10.42		PRJ1850	S&L INTERLOCK RCC CABLE COVERS	720	M2	243.00	0.00	243.00	174,960.00	9.00	15,746.40	9.00	15,746.40			206,452.80
10.43		PRJ1851	S&S RIVER SAND IN CABLE TRENCH, JOINTPIT	380	M3	999.00	0.00	999.00	379,620.00	9.00	34,165.80	9.00	34,165.80			447,951.60
10.44		PRJ1852	P&F CABLE ROUTE MARKER AT 50M SPACING	25	NOS	1,530.00	0.00	1,530.00	38,250.00	9.00	3,442.50	9.00	3,442.50			45,135.00
			Total						7,191,654.00		647,248.86		647,248.86			8,486,151.72

Amount In Words: RUPEES EIGHTY FOUR LAKH EIGHTY SIX THOUSAND ONE HUNDRED FIFTY ONE AND PAISE SEVENTY TWO ONLY

18/11/22
SUPERINTENDING ENGINEER(AUTO., N/M & SP)

[Signature]



RVPN

An ISO 9001 : 2015
Certified Company

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

[Corporate Identity Number (CIN):U40109RJ2000SGC016485]

Regd. Office: Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur-302005

GST Registration No. 08AABCR8312A1ZT

OFFICE OF THE SUPERINTENDING ENGINEER(AUTO., N/M & SP)

RVPN, VIDYUT BHAWAN, JANPATH, JYOTI NAGAR

JAIPUR, RAJASTHAN, INDIA, PIN CODE : 302005

TELEPHONE : 0141-2740752, FAX : 0141-2740794

EMAIL : se.spl@rvpn.co.in, Website: <https://energy.rajasthan.gov.in/rrvpn/>

WORK ORDER No. - 4600025128

Date: 30-01-2024

Vendor Details

Vendor Name : KAYCEE ENERGY & INFRA LTD (1001178)

Address: PLOT NO.-9, NANTA ROAD

KOTA

RAJASTHAN, INDIA

Pincode : 324008

Contact No. :

Fax No. :

Email Address : kaycee.energy.infra@gmail.com

TIN No. :

GST No. : 08AAFCK7333L1Z6

PAN No.: AAFCK7333L

Ser.Tax No.:

Bid No.: 9012002316

Bid Opening Date: 01-12-2023

Sub : Letter of award for "Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm., 132kVXLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil works", against specification no. RVPN/EHV/A&SP/TN-115.

This Office Contract No. RVPN/SE (AUTOMATION)/A&SP/TN-115/Contract/P.O. 144/D.143 Jaipur dated: 30.01.2024

Ref : 1.0 REFERENCE:

This has reference to the following:

1.1 PRE BID REFERENCES

Our bid document No. RVPN/ EHV/ A&SP/TN-115 consisting of
VOLUME - I: CONDITIONS OF CONTRACT

Part-I: Instructions to Bidders (ITB)

Part-II :Bid Data Sheet (BDS)

Part-III :General Terms & conditions of Contract (GCC)

Part-IV : Special Conditions of Contract (SCC)

Part-V : Erection Conditions of Contract (ECC)

Part-VI :Bid Proposal Form, Schedules & Annexure

VOLUME - II: TECHNICAL SPECIFICATION

MOM of Pre-Bid Meeting held on 12.10.2023.

1.2 POST BID REFERENCES:

i. Your offer reference no. Kaycee/TN-115 dated 24.10.2023, submitted online on eproc.rajasthan.gov.in and Techno Commercial bid opened on date 01.12.2023 and price bid opened on date 14.12.2023.

ii. This office Letter of Intent RajKaj No. 5229795 dated 22.12.2023.

iii. Your Notification of Award acceptance letter dated 23.12.2023.

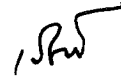
The detailed terms & Conditions of the work order is as per hard copy issued vide this office letter No. RVPN/SE (AUTOMATION)/A&SP/TN-115/Contract/P.O. 144 /D.143 Jaipur dated: 30.01.2024

Copy submitted/forwarded to the following along-with enclosures for information:

1. The Chief Engineer (PP&D), RVPN, Jaipur
2. The Zonal Chief Engineer (T&C/Civil), RVPN, Jaipur
3. The Chief Controller of Accounts-I/II, RVPN, Jaipur
4. The Chief Accounts Officer (PP&D), RVPN, Jaipur
5. The Superintending Engineer (T&C-Rural), RVPN, Jaipur
6. The Dy. Director (IA), RVPN, Jaipur.
7. The Resident Audit Officer, RVPN, Room No. 418, Vidyut Bhawan, Jaipur.
8. The Commissioner of Income tax, Rajasthan, Statue Circle, Jaipur.
9. The Commissioner (Commercial Taxes), Govt. of Rajasthan, Jaipur, Kar Bhawan, Jaipur.

Copy forwarded to the following along-with enclosures for information and necessary action:-

10. The Executive Engineer (T&C-Rural/Civil/MPT&S), RVPN, Jaipur
11. The Sr. Accounts Officer (CPC), RVPN, Jaipur.
12. The Assistant Engineer(T&C-Phagi), RVPN, Jaipur-Rural
13. The Assistant Engineer (Civil), RVPN, Jaipur
14. The Accounts Officer (P&C - II), RVPN, Jaipur.



SUPERINTENDING ENGINEER(AUTO., N/M & SP)



RVPN

An ISO 9001 : 2015
Certified Company

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

[Corporate Identity Number (CIN):U40109RJ2000SGC016485]

Regd. Office: Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur-302005

GST Registration No. 08AABCR8312A1ZT

OFFICE OF THE SUPERINTENDING ENGINEER(AUTO., N/M & SP)

RVPN, VIDYUT BHAWAN, JANPATH, JYOTI NAGAR

JAIPUR, RAJASTHAN, INDIA, PIN CODE : 302005

TELEPHONE : 0141-2740752, FAX : 0141-2740794

EMAIL : se.spi@rvpn.co.in, Website: <https://energy.rajasthan.gov.in/rvpn>

PURCHASE ORDER No- 5700000310

Vendor Details :

Vendor Name : KAYCEE ENERGY & INFRA LTD (1001178)

Address: PLOT NO-9, NANTA ROAD

KOTA

RAJASTHAN, INDIA

Pincode : 324008

Contact No. :

Fax No. :

Email Address : kaycee.energy.infra@gmail.com

TIN No. :

GST No. : 08AAFCK7333L1Z6

PAN No. : AAFCK7333L

SER.Tax No. :

Bid No. : 9012002316

Bid Opening Date : 01-12-2023

Subject : Letter of award for "Modification of 132 kV S/C line from 220 kV GSS Sanganer to 132 kV GSS Balawala between location no. 22 TTB to 26 TTD with 500 Sq.mm. , 132kVXLPE cable system (3+1 spare cable) on 220kV D/C narrow base towers including detailed route survey, laying and installation of cable alongwith associated accessories/items and civil works", against specification no. RVPN/ EHV/A&SP/TN-115.

This Office Contract No. RVPN/SE (AUTOMATION)/A&SP/TN-115/Contract/P.O.144/D.143 Jaipur dated:30.01.2024

LOI Ref : This office Letter of Intent RajKaj No. 5229795 dated 22.12.2023.

Ref : 1.0 REFERENCE:

This has reference to the following:

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VOLUME - II: TECHNICAL SPECIFICATION

MOM of Pre-Bid Meeting held on 12.10.2023.

1.2 POST BID REFERENCES:

i. Your offer reference no. Kaycee/TN-115 dated 24.10.2023, submitted online on eproc.rajasthan.gov.in and Techno Commercial bid opened on date 01.12.2023 and price bid opened on date 14.12.2023.

ii. This office Letter of Intent RajKaj No. 5229795 dated 22.12.2023.

iii. Your Notification of Award acceptance letter dated 23.12.2023.

The detailed terms & Conditions of the work order is as per hard copy issued vide this office letter No. RVPN/SE (AUTOMATION)/A&SP/TN-115/Contract/P.O.144 /D.143 Jaipur dated:30.01.2024


(V.A.Kale)

Superintending Engineer (Automation, N/M & SP)
RVPN, Jaipur.