



DAMODAR VALLEY CORPORATION

75
आज़ादी का
अमृत महोत्सव



भारत 2023 INDIA

वसुधैव कुटुम्बकम्

ONE EARTH • ONE FAMILY • ONE FUTURE



ANNUAL REPORT 2022-23

ANNUAL REPORT 2022-23

Our Core Values

Integrity, Honesty, Transparency & Accountability define our Teams' **Attitude** & drive our behaviour

We are **Committed** as a **Team** to provide best **Service** to our **Customers**
Safety of our Employees, Customers and People of India is paramount to us



Power Generation



Power Transmission & Distribution



Water Management



Corporate Social Responsibility



Mine Development



DVC receives the prestigious CBIP 2022 award for Best Performing Thermal Power Utility



The Hon'ble Cabinet Minister of Power and New & Renewable Energy, MoP, GoI, Shri R. K. Singh addressing the audience on DVC's 75th Foundation Day event



Release of DVC Commemorative Stamp



Inauguration of first Electric Vehicle Public Charging Station of DVC at Maithon

ANNUAL REPORT 2022-23



DAMODAR VALLEY CORPORATION



Vision

“To be an integrated, diversified and sustainable power major ensuring socio-economic development of the people and creating value for the stakeholders”

Mission

- Focus on sustainable growth with optimization of resources & monetization of assets ensuring safety, quality and greener environment.
- Transition towards clean energy by adopting innovative and advanced technologies.
- Deliver quality, reliable and affordable services to all consumer segments with an unwavering commitment.
- Maintain a culture of value, ethics, trust and integrity in the organization.
- Emphasis on human resource development and nurturing organizational pride.

Objectives

- To maximise generation on sustainable basis through implementation of best O&M practices and adoption of comprehensive overhauling programme
- To augment generation capacity through timely execution of extension and greenfield projects
- To strengthen existing transmission and distribution network in order to match the capacity addition
- To ensure effective flood-control, irrigation and water supply for industrial and municipality usage in Damodar Valley area through optimum utilisation of available water resources in the Damodar basin
- To improve the financial health of the Corporation by adoption of efficient industrial, commercial and human resource management practices
- To strengthen activities of eco-conservation in the valley area in order to make a greener Damodar Valley
- To promote unified socio-economic development for the inhabitants of DVC Command Area by successfully carrying out various corporate social responsibility programmes
- To pursue development of tourism and fish farming in and around water reservoir area of DVC





Reference Information

DVC Headquarters

DVC Towers, VIP Road, Kolkata 700 054

Phone 033 2355 7935 033 2355 6965

Website: www.dvc.gov.in

Joint Venture Companies

Maithon Power Limited

Bokaro Power Supply Company Private Limited

DVC EMTA Coal Mines Limited

National High Power Testing Laboratories Private Limited

Green Valley Renewable Energy Limited

Bankers

State Bank of India, Punjab National Bank, Bank of India, Union Bank of India, Canara Bank, Bank of Baroda, IndusInd Bank, HDFC Bank

Financial Institutions

PFC, REC, WBIDFCL

Auditor

Comptroller & Auditor General of India

DVC Board

----- FULL-TIME BOARD MEMBERS -----

----- Chairman -----



Shri Ram Naresh Singh
Assumed charge on 15.01.2021

----- Member-Secretary -----



Shri Ram Naresh Singh
01.02.2022 - 15.06.2022 (addl.Charge)



Dr. John Mathai
Assumed Charge on 16.06.2022

----- Member (Finance) -----



Shri Arup Sarkar
Assumed charge on 20.08.2021

----- Member (Technical) -----



Shri M. Raghu Ram
Assumed charge on 18.01.2021

----- PART-TIME BOARD MEMBERS -----

----- Representative of Central Government -----



Shri. V. K. Dewangan, IAS
Additional Secretary (Thermal)
Ministry of Power, New Delhi
14.06.2019-06.06.2022



Shri. Piyush Singh, IAS
Joint Secretary (Thermal & Coal, Coordination)
Ministry of Power, New Delhi
Assumed charge on 07.06.2022

----- Representative of Jharkhand Government -----



Shri Avinash Kumar, IAS
Additional Chief Secretary (Energy Department)
Govt. of Jharkhand
Assumed charge on 09.10.2020

----- Representative of West Bengal Government -----



Shri Santanu Basu, IAS
Secretary (Power)
Govt. of West Bengal
Assumed charge on 03.03.2020



CONTENTS

▪ DVC's Corporate Vision, Mission and Objectives	2-3
▪ Foreword	8
▪ Operational Performance Highlights in FY 2022-23	10
▪ Demand and Supply of Power	13
▪ Transmission & Distribution of Power and Augmentation of Transmission capacity	20
▪ Retail Distribution	22
▪ Communication & Information Technology, Enterprise Resource Planning	23
▪ Information Security Division (ISD)	26
▪ Capacity Addition Programme	27
▪ Operation Services & Up-gradation	29
▪ Environmental Management & Pollution Control	32
▪ Project Works including Mining Projects	34
▪ Major works including Environmental impact Reduction Measures	36
▪ Flood Control & Water Resource Management	44
▪ Fuel Management	47
▪ Contract & Material Management	49
▪ Renewable Energy, Energy Efficiency and Research & Development	51
▪ Business Development	56
▪ Soil Conservation Pisciculture and Environment Department	58
▪ Corporate Social Responsibility	62
▪ Education	72
▪ Human Resource Management	73
▪ Vigilance Activities	81
▪ Promotion of Official Language	84
▪ Health Services	85
▪ RTI ACT	86
▪ Public Grievance	87
▪ Finance & Accounts	88
▪ Statement of Audit 2022-23	99
▪ Statement of Accounts 2022-23	103



FOREWORD

75 years – it surely means a lot in the journey of an organisation when this landmark is arrived upon. Hence, when on 7th July, 2022, DVC stepped into its seven & half decades of relentless service to the nation's progress, it was time to savour the moment. Conferences & Seminars were organised, memorable glimpses of past & present were put on display in a Photographic Exhibition, DVC Commemorative 'My Stamp' was released, a meticulously curated Commemorative Volume was published and all these were capped by a grand cultural event, where Shri R.K.Singh, Hon'ble Cabinet Minister, Power and New & Renewable Energy, graced as the Chief Guest.

In the same month, as if on cue, "Ujjwal Bharat, Ujjwal Bhavishya Power@2047" was celebrated across the country on the occasion of Azadi Ka Amrit Mahotsav from 25th to 30th July, 2022. DVC was entrusted by MoP, GoI, with the responsibility to organise this mega event in 15 districts of West Bengal and all the 24 districts of Jharkhand, showcasing to the general public the achievements in the Power sector both from National & State perspectives and also India's vision for 2047, when we will be completing hundred years of our independence. Beneficiaries were invited on stage to present their account on the facilities they have been receiving because of improvements in the power scenario. The programs were enlivened by cultural shows where participants included local residents, school children, college students, professional artists etc. People's representatives like local MP and MLA, heads and officials of District administration, State DISCOMs, Educational institutions & PSUs were invited as Chief Guests. A grand finale was held on 30th July in hybrid mode at 100 locations where our Hon'ble Prime Minister personally interacted with the beneficiaries.

The entire DVC family having grasped the significance of this year rose to the occasion & came up with a stellar performance to help the organisation end FY22-23 on a truly trailblazing note. DVC achieved the highest generation in its entire history, by registering 43.326 BU, which included 43.087 BU of Thermal, 239.4 MU of Hydel & 0.11 MU of Solar power. The thermal generation was also the highest ever, surpassing the record of 40.75 BU, set in previous FY. The Plant Load Factor (PLF) stood at 74.23 %, which was the highest in last two decades. Total energy supplied by DVC increased by 2.6 BU marking a 6.5% hike. The Billing & Collection of power sale revenue also showed considerable improvement by a rise of 29% & 23% respectively over the last FY. These outstanding figures earned DVC the CBIP 2022 Award for Best Performing Thermal Power Utility in the country.

DVC doesn't intend to rest on these laurels & has set its sight firmly on an aggressive future expansion plan, with a target of doubling its installed capacity to 15GW by 2030. With India having declared its commitment to the world to meet 50% of its energy demand through Renewables by 2030, DVC has also taken concrete steps to improve its energy mix to more than 30% Green Power within the same time frame. Rooftop Solar projects have been successfully commissioned & considerable progress has been made in Ground Solar & Floating Solar capacity addition. Pumped Storage Hydropower projects at Lugu Pahar & Panchet Hill are also on the anvil. DVC has recently ventured into EV charging while promoting use of Electric Vehicles by engaging these in its official fleet as well as for occasional purposes.

In a major boost towards sustainable development, the Durgapur Steel Thermal Power Plant (2x500MW) of DVC, successfully started co-firing of biomass pellets (Non-torrefied) along with coal. As per policy issued by SAMARTH Mission, MoP, GoI, coal fired thermal power stations have obligation of 7% blending of biomass pellets along with coal. This will save coal consumption as well as help in achieving carbon neutrality and "Net Zero" targets.

In a commendable development towards enhancing fuel security, DVC has started Coal production from its Captive mine at Tubed, Latehar district, Jharkhand. On 29.05.2023 when the first Coal laden Rake chugged its way from the Kushmahi siding towards DVC, CTPS (Chandrapura Thermal Power Station), it marked the fruition of years of unrelenting toil & dedication of Team Mining, DVC in the most trying of circumstances & against a plethora of odds. This would surely aid DVC in being more competitive with its tariff, as it eyes to expand its consumer base even in the 11kV retail distribution level.



DVC has started injecting fresh blood in its employee line-up with the recruitment process having been resumed after a considerable hiatus. It has also given impetus to the domains of Research & Training, the two facets of an organisation which help to nudge its nose ahead of its peers.

Societal responsibility is something which DVC finds pleasure in honouring round the clock. It has been quietly bringing about sea changes in community upliftment in its command area since inception. These inspiring tales actually form the core of Brand DVC, which strives to spell reliability in general perception.

DVC was conceived in the backdrop of grave human plight & as a benevolent entity meant to alleviate all those suffering. In harnessing the mighty Damodar & bringing power to the people, DVC has certainly lived up to the expectations of its founding fathers. It's now time for DVC to further bolster its position in the national Power scenario by employing widespread technological upgradation, embracing sustainability, imparting dynamism & competitiveness in its workforce and strengthening the social connect. Having found wind beneath its wings, DVC is bound to soar high & above, scripting a success story to match its own golden legacy.



Operational Performance Highlights in FY 2022-23:

Generation of Electricity:

Power Generation Assets:

Particulars		Jharkhand	West Bengal	Total
Installed Capacity	Hydel	Panchet: 80 MW (2x40MW)	Maithon: 63.2 MW (2x20 MW + 1x23.2 MW)	147.2 MW
		Tilaiya: 4 MW (2x2 MW)		
	Thermal	Bokaro: 500 MW (1x500MW)	Durgapur Steel: 1000 MW (2x500 MW)	6540 MW
		Chandrapura: 500 MW (2x250 MW)		
		Koderma: 1000 MW (2x500 MW)		
		Roghunathpur :1200MW (2x600MW)		
	Solar	Ground Mounted		3.82 MW
		Total		6691 MW
JVs	Thermal	DVC-SAIL: 338 MW	---	1388 MW
		TATA Power-DVC: 1050 MW		

Generation in FY 2022-23 as compared to FY 2021-22:

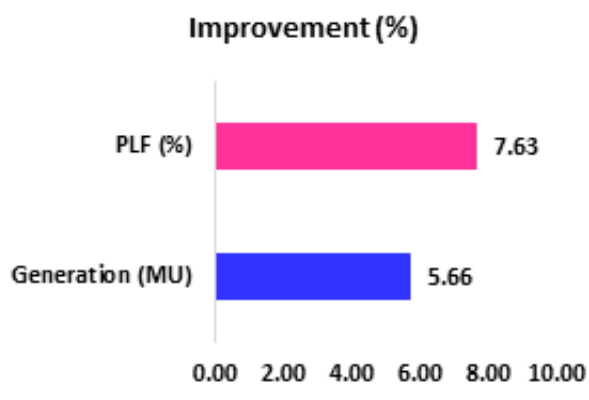
During FY 2022-23, Gross generation of DVC increased by **5.66 %** compared to gross Generation in FY 2020-21.

Type	Present Capacity (MW)	Generation (MU)		Improvement (%)
		FY 21-22	FY 22-23	
Thermal	6540	40775	43085	(+) 5.66
Hydel	147.2	489	239.4	(-) 51.04
Total Generation	6687.2	41264	43324.4	(+) 4.99

Comparison of Operating Parameters of Thermal Power Units:

Operating Parameters	FY 21-22	FY 22-23
Thermal Generation (MU)	40775	43085
PLF (%)	68.96	74.22

- Note: Highest PLF achieved 74.22 % which is well ahead of all India thermal PLF of 64.15% in FY 22-23.





NOTABLE ACHIEVEMENTS DURING THE FY 2022-23:

- DVC TPS ranked 22 times (CTPS 6 times, KTPS 6 times, BTPS 'A' 7 times and DSTPS 3 times) among the best 10 Central sector stations in terms of monthly PLF in FY 22-23.
- BTPS-A, KTPS, DSTPS, CTPS and MTPS ranked among the best 25 Central sector stations in terms of yearly PLF in FY 22-23.
- Thermal generation of DVC is 43085 MU at 74.22 % PLF in FY 22-23 which is the highest ever thermal generation in history of DVC surpassing the previous highest thermal Generation of 40775 MU at 68.96 % PLF in FY 21-22.

Stations Achieving all time highest Generation and other important targets:

- MTPS generated 15668 MU at 76.44% PLF surpassing its previous record of 14599 MU at 71.22% PLF in FY 21-22.
- BTPS generated 3796.1 MU at 86.67% PLF surpassing its previous record of 3271 MU at 74.69% PLF in FY 20-21.
- DSTPS generated 7096.2 MU at 81.01% PLF surpassing its previous record of 6655.4 MU at 75.98% PLF in FY 16-17.
- KTPS Unit#1's uninterrupted run for 393 days at a stretch is the highest continuous running for any unit of DVC since inception.
- U#1 RTPS crossed 100 days 1st time when continuously ran for 146 days from 19th Apr,22 to 13th Sep,22.
- BTPS A crossed 100 days for 1st time when continuously ran for 146 days since 26th Jul,22 to 19th Dec,22.
- **First Biomass co-firing in DVC:** DVC successfully started biomass co-firing at Durgapur Steel TPS in Feb'23.
- Successful completion of overhauling of RTPS U#1 through Indian vendor without physical presence of OEM experts from China.
- Successful Rehabilitation of Wagon tippler and Successful commissioning of Second Railway line at RTPS.
- Successful R&M from old solid state-based system to new state of art DCS (maxDNA) System of Mejia Unit#1.
- Utilization of DTPS CHP for coal stock building of MTPS through road transportation from DTPS to MTPS





Infrastructure at a Glance

DVC Command Area	24,235 sq.km
Power Management	
Total Capacity	6691 MW
Thermal Power Stations	Seven
Thermal Capacity	6540 MW
Hydel Power Station	Three
Hydel Capacity	147.2 MW
Renewable Capacity (Rooftop & Floating Solar)	3.923 MW
Substation (Including Power House Switch Yard)	At 400kV -5 At 220kV- 16 At 132 kV- 26 At 33kV -1
Transmission & Distribution Lines	At 400kV- 478ckt-km At 220kV- 2958 ckt-km At 132kV- 3639.3 ckt-km At 33kV- 1528 ckt-km At 11kV- 13.159 ckt-km
Water Management	
Major Dams and Barrage	Tilaiya, Konar, Maithon and Panchet Dam and Durgapur Barrage
Irrigation Potentials Created	3,34,274 hectares (Kharif) 21,044 hectares (Rabi)
Flood Reserve Capacity	1178 million cu.m.
Canals	2734 km
Mining	
Tubed Coal Mine	6.0 MTPA



DEMAND & SUPPLY OF POWER

Generation of Electrical Energy:

The total installed capacity of the DVC Power Stations at the end of FY 2022-23 is **6687.303** MW comprising of **6540** MW from six(6) Thermal Power Stations namely Bokaro Thermal Power Station (BTPS A - 1 X 500 MW), Chandrapura Thermal Power Station (CTPS) (2X 250 MW), Mejia Thermal Power Station (MTPS) (4 X 210 MW, 2 X 250 MW, 2 X 500 MW), Durgapur Steel Thermal Power Station (2 X 500 MW), Koderma Thermal Power Station (KTPS) (2 X 500 MW), Raghunathpur Thermal Power Station (RTPS) (2 X 600 MW), **147.2** MW from three (3) Hydel Power Stations namely Maithon Hydel Station (MHS) (2 X 20 MW, 1 X 23.2 MW), Panchet Hydel Station (PHS) (2 X 40 MW), Tilaiya Hydel Station (THS) (2 X 2 MW) and **3.923** MWp from three (3) Solar PV Plant at DVC Towers, Kolkata (53 kWp), Mejia Thermal Power Station (MTPS) (25 kWp) and Koderma Thermal Power Station (KTPS) (25 kWp) and rooftop Solar PV plants (3.82 MWp). During the year 2022-23, total energy generation has been **43327.838** MU as against **41264.18** MU in the year 2021-22. The total station-wise generation in MU is indicated in the Table-I below: -

TABLE-I

Gross Generation

GENERATION		2021-22	2022-23
		ENERGY GEN. (MU)	ENERGY GEN. (MU)
A	THERMAL		
	BOKARO 'B' TPS	0	0
	CHANDRAPURA TPS (Unit # 7 & 8)	3816.790	3478.14
	DURGAPUR TPS	215.116	135.120
	MEJIA TPS Ph-I (Unit # 1 to 6)	8190.638	8403.36
	MEJIA TPS Ph-II (Unit # 7 & 8)	6408.200	7264.83
	DSTPS (Unit # 1 & 2)	6138.486	7096.24
	BOKARO 'A' TPS	2996.845	3796.10
	KODERMA TPS (Unit # 1 & 2)	6930.247	7269.62
	RAGHUNATHPUR TPS (U#1 & 2)	6078.846	5641.51
	TOTAL - A	40775.17	43084.92
B	HYDEL/SOLAR		
	MAITHON HPS	221.419	100.1121
	PANCHET HPS	245.464	136.473
	TILAIYA HPS	22.017	2.4097
	SOLAR	0.110	3.923
	TOTAL - B	489.01	242.918
	GRAND TOTAL (A+B)	41264.18	43327.838

Power Demand and Supply

Like Previous years, DVC, in accordance with the provision of the DVC Act, 1948, continued to supply power to its retail/firm consumers in Core Sectors like Traction, Steel, Coal and other load categories at 11 KV, 33 KV, 132 KV and 220 KV voltage levels at different locations within the Damodar Valley area and also at few locations beyond the valley area with the permission of the concerned State Governments. Consumers in steel sectors like Bokaro Steel Ltd. (BSL), Durgapur Steel Plant (DSP), Indian Iron & Steel Co. (IISCO) under Steel Authority of India Ltd. (SAIL) and Tata Steels Ltd. (TISCO), Jindal Steel and Power Ltd. (JSPL) under Private Category receive DVC Power directly from different off-take points. The Constituents of Coal India Ltd. Viz. Eastern Coal Fields Ltd. (ECL), Central Coal Fields Ltd. (CCL), and Bharat Coking Coal Ltd. (BCCL) draw DVC power directly and through respective Boards/Licensee – JBVNL, WBSEDCL and India Power Corporation Ltd. (IPCL, formerly DPSC Ltd.). Traction load demand of Indian Railways viz. Eastern Railway (ER), East Central Railway (ECR) and South Eastern Railway (SER) are also being met from DVC.

Further, JBVNL is drawing power from Koderma TPS through schedule mode at existing 36 nos. off-take points. In respect of miscellaneous and other load, DVC supplies power to Public Sector Undertakings like Chittaranjan Locomotive Works (CLW) & NTPC. DVC also supplies power to Misc. & Other loads (M & O Load) directly or through JBVNL and WBSEDCL, IPCL, etc. and also to several other private industrial consumers at different locations in the state of West Bengal and Jharkhand. The detailed category wise contract demand and energy sold to consumers are furnished hereunder (Table-II):

TABLE – II

Contract Demand and Energy Sold to Different Categories of Retail Consumers

A. Central Government/Public Sector Undertaking:

Consumer	CD (MVA)As on 31.03.23	Energy Sold(MU)
1. STEEL (SAIL) (6 off-take points)	488.00	2853.689
2. COAL (CIL) (28 off take points)	314	1417.028
3. TRACTION (Railways) (6 off-take points)	88.625	278.686
4. M & O Load		
a) CLW	9.00	30.322
b) ECR GOMOH	2.00	7.745
c) GARRISION ENGINEERS	1.60	7.398
d) SAIL (REFRACTORIES) (3 off-take points)	3.60	8.478

B. State Electricity Boards/Private Consumers:

Consumer	CD (MVA) As on 31.03.23	Energy Sold (MKWH)
1. State Power Utilities		
a) WBSEDCL (9 off-take points)	114.8	572.496
b) JBVNL (1 off-take points)	10.00	0.452
2. Private Consumers		
a) TISCO (4 off-take points)	144.00	475.317
b) India Power (IPCL) (4 off-take points)	49.0	237.465
c) JUSCO (2 off-take points)	96.00	602.01
d) Misc. Consumers other than above (261 off-take points)	2115.375	13427.354



Power Demand:

The contract demand (CD) in respect of different points of existing retail/firm supply has remained almost same in 2022-23. The contract demand of DVC consumers at the end of the year 2022-23, works out to be **3436** MVA corresponding to last year's (21-22) CD of 3502 MVA as depicted in Table-III. The Table IV shows that out of **327** (last year 304) consumers / off-take points (HV/EHV), **190** nos. (last year 171 nos.) with a contract Demand of **1692** MVA (last year 1624 MVA) are in Jharkhand, while **137** nos. (last year 133 nos.) with a contract demand of **1744** MVA (last year 1878 MVA) are in West Bengal.

TABLE-III

	Category-wise	CD (MVA)	
		2021-22	2022-23
1(a).	SAIL	488.00	488.00
(b).	Other Steel	1758.750	1771.455
	Total Steel	2246.75	2259.455
2 (a).	CIL	312.8	314
(b).	Other Coal	41.00	41.00
	Total Coal	353.8	355.00
3.	Licensees	387.8	372.8
4.	Indian Railways	96.625	88.625
5.	M & O	417.025	360.12
	Grand Total	3502	3646

Table -IV (State-wise)

	STATE		CD (MVA)	NO. OF OFF-TAKE POINTS (HT/EHT)
A	JHARKHAND	a) INSIDE VALLEY	1427.375	184
		b) OUTSIDE VALLEY	264.625	6
		TOTAL	1692.0	190
B	WEST BENGAL	a) INSIDE VALLEY	1696	134
		b) OUTSIDE VALLEY	48	3
		TOTAL	1744	137
	GRAND TOTAL		3436	327

(State-wise & Category-wise)

STATE	STEEL	COAL	TRACTION	JBVNL	PVT. LICEN.	WBSEDCL	M & O	TOTAL
JHARKHAND	899.67	351.5	83.625	10.0	199	---	148.205	1692
WEST BENGAL	1359.785	3.5	5	---	49	114.8	211.915	1744

Inter Connection Operation:

As usual, inter-connected operation of DVC power system with the adjoining power system of the eastern region including the Central Sector Power Stations at NTPC, continued during 2022-23. Like previous years, power from Chukha Hydel Power, Kurichu Hydel Power and TALA Hydel Power was received by DVC through PTC. TALA Hydro-Electric Project located at Bhutan commenced its generation in the year 2005-06 and DVC continued to receive this power as per its share allocation made by Ministry of Power, Govt. of India. Power from Rangit HEP of NHPC continued as per share allocation. During the year, DVC has also received power as usual from Maithon Power Limited (MPL). The purchase of power may be seen from Table- V.

TABLE - V

Purchase of Power

Total Power Purchased from ISGS (at DVC Bus)	:	56,99,92,721 KWH
Total Power Purchased from Maithon Power Ltd. (at DVC Bus)	:	1,04,31,56,118 KWH
Total Power Purchased on account of Solar (at DVC Bus)	:	6,01,45,651 KWH
Total Power Purchased from Power Exchanges	:	37,43,39,765 KWH
Total Power Purchased from GDAM	:	33,09,98,122KWH
TOTAL	:	2,37,86,32,377 KWH

Wheeling of Power:

Like previous years, wheeling of power of TATA STEEL from Jamshedpur, has been continued as usual through DVC's T&D network during the year 2022-23. Further, 110 MW power by Indian Railways has been wheeled through DVC's T&D network on medium term basis for utilizing the same at their 14-off-take points connected with DVC system.

Sale of Power (Firm Sale):

	West Bengal	Jharkhand	DVC as a Whole
Contractual Demand (CD) (MVA)	1744(50.75%)	1692(49.25%)	3436(100%)
Annual Energy Consumption (MU)	10996.79 (55.21%)	8921.65 (44.79%)	19918.44 (100%)

EXPORT OF SURPLUS POWER

Like previous year, after fulfilment of valley demand, DVC has supplied power to the different beneficiaries located in the other regions of the country namely DISCOMs of Delhi, Haryana, Punjab, TATA steel, Madhya Pradesh, TPDCL and JBVNL etc. through Short Term Open Access (STOA) / Medium Term Open Access (MTOA) / Long Term Open Access (LTOA) mode. During the year, DVC has also continued to supply power to Karnataka State DISCOMs from Mejia TPS (Unit 7&8) and Koderma TPS (Unit 1&2). DVC has also continued to supply power to Kerala from Mejia TPS (Unit 7&8) and Raghunathpur TPS (Unit 1&2). Further, DVC is also exploring to tie-up with other utilities (including State Utilities) to allocate power on STOA/MTOA/LTOA basis. The Power Purchase allocation to the different beneficiaries and energy sold in FY 2022-23 are furnished hereunder (Table-VI):

TABLE - VI

Sale of Power to Beneficiaries

Beneficiary	Allocation In MW as on 31.03.2023	Energy Sold (MU) [2022-23]
JBVNL	600	4189.42
PSPCL	700	3703.41
Delhi Discoms (BYPL, BRPL, TPDCL)	511.12	3110.28
Karnataka Discoms	450	3051.46
HPGCL	300	1794.45
TSL	200	1228.26
Kerala SEB	150	889.08



Beneficiary	Allocation In MW as on 31.03.2023	Energy Sold (MU) [2022-23]
Railways (NR,WR,NWR &NCR)	250	744.65
MPPMCL	100	529.65
WBSSEDCL	50	356.03
IPCL	16	61.03
Total	3327.12	19657.72

TABLE - VII

Sale of Power Overall

Name of Consumers	2021-22		2022-23	
	Existing CD (MVA)	Energy Sold (MU)	Existing CD (MVA)	Energy Sold (MU)
A. Retail Consumers				
1) Licensee				
a) IPCL	49.0	96.532	49.0	237.46
b) JBVNL	35.00	206.461	10	0.45
c) WBSSEDCL	114.80	384.599	114.80	572.49
d) JUSCO	86.0	515.808	96	602.01
e) TISCO	103.0	252.928	103.0	282.88
2) Industrial Consumer	3017.575	16249.490	2974.575	17944.5
3) Railways (Traction)	96.625	272.40	88.625	278.69
4) Commercial	----	----
Total	3502	17978.218	3436	19918.44
B. Bilateral Export including Bangladesh	-	21560.778	-	22221.592
C. Through Power Exchange	-	196.954	-	82.655
D. Total Sale of Power	-	39735.95	-	42222.687

Power Supply Tariff:

DVC has continued preferring power supply bills to all its firm/retail consumers in the state of Jharkhand during current year as per retail tariff order dated 30.09.2020 by JSERC till 31.01.2023 and further as per order of JSERC dated 30.01.2023 power supply bill to the consumers in Jharkhand has been raised w.e.f. 01.02.2023.

In the above context, as per latest tariff order of WBERC dated 03.03.2017, DVC has continued preferring power supply bills to the consumers of West Bengal for FY 2022-23 till 30.04.2022. Further as per order of WBERC dated 05.05.2022 power supply bill to the consumer has been revised w.e.f. 01.05.2022 and that of WBERC order dated 17.06.2022 bill has been revised w.e.f. 01.06.2022. The current tariff rate is mentioned below (Table-VIII):

TABLE - VIII

a) Tariff for the firm consumers of Jharkhand:

PERIOD	DEMAND CHARGE	AVG. ENERGY CHARGE PER UNIT
01.10.2020 onwards	Rs. 350 / KVA/ Month	33 KV Energy Charge @ 3.40 Rs./KVAH (For licences) 33 KV Energy Charge @ 3.75 Rs./KVAH (For HT/EHT consumer)
01.02.2023 onwards	Rs. 400 / KVA / month	33 KV Energy Charge @ 3.60 Rs./KVAH (For licences) 33 KV Energy Charge @ 3.95 Rs./KVAH (For HT/EHT consumer)

b) Tariff for the firm consumers of West Bengal:

Type of Consumers	Tariff Scheme	Demand Charge (Rs./KVA/month)	Energy Charge (Paise/Kwh)			
			Summer	Monsoon	Winter	
Industries (33 KV)	Normal	384	476	474	472	
Industries (132 KV)			462	460	458	
Industries (220 KV & above)			447	445	443	
Type of Consumers	Tariff Scheme	Demand Charge (Rs./KVA /month)	Time period for Consumption	Energy Charge (Paise/Kwh)		
Industries (33 KV)	TOD	384	06.00-17.00 hrs.	467	465	463
			17.00-23.00 hrs.	560	558	554
			23.00-06.00 hrs.	397	395	394
Industries (132 KV)			06.00-17.00 hrs.	452	450	448
			17.00-23.00 hrs.	542	540	538
			23.00-06.00 hrs.	384	383	381
Industries (220 KV & above)			06.00-17.00 hrs.	437	435	433
			17.00-23.00 hrs.	524	522	520
			23.00-06.00 hrs.	371	370	368

Besides the above, power factor & load factor rebate has also been allowed by the Hon'ble WBERC.

New/Prospective Consumers:

Owing to the changed scenario in the industrial front and industrial policy of both the states of West Bengal and Jharkhand, many entrepreneurs have rushed to DVC for setting up their factories around DVC substations for quality DVC power.

During the year 2022-23 a total of 33 nos. of new consumers with total initial CD of 34 MVA have been benefited by power supply from DVC. Further, many consumers are in the queue for availing quality power of DVC.

To cater future rapid industrialization and upcoming projects in the valley area and based on the applications received from different prospective consumers along with an increase in demand of the existing consumers as well as to distribute power at different load distribution centres from DVC grid, Transmission and Distribution (T & D) network is being reinforced/augmented according to need - including construction of new sub-stations/receiving stations.



33/11KV infrastructure at Kumardhubi Sub-station, Koderma Receiving-station and Biada Sub-station for power supply to consumers at 11KV level has been successfully commissioned. With this DVC has ventured into distribution at 11KV voltage level. Commissioning of other 33/11KV Sub-station are in pipeline.

Consumer Meets have been organized at valley area regularly to assess the potential of load growth, particularly at 11 KV level.

RPO Fulfilment:

DVC has put an all-out effort to meet RPO in respect of Jharkhand and West Bengal retail consumers through various means like procurement of RE power through GDAM, Solar power purchase from NTPC & NVVNL(40 MW), solar power generation from roof top solar of 3.923 MWp, Hydel power generation from Tilaiya mini hydel(4 MW), through net metering(6 MWp at Chittaranjan Locomotive Works) etc. Apart from this, DVC also purchases requisite nos. of Solar and Non-Solar REC from Exchanges for meeting balance RPO.

In **Jharkhand**, DVC has successfully complied its Renewable Purchase Obligation (RPO) in Non-Solar RE by achieving 1288.97 MU against a target of 1200.27 MU. In case of Solar RPO, it has achieved 95.40% of target (1217.73 MU) by complying 1161.75 MU (adjusted fulfilment as per Regulation).

In **West Bengal**, DVC has successfully complied its Renewable Purchase Obligation (RPO) in Non-Solar RE by achieving 1141.45 MU against a target of 1100.83 MU. In case of Solar RPO, it has successfully complied by achieving 603.59 MU (adjusted fulfilment as per Regulation) against a target of 600.45 MU.

Overall, DVC met nearly 99% RPO target.

RE Bundling:

In line with the directives/guidelines of MOP, DVC is planning to purchase Renewable power for RE Bundling to replace the Thermal Energy with Renewable Energy as per trajectory set by MOP for DVC which in turn shall reduce the cost of power under existing PPA, meet RPO commitment, save coal leading to reduced carbon emission, lesser/no import of costly coal, promote Grid connected Solar power etc.

In the initial stage, DVC is planning to procure 500 MW Solar power and 100 MW Wind power for RE Bundling in FY 2023-24. For that, DVC engaged M/s RECPDCL to act as Bid Process Coordinators for bidding and selecting successful RPDs.



Transmission & Distribution (T&D) System:

Transmission and Distribution (T&D) system of DVC consists of a vast network of 132 KV, 220 KV, 400 KV EHV transmission lines & 33 KV distribution lines and DVC recently ventured into 11KV distribution also. It acts as the mainstay for evacuation of power from generating stations to the consumers like WBSEDCL, JBVNL, SAIL, Coal sector, Railways, and other industrial consumers at different voltage levels in the state of Jharkhand and West Bengal. 400 KV transmission system is also connected to the National Grid for supplying power to the beneficiaries in the states of Karnataka, Kerala, Delhi, Punjab, Haryana, West Bengal, Jharkhand, TATA Steel etc.



T&D network of DVC

11 KV	33 KV	132 KV	220KV	400KV	Total	
Sub-stations including Power House Switch Yard (Nos.):						
	13	26	16	5	60	
Transmission & Distribution Lines (Circuit KM):						
12.65	1527.93	3639.17	2958	478	8615.75	
Transformation capacity (MVA):						
	33/11 KV	132/33 KV	220/33 KV	220/132 KV	400/220 KV	TOTAL (MVA)
	27.5	3620.5	1710	4020	2520	11898

During FY 2022-23, availability of the T&D system was 99.81%, which being well above the CERC benchmark, has enabled DVC to be eligible for Tariff incentives. |



To maintain steady and reliable power supply, construction of 638 Circuit KM of 220 KV line (220KV S/C MTPS – Ranchi, 220KV MTPS – Ramgarh & 220KV Parulia – Burdwan line) has been completed & commissioned and one 220 kV GIS Sub-station at Burdwan has been commissioned on 25.09.2022.

Construction of new bays, Replacement of conductors of old Extra High Voltage (EHV) transmission lines with HTLS Conductor, up gradation of transformation capacity at S/s etc. have been taken up to enhance the system stability as well as to take care of the growth in power demand.

Transformation capacity of 453.50 MVA has already been added in last one year and another 320 MVA is likely to be added soon.

Moreover, renovation and augmentation of age-old control and protection system along with related infrastructure of 09 nos. of 220 KV Sub-stations through Power System Development Fund (PSDF) has been completed.



For proper accounting of energy loss in T&D system and taking remedial measures thereof, DVC is in the process of implementation of 'System Energy Monitoring and Accounting (SEMA)' project (Phase-III) covering the entire DVC Grid.

Moreover, Renovation & Augmentation work for 11 nos. sub-station including 3 nos. of powerhouse switchyards (CTPS-A, DTPS, BTPS-B) has also been taken up. The total project cost is approximately Rs.2000 crore.

Relay & Instrument Testing Laboratory:

DVC's Relay & Instrument Testing Laboratory under Central Testing Circle (CTC), Maithon is one of its kind in the Eastern region having testing facilities for Relays and Instruments as well as all major electrical equipment & switchgear. It achieved a new benchmark when its meter testing cell was accredited by the NABL in accordance with the international standard ISO/IEC 17025:2005. It has been upgraded as per new NABL standards IS/ISO/IEC 17025:2017 in 2020.

In-house facilities such as Dissolved Gas Analysis (DGA) and other transformer oil screening tests such as Breakdown Voltage, Moisture content, Tan delta, Acidity & IFT are available in IOTL, CRITL under CTC. The IOTL, CRITL is also accredited by NABL standards IS/ISO/IEC 17025:2017 since 13.07.2022. Condition monitoring of transformer has been done as per IS: 1866 in CTC. The department provides testing and commissioning service to all DVC establishments and also renders services to various industries/utilities in the region at standardized rate and within optimum timeframe.

In transmission system, condition Monitoring like Signature Analysis of the transmission lines, Thermal Imaging of the lines & equipment, measurement of 3rd Harmonic Resistive Component (THRC) of Lightning Arrester's leakage current, measurement of Dynamic Contact Resistance of the Circuit Breakers, measurement of Tan Delta of transformers, CTs & PTs, Dissolved Gas Analysis of transformer oil are regularly carried out to incorporate condition-based maintenance practice in place of preventive maintenance. This, in turn, has resulted in reduction of maintenance time & costs and improvement of stability & reliability.

In a nutshell, Transformation capacity addition of 453.5 MVA, addition of line length 669.226 CKM transmission line has been achieved in 2022-23.



Retail Distribution:

Since inception DVC is engaged in retail supply of electricity to consumers connected at 33 KV and above voltage levels in the DVC command area. In 2022 DVC has entered in Primary Distribution to provide 11 KV power by creating 33/11 KV infrastructure at Kumardhubi, Koderma and BIADA. Detailed Project Report (DPR) has been prepared to develop 11 KV infrastructure at 39 locations to provide power to around 1500 consumers with total envisaged capacity of 975 MVA. To optimize the operational performance of Distribution Grid and higher consumer satisfaction, Advanced Distribution Management System (ADMS) has been considered in the DPR. Containerized Substation (E-House) has been considered at 12 locations to minimize the land requirement as well as time for setting up the infrastructure.



Conventional Sub Station is also planned at 08 nos. location where land is not a constraint.

11 KV prospective Consumer is facilitated by providing RMUs and Cable procured by DVC for ease of connection.



Communication & Information Technology:

Communication System:

- To utilise OPGW fibres to its full capacity, DVC has started protection of HT Lines through fibre by installing Digital Tele Protection Coupler in some of the strategic Lines. Now DVC is moving towards replacing all Protection Couplers through PLCC by Digital one using OPGW.
- Nearly 370 KM of OPGW have been laid in 2022-23 in addition to already existed 1700 Km (approx..) of OPGW in the 132 KV & 220 KV Transmission Lines, which have connected all Power Houses, Sub-stations, offices & other establishments of DVC through a Optical Fibre Network for both Data & Voice Communication.
- A separate network has been set up by using different pairs of fibre and installing switches/routers at all locations for IT. This complies the requirement of cyber security by making IT and OT on two different networks on fibre level.
- A massive project of CCTV installation at all the projects has been taken up to meet the security requirement of national importance.
- To obviate frequent faults in Communication equipment due to voltage fluctuations in auxiliary power at Sub-stations, UPS with isolation Transformer for all Fifty locations along with separate earthing is under process.

Information Technology (IT) Initiatives:

- IT solution was developed and deployed for online integration of DVC's payment vouchers duly processed/ approved through the organization's Enterprise Business Application(EBA system) with SBI bank's portal on a real time basis thereby obviating the manual intervention for disbursement of payments as was earlier required for the process.
- Cybersecurity Audit and its compliance for DVC's IT infrastructure and IT assets have been put into practice as per CEA guidelines.
- DVC's new website was launched with enhanced cybersecurity features for complying with the GIGW norms. The website is equipped with features like Employee's portal, Pensioner's portal, Vendor bill tracking, New Power Connection, etc.
- Many new online modules for the benefit of employees like medical bill reimbursements, Children education allowances, LTA, Pensioner's medical tie up bills, etc have been launched for faster processing of employee/pensioners' claims.

ERP [Project Samanwaya]

- ERP implementation in DVC refers to the process of introducing an Enterprise Resource Planning (ERP) system in Damodar Valley Corporation (DVC). DVC is a government-owned power utility located in eastern part of India. Although the establishment is mainly in West Bengal and Jharkhand, DVC provides electricity and other related services to millions of customers all over the country. The implementation of an ERP system in DVC is a major step towards improving the efficiency and effectiveness of its operations.

ERP in DVC:

- The implementation of an ERP system in DVC requires careful planning, analysis, and execution. It involves the selection of an appropriate ERP vendor, customization of the system to meet the specific requirements of the Corporation, training of employees, and migration of data from the existing systems. The success of ERP implementation also depends on the involvement and support of top management, effective communication with stakeholders, and a well-defined implementation strategy.

- ERP automates business processes, provides insights, and internal controls. As a result, the Corporation can be benefited by increased productivity and cost savings. It will eliminate inefficient manual processes and point out opportunities for growth. Moreover, ERP integrates well with cutting-edge technologies like cloud computing, enterprise mobility, BI, Big Data and integrated data systems etc. In a business, when several functions are managed separately through separate applications, different issues arise such as, Duplication of records, Lack of visibility, Data errors, Lack of communication between different areas of the businesses etc. ERP integrates and smoothenes the function of each business verticals and simplifies business processes by understanding the intricacies of the industry.
- Technology changes quickly. Therefore, legacy enterprise systems may no longer be sufficient for organisational growth, sometimes it may be a bar. Moreover, the cost for updating the software of an old system often becomes high. Hence, it is practical and financially sound to migrate to a modern, integrated solution.
- ERP implementation in DVC will help to manage the business functions within a centralized and integrated system. Moreover, it will ensure free flow of communication between business areas and will have a single source of information which in turn leads to accurate and real-time data reporting.
- DVC is a unique organization as it encompasses a range of businesses, including electricity generation, transmission, and distribution. Each of these businesses includes various verticals such as thermal, hydel, and renewable energy, with distinct functions like Finance & Accounts, Commercial Billing, Contracts & Material Management, Human Resource Management, Customer Relationship Management, Projects, Systems and Engineering, Plant Asset Maintenance, Quality Control, Inspection and more. Thus, implementing an ERP system in DVC is a complex and challenging task.
- When selecting and implementing an ERP system, companies are forced to reconsider their business processes and workflows. Therefore, it is a perfect opportunity to reassess the business process and improve it if possible. Standard ERPs are designed to support current industry's best practices. Hence, DVC can gain speed, efficiency, and accuracy in its business operations after implementing ERP.
- Overall, ERP implementation in DVC is a significant step towards modernizing the Corporation's operations, improving customer satisfaction, and achieving its long-term goals.

Present Status

- DVC has appointed M/s KPMG Advisory Services Private Limited as a consultant to implement Enterprise Resource Planning (ERP) at DVC.
- M/s KPMG has conducted a detailed assessment of the business practice of DVC and recommended various strategies that need to be adopted to ensure successful implementation of ERP. The future state architecture, named as "To-Be" has been designed based on contemporary design principles. The Detailed Project Report (DPR) of the project has been approved by the Corporation.
- The project of implementing ERP in DVC is named as 'SAMANWAYA' which is a Sanskrit word meaning integration of different processes. Currently the process of selecting the System Integrator (SI) is in process.

Future Plan

- According to the existing plan, Enterprise wise Go Live will be done after 24 months of awarding of SI contract.
- Once the standard COTS ERP is implemented, all the existing applications will be retired whose functions are under the of scope of ERP and focus on few applications will ensure quality support from ERP team.
- Digital functionalities will be available via Web Browser, Mobile Apps, Service desk and social media platforms which will lead to ease of access to all business functions for the business partners.



- The DVC portal will be a single window for looking up and discovering all the DVC Services or information and be used as an information gateway to vendors, consumers, citizens, governments, and businesses etc.

It would help to maintain:

- a) Directory of all Services provided by DVC along with service description, process fee and service charges.
- b) Provision of all the above services online
- c) Provision of the services through multiple access channels, especially the mobiles.
- d) Common look and feel and enhanced user experience for all the services directly provided in the portal.
- e) Single-Sign-On (SSO) for all interactions with DVC.
- f) Single-Sign-On for all the employees for accessing different business applications (Example: Purchase or Finance based on the roles and access)
- g) Employee's self-services (Example: Leave management, letter kiosk etc.)
- h) Alerts that contain information that employees should be aware of and potentially act on.

Dashboard reporting will be provided to management for better decision making through visual dashboards and near real-time as well as accurate information availability. This will be supported by Analytics and Big data technologies for organizing and processing the data from different sources like consumer data, meter data, Billing and Collection Data etc. It is expected to get the complete benefit in 2-3 years from Go-Live, as it will take time to accumulate data for doing analysis. The major features of the system include (i) Collection and structuring of all the organized & un-organized data from various sources, and (ii) Identifying strong & weak sectors, consumer group and coming up with strategies to minimize the revenue loss and last but not the least (iii) single window solution for all stakeholders of DVC.



Information Security Division (ISD)

Information Security Division (ISD) has been formed to protect Power Stations / Utilities, Critical Information Infrastructure (IT and OT systems) of DVC against increasingly sophisticated cyber threats and vulnerabilities and protect sensitive business data from unauthorized access & use, corruption and disclosure. ISD safeguards business interests and comply with the applicable state and central government laws and regulations.

Information Security Division (ISD) achievements in the FY2022-23:

- 100% Hard isolation of IT & OT System.
- Information Security Policy for DVC i.e., DVC ISMS (Information Security Management System) L1 and L2 policy has been approved by DVC board on 10.08.2022.
- ISMS implementation based on ISO 27001:2013 across DVC.
- Departments in DVC are formulating/modifying their policies and SOPs as per the requirement of the ISMS policy of DVC.
- Information Security related training of around 1530 Man days have been imparted to DVC employees through various organizations including NPTI/MEITY/CERT-IN/NCIIPC/CDAC.
- General Cyber Awareness program for all DVC employees.
- Celebration of Cyber Jaagrookta Diwas (CJD) & National Cyber Security Awareness month.
- Information Asset Risk Assessment for DVC's information Assets.
- DVC is on-boarded with Cyber Swachhta Kendra (CSK).
- All the advisories received from NCIIPC CERT-In, CSK etc. are being complied with. The compliance report is uploaded on CERT- GO portal before 10th of next month.
- The National Critical Information Infrastructure Protection Centre (NCIIPC) has identified DCS, PLC, SCADA, and Unified Real Time Dynamic State Measurement (URTDSM) to be Critical Information Infrastructure (CII) in DVC.
- C-DAC has been engaged as Cyber Security Consultant for Implementation of Information Security Management System (ISMS) / ISO-27001.
- Cyber Security Audit of IT/OT infrastructure is being conducted as per CEA guidelines by CERT-In empaneled vendor.
- Cyber Crisis Management Plan (CCMP) for Thermal, Hydel and SLDC units has been vetted by CERT-In.
- Information System Contingency Plan (ISCP) has been developed for IT and SLDC.
- Electronic Security Perimeter of all the Thermal Power Station, SLDC and IT infrastructure of DVC has been prepared.
- We are ensuring Information Security requirements right from the procurement phase. The testing requirements for OT devices and IT devices as mandated by CEA Guidelines and DVC ISMS policy are being followed by our Purchase department.
- ISMS Internal Audit has been completed for DVC-SLDC and DVC IT Cell.
- Targeting to get our 1st ISO 27001 certificate for DVC SLDC by July 2023.





Capacity addition Programme:

- **Revival of Raghunathpur Phase-II:**

Based on emerging demand scenario both in valley area as well as in the country, Corporation had accorded approval for revival of RTPS Phase-II (2x660 MW). MoP, GoI had also given consent for revival of the Project. Thereafter, NTPC was engaged as consultant for preparation of DPR & pre-award activities. DPR was finalized on 28.10.2022. Preparation of Technical Specification taken up by NTPC. In the meantime, Corporation accorded approval for revival of STG contract with M/s BHEL.

- **Koderma TPS Ph-II (2X800 MW):**

DVC Board had accorded 'In-principle approval' for installation of ultra-supercritical units (2x800 MW) at KTPS. MoP, GoI had also given consent for installation of the project. Thereafter, NTPC was engaged as consultant for preparation of DPR & pre-award activities on 13.12.2022. NTPC has submitted the Draft DPR in March, 2023.

- **Durgapur TPS (1X800 MW):**

DVC Board had accorded 'In-principle approval' for installation of ultra-supercritical unit at DTPS. MoP, GoI had also given consent for the project. Thereafter, contract for underground survey work was placed on 16.03.2023. NIT has been floated on 27.03.23 for engagement of consultant for FR, DPR & pre-award services.

- **Pump Storage at Lugu Pahar:**

Pumped Storage Project of capacity 1500 MW had been contemplated at Lugu Pahar, Bokaro District, Jharkhand. Pre-feasibility report was prepared in February 2018. Consultancy contract was awarded to M/s WAPCOS on 22.02.2021 for preparation of DPR with completion period of 02 years. The provisional EOT has been granted by DVC for further 01 year till 21.02.2024. The following reports have been prepared and submitted to authorities of CEA/CWC for approval:

- Revised Hydrology report on 17.01.23
- Revised Power potential & Installed Capacity report on 16.02.23
- General layout report on 06.02.23
- Storage Aspects report on 10.02.23
- Inter-state Aspect report on 05.04.23

Site survey and investigation activities are in progress by the consultant M/s WAPCOS.

- **Pumped Storage at Panchet Hill**

Project of capacity 1000 MW had been contemplated at Panchet Hill, Purulia District, West Bengal. The ground survey evaluation report of Panchet Hill PSP was completed in April 2022. The consultancy contract was awarded to NHPC on 16.11.2022 for preparation of PFR with completion period of six months. The draft PFR has been submitted by NHPC on 30.01.2023.

- **Renovation, Modernization, Uprating of Unit#1 Panchet Hydel Station (40 MW):**

As per approved DPR for uprating of Unit from 40 MW to 46 MW for Panchet, Order has been placed to M/S BHEL on 17/01/2022. Turbine Model Testing has been completed. Basic engineering has been completed. Detail engineering is under progress.



- **RM&U of Maithon Hydel U # 1 & 3 (2 x 20 MW): -**

Steps are being taken for the R&M work of Hydel Units of Maithon-1 & 3. M/s Mecon has been engaged as the consultant for RLA study, Preparation of DPR, Technical specification etc. RLA study for both the units has been completed. The DPR has been approved by CEA. Preparation of technical specifications is completed. Floating of the NIT is under process.

- **Tilaiya Hydel Unit 1 & 2 (2X2 MW): -**

LOA for RLA & uprating study, preparation of DPR etc. has been awarded to M/s. TCE on 08.07.21. RLA study is in progress.



Operation Services & Upgradation

The following activities in respect of Operation Services & Up-gradation have been taken up for overall performance improvement:

1. Operation Services

(i) Overhauling Activities:

- Overhaul scheduling as per 6- year rolling plan.
- Pre-Overhauling survey / assessment and Review of overhauling preparedness.
- Co-ordination & liaising with OEM for expeditious supply of spares.
- Quality checks & Protocols during execution.
- Monitoring progress of Overhauling in critical fronts and assistance during overhauling.

(ii) Technical Audit:

- Conducting technical audit of thermal plants and action plan for addressing deficit areas through long term & short-term plan.
- Implementation of action plans are monitored and necessary assistance is extended to plant engineers.

(iii) Performance Monitoring:

- Review of trip analysis & recommendations for implementation to avoid similar failure.
- Review of tube failure analysis report & remedial measures thereof.
- Analyzing reasons for underperformance & framing up remedial measures for performance improvement.
- Action plan for sustained energy efficient performance.
- New O&M practices & implementation including gap analysis etc.

(iv) Generation Monitoring:

- Monitoring status of plant / equipment / system /sub-system and extend necessary assistance to Plant Engineers.
- Preparation of different MIS reports of all thermal & hydel units.
- Preparation of exception reports on performance parameters.
- Review of ORT reports & necessary assistance on O&M related issues to Plant Engineers.

(v) AMC/ARC:

- Review of scope of work, estimate, etc. of different AMC/ARC proposals under O&M across DVC.
- Standardization of QR and Scope of Work of AMC/ARC.

(vi) Energy Conservation -

DVC has been making continuous efforts to induct modern practices in Energy Management System for sustainable improvement in availability of power with lower consumption of coal, oil, water, and auxiliary power along with improvement in efficiency & heat rate. The following practices are followed for efficient energy management in DVC power plants:

- Daily Co-ordination meeting and monthly Operation Review Team (ORT) meeting at plant level for



monitoring of various operation & efficiency parameters, heat rate deviation analysis and remedial measures thereof.

- Monthly Operation Review meeting at HQ level is held for monitoring plant performance, critical issues and necessary measures taken accordingly.
- Introduction of energy efficient equipment like Variable Frequency Drive (VFD) is under progress. Installation of VFD in 3 nos. Seal Air Fans of each Unit of MTPS U#1,2 &3 (total 09 nos.) completed. VFD installed in one no. CEP at MTPS U#1. Installation of VFD in 7 nos. CEPs of MTPS U#1-4 to be completed by Dec, 23.
- Energy-Efficient FRP blade assembly replacement of CT Fans. Replacement completed in:
 - MTPS U#3 - All fourteen nos. CT Fans.
 - MTPS U#1 - Eight out of fourteen nos. CT Fans.
 - MTPS U#2 - Five out of fourteen nos. CT Fans.
 - MTPS U#4 - Two out of fourteen nos. CT Fans. Rest will be completed by Dec'23.
- Energy efficient coating on pump internal in CW and ACW Pump are in progress. Completed in:
 - DSTPS: CW P/P #2B, # 2C and ACW P/P #2B,
 - MTPS: CW P/P #1A, #1C, #6B, #7C and ACW P/P #7B,
 - CTPS: CW P/P #1,
 - RTPS: CW P/P #1B and ACW P/P # 1A.
- Timely replacement & servicing of BFP recirculation valves is carried out to save energy.
- Analysis of different efficiency parameters like Boiler Efficiency, Turbine cycle Heat Rate, HP Heater performance etc. are regularly done and deficit areas are addressed accordingly.
- Necessary measures are regularly taken for combustion optimization, improvement of condenser vacuum, reduction of unburnt carbon, reduction of air leakage from ducts & expansion joints in line with improved O&M practices to optimize system efficiency and Aux. Power Consumption.
- Replacement of existing tube lights /CFL with LED at different office buildings in different field formations is in progress and will be completed by 31st May 2023.
- Energy Audit carried out in thermal power stations of DVC by External Agencies as per the guidelines of Bureau of Energy Efficiency (BEE) in 2021-22. 80 nos. out of 111 Recommendations in different plants of DVC have been implemented and rest will be completed in the FY 2023-24.
- Technical audit in thermal units is carried out from time to time by expert team of DVC and deficit areas are addressed. Recently Technical Audit of all thermal and hydel stations have been completed during the period Feb,21 to Sept,21. Next Technical audit will be carried out in FY 2023-24.

2. Up-gradation

- It includes technology up-gradation in different areas of power stations, replacement of obsolete equipment and modification in different areas such as boiler, turbine and their auxiliaries, coal handling plant, ash handling plant, coal mills, electrical systems etc.
- Major upgradation work taken/carried out in FY 2022-23:
 - (i) M/S. BHEL make maxDNA based DCS system (package) for SG, TG & BOP C&I System along with certain field equipment and TSI System for Unit#1, MTPS.



- (ii) Commissioning of Generator end winding vibration system in MTPS Unit#6.
- (iii) R&M of MHS Unit#1 with new state of art DCS System.
- (iv) HMI upgradation, Unification of BTG Control Room, Generator Stator end-winding vibration monitoring System in CTPS Unit#7.



Environment Management & Pollution Control:

In order to protect environment, DVC has taken various measures for mitigation of environmental pollution caused by generation of power.

Stack Emission control:

Highly efficient Electrostatic Precipitators (ESPs) have been installed in new units to maintain particulate emission well within the permissible limit. To measure ambient air quality, Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in DVC all running plants.

The Ambient Air data is being transmitted to PCBs servers.

Stack emission parameters are regularly monitored, and Opacity Meters are in service in all the running TPSs. As per directives of CPCB/SPCB, installation and commissioning of on-line monitoring of emission through stack has been completed in all TPSs and data are transferred to SPCBs/ CPCB on regular basis.

DVC is committed to comply with the new stack emission norms as notified by the MoEF & CC, GoI on 7th Dec, 2015 and 19th Oct, 2020. DVC has already taken up installation/implementation of FGD & De-NO_x system in all its TPSs and ESP augmentation work in Unit #1, #2 & #3 of its Mejia TPS. The same is at various stages of implementation.

Effluent discharge control:

Plant effluent discharge parameters are regularly monitored, and parameters are maintained well within the norms. Effluent treatment plants complying effluent discharge norms are also functional in DVC TPSs. To treat effluent discharged from various sources, effluent treatment plants have been installed in DSTPS, KTPS, MTPS & CTPS and guard ponds have been constructed in RTPS & MTPS. Settling ponds with oil catching arrangements have also been installed in DVC. As per directives of CPCB/SPCB, on-line monitoring data of effluent discharge are regularly transferred to PCBs.

To minimize water consumption as per new water consumption norms of MoEF & CC, re-use & recycling of ash decanted water is carried out in DVC TPSs. New DVC Plants were designed on minimum discharge concepts.

Treated effluent from Sewage Treatment Plants (STPs) are monitored regularly and effluent quality is maintained within the prescribed limit before discharge/reuse. To treat sewage generated from the DVC township area, STPs are installed in MTPS & KTPS. STPs is installed at RTPS to treat the sewage of plant area. STP installation work in older station at BTPS and CTPS is under progress. DVC has also taken initiative to install STPs at DSTPS and additional STPs at RTPS, which are in tendering stage.

Solid Waste Management (Ash):

Ash is evacuated & disposed of in both dry & wet modes. DVC has put emphasis on utilization of Dry Fly Ash (DFA) in Cement Industries, Brick & Block Manufacturing units etc. All DVC TPSs are equipped with DFA collection systems. DFA is supplied to domestic cement, brick & blocks manufacturer, and also to various traders for transporting to North-Eastern States of India & other end users. For sustainable power generation, Pond ash is evacuated and utilized for filling up of abandoned mines, stone quarries, low lying areas and also in road construction projects of NHAI. Filled-up abandoned mines/low lying areas in turn are reclaimed with topsoil cover for growth of vegetation and development of green belt.

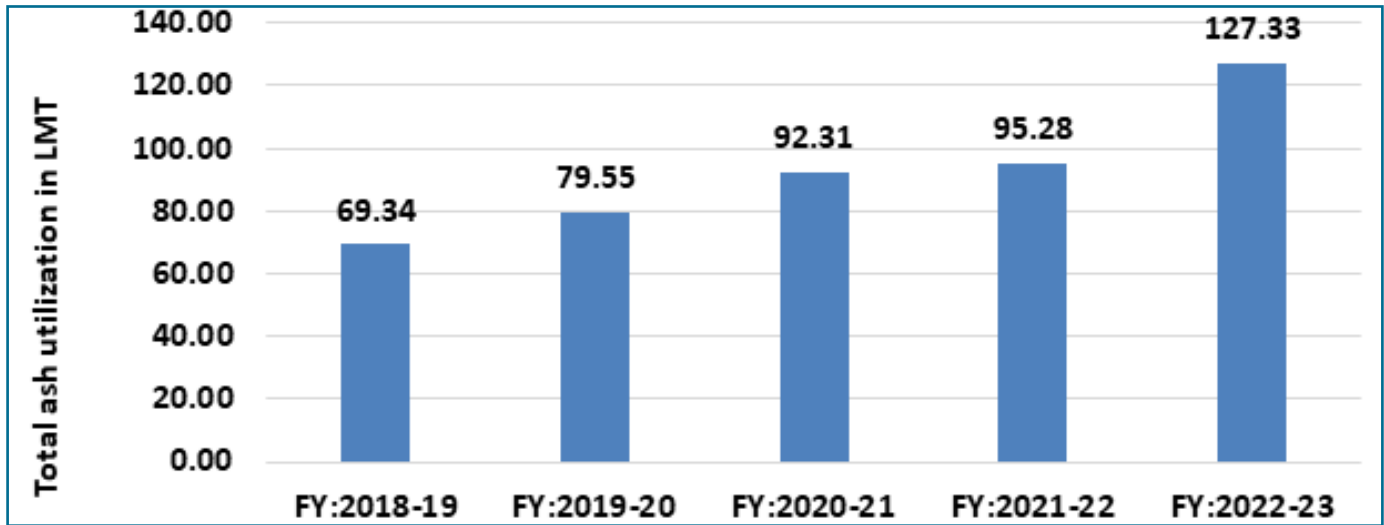
Notable achievements in FY 2022-23:

1. DVC has achieved ever highest cumulative ash utilization to the tune of 127.33 LMT.
2. DVC Environment Policy have been issued in FY:2022-23.

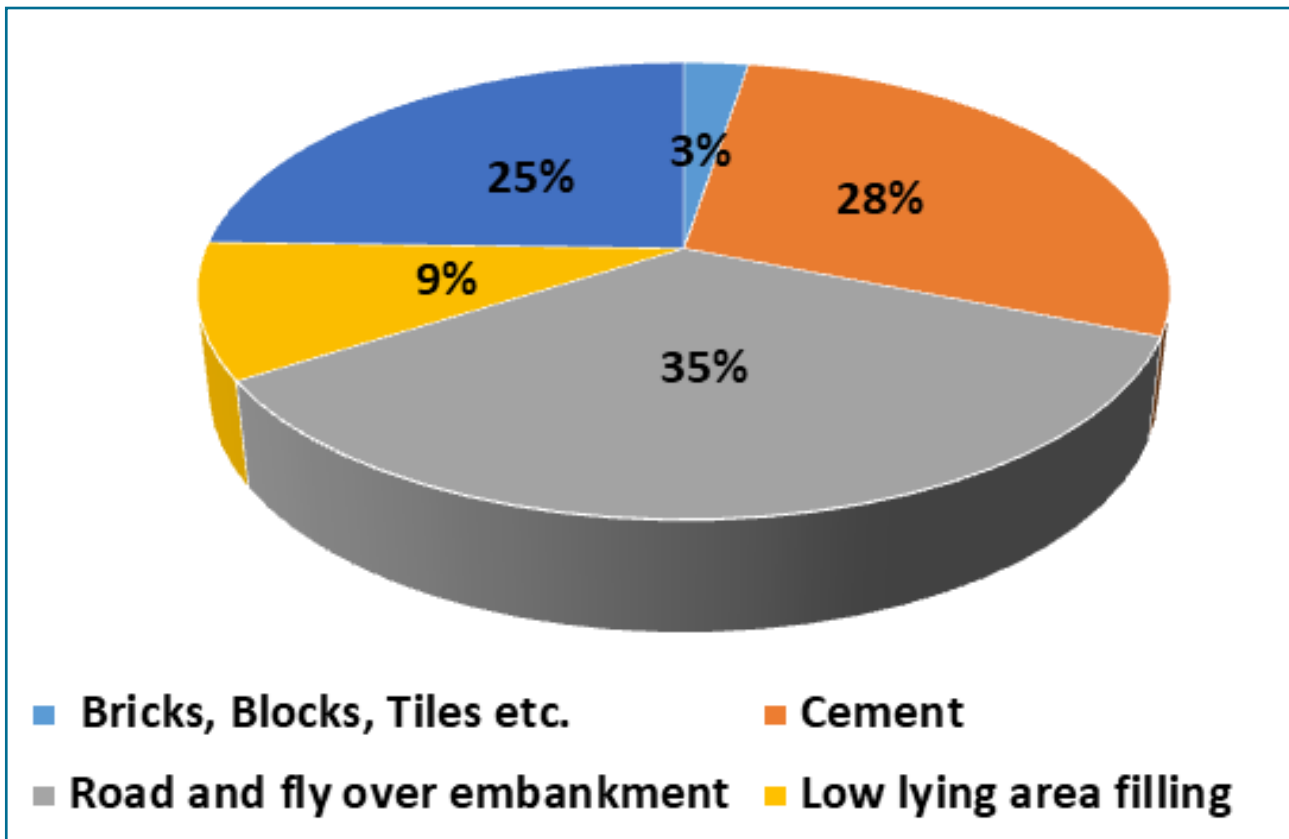


3. Overall Dry Fly Ash utilization is 39.57 LMT in FY:2022-23 which is 19.55 % higher than FY:2021-22.
4. In BTPS Dry Fly Ash utilization have been increased by 200.26 % as compared to FY:2021-22.
5. Ever highest total ash utilization by DVC on a single day is 51640.39 MT on 13.04.2022.
6. Pond ash utilization in NHAI road construction project is 43.34 LMT which is 264.5 % higher as compared to FY:2021-22.

Total Ash Utilization in LMT over the last 5 years:



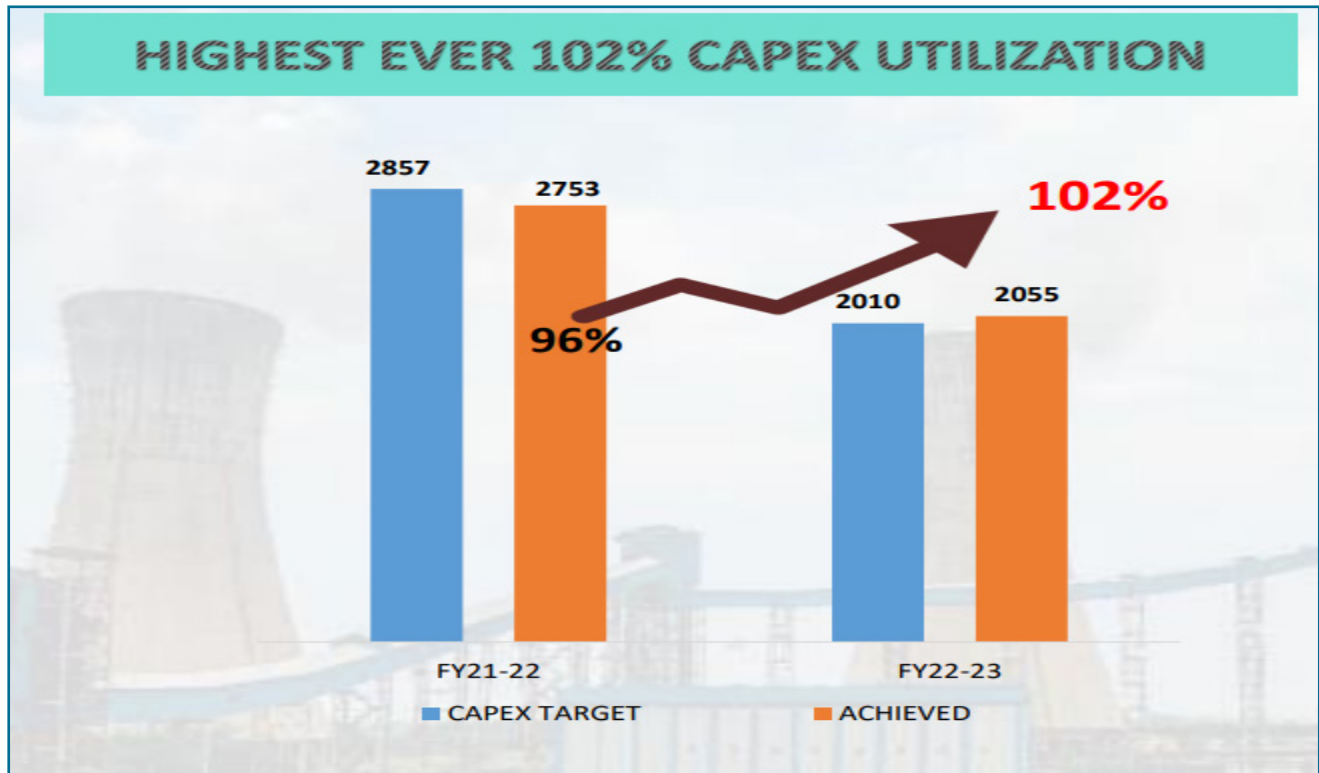
Ash Utilization by DVC in various sectors in FY: 2022-23



Project Works

CAPEX SNAPSHOT FOR FY 2022-23:

With the aim to continue the growth impetus, DVC has achieved 102% of the CAPEX target in FY 2022-23 by utilising 2055 Cr against the target of 2010 Cr set by the Ministry of Power, GOI. This is the highest-ever percentage of CAPEX utilization by DVC in the last decade.



MINING PROJECTS:

Tubed Coal Mine:

Tubed coal mine, having mineable reserve of 130 million tonne and peak coal production capacity of 6 million tonnes annually, was allotted to end use projects Mejia TPS Unit#7&8 and Chandrapura TPS Unit#8. The land acquisition within coal block was done by the Govt. of India and vested to DVC under provisions of the CBA (A and D) Act 1957. Disbursement of compensation and taking over physical possession of the land is under process. M/s Develecto Mining Ltd, a Consortium of SICAL-AMPL-GCL, is the Mine Developer cum Operator. Mining operation has commenced from September 2022 and coal extraction from January 2023.

Khagra Joydev Coal Mine:

Khagra Joydev coal mine, having mineable reserve of 103 million tonne and peak coal production capacity of 3 million tonnes annually, was allotted to end use projects Mejia TPS Unit # 7 & 8. The mine has been surrendered in August 2022.

Bermo Coal Mine:

Mining activity in Bermo Mine started in 1951. On expiry of Mining Lease in 2016, mining activity has been suspended. Handover of Bermo Mines to CCL is in progress in lieu of coal linkage of 2.5 MTPA towards coal supply to DVC TPSs.



OTHER PROJECTS:

Contracts awarded:

- Firefighting system to M/s BIT VEDA Services Ltd. On 05.05.2022.
- Construction of Integrated Township to M/s Tribeni Construction on 26.07.2022.

Achievements:

- Installation of DeNoX at MTPS U#6 (250 MW), RTPS Ph-I U#1 (600 MW) and DSTPS U#1 (500 MW).
- Commissioning of Wagon Tippler at RTPS on 27.11.2022.
- Commissioning of 2nd Railway line from Crossing yard to RTPS Plant.
- Approval of ESP of MTPS 2nd Railway line & RTPS 3rd Railway line.
- Closing of several old EPC & Civil contracts.

Contract closing:

DVC has taken some serious steps towards closure of the contract and till now many contracts have been closed.

Some of major contracts closed in FY 22-23 are as follows:

A. EPC Contracts:

- Main Plant Package of BTPS-A executed by M/s BHEL.
- CHP Package of BTPS-A executed by M/s SKSL
- Main Plant Package of CTPS executed by M/s BHEL.
- CHP Package of KTPS executed by M/s L&T.
- Intake well (Civil Package) of RTPS executed by M/s GPTL.

B. Civil Contracts:

- Construction of Retaining wall at BTPS by M/s BKB Transport Ltd.
- Construction of balance Plant Boundary Wall at DSTPS by M/s CMAT
- Construction of Auxiliaries of KTPS Township by M/s Supreme Infrastructure Pvt. Ltd.
- Construction of road of KTPS Township by M/s NECL
- Construction of STP etc. of KTPS Township by M/s RVR Projects,
- Construction of main approach road of KTPS by M/s RVR Projects



MAJOR WORKS INCLUDING ENVIRONMENTAL IMPACT REDUCTION MEASURES

MoEF & CC issued a notification on 07.12.2015 to comply with new environment norms. Subsequently, MoEF & CC again issued revised notification on 05.09.2022, amending the timeline for compliance of SO₂ emissions and other than SO₂ (De NO_x & Particulate matter) emissions in Category A, B & C area.

In DVC, no TPPs are coming under Category-A. Only DSTPS (2x500 MW) falls under Category B and other TPPs are under Category C.

DVC is on track to reduce its environmental impact by meeting the new emission standards and ensuring investment towards responsible initiatives to protect the environment.

A. Flue gas desulfurization (FGD)



DVC is conscious of the importance of environmental and social considerations for the overall well-being of the ecosystem and sustainable growth. Acting on the plan laid out by the Ministry of Environment, Forest & Climate Change (MoEF&CC), DVC has taken initiatives to install a Flue gas desulfurization (FGD) system at all thermal projects to ensure compliance with the emission control norms of sulphur dioxide (SO₂).

Orders have been placed by DVC for installation of FGD to minimize SO₂ emission and pollution free air to the atmosphere for different power generating units as follows:

- a. For 500 MW & above units of BTPS-A, DSTPS, MTPS Unit#7&8, RTPS – Ph-I & KTPS in July,2019 and
- b. For less than 500MW at MTPS Unit#1-6 in February 2021.

Currently, the progress of major civil & structural work at DSTPS, RTPS, MTPS, KTPS & BTPS is at an advanced stage and commissioning of FGD in all Units are under progress and will be completed well within the stipulated timeline (TPSs under Category B by Dec'2025 and TPSs under Category C by Dec'2026) as issued by MoEF&CC.

DVC is targeting to commission FGD Projects of all 500 MW and above units in FY 23-24.

EOI for CTPS-7&8 (2x250 MW) re-published in February 2023 after tender cancellation due to high quoted price.



FGD installation at 500MW & Above units

Different Site Activities:

- MTPS Unit #7 & 8 (2x500 MW):

Flue Can erection at Chimney for U #7 is complete, while it is under progress at Chimney for U#8. Erection activities are under progress at Absorber, Mist eliminator, Pipe racks, Agitator for tanks & absorber etc. in U# 7.

- RTPS Unit #1 & 2 (2x600 MW):

Gas Cooler & Mist Eliminator Erection completed at Absorber#1. Main PMCC Charged at Electrical Control Building. Erection work under progress at Booster Fan, Absorber & GC #2, HVAC, Ball mill Building, chimney#2 platform etc.

- DSTPS Unit #1 & 2 (2x500 MW):

Chimney #1 Flue Can final Lift completed & Bottom Duct Support Structure Erection work started. Erection work under progress at JBR Externals & Internal, Pipe Rack, Mill Building, Compressor House etc.

- KTPS unit #1 & 2 (2x500 MW):

3rd Segment Flue Can lifting and Booster Fan #A & B erection completed. Erection work is under progress at Absorber, Pipe rack, BRU Shed & Transfer Point, Conveyor Gallery & trestle, Gypsum Dewatering Building etc.

- BTPS-A (1x500 MW):

Flue Can erection is almost complete. Ball mill & fitting and Booster Fan erection completed. Erection work is under progress at Absorber, Electrical Control Building & Gypsum Dewatering Building etc.

FGD installation at below 500MW units:

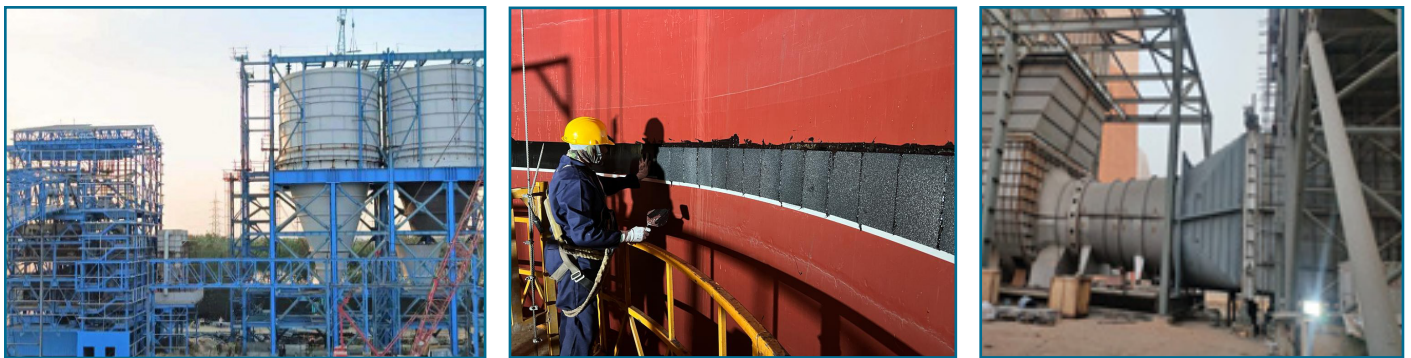
- Chimney concrete shell work of Block-I (U #4, 5 & 6) & Block-II (U #1, 2 & 3) is complete.
- Fabrication of Chimney Flue Can is under progress.
- Erection works are going on at different areas like Gypsum Storage Shed, Ball Mill Building, Recirculation Pump House, Gypsum dewatering building, Chimney #1- Platform & Crusher House & Bulk Silo Support Structure



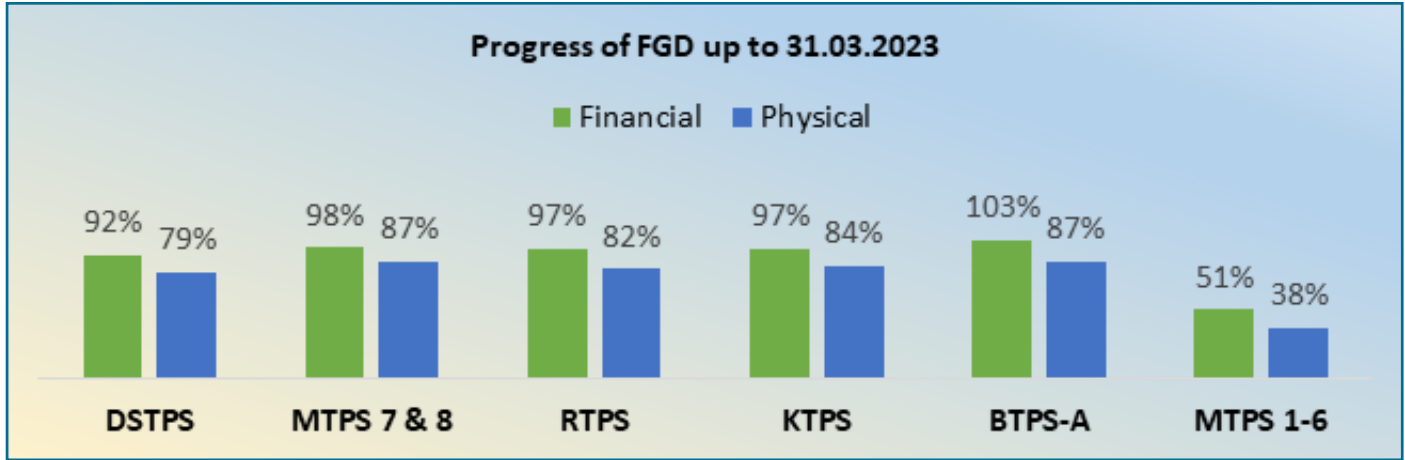
Details of FGD installation schedules are as follows:

Sl. No.	Project	Agency	LOA Date	Commissioning Schedule
1	Durgapur Steel TPS (2x500 MW)	M/s L&T Power	15.07.2019	U #1: By Oct'23. U #2: By Feb'24.
2	Mejia TPS Unit- 7 & 8 (2x500 MW)		15.07.2019	U #7: By Jul'23. U #8: By Oct'23.
3	Raghunathpur TPS Ph-I (2x600 MW)		15.07.2019	U #1: By Sep'23. U #2: By Jan'24.
4	Bokaro-A TPS (1x500 MW)	M/s TEECL	15.07.2019	By Jul'23.
5	Koderma TPS (2x500 MW)	M/s Thermax Ltd.	15.07.2019	U #1: By Aug'23. U #2: By Nov'23.
6	MTPS Unit 1 to 6 (4x210 MW+2x250 MW)	M/s L&T Power	22.02.2021	U #1 to 3: By Nov'24. U #4 to 6: By Aug'24.

Photographs of ongoing FGD work at different Project.



PHYSICAL & FINANCIAL PROGRESS OF FGD INSTALLATION



B. De- NO_x System:

In line with our commitments toward environmental sustainability & further address the issue of NO_x emission, DVC has implemented measures for the installation of a De-NO_x system to ensure the compliance of NO_x emission norms notified by the Ministry of Environment, Forest & Climate Change (MoEF&CC) and directions given by the Central Pollution Control Board (CPCB).

DVC has placed orders on M/s BHEL for installation of De-NO_x at different power generating units as follows:

- For 500MW and above units in July 2019 and
- For below 500MW units except MTPS U#1,2 &3 in September 2020.

Till date De-NO_x burners have been successfully installed at 07 out of 14 units, during the overhauling of the respective units as follows:

Thermal Plant	Unit	LOA date	De-NO _x Installation Status	
DSTPS	1	17.07.2019	√	
	2		*	
RTPS	1		√	
	2		*	
MTPS	7		√	
	8		√	
KTPS	1		√	
	2		*	
BTPS	1		√	
MTPS	4		30.09.2020	*
	5			*
	6			√
	7			*
	8			*
CTPS				

√ successfully Installed.

* To be installed at the time of overhauling of respective units.

C. Renovation & Modernization work of Electrostatic Precipitator (ESP) Package at Units# 1, 2 & 3 (3x210 MW) of MTPS:

To meet the stipulated environmental norms, DVC has taken the initiative for renovation & modernisation of existing ESPs of MTPS U#1 to 3 to bridge the gap between existing parameters and desired parameters.

LOA for R&M work of ESP at MTPS U # 1, 2 & 3 has been issued on 09.02.2023 with completion schedule of 25 months. Present status are as follows:

- The EPC Vendor has already mobilized at site and survey is going on.
- Basic Engineering along with approval of drawings is under process.

D. Railway infrastructure work at RTPS & MTPS:

RITES is the PMC Consultant for all the railway infrastructure projects at MTPS & RTPS.

Rail Work at RTPS:

- 2nd railway line from Crossing yard to RTPS plant commissioned successfully in Jan, 2023. Complete loaded wagon movement started on 21.01.2023.
- 3rd line linking from Joychandi (JOC) to Bero & 4th line linking from JOC to Bero including the Flyover lines are under progress.



Rail Work at MTPS:

- Track linking for the 2nd railway track from Damodar Bridge to MTPS Plant is almost completed.
- OHE Stringing work and S&T work is under progress.

Commissioning of the 2nd railway track between Damodar bridge & MTPS Plant is likely to be made in June, 2023. However, readiness of balance 2nd railway track between Damodar Bridge and Raniganj is expected within Sep, 2023.

E. Sewage Treatment Plant (STP):

The objective of construction of Sewage Treatment Plant (STP) is to reduce the pollution of surrounding river, nullahs and other water bodies from environmental criteria.

DVC has taken up the construction of Wastewater Treatment Plant of Sewage and drain waste from the colony & thermal plant.

STP work at BTPS-A:



LOA for construction of STP for BTPS Colony along with the vicinity areas has been issued to M/s. Bharat G Patel on 09.03.2022 with completion schedule of 15 months. Present status are as follows:

- Construction of Community Toilets is completed.
- Sewage Pipe laying work is under progress and
- Civil work is going on at different area like Plate Settler Tank, Sludge pump, Equalization Tank, PTU & MPS etc.

STP work at CTPS:

LOA has been issued to M/s Bharat G Patel on 01.02.2022 with completion schedule of 15 months. Present Status are as follows:

- Pipe laying work is under progress.
- Civil work is going on at STP-1, 2 & 3.



F. BALANCE CAPITAL WORK IN DVC TPs:

➤ BTPS-A (1x500 MW):

• Road Bridge on Konar River:

All the approach ramps are already completed. Construction of 72.0 m ROB over ECR main Gomoh-Barkakhana Railway track is under construction. All foundation work completed, except 2 nos. open raft foundation, for which approval from ECR/DHN is awaited. Fabrication work of the structural Girders is under process.

➤ Raghunathpur TPS Ph-I (2x600 MW):

• Coal Handling Plant (Refurbishment work of Wagon Tippler)

Trial run of Wagon Tippler with loaded BOXN Coal rake done successfully in November 2022.

After commissioning of the 2nd Railway line, Wagon Tippler is under operation since January 2023.



• Construction of Integrated Township of Residential & Non-residential building:



LOA for construction of Integrated Township at RTPS was issued to M/s Tribeni Constructions Ltd on 26.07.2022 with completion period of 18 months.

The construction work is going on in full pace in all the fronts of Officers Quarters, Staff Quarters, Primary School, Hospital, Community Centre etc.

Chief Engineer and Head of Project bungalow is already completed.

- **Electro-Mechanical Work at Intake Well:**

LOA issued to M/s Tulsi Prasad on 20.01.2022 with completion period of 12 months.

Piping work almost completed. Erection of Pump is under progress after completion of pump pedestal construction.



- **4-lane ROB over SH-5:**

Construction of Pier & Abutment completed. Erection of RE wall panel in both side approach along with compaction of filled materials are under progress. Fabrication of Structural Girders are completed. Assembly work has started.

- **KODERMA TPS:**

- **Balance Civil & Structural Works for Permanent Ash Pond at KTPS:**

Construction of permanent Ash Pond is under progress in 180 acres of land (150 Acres in pond #1 & 30 acres in balance of Pond # 2).

Earthwork in embankment & construction of RCC channel, Ash disposal pipeline supports, AWRS Pump House etc. are under progress.



- **CTPS:**

- **Fire Fighting Protection System:**

LOA issued to M/s BIT Veda Services LLP on 05.05.2022 with completion schedule of 12 months.

Pipe Laying and welding work is in progress.



- **PANCHET HYDEL STATION:**

- **RMU work at Panchet Hydel Station Unit#1 (1x40 MW to 1x46 MW):**





LOA was issued to M/s BHEL, Hydro Business Group on 17.01.2022 with completion period of 24 months. Present status are as follows:

- Basic Engineering & approval of design-drawing documents are under process.
- Geo-Technical work and NDT for EOT Crane completed.
- Civil construction work started at Fire pump house area.



Flood Control & Developmental activities in Water Resources Management:

Introduction:

Out of originally planned seven storage reservoirs with proposed flood storage capacity of 2.915-million-acre feet in the Damodar Basin, construction of multi-purpose Dams at Tilaiya (1953), Konar (1955), Maithon (1957) and Panchet (1959) was completed in first stage. But designed storage levels could not be achieved due to constraints in acquiring required land for Maithon and Panchet reservoirs from the respective State Governments (Govt. of Jharkhand & West Bengal). In the first phase, the total flood reserve capacity planned was 1.51-million-acre feet. But due to non-acquisition of land, flood reserve capacity achieved was only 1.047-million-acre feet, which has further reduced to 0.95-million-acre feet due to progressive siltation as per the latest capacity survey reports of 2019 and 2020. However, even with partial implementation of the scheme, DVC, over the years, has been able to fulfill its primary objective of flood control in the lower valley to a great extent. Further, by judicious operation of reservoirs, all the committed requirements in Damodar Valley area like irrigation, municipal & industrial water supply are fully met, thus achieving efficient water resources management.

Water Resources Management activities by DVC during the year 2022-23 are as under:

Flood Control:

During the year under consideration, South-West monsoon had its onset over the entire Damodar Valley area on 20.06.2022 and the same got withdrawn from the entire valley on 20.10.2022.

The average actual monsoon rainfall over Barakar and Damodar Catchments w.e.f June to October 2022 are 753 mm and 966 mm respectively against the normal rainfall of 1236 mm and 1067 mm respectively, the rainfall deficit by 39.07% in Barakar Catchment and 9.42% in Damodar Catchment with comparison to normal rainfall.

No flood event occurred during the Monsoon 2022.

Flood warning from Maithon and Panchet Dams were issued from time to time on receipt of the messages from the Member Secretary, DVRRRC (Damodar Valley Reservoir Regulation Committee) and flood release advice were implemented as per the guidelines stipulated in the Modified Flood Warning Memorandum issued in the year 2022. Like previous year, information on flood warning was also made available in DVC's website for general information to the public at large. Discrete information on the time & quantum of release (category-based outflows with different color codes viz. green, yellow, orange & red) made from Maithon and/or Panchet Dams along with its time of arrival at 5 different key locations at downstream of Maithon & Panchet Dams up to Amta (in lower valley of the State of West Bengal) were also updated by DVC on real-time basis for better flood preparedness by the concerned Authorities.

The reservoir levels attained at Maithon & Panchet Dam at the end of the monsoon i.e., on 01.11.2022 were above the conservation level and were RL. 484.68 ft. (147.73 m) & 416.21 ft. (126.86 m) respectively. Maximum flood release from Konar dam was 4045 cusec / 988 HM on 05.10.2022 & no flood release was made from Tilaiya dam during last monsoon period of 2022.

Irrigation water supply:

DVC releases water for irrigation from Maithon & Panchet reservoirs as per the advice of Member Secretary, DVRRRC based on the indents placed by Govt. of West Bengal for Kharif and Rabi cultivation in the Lower Valley.

However, in FY 2022-23, surplus water available in reservoirs was around 251.42 Th. Acft out of which 235.08 Th. Acft has been made available for utilization in Boro irrigation in the state of West Bengal. Rest of the water has been kept for emergency Hydel generation.

Water utilization for the year 2022-23 are furnished as below:

Year	Kharif		Rabi		Boro	
	Water Allocated (Lac acre ft.)	Area Irrigated (Lac acre)	Water Allocated (Th. Acre ft.)	Area Irrigated (Th. acre)	Water Allocated (Th. acre ft.)	Area Irrigated (Th. acre)
2022-23	10	8.19	70	50	235.08	78

Municipal & Industrial (M&I) water supply:

DVC at present supplies water to about 175 agencies (99 nos. in State of Jharkhand and 76 nos. in West Bengal) for municipal and industrial purposes.

State	Domestic (No. of agencies)	Industrial (No. of agencies)	Both	Total
Jharkhand	59	31	9	99
West Bengal	33	34	9	76

Total allocated quantity for M&I uses in Jharkhand is 726.211 MCM/year (440.395 MGD) and that in West Bengal is 736.476 MCM/year (446.6197 MGD). During the period of 2022-23, no complaints have been received by any of the consumers regarding shortfall/scarcity of water.

Water System Developmental initiatives:

Status of few projects taken up by DVC as a part of developmental activities in water resources sector are tabulated below:

Sl. No.	Name of the Project	Status
1.	World Bank Assisted Dam Rehabilitation & Improvement Project (DRIP)	<ul style="list-style-type: none"> DVC was a part of DRIP, a World Bank assisted project under the aegis of CWC and MoWR with an objective to improve safety and operational performance of selected dams, along with institutional strengthening. The cumulative expenditure of Rs. 100 Cr. (approx.) was incurred under DRIP-I against rehabilitation/ institutional strengthening of Konar, Maithon & Panchet Dams till the closing date of DRIP-I by World Bank i.e. 29.06.2020. However, some balance pending packages (seven no.) which could not be completed by 29.06.2020 is being done by DVC on its own (Rs. 23.28 Cr.) So far, five packages have been completed and remaining two packages pertaining to Panchet Dam is under progress and will be completed in FY 23-24. DVC has further joined DRIP-Phase-II & III for the repair & rehabilitation activities of Tilaiya dam, Bokaro Barrage, Chandrapura weir and balance activities of Maithon, Panchet & Konar dams at a tentative cost of Rs. 145 Crore. The project duration is 10 years from Aug 2021 to March-2031. Only 02(two) projects Bokaro Barrage & CTPS Weir have been taken DRIP II and rest of projects have been taken under DRIP III. The Project Screening Template (PST) of above projects has yet to be approved.

Sl. No.	Name of the Project	Status
2.	National Hydrology Project (NHP)	<p>DVC was included in the NHP which is a grant-in-aid project for an amount of Rs. 50 Crore funded by World Bank, under the aegis of MoWR. Works as per the approved Annual Work Plan are under progress. Initial tenure of the project was 8 years i.e., up to 2023-24 from 2016-17 which now has been extended up to September 2025. The project is aimed at strengthening Hydrological information system with a view to develop a Web based Flood Forecasting System, Real Time Data Acquisition System (RTDAS) & Real Time Decision Support System (RTDSS).</p> <p>Major works taken up under NHP are as follows:</p> <p>i) Development of flood forecasting and inundation model (Decision Support System) from 12 Km downstream of Durgapur Barrage up to outfall of Damodar River (Amta and Mundeswari Rivers)</p> <ul style="list-style-type: none"> Development of flood forecasting and inundation model (Decision support system) has been completed on 03.12.2022 and Model is maintenance period of 30 months w.e.f. 04.12.2022. The flood forecasting model has been developed for entire lower DV area which provides discharge and water level forecasts at 07 key locations (Edilpur, Champadanga, Rhondia, Jamalpur, Amta, Muchighata and Harinkhola) from 12 km downstream of Durgapur Barrage upto outfall of Amta and Mundeswari rivers. This model will help to obtain optimized rate, quantity, and timings of water release from upstream reservoirs to minimize the flood losses downstream. <p>ii) Wireless Based Pipe Flow metering system of DVC (Phase-I)</p> <ul style="list-style-type: none"> The system is being developed for monitoring the real time raw water consumption by M&I consumers of DVC who are drawing water through DV water system. Installation & commissioning of flowmeters at different sites are under progress. <p>iii) Wireless Based Pipe Flow metering system of DVC (Phase-II)</p> <ul style="list-style-type: none"> Finalization of NIT published for the Phase-II work is under progress. <p>iv) Setting up of Water Quality Laboratory at DVC, Maithon</p> <ul style="list-style-type: none"> Construction work of Water Quality Lab has been completed in Dec 2022. Supply & installation of Water Quality Lab instruments are under progress.
3.	Construction of Balpahari Dam over Barakar river in Damodar Valley area	<ul style="list-style-type: none"> The Pre-Feasibility Report was prepared first in 1987 by DVC. CWC prepared DPR for Balpahari project in January 2012. Estimated cost of the project was around Rs. 2200 Cr. excluding cost of land. As per the DPR, the dam would be a multipurpose dam project, located at Giridih district of Jharkhand, across river Barakar, 60 km upstream of Maithon dam. The dam would also play a crucial role in arresting silt at Balpahari itself and thereby enhancing the life of Maithon reservoir as Balpahari dam covers 86% of the catchment area up to Maithon dam. DVC shared the DPR with GoWB and GoJ for review and comments. As requested by GoWB, DVC carried out multi-reservoir simulation study first in 2017 in consultation with CWC. Revised simulation study was carried out in April 2022 (vetted by CWC). While GoJ has no comment to offer GoWB is again requesting for further studies related to reservoir simulation. The revised cost estimate of the project is Rs. 5,860.47 Cr. excluding cost of land. Construction of the proposed Balpahari Dam will be considered only if technical/ financial/administrative aspects related to all the stakeholders are finalized.



Fuel Management:

Fuel Management wing of DVC ensures availability of quality Coal to achieve targeted generation at optimum cost through the following activities:

- Planning for availability of coal proportionate with respective plant generation target. Preparation of Coal Matrix for providing optimum amount of coal to TPSs at reduced landed/energy cost.
- Co-ordination with CIL & its subsidiary coal companies, Railways, Central Institute of Mining & Fuel Research (CIMFR), Ministry of Power, Ministry of Coal etc. to maximise coal receipt and improve coal quality.
- Ensuring supply of quality coal, enhancing materialisation, coal linkage, signing of FSA/MoU, rationalization of coal linkages to reduce landed cost.
- Execution of Tripartite agreement for e-payment of Railway freight and settlement of dispute, if any with coal companies & Railways and reconciliation thereof.
- Fuel accounting at plant level. Signing of supplementary agreement with coal companies for flexible utilisation of indigenous coal & shifting of coal from one TPS to other TPSs of DVC.
- Maintaining Coal Stock at plant end as per revised CEA coal stocking norms.

Performance Highlights (2022-23):

- **Highest nos. of Coal rakes i.e., 7496** has been received in FY 22-23 which is the highest in history of DVC surpassing the previous highest nos. of rake received i.e., 7073 in FY 21-22.
- **Highest ever coal receipt i.e., 28.42 MMT** (incl. import 2.09 MMT) in DVC in FY 22-23 surpassing the previous highest coal received i.e., 26.19 MMT (incl. import 0.02 MMT) in FY 21-22.
- Achieved more than 100 % coal materialization in FY 2022-23.
- Ministry of Coal granted extension of Bridge Linkage against Mejia TPS U# 7&8 (2X500 MW) and Chandrapura TPS U#8 (250 MW).
- Highest ever 1.34 MMT coal received through Road Cum Rail (RCR) mode in FY 22-23.
- In FY 22-23 DVC received Imported coal 2.09 MMT & Imported coal Consumed 2 MMT.
- Highest ever 30 nos. of coal rake receipt & unloaded in a single day (18th Apr-22 & 4th Feb-23) in DVC.
- Co-fired of Non-torrefied Biomass with Coal started at DSTPS on 28.02.2023.

Performance improvement in FY 2022-23 in comparison with FY 2021-22:

Particulars	2021-22	2022-23
Highest Coal rake receipt in a single day	29 (30.10.21 & 11.03.22 & 18.03.22)	30 (18.04.22 & 04.02.2023)
Total no. of rake receipt in FY	7073	7496 (Highest Ever surpassing 7073 rakes in FY 21-22)
Monthly Highest no. of rake receipt	762 (Mar-22) (Highest Ever)	709 (Jan-23)



Particulars	2021-22	2022-23
TOTAL Coal Receipt (MMT)	26.19	28.42 (Highest Ever)
Generation (MU)	40,775	43,087 (Highest Ever)
TOTAL Coal Consumed (MMT)	26.59	28.34
% CIL Materialization w.r.t FSA	108	111

New initiatives taken to improve coal stock:

- Bridge linkage 4.242MMT with BCCL & CCL has been executed in May-22 (Against MTPS#7&8 and CTPS#8) with validity extension till Oct-23.
- MoU with SCCL for supplying 4.31 MMT coal from Telangana region coal mines and Naini Coal mines located in Orissa signed on 20.12.2022.
- 1st BOXN rake supply and unloaded at RTPS on 27th Nov-22.
- Co-fired of Non-torrefied Biomass with Coal started at DSTPS on 28.02.2023.

Plant wise coal stock as on 31.03.2023									
DVC TPS		BTPS	CTPS	DTPS*	MTPS	DSTPS	KTPS	RTPS	TOTAL
Coal Stock (MT)	Domestic	142947	208448	1715	140347	91369	259624	180546	1024996
	Imported	5752	12280	0	36309	5937	0	44228	104505
	Total	148698	220728.11	1715	176656	97306	259625	224773	1129501
No. of days Coal stock (Considering 85% PLF)		24	35	-	6	8	20	16	13



Contract & Material Management:

GOI orders Towards Make in India: All procurement processes in DVC are carried out strictly adhering to the Public Procurement Policy, GoI - with Make in India purchase preference, wherever applicable.

- **Orders placed/tender floated for Major Projects:**

- ✓ Contract has been awarded for DPR for RTPS Ph-II
- ✓ Order has been placed for consultancy towards preparation of DPR & Pre-Award Activities and Detailed Project Report (DPR) for Koderma TPS Ph-II (2X800 MW Ultra Supercritical Units)
- ✓ Contract has been awarded for setting of 10 MW (AC) capacity ground mounted Solar PV Plant at KTPS
- ✓ Contract has been awarded for setting up of Grid connected 30 MW FSPV in Raw Water Reservoirs at DVC TPSs (KTPS, RTPS & MTPS)
- ✓ Contract has been awarded for Installation of EV Charging Station at DVC Field Stations/HQs
- ✓ Order has been placed for supply, erection, testing & commissioning of 220 /132/33 KV bays construction work alongwith respective controlling bays at different bays at different S/ss, receiving station and Powerhouse S/w-yds.
- ✓ Contract has been awarded for Engagement of Consultancy Services for preparation of Survey & Feasibility Report (FR), Pre-Engineering and Tendering Activities Towards Development of 33/11 KV Infrastructure at Jharkhand & West Bengal.
- ✓ Order has been placed for ESP Augmentation at MTPS U# 1 To 3 (3x210 MW).
- ✓ Procurement of Non-Torrefied Biomass pellet for DSTPS, Andal DVC” through GeM Portal first time in DVC
- ✓ Mega Risk Insurance Policy has been successfully awarded through GeM Portal for the first time in DVC.
- ✓ LOA was issued for implementation of Islanding Scheme at CTPS #7&8.

- **Procurement through GeM Portal:**

- ✓ Total Value of Contracts placed through GeM portal during FY 2022-23 is Rs. 413.48 Cr. This figure shows an increase of **509%** over the total procurement of Rs. 67.87 Cr. done through GeM portal during FY 2021-22.
- ✓ Percentage of items procured through GeM based on availability of materials for FY 2022-23 rose to 99.1% from 96.9% of FY 2021-22.
- ✓ Regular correspondences with GeM Nodal Officer, including two physical meets in DVC Head Quarters with Senior GeM officials, were organized to address and sort out various issues related to GeM tendering processes.

- **Procurement from MSE Vendors:**

Total procurement from MSEs in FY 2022-23 stands at Rs. 338 Cr., which is **a growth of about 29%** from the previous FY value of Rs. 261 Cr.

- **Vendor Meets:**

During FY 2022-23, eight (08) numbers of Vendor Meets were conducted across the valley, both in virtual and physical modes.

Organizing such meets with vendors on regular basis has certainly helped in meeting the following objectives: -

- (i) considerable increase in number of vendors onboarding GeM portal
- (ii) better participation in all tenders
- (iii) less cases of rejection/cancellation of bids/tenders on the grounds of incomplete document submission

- **SCRAP DISPOSAL:**

- ✓ C&M Dept, HQ instructed to all the field formations for prompt and proper disposal action of unserviceable, damaged scrap materials to recover maximum salvage value. The amount received from sale of scrap materials of DVC upto March 2023 comes out as Rs. 19.58 Crs.
- ✓ Auction for 06 nos. of retired units of Chandrapura Thermal Power Stations viz. CTPS U#1-3(3X130MW) and CTPS U#4-6(3X120MW) has been done.
- ✓ Auction for retired 3(three) units of Maithon Gas Turbine has been done.
- **Award in National Workshop on E-Procurement:** DVC has been awarded as one of the Best performing central public sector enterprises in National workshop on e-procurement Dated: 27/03/2023.
- **Centralization of C&M activities:** C&M activities across the DVC project has been Centralized for proper and speedy disposal of case file and placement of Order.
- **Enterprise resource planning (ERP):** M/s SAP India Technology was Selected as OEM for the implementation of ERP in DVC.

Renewable Energy, Energy Efficiency and R&D

DVC has charted ambitious Renewable Energy based capacity addition plans to align with the national commitments on 500GW RE capacity by 2030. DVC is working to tap Solar PV and Pumped Storage Hydro potential in its command area with a target to add more than 5.5GW Renewable Energy capacity by FY32. At present Solar PV Plants of cumulative capacity of 3.9MW is operational in DVC and 40MW(AC)/52MW(DC) Solar PV Projects are under implementation stage. DVC has received approval of MNRE, GoI to set-up 989MW Floating Solar capacity at its dam reservoirs under Ultra Mega Renewable Energy Power Parks (UMREPPs) Scheme.

Major milestones / activities related to Renewable Energy Projects during FY23 are as below:

- A Joint Venture Corporation of DVC and NTPC RE Ltd., in the name of M/s Green Valley Renewable Energy Limited (GVREL), was incorporated on 25th August 2022 to implement different RE Projects in DVC command area including those approved under UMREPPs scheme.



Signing of JV Agreement with NTPC REL

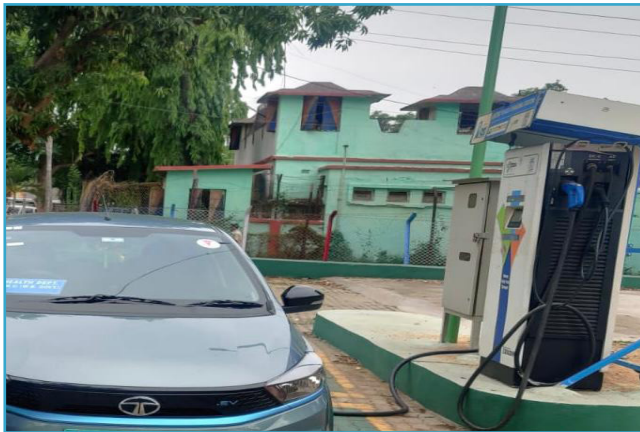
- Tenders were floated by M/s GVREL for setting-up Power evacuation infrastructures at 220KV and 132KV levels at Tilaiya and Panchet for 755MW Solar PV projects along with 310MW Solar Plants under UMREPPs scheme.
- EPC work commenced for setting up of 10MW(AC)/13MW(DC) Ground Mounted Solar PV Plant at KTPS, Koderma, Jharkhand.
- Contract awarded for setting-up 30MW(AC)/42MW(DC) cumulative capacity Floating Solar PV Plants at MTPS (14MW(AC)), RTPS (10MW(AC)), KTPS(6MW(AC)).
- DVC has successfully commissioned an Electric Vehicle Charging station at Maithon under an agreement with M/s EESL to undertake pilot project for setting up Public Electric Vehicle Charging Station at 2-3 locations in DVC command area. EPC order placed for 5(five) EV Charging Stations to be set up at DVC HQs and field stations.



Laying of foundation stone by Chairman, DVC for 10MW Solar PV Plant at KTPS



Safety Training for EPC Workers at KTPS Koderma Solar site



EV Public Charging Station at DVC Maithon

- DVC has also floated an NIT for setting-up 8MW Ground Mounted Solar PV plant at Panchet.
- **Coal Site Repurposing Initiative of DVC:** DVC joined hands with World Bank to explore re-purposing of its old Coal Units at BTPS-B. In the feasibility study through a consultant, Green Hydrogen Generation and Grid scale Battery Energy Storage have emerged as techno-commercially feasible repurposing options at BTPS-B.

R&D Initiatives

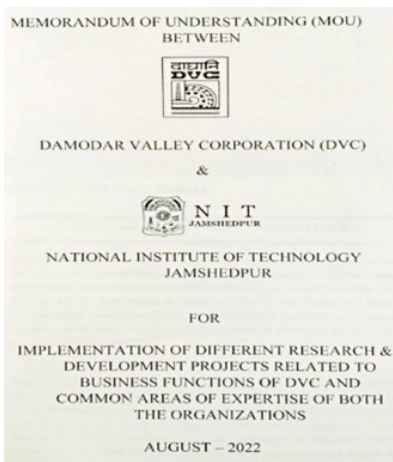


Release of DVC R&D Policy 2023 by Hon'ble Chairman, DVC, Board Members of DVC and R&D Council Members on 29.04.2023

- First R&D Council Meeting was held on 29.04.2023 with all R&D Council Members.
1. Shri. Suvamay Haldar, Ex. Board Member (Fin.), DVC.
 2. Prof. (Dr.) D.K. Singh, Director, BIT Sindri.
 3. Prof. (Dr.) Amitava Datta, Pro. VC & Department of Power Engineering, Jadavpur University, Kolkata.
 4. Shri. K. Banerjee, Executive Director (Engg.), DVC, Kolkata.
 5. Shri J. Mukherjee, Executive Director (Finance), DVC, Kolkata.
 6. Dr. D.V. Rajan, Chief Engineer (R&D), DVC, Kolkata.



Collaborative consultancy pilot project on commercial and operational optimization in the domain of Fuel Management i.r.o. DVC with Centre for Data Science and AI, in collaboration with Indian Institute of Management Ahmedabad (IIM-A).



- MoU between DVC & NIT Jamshedpur in August,2022 - For implementation of different Research & Development projects related to business functions of DVC and common areas of expertise of both the organizations

- Ongoing R&D Projects:
Development of Biomass Pellets: Making of pellets by using MTPS colony dry grass/dry leaves of Sal trees/ Paddy straw has been taken up.



Vermicomposting:

A vermicompost project using sludge of STP (Sewage Treatment Plant) at MTPS with deliverables Organic fertilizer.



Successfully completed project – Formulation, Development and Testing of legacy Ash based **Herbal Dish Washing Powder**

- Other R&D projects under study are:
 - (a) Integration of micro-steam turbine system in the existing vapour absorption refrigeration system (VAM) for harnessing waste energy into electrical energy at KTPS, DVC.
 - (b) Mini Hydro turbine – Installation of 80-90 KW hydro turbine (in between NDCT & CW basin) of a 500MW Unit,
 - (c) Mini Hydro turbine – Installation of a suitable hydro turbine at KONAR DAM and (d) GREEN COAL PROJECT from MSW (Municipal Solid Waste)

BUSINESS DEVELOPMENT

The Business Development department is presently exploring new business opportunities like:

A. Development of Tourism in Valley area:

The four reservoirs of DVC hydel Stations (Maithon, Panchet, Konar and Tilaiya) have natural scenic beauty and the area around it has been identified as a primary destination for Tourism development.

In view of the mesmerizing scenic beauty of Maithon, and also to promote the overall development of the region, DVC is keen to explore and enhance the tourism potential as a new business option. DVC has planned for developing infrastructure for eco-tourism, promoting adventure tourism, water sports and creating recreational facilities around the Maithon Dam reservoir.

However, to manage the activities in an integrated and professional way, DVC has floated an EOI for the development of Tourism on the “Design, Built, Finance, Operate & Maintain (DBFOM) mode” of PPP model and as a first step for embarking into the Tourism business, DVC is going to float a tender for Construction of Resort with all amenities including development of Houseboat Rooms, Water Bungalows, Forest Villas, Multi-cuisine Restaurant, Bar, Banquet Hall, Water Sports activities, Rejuvenating Centre for all ages along with Yoga & Meditation centre etc at Yacht Club, Maithon.



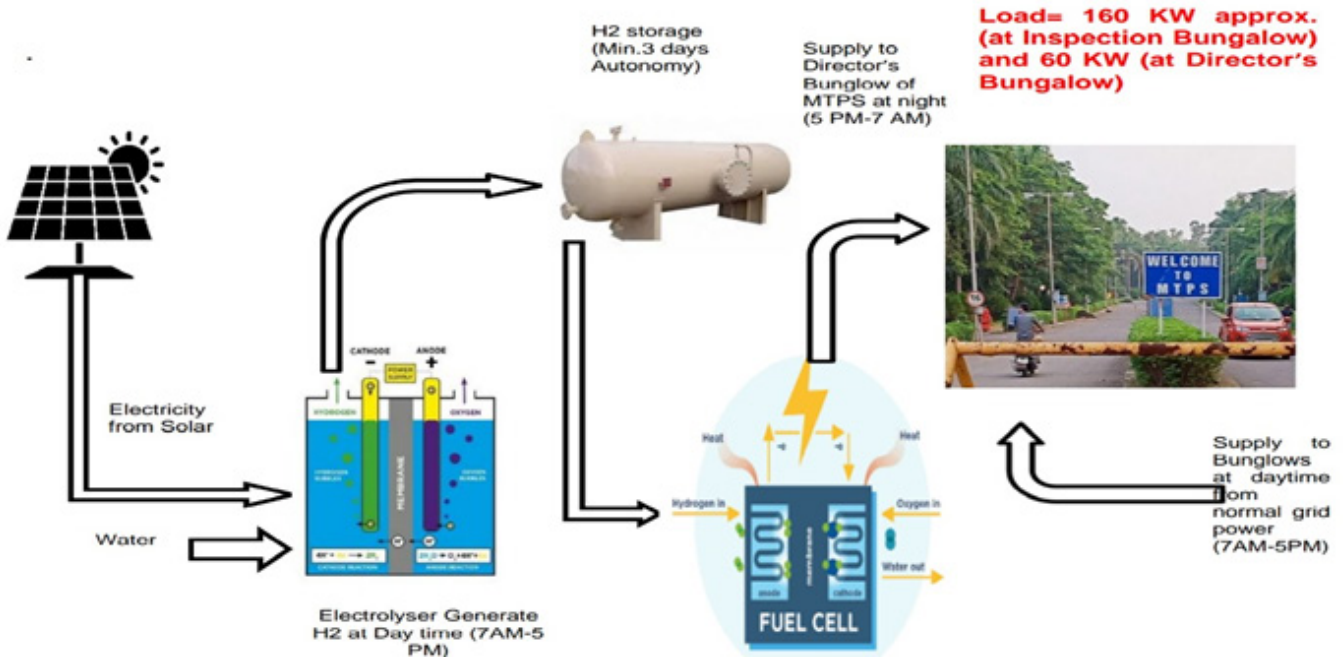
B. Pilot project on Fuel-Cell based Micro-grid with green hydrogen:

Being a key player in the energy sector, DVC also has a hawk-eye on the recent developments and innovations in the field of Green Hydrogen. As an initiative to sustain DVC's future growth and to be at the forefront of the energy transition in the field of renewable energy, storage and its application, DVC is keen to take part in the Green Hydrogen sector as a future business opportunity.

DVC, in line with National Hydrogen Mission and with an objective to become a key player in India's adoption of the Hydrogen Economy, is currently exploring the possibility of venturing into Green Hydrogen initiatives as an option for diversification & future business.



In the initial step of embarking into the hydrogen business and analysing the Hydrogen electrolyser & Fuel-Cell based technology's technical & commercial feasibility, an EOI has been published to set up a pilot project on Fuel-Cell based Micro-grid with green hydrogen production using electrolyser in Director's Bungalow & Inspection bungalow at Meija Thermal Power Station (MTPS) and 2nd stage tendering will be finalised by Q2 of FY23-24.



SOIL CONSERVATION, PISCICULTURE AND ENVIRONMENT DEPARTMENT

During FY 2022-23, DVC's commitment towards catchment area treatment related activities in the field of Soil & Water Conservation in "Damodar-Barakar" catchment continued with its focus on rain water harvesting and conservation along with some small soil Conservation structures where ever required through its time tested approach and more than seven decades of experience coupled with available resources. Of late Restoration, Renovation and Repair of old Rain Water Harvesting Structures have been the centre of our focus of Soil and Water Conservation programme seeing the ageing of structures constructed in the past. DVC's continuous endeavour towards development of New Water Resources continued in the Catchment Area as this is the only long term solution for Socio-Economic development of the area. Pisciculture and its allied activities are also carried out by this department in major reservoirs of DVC through its Aquatic Resource wing at Maithon and this activity is contributing in a big way towards livelihood generation for the local displaced people. During the FY 2022-23 the activities undertaken have been mentioned below:

1. Restoration, Renovation and Repair of old water bodies, in respect of soil & water conservation in six districts of Jharkhand and one district of West Bengal, to revive the life of the structures, which have outlived their useful life or their storage capacity has reduced to a great extent.
2. Construction of new rain water harvesting structures in the catchment area with a view to create new water resources enhancing the availability of water for various purposes such as micro irrigation which brings more area under cultivation as well as multiple cropping system, domestic use along with augmentation of ground water recharge in the catchment area & prevention of soil erosion. Sometimes these structures are supplemented by construction of smaller bunds to prevent Soil erosion from the upper catchment.
3. Restocking of degraded Forest area in the catchment area of Konar & Tiliya.
4. Enriching existing aquatic Resources in and around different projects of DVC as well as in the surrounding CSR villages through Spawn production, releasing of fingerlings, and maintenance of hatcheries at Maithon as CSR activities.
5. Soil Testing & fertilizer recommendation and issue of soil health card to the farmers of the catchment area as advisory services has helped the local farmers to take corrective measures to maintain the soil fertility.
6. Hydrologic and sediment monitoring system continued with data collection on smaller streams to find out quantum of soil losses as well as rate of reduction in runoff from the catchment area.
7. Preservation of Natural Resources at Tiliya and Konar area including maintenance of deer park at Maithon and CTPS under biodiversity activities of the Corporation.

Areas of Operation for the above activities:

Jharkhand	Hazaribagh, Chatra, Giridih, Dhanbad, Bokaro, Jamtara, Koderma and Deoghar districts
West Bengal	Purulia district

Annual achievement of soil conservation scheme during 2022-23

Sl. No.	Parameters	Units	Achievement during 2022-23
1	Renovation of Pond	Nos.	120
	a) No. of people benefited through pond renovation (approx.)	Nos.	2000
	b) Area of land cultivated through pond renovation (approx.)	Acre	2770

Sl. No.	Parameters	Units	Achievement during 2022-23
2	Construction of new rain water harvesting structures	No. of water bodies	35
	a) No. of people benefited through pond renovation (approx.)	Nos.	400
	b) Area of land cultivated through pond renovation (approx.)	Acre.	350
3	Advisory Services through Soil Laboratory - No. of Soil testing and fertilizers recommendation	Nos.	1606
4	Maintenance of Afforestation in DVC catchment area	Area in Acre.	145.8
5	Hydrological & Silt Monitoring of selected watersheds	No. of stations	04

Pisciculture

In the Valley area DVC have a combined water spread area of 34447 hectares at full storage level and total productive water area of about 20116 ha. Damodar Valley Corporation has four major reservoirs Maithon, Panchet, Tilaiya and Konar. From the year 2007-08, work on development of reservoir fishery has rejuvenated and expanded rapidly by involving local people under Primary Fishermen Co-operative Societies (PFCS) and Self Help Groups (SHGs). In the reservoirs, presently there are 35 registered Fishermen co-operative societies operating with a total of 1335 members.

Hatchery Management at Maithon Fish Farm:

Nearly 720 lakh Spawn have been hatched in the year 2022-23 and the same has been stocked in Maithon ponds as well as other small water bodies at Hazaribag.

One IMC Hatchery has been set up at Maithon Fish farm with a capacity of 20 million spawn production per operation, in order to supplement fish stock in different reservoirs. Excess spawn are being distributed to the members of the Fishermen Co-operatives, SHGs and progressive fish farmers for rearing in their own/ leased water body after meeting the demand of fish farm.

Stocking of fingerlings in DVC Reservoirs:

Like previous year Stocking of Fingerlings in all the reservoirs (Maithon, Panchet, Tilaiya & Konar) of DVC has been carried out with the help of State Fishery Department. Stocking of small check dams have been carried out and the balance fingerlings distributed among the marginal fish farmers for carrying out scientific Pisciculture in their own water bodies this year. Total fingerlings produced in 2022-23 was 35.8 lakhs which was subsequently released in DVC reservoir & other water bodies and distributed among the beneficiaries.

Spawn distribution programme under CSR activity. Total 720 no beneficiaries/ fisher Co-operative members benefited in 2022-23 under this programme, covering nearly 85 villages in & around DVC project area.

Annual achievement of Fisheries scheme during 2022-23

Sl. No.	Parameters	Units	Achievement during 2022-23
	Fisheries (Pisciculture Activities undertaken by Aquatic Resource, DVC, Maithon)		
1	Spawn production at Maithon& MTPS	Nos. in lakh	720
2	Fingerlings production	Nos. in lakh	35.8
3	Pisciculture in water bodies	Nos.	20
4	Distribution of spawn/fingerlings to the beneficiaries	No. of beneficiaries benefitted	720

Pisciculture Activities



New Water Harvesting & Renovated Water Bodies in Jharkhand and West Bengal



WHS-2 KURHARIA, 2021-22,
Z-1, BARHI



W.H.S.-1 RAHAGAMET
YEAR- 2021-22



W.H.S.-2 BAGALMAF
YEAR- 2021-22

CORPORATE SOCIAL RESPONSIBILITY OF DVC

Section 12 (f) of DVC Act, 1948 states one of the functions of the Corporation as “*the promotion of public health and the agricultural, industrial, economic and general well-being in the Damodar Valley and its area of operation*”. Accordingly, DVC, since its inception has contributed to sustainable development by delivering economic, social, and environmental benefits to all stakeholders.

Although CSR initiatives started in tandem with the construction of dams and power projects, DVC formally launched Social Obligation Programme (SOP) in the year 1981, much before organizations in India started CSR programmes.

CSR activities of DVC focuses primarily on developing infrastructure and community development activities of people residing within 10 km radius of its major projects. CSR, DVC presently operates at 629 villages (in West Bengal: 297 villages, in Jharkhand: 332 villages) covering 7 districts viz. Bankura, Purulia and Burdwan in West Bengal; and Dhanbad, Bokaro, Koderma and Hazaribagh in Jharkhand.

CSR Policy objectives:

- Uplifting the socio-economic conditions of the communities residing within 10 km of the main projects of DVC, both existing and proposed.
- Supplementing but not substituting the socio-economic development programs of Govt. of India and respective state governments for development of villages under operational area of CSR.
- Ensuring people’s participation, inter-alia organizing communities (target population) in Self Help Groups (SHGs) through the process of social mobilization, training and capacity building at every stage of the programs, from planning to implementation.
- Ensuring cordial relations with the local authorities and communities through transparency and continued developmental activities.
- Minimizing the social risks associated with the projects through CSR program.

The above objectives are achieved through activities categorised under two heads:

(1) Socio-Economic Development:

- Promotion and strengthening of primary education by running formal and non-formal schools and centres for children belonging to the economically backward classes, augmenting infrastructure of government run schools wherever needed, conducting different health awareness camps on personal hygiene in schools and organizing co-curricular activities like cultural events, athletics and painting competitions.
- Promotion of community health services through treatment of villagers at doorstep by Mobile Medical Units and homeo-dispensaries and organizing various health awareness camps on water and vector-borne diseases, AIDS, lifestyle diseases including eye screening, cataract operation and family welfare camps.
- Promotion of capacity building, enhancement of employability and income of the rural youths, training on skill development in technical institute like ITIs and DVC’s own training centres and livelihood generation trainings are imparted on agriculture and non-farm activities like pisciculture, poultry, piggery, duck rearing, scientific agricultural practices etc.
- Promotion of environmental protection and upgradation, through education, awareness and encouragement of activities based on Integrated Natural Resource Management through rainwater harvesting and modern pest management, organic manuring, Systemic Rice Intensification Technique and vegetable and cash crop farming in villages.

- Creation of individual household toilets with peoples' participation for prioritized village hygiene and sanitation, as part of the "Swachh Bharat Mission" of the Government of India. Campaign through street drama, magic show, awareness camps are organized to discourage open defecation.
- Promotion of sports and indigenous culture by organizing rural sports and tribal festivals.
- Promotion of livelihood generation based on aquatic resources through production of spawns and fingerlings through scientific hatching in DVC's own fish farm and promotion of pisciculture activities in DVC reservoirs and individual waterbodies.
- Upliftment and empowerment of marginalized section of the society, especially the rural women are encouraged to form their own Self-help Groups (SHGs) and develop the habit of savings and credit activities. The group enables its members to gain their identity as individuals, while realising – and utilising – the immense power of mutual aid.



DVC doctors treating patients through Medical Mobile Unit: CSR, Konar Dam



Family Welfare Camp organized: CSR, Mejia TPS



Eye check-up and Cataract operation camp: CSR, Raghunathpur TPS



Annual Sports Day Organized at Angadpur High School: CSR, Durgapur TPS



DVC sponsored Ms. Piyali Basak in her climb of Mt. Annapurna and Mt. Makalu: CSR, Corporate HQ



Training organized for women on Agarbatti Making at Maithon.



Sewing Training for Women at Tilaiya



Oil Seeds cultivated under green initiative by farmers: CSR, Raghunathpur TPS

(2) Infrastructure development schemes:

- Construction and renovation of drinking water sources – installation of tube wells and wells, supply of drinking water through overhead tanks and water tap points.
- Construction of individual household toilets.
- Construction and renovation of community buildings - school buildings, boundary walls, school toilet blocks separately for boys and girls, health centres, Anganwadi Centres, etc.
- Construction and renovation of bathing ghats, burning ghats, public toilets and urinals.
- Construction of village roads, drains and installation of streetlights etc.
- Providing irrigation facilities through construction of water harvesting structures, check dams, micro lift irrigation systems.



Tube Well installed at Jamnijara village: CSR, Konar Dam



Community Solar RO Drinking Water Plant installed at Lankapuri village: CSR, Durgapur Steel TPS



PCC Road constructed at Poraiya village: CSR, Tilaiya Dam



Gallery at Madanpur Football Ground constructed: CSR, Durgapur Steel TPS



Installation of High Mast Light by CSR Chandrapura TPS



Solar Street light installed at Village Sukantopally: CSR, Durgapur TPS



Initiative on Solid Waste Management at Durgapur Steel TPS



Achievements of the CSR for the Financial Year 2022-23

Sl. No.	Name of Work	Achievement	Unit
1	Installation of Tube Wells in Different Villages	40	Nos.
2	Financial Assistance Provided to Dist. Administration for Converting Existing Anganwadi Centres into Model Anganwadi Centres	55	No. of Anganwadi Centre
3	Installation of Water Purifier with Cooling System Machine in Schools	6	Nos.
4	Installation of Solar Powered Drinking Water System with Overhead Tank and RO Treatment in Village	1	No.
5	Construction of School Toilets with Water Facility	2	Nos.
6	Provision of Dustbins in Govt. Schools	20	Nos.
7	Construction of Boundary Wall in Schools/Anganwadi Centre	5	Nos.
8	Construction of village Road (length in meters)	6005	Metres
9	Installation of High Mast Light	1	No.
10	Construction of Shed/Ghat/ Waiting Hall/ Vivah Mandap /Flooring	12	Nos.
11	Installation of Solar Street Lights in Villages	122	Nos.
12	Construction of Individual Household Toilet	107	Nos.
13	Health Camps Organized	68	Nos.
14	Patients Treated Through Medical Mobile Van	26404	Nos.
15	Cataract Patients Operated	899	Nos.
16	Training for Skill Development Organized	25	Nos.
17	Persons Benefitted from Various Training for Income Generation	1147	Nos.
18	Rural Sports Tournament Organized/Sponsored	21	Nos.
19	Installation of Water Supply System Through Overhead Tank in Schools/ Villages	5	Nos.
20	Plant Saplings distributed among Farmers/SHG Members for Plantation	4032	Nos.
21	Villages Covered under CSR Initiative on Solid Waste Management	5	No. of Villages
22	Sponsored for Sports Expedition	1	No. of mountaineer

Corporation had earmarked Rs. 1243.36 lakhs for Corporate Social Responsibility for the financial year 2022-23. Out of the allocated fund, expenditure stands at Rs. 1029.60 lakh towards Socio Economic development and infrastructure development programme as well as special HQ approved schemes under Corporate Social Responsibility during the financial year 2022-23.



EDUCATION

DVC is promoting education through 29 schools that are either owned or are DVC sponsored. These schools at different projects/field formations meet the educational requirements of the children of community dwellers from surrounding villages, local people, as well as DVC employees to a formidable extent. 94% of these total school going wards belong to community dwellers of surrounding villages and localities of the DVC power stations.

DVC runs fifteen (15) schools on ownership basis at its major projects/field formations of primary, upper primary, secondary and higher secondary levels, with the objective to ensure easy accessibility and availability of quality education to all children around the periphery of DVC's projects/field formations.

Besides, DVC provides financial aids to three (3) Kendriya Vidyalayas located at Maithon, Chandrapura TPS, and Bokaro TPS and one (1) DAV school at Mejia TPS.

Also, there are ten (10) other Government and private schools for which DVC provides infrastructure support in the form of subsidized water, land, building that are running at DVC's township/colonies at field formations.

The concerned project authority assists the school managements by continuously monitoring and putting out optimal efforts in effectively running the schools for providing quality education.

At these DVC owned schools, the focus has been on the holistic development of children. All DVC run schools commemorated 75 years of India's Independence - "Azadi ka Amrit Mahotsav" on 15th August 2022 which was promoted by the *Department of School Education & Literacy, Ministry of Education, Government of India*. In observance of the day, many competitive events in speech, debate and essay on various topics related to India's freedom struggle were organised; in which students actively participated, thereby successfully displaying their ability to comprehend the roles of Indian freedom fighters.

Thus, DVC's overall support for elementary education aimed towards the wards of surrounding villages as end beneficiaries, is playing a pivotal role in achieving the socio-economic developmental objective in true spirit.



HUMAN RESOURCE MANAGEMENT

Manpower position: The following two tables highlight the manpower status of DVC.

Manpower Status and Man Megawatt Ratio as on 31.03.2023											
SL. NO.	CAPACITY in MW/CKM	STATION	HELD								MAN: MW (MAN:CKM for SYSTEM)
			Group A			Group B			Group C/D (3)	Total (1+2+3)	
			TOTAL (1)	TECH.	NON-TECH	TOTAL (2)	TECH.	NON-TECH			
1	500	BTPS	157	134	23	379	240	139	56	592	1.184
2	500	CTPS	175	148	27	444	279	165	114	733	1.466
3		** DTPS	46	36	10	172	94	78	31	249	
4	1000	DSTPS	195	174	21	174	141	33	6	375	0.375
5	1000	KTPS	177	160	17	136	110	26	1	314	0.314
6	2340	MTPS	392	365	27	565	441	124	158	1115	0.476
7	1200	RTPS	181	162	19	92	82	10	0	273	0.228
8	63.2	MAITHON	117	86	31	226	62	164	19	362	5.728
9	80	PANCHET	29	22	7	57	15	42	13	99	1.238
10	4	TILAIYA	5	4	1	25	13	12	0	30	7.5
11		KONAR	5	3	2	32	9	23	4	41	
12	8600 CKM	SYSTEM	260	259	1	432	370	62	25	717	0.0833
13		H'BAGH (SCD)	13	10	3	30	11	19	5	48	
14		BERMO MINES & OTHER MINES UNDER DEVELOPMENT	18	15	3	4	1	3	0	22	
15		KOLKATA	383	286	97	196	30	166	18	597	
16		NEW DELHI	8	6	2	4	1	3		12	
17		RANCHI	4	3	1	2	0	2	1	7	
18		GETs (Joined JAN – MAR 23)	30	30	0	0	0	0	0	30	
19	6687.2 MW	TOTAL	2195	1903	292	2970	1899	1071	451	5616	0.84 (MAN:MW)
	8600 CKM										0.0833 (MAN:CKM)

Notes:

** DTPS Thermal Generation unit is announced retired. 249 nos. of employees are posted at DTPS for existing system.

405 employees retired during 2022-23 (91 Group-A, 241 Group-B & 73 Group-C/D)

Function wise Man Megawatt Ratio of DVC as on 31.03.2023:

Sl. No.	Function	No. of employees	Total Installed Capacity (MW or CKMS)		Man: MW or Man: CKMS
1	Generation (Includes 6 TPPs and DTPS, HQ, New Delhi & Ranchi, H'bagh, Bermo Mines, Howrah)	4216	6687.2	MW	0.63
2	System (Includes manpower posted under the System wing i.e., Trans, TSC, CTC, Commn.)	998	8600	CKMS	0.116
3	Water Management & Others (Includes manpower posted at Dam Division, Hazaribagh, Mines)	372			
4	GETs (Joined JAN 23 – MAR 23)	30			
	Total	5616			

Women Empowerment

Women employees constitute about 6.76% of DVC's workforce as on 31.03.2023. Measures for empowerment and developmental policy of gender sensitization are adopted.

Group-wise distribution of Women Employees

Group	No. of total employees	No. of women employees	Percentage
Group A	2195	121	5.51%
Group B	2970	189	6.36%
Group 'C' & 'D'	451	70	15.52%
Total	5616	380	6.76%

- DVC is a lifetime member of *Women in Public Sectors (WIPS)* under aegis of the *Standing Conference of Public Enterprises (SCOPE)* as intended for the growth of women in the public sector. WIPS cell in DVC was formed as per guidelines of *SCOPE, Ministry of Heavy Industries and Public Enterprises, GoI.*
- DVC has *Internal Complaints Committee (ICC)*, at its all the administrative units, viz HQ, MTPS, DTPS, DSTPS, BTPS, CTPS, KTPS, RTPS, Maithon, and Panchet, in line with the "*Sexual Harassment Of Women At The Workplace Under Prevention, Prohibition And Redressal Act, 2013*" (*PoSHW Act, 2013* for short). At least one meeting of ICC in each quarter as compulsorily required, is conducted even if no case is reported.
- In FY 22-23 a total 06 nos. employees were given advanced training on *PoSHW Act 2013*.
- For observance of *International Day For The Elimination Of Violence & Discrimination Against Women* on 25.11.2022 and *International Human Rights Day* on 10.12.2022, awareness and sensitization programs were conducted at DTPS, Maithon, DSTPS, RD office Ranchi, and RD office Delhi of DVC for both male and female participants which included employees, casual, contractual staff across all sections.
- To commemorate *International Women's Day* on 08.03.2023, a *Women's Week* was organized from 01.03.2023 to 09.03.2023 in DVC which included various seminars, awareness programs, cultural events, etc.
- DVC has initiated a forum for its female employees & wives of DVC employees in the form of a "Ladies Club" to promote socialization & welfare activities among women members of DVC.



Persons with Benchmark Disabilities (PwBDs) -

Group-wise distribution of Employees who are PwBDs						
Group	No. of total employees as on 31.03.2023	Persons with Benchmark Disabilities				Percentage of PwBDs
		VD	HD	OD	Total	
Group A	2195	0	0	20	20	0.91%
Group B	2970	03	1	26	30	1.01%
Group 'C' & 'D'	451	0	0	02	02	0.44%
Total	5616	03	1	48	52	0.93%

Allocation of work is made in such manner that employees with physical disabilities have the least amount of inconvenience while carrying out their official duties. As per the provisions made by the Government for physically challenged employees, special transport allowance is granted at double the normal rate, ramp facilities are provided in buildings to ensure their convenience at work.

Welfare of SC/ST/OBCs/Minorities

Group-wise distribution of Employees belonging to SC/ST/OBCs/Minorities										
Group	No. of total employees as on 31.03.2023	Representation of SC, ST, OBC & EWS as on 31.03.2023					Percentage wise Representation of SC, ST, OBC & EWS as on 31.03.2023			
		SC	ST	OBC	EWS	Total	SC	ST	OBC	EWS
Group A	2195	434	150	586	4	1174	19.77	6.83	26.69	0.18
Group B	2970	650	197	701	0	1548	21.88	6.63	23.6	0
Group 'C' & 'D'	451	155	70	85	0	310	34.36	15.52	18.84	0
Total	5616	1239	417	1372	4	3032	22.06	7.43	24.43	0.07

- The *Employees' Depressed Class League (EDCL)* and *OBC Employees Welfare Association*, which is a union of SC/ST and OBC employees respectively, has received special recognition.
- EDCL has been provided with all types of support by the Corporation in arranging various programs that are close to their social and cultural philosophy.
- All committees of the corporation constituted to protect the welfare of its employees are represented by employees from EDCL like Housing Committee, Joint Plant Level Committee etc.
- A quarterly meeting between EDCL management and SC/ST employees is held to address issues and grievances.
- DVC gives a grant to celebrate various important events like *Dr. Bhimrao Ramji Ambedkar Jayanti*, etc. at HQ and field formations.
- Separate cells for SCs/STs and OBCs have been formed both at HQ and Field Formations. Orders for the appointment of Liaison Offices/Nodal Officers for SCs/STs and OBCs have also been issued.
- In all Selection Boards, SC/ST/OBC/Minority members are mandatorily included to safeguard the interest of SC/ST/OBC employees.

Industrial Relations and HR Policy

It is imperative to develop and maintain a favourable work culture for an organization to achieve its full potential. Several HR policies and welfare measures have been implemented to make employees feel that they are the Corporation's most important resource. DVC is committed to sustaining an engaged and skilled workforce that delivers on its commitments.

During FY 2022-23, the Corporation has implemented several HR policies considering employees as its core stakeholders as well as partners to achieve the organizational goals.

These HR policies and initiatives include:

i. Employee Wellbeing Policy:

DVC introduced the employee wellbeing policy with an objective to assess the general health conditions of the employees and their spouses attaining the age of 45 yrs. & above so that an early diagnosis would enable them for further medical attention. The aim of this policy is to create a workplace culture where employees feel motivated to work, and where wellbeing is recognised and embedded into DVC's working practices.

ii. Transfer and Job Rotation Policy for Executives:

The transfer and job rotation policy for executives was introduced vide No.PL-IR/Transfer Policy/Group-A/16-17/1285 dated 05-12-2016 to address the then needs of the Corporation. However, with the increase in DVC's generation capacity, diversification in business portfolio and changes in the business environment, the Corporation revised the transfer and job rotation policy for executives to meet the emerging challenges. Objectives of the transfer policy are:

- To cater to the changing needs of the organization.
- To ensure optimum utilization of manpower and skills.
- To meet the career and developmental needs of the employees
- To align the individual needs of employees to organizational requirements.
- To ensure objectivity, transparency, and consistency in the placement and relocation of employees.
- To ensure compliance with GOI/CVC norms of job rotation.

iii. Promotion Policy for Executives:

Promotion is an integral part of executive's career. To ensure the holistic growth and career progression of executives, the Corporation revised the promotion policy for executives. Salient features of the promotion policy are:

- a) The career management system comprises elements like organizational structure, detailed responsibilities, complexities at work, desired qualifications, and experiences.
- b) Defining the career path within the organization:
 - Establish a period for movement at various stages of the career path within DVC.
 - Establish criteria for the identification of candidates based on skills, competencies, qualifications, and experience, with performance being the key criterion.
- c) Identify training to be provided to the candidates promoted to cross over grades/levels to orient them into their new positions and responsibility band.
- d) Establishing linkages of career management system with other HR processes.
 - Performance Management System
 - Rewards & Recognition
 - Talent Management & Human Resource Development
 - Talent Retention
 - Succession Planning
 - Transfer Management
- e) Identification of Key Positions including Head of Projects through *Decision Support Tool*.



iv. Annual Incentive Scheme for Executives:

DVC introduced the annual incentive scheme for executives that aims to give monetary reward for sincere hard work based on profit in a given financial year. In this highly competitive environment, this scheme will certainly boost employees' motivation and high morale towards achievements of organizational goals, higher productivity, and profitability.

v. Regular Quarterly Meeting with Unions/Associations:

A regular meeting with recognised/registered trade unions/ associations is held to resolve IR issues. As a result of such meetings, the management unions and workers have developed cordial relationships with each other. Further, regular communication with unions has improved to address the concerns of workers in a timely manner.

vi. HR Audit:

HR audit is a comprehensive method to review current human resources policies, procedures, documentation, and systems to identify needs for improvement and enhancement of the HR function as well as to ensure compliance with ever-changing rules and regulations. HR audit is conducted in every financial year across projects/GOMDs in DVC.

vii. Employee benefits and welfare schemes

- a. **Leave Travel Assistance (LTA):** LTA is one of the most important components of welfare measures for employees. Since travelling was prohibited for around two years due to COVID-19, the Corporation provided a facility for extension of carrying forward benefit by another year in respect of LTA Block Year 2020-21 for the existing employees as well as extended the eligibility of LTA after superannuation for six months in respect of those retirees who could not avail the benefit due to COVID-19.
- b. **Membership verification through Secret Ballot:** Membership verification of the Trade Unions operating in DVC was conducted by the *Central Industrial Relationship Machinery, Ministry of Labor & Employment, GoI* on 28.04.2022/ 29.04.2022 and DVC Shramik Union was granted recognition based on the same for two years w.e.f. 16.06.2022.
- c. **Extension of coverage of PMSBY:** Coverage under *Pradhan Mantri Suraksha Bima Yojana (PMSBY)* has been extended to all non-regular workers of DVC. In this scheme, DVC reimburses the annual premium under the PMSBY scheme, which extends accidental coverage upto two (2) Lakhs to all the non-regular workers of DVC, apart from existing benefits under various other social security schemes like EPF/ ESI/ Insurance etc.
- d. **Introduction of DVC Employees' Contributory Death Relief Scheme:** Damodar Valley Corporation Employees' Contributory Death Relief Scheme has been introduced which provides monetary assistance to family members of those DVC employees, who are members of the said scheme, in the event of any unfortunate death, while in service. The scheme is voluntary and contributory in nature.

viii. Rewards & Recognition Scheme:

DVC recognizes the team's efforts to promote performance and competitive culture. Thus, the following reward and recognition schemes are currently in place at the Corporation:

a. Award for the Best Thermal Generating Station of the year:

The best thermal generating station of the year award was introduced in FY 2015-16. The main objective of the award is to encourage competition among various stations for better results measured on various technical and non-technical parameters related to thermal power plant operation. As a result, the performance of all power plants is continuously improving as well as an internal competitive environment has also developed to achieve the excellence.

b. Award for the Best GOMD Station of the Year:

The best GOMD was introduced in FY 2021-22 to encourage healthy competition and impetus among GOMDs of DVC in key operational performance parameters. The objective is to inculcate the quest for excellence amongst employees of GOMDs.

c. Safety Excellence Award:

The Corporation believes that safety is an integral part of its operations and ensuring safe working environment is a commitment in its power stations. This award was introduced in 2022. The safety excellence award is conferred to the best power plant every year on DVC Foundation Day for maintaining the highest safety standards. The objective is to identify the best power plant based on parameters narrated in the safety manual of the Corporation. This award aims to encourage employees working in various power plants of the Corporation for creating awareness towards improvement in safety standards.

d. Ideation Contest Award:

With transformational changes in the Indian power sector, innovative ideas and strategies are needed to be developed to achieve competitive advantage. To achieve these objectives, an ideation policy was formulated to source and implement ideas in the organization. This contest was implemented in 2021. An ideation contest is organized between April and June every year and winners are awarded on DVC Foundation Day.

ix. Employee Communication

- a. **Communication Meetings:** Each DVC project holds a communication meeting quarterly. To keep Union representatives/employees updated about DVC's activities, these meetings share new initiatives introduced by DVC in all areas with all Union representatives/employees.
- b. **HR Newsletter:** DVC publishes a bi-monthly HR newsletter on its website. DVC's newsletter is intended to effectively communicate new initiatives taken by the HR department as well as other significant activities. It also aims at encouraging creativity among employees. The HR newsletter also features articles contributed by DVC employees.

Promotions:

Data regarding career progression of DVC employees for the year 2022-23 is highlighted in the following table.

Sl. No.	Group	Recommended for Promotion during FY 2022-23
1	Group A (M5 to M10)	243
2	Group A (M2 to M4)	80
3	Group B to M1	99
4	Group B	344
	Total	766

Recruitment & Selection

DVC subscribes to the belief that efficiency, effectiveness and success of the Corporation depends largely on the skills, abilities and commitment of the employees who constitute the most important asset of the organization. DVC therefore has a transparent and robust method of recruitment process which enables the organization to hire the right talent. DVC has adopted different selection procedures like Written Tests, Skill Tests and Personal Interviews to hire the right talent for the jobs and make it available at the right time.

DVC ensures diversity at workplace through efforts of recruiting, developing and retaining the most talented people from the pool of SC/ST/OBC/EWS/PwBD candidates, etc., in accordance with GoI directives on reservation. As regular recruitment by DVC had been on halt since last few years, to bridge the gap and to meet the essential needs of manpower, recruitment on contractual basis, as well as from the internal sources and direct recruitment had been conducted.

In the year 2022-23, 30 GETs were appointed through GATE and 25 through Fast Track recruitment.



Learning & Development (T&D):

Highlights of the achievements in T&D during the FY 2022-23 are shown in the tables below:

A. Training Man-days (In-house & external) achieved during 2022 - 23

Month	Man-days
April 2022	1214
May 2022	1153
June 2022	1021
July 2022	984
August 2022	1170
September 2022	1265
October 2022	1191
November 2022	1772
December 2022	1059
January 2023	1940
February 2023	1045
March 2023	1387
Total	15201

B. Training Man-days achieved by Training Institute, Projects & Head Quarters during 2022 - 23

2022-23	Training Institute, Chandrapura	Projects (In-house)	Projects (External)	Kolkata (In-house)	Kolkata (External)	Foreign Training	Total
Training Man-days	2122	651	35	11983	290	120	15201

C. No. of Employees trained during 2022 - 23

2022-23	In-house Training	External Training	Foreign Training	Total
No. of Employees Trained	2714	317	6	3037

SC/ST/OBC REPORT - I

Annual Statement showing the representation of SCs, STs, OBCs and EWS as on 31.03.2023 and number of appointments made during the Financial Year 2022 - 2023.

Name of the Organization: Damodar Valley Corporation

Group	Representation of SC/ST/OBC/EWS (As on 31.03.2023)										Number of appointments made during the Financial Year 2022-23											
	By Direct Recruitment					By Promotion					By Deputation					Total						
	Total No. of Employees	SC	ST	OBC	EWS	Others	To- tal	SC	ST	OBC	EWS	Others	Total	SC	ST	OBC	Others	Total	SC	ST	OBC	Others
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]
Group - A	2195	434	150	586	4	1021	55	8	2	13	4	28	336**	62	19	53	202	NIL	NIL	NIL	NIL	NIL
Group - B	2970	650	197	701	NIL	1422	NIL	NIL	NIL	NIL	NIL	NIL	28	5	1	9	13	NIL	NIL	NIL	NIL	NIL
Group - C & D	451	155	70	85	NIL	141	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Total	5616	1239	417	1372	4	2584	55	8	2	13	4	28	364	67	20	62	215	NIL	NIL	NIL	NIL	NIL

SC/ST/OBC REPORT-II

Representation of SCs, STs, OBCs & EWS in various Group 'A' services as on 31.03.2023 & number of appointments made in various Grades in the Financial Year 2022-23.

Name of the Organization: Damodar Valley Corporation

Pay Scale (in Rupees)	Representation of SCs/STs/OBCs/EWS (As on 31-03-2023)										Number of appointments made during the Financial Year 2022-23												
	By Recruitment					By Promotion					By Deputation					Total							
	Total No. of Employees	SC	ST	OBC	EWS	Others	Total	SC	ST	OBC	EWS	Others	Total	SC	ST	OBC	EWS	Others	Total	SC	ST	OBC	EWS
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]
M1	176	28	11	43	NIL	25	2	NIL	5	NIL	28	5	1	9	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
M2	276	73	16	55	4	30	6	2	8	4	19	6	3	8	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
M3	353	65	15	107	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
M4	781	151	73	269	NIL	NIL	NIL	NIL	NIL	NIL	76	14	5	4	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
M5	349	68	31	88	NIL	NIL	NIL	NIL	NIL	NIL	109	18	10	24	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
M6	150	40	4	21	NIL	NIL	NIL	NIL	NIL	NIL	34	10	NIL	7	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
M7	68	5	NIL	3	NIL	NIL	NIL	NIL	NIL	NIL	55	5	NIL	1	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
M8, M9 & M10	42	4	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	15	4	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Total	2195	434	150	586	4	55	8	2	13	4	336**	62	19	53	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

** 13 Employees were promoted against the chain vacancy from the CPC Panel 2021.



VIGILANCE ACTIVITIES

In Damodar Valley Corporation the Vigilance Department is functioning under the overall supervision & control of Chief Vigilance Officer with an aim to ensure transparency, objectivity & equity in the functioning of DVC. The details of various activities taken up during the F.Y. 2022-23 are enumerated as under:

1. Disposal of Complaints:

A total of 131 complaints have been received during the F.Y. 2022-23 and 17 complaints were carried forward from the previous F.Y. Out of these 148 complaints investigated during the F.Y. 2022-23, 127 complaints have been disposed of and remaining 21 complaints are at various stages of investigation.

2. Inspection of Works, Services, Contracts etc.:

During the F.Y. 2022-23, total 53 Surprise Inspections and 142 Periodic Inspections were carried out. Points which emerged during inspections were brought to the notice of the concerned HODs/ HoPs and other officials for suitable corrective and administrative actions and also for taking up as a measure of systemic improvement. Some of the major issues observed during inspections are as follows:

(i) Delay in submission of instrument towards Security Deposit-cum-Performance Guarantee:

The Security Deposit-cum-Performance Guarantee (SDPG) is an essential tool to ensure that the promised supply/ works are delivered/ performed by the vendor at the agreed price within the stipulated time period and conforming to the agreed quality standards of the supply/ works. Thus, the delay in submission of SDPG may keep the above-mentioned safeguards of the Corporation at stake. Accordingly, Vigilance department has recommended to ensure submission of SDPG under the prescribed timeframe as per the provisions in the contract.

(ii) Non-execution/ delay in execution of Contract Agreement:

As the Contract Agreement is an essential document that seals the contractual terms and conditions through a bipartite legally binding agreement between buyer (DVC) and the vendors, non-execution/ delay in execution of Contract Agreement may result in non-fulfilment/ violation of terms & conditions of P.Os./ W.Os without any suitable legal safeguard in favour of DVC. It is worth mentioning that in a recent decision, the Supreme Court held that mere issuance of a Letter of Intent (LOI) would not create a binding contractual relationship amongst the parties. As such, Vigilance Department has recommended to ensure the execution of agreement as per the stipulated norm of the contract.

(iii) Delay in disbursement of wage payment of contractual labors:

Timely disbursement of wage payment of contractual labors is a statutory obligation for which prime responsibility lies with the principal employer i.e. DVC. On the recommendation of Vigilance Department a suitable mechanism has been formulated by DVC to monitor and ensure timely payment of monthly wages. In some cases it was observed that delay in submission of SDPG or execution of Contract agreement has resulted in non-payment of vendor which subsequently resulted in delay in wage payment of contractual labors.

(iv) Inordinate delay in finalization of contracts:

Delay in timely finalization of contracts often results in extension of existing contracts which is contrary to the principle of equity and fairness in the whole tendering process. Therefore, Vigilance Department has recommended for timely finalization of contracts as per the stipulation in the W&P manual.

(v) Delay in execution of project works:

Delay in execution of project works results in non-availability of entire system/ facility as per the schedule and sometimes also result in project cost overrun. Therefore, Vigilance Department has stressed upon the completion of project works as per the schedule.

(vi) Discrepancies in certain clauses of different NITs issued for similar nature of works:

Discrepancies observed in certain clauses of different NITs issued for similar nature of works across various projects of DVC have been pointed out by Vigilance Department and accordingly recommendations were made for formulation of Standard Bidding Documents (SBD) for major contracts having similar nature of works.

(vii) Recommendation towards Coal supply/ transportation:

Various recommendations like, proper reconciliation of stones/ boulders with coal Companies, making the penalty clause more stringent for violation in stipulated norms of the contract for transportation of coal, etc have been given on the matter related to supply and transportation of coal.

3. Disciplinary Cases:

During this period, Major penalty departmental proceedings i.r.o Vigilance cases were initiated against seventeen (17) nos. DVC employees.

4. Scrutiny of Audit Report & Scrutiny of APR etc.:

Audit Reports (CAG Paras & Internal Audit Paras) have been examined and Annual Property Return (APR) of different Gr. A & Gr. B employees have been scrutinized. Vigilance Clearance were accorded to different employees for various purposes.

5. Structured Meeting with the Chairman

Total 05 nos. of Structured Meetings were held with Chairman during the F.Y. 2022-23 on various Agenda points with follow up action and implementation. Issuance of O.M. regarding modification of provisions related to Banning of Business dealings, Issuance of SOP for recruitment in DVC, monitoring of various FGD projects through Cloud based MS Project Monitoring Software and Monitoring of all new future projects through the above mentioned Software only, progress towards updation of W&PM in line with DoE Manuals and substantial progress towards implementation of CLIMS in DVC are some of the major outcome of discussions held during Structured Meetings.

6. Vigilance Awareness Week (VAW):

Vigilance Awareness Week (VAW)-2022 was observed in Damodar Valley Corporation (DVC) with effect from 31.10.2022 to 06.11.2022 with the theme “**भ्रष्टाचार मुक्त भारत – विकसित भारत**” “**Corruption free India for a developed Nation**” during which various outreach activities along with Vendor Meet and Consumer Meet were conducted to sensitize the different stakeholders of DVC with relevant developments in the Corporation as well as to address their grievances, if any.

Besides, various preventive Vigilance cum internal housekeeping activities were taken up during the 3-months campaign period as a precursor to VAW-2022. Digitization of Land records, action towards removal of unauthorized occupation of DVC land and quarters, weeding out of unnecessary records, scrap disposal and updation of DVC website are some of the major activities taken-up during the campaign period which resulted into significant progress in this regard thereafter.

7. Systemic Improvement:

a) Some of the major recommendations which were implemented on the suggestion of Vigilance department towards systemic improvements during the FY 2022-23 are: (i) Modification of provisions regarding Security Deposit-cum-Performance Guarantee and issuance of SOP for timely and proper handling of Bank Guarantee submitted by Vendors (ii) Assessment of reasonability of rate quoted by L1 bidder, irrespective of quoted rate, after due diligence has been made obligatory on the part of Tender Committee (iii) Provision of RFID stickers in all the vehicles used for transportation of Coal and Ash by road and installation & functioning of associated Smart towers at Weighbridges



across different projects of DVC (iv) Amendment in the penalty clause of NIT, for transportation of coal to DVC Power Plants through RCR mode, stipulating “if the agency fails to lift less than 90% of agreed quantity”, meaning thereby that the agency may lift less than 90% of agreed quantity of coal, though with penalty, thereby defeating the basic purpose of said clause. Vigilance department advised to amend the said penalty clause suitably (v) Addressing the ambiguity in the aforementioned NIT for transportation of coal to DVC Power Plants through RCR mode, wherein two contradictory methods for computation of Coal shortage, one as difference in sum of challan / dispatched weights at colliery ends and sum of plant end weights, and another as difference in sum of weights at colliery end and sum of RR (Railway Receipt) weights, was highlighted by Vigilance department.

- b) Some of the major recommendations which were suggested by Vigilance department towards systemic improvements during the FY 2022-23 and which are in various phases of implementation are: (i) In case of Tenders where EMD provision is not there as per guidelines of W&P manual, suitable alternative mechanism needs to be framed and incorporated to safeguard against delayed submission of SDBG by the Vendors (ii) Finalization of consolidated contract centrally by C&M, HQ after assessing the requirement of hiring of hydra and other similar heavy equipment's like dozer and locomotives in various DVC projects (iii) Proper functioning of GPS system and standardisation of related exception criteria during execution of all the contracts of transportation of Coal and Ash by road across different projects of DVC.
- c) Vigilance Department has been persistently taking-up the matter pertaining to implementation of various systemic improvements measures suggested by CVC and MOP in respect of the transportation of coal in RCR mode to ensure the receipt of right quality and quantity of coal by DVC. Some of the suggestions have already been implemented and balance are at various stages of implementation and is being followed-up continuously by Vigilance Department.



PROMOTION OF OFFICIAL LANGUAGE

Sensitive to heritage, social and cultural concerns of India, the *Official Language Cell of DVC* in pursuance of GoI's *Rajbhasha Policy* to promote Indian languages and Rajbhasha "Hindi", have delivered all efforts to integrate the use of Hindi in its office works at all levels. DVC has implemented different *Official Language Programmes* along the directives of *Department of Official Language, Ministry of Home Affairs and Ministry of Power, Government of India*.

Steps have been taken for propagation and implementation of Official Language Hindi in the Corporation through organizing of *quarterly meeting, TOLIC meeting*, conducting scheduled inspections in different units, implementing incentive schemes, publishing *Official Language Magazine* alongwith *Monthly e-Magazine* and providing training on Voice Typing as well as effective use of *Microsoft Office 365* for Hindi. In collaboration with *Hindi Teaching Scheme, GoI.*, DVC has established training centres at Headquarters and field formations for imparting Hindi knowledge to employees.

During the financial year, competitions on essay writing (14.09.2022), poetry recitation (15.09.2022), extempore speech (16.09.2022), Bhav Pallavan (19.09.2022), Hindi note and draft writing (20.09.2022) were successfully organised. The main objective of the competitions was to make the participants efficiently use Hindi in official work as well as to create awareness about the official language and to remove the existing hesitation among them. Altogether 215 participants participated in these events.

As part of promotion of official Language different workshops were also organized on 21.09.2022 on the topic "*Official Language Provisions in the Constitution of India – An Introduction*". On this occasion, Sh. Nirmal Kumar Dubey, Deputy Director (Implementation), Eastern Zone, Department of Official Language, Ministry of Home Affairs, Government of India, highlighted the importance of official language in the Constitution of India.

Sh. *Naveen Kumar Prajapati*, Consultant to *Central Translation Bureau, MHA, GoI* highlighted the art of using short English phrases in Hindi in official works during the session on the topic of "Role of translation in office context – An introduction".

A Kavi-Sammelan, as part of the Rajbhasha Pakhwada or Hindi Fortnight (14.09.2022 to 29.09.2022) was also organised on 23.09.2023. Mr. Mrityunjay Kumar Singh, Mr. Yatish Kumar, Mrs. Anila Rakhecha, Mohtarma Raunak Afroz, Mr. Anand Gupta, Mrs. Ritu Tiwari and corporation's poet Mr. Shailesh Gupta, were among eminent participants.

A Sangeet-Sandhya program was also organized on 28.09.2022 paying tribute to Lt. Lata Mangeshkar.

In order to promote the utility, importance of official language and the culture of working in Hindi in the office, Dr. Sanjay Jaiswal, Assistant professor of Vidyasagar University and coordinator of '*Sanskriti Natya Manch*' tried to connect people with arts, culture and literature while staging the street play '*Azadi Ka Rang Tiranga*' and '*Ahinsa Parmo Dharma*' based on the story of *Munshi Premchand*.

On 29.09.2022, during the prize distribution for the fortnight ceremony, Shri Krishna Nath Pandey, Vice-Chancellor, Sunrise University, Alwar, Rajasthan organized on *Rajbhasha Sangoshthi*.

DVC is committed to ensure the implementation of Official Language Policy and to achieve the goal as laid out in the Rajbhasha Annual Programme. DVC has been honoured with "Rajbhasha Kirti Puruskar"- second prize for its excellent performance in Official Language activities in the entire "C" Region by Hon'ble Home Minister, Govt. of India for the year 2021-22. The award was received by DVC Chairman respected Shri R.N. Singh on 14th September 2022 at Rajbhasha Sammelan held at Surat, Gujrat.



HEALTH SERVICES

Annual Statement for 2022 -23 of Activities of Hospitals/ Dispensaries / PH Department under DVC

SL. NO	SERVICES RENDERED TO PATIENTS	2022 - 2023
01	OUTDOOR TREATMENTS	
	No. of Patients attended OPD	
	A) DVC	1,73,114
	B) NON-DVC	1,00,440
02	INDOOR TREATMENTS	
	No. of Patients TREATED	
	A) DVC	1,284
	B) NON-DVC	3,610
03	OPERATIONS DONE	
	A) MAJOR OT	105
	B) MINOR OT	13,689
04	HOSPITAL SERVICES	
	LAB-INVESTIGATION	97,543
	X-RAY DONE	5,481
	PHYSIOTHERAPY PATIENT	7,014
05	IMMUNIZATION PROGRAMME	
	TOTAL BENEFICIARIES	24,908
	COVID-BOOSTER DOSE	12,106
06	SIP PROGRAMME	
	A) NO. OF CLUSTERS	75
	B) TOTAL NO OF BENEFICIARIES	27,161
07	WELFARE PROGRAMME	
	A) NO OF BLOOD DONATION CAMP	18
	B) NO OF BLOOD DONOR	556
	C) NO OF CAMP & HEALTH AWARENESS PROGRAMME	444
	NO. OF PATIENTS TREATED / BENEFICIARIES	26,297
08	REVENUE EARNED through Doctor's Fees, Bed Charges, etc.	46,29,742



RIGHT TO INFORMATION

To strengthen the system of RTI implementation in DVC, an RTI Cell was set up in Secretariat Department, DVC HQ, Kolkata. The cell acts as a nodal point for all RTI implementation issues in DVC, HQ as well as for the field formations of DVC. The cell is headed by CPIO, DVC, HQ as the Nodal Officer (RTI), with one designated Appellate Authority in DVC, Kolkata and ten Central Public Information Officers (CPIOs) at field level of its major projects.

DVC has given special emphasis on suo moto disclosures of information in public domain in its website www.dvc.gov.in, Link: RTI on a proactive basis time to time at regular intervals to uphold transparency and for easy access to the public.

The RTI Cell receives applications through online and offline modes and disposes them accordingly.

RTI application status during FY 2022-23 of DVC Head Quarter & 10 no. Field Projects are as under:

RTI application Received (no.)	RTI application Rejected (no.)	RTI application Disposed of (no.)
506	62	412



PUBLIC GRIEVANCE

Public grievances are received either directly (offline mode) from grievance petitioners or through *Centralized Public Grievance Redress and Monitoring System (CPGRAM)/PG Portal* (online mode) as forwarded by *PMOPG, DARPG, MOP, DOPPW and President Secretariat*, which requires disposal in a time bound manner. These are disposed of accordingly.

Public Grievance application status during FY 2022-23

Sl. No.	Public Grievance application (no.) Carry forward from FY 21-22	Public Grievance application Received (no.)	Public Grievance application Disposed of (no.)	Public Grievance application carry forward (no.)
1.	02	71	73	Nil



FINANCE & ACCOUNTS

The Financial Results of the Corporation for the current year 2022-23 along with previous year are placed below:

(Rs in Crore)

	2022-23	2021-22
1.REVENUE INCOME		
i. Sale of Power		
Firm Domestic Sale	12189	11345
Firm Export Sale thru' Traders	11318	8880
Short Term Open Access [STOA]	1271	1178
Sale thru' Exchange & Others	227	396
Total	25,005	21,799
ii. Misc. Income [Power]	1,015	979
iii. Total Income (i+ii)	26,020	22,778
2.REVENUE EXPENDITURE [POWER]		
i. Fuel	14,741	11,170
ii. Purchase of Power	1,961	1,353
iii. Employee Remuneration & Benefit	1,508	2,427
iv. Generation, Distribution, Administration & Other expenses	1,914	1481
v. Depreciation	2723	2697
vi. Prov. for Consumers O/S & for Others	523	155
3. Operating Profit [1(i)-2]	1,635	2,515
4.Finance Cost	2311	2341
5.Current Year's Surplus /(deficit) on Power [3+1(ii)-4]	339	1,154
6 Surplus / (Deficit) on Irrigation & Flood Control	365	263
7.Surplus/(Deficit) [5+6]	704	1,417
8.Exceptional items	0	-782
9.Profit Before Tax [7+8]	704	635
10.Income Tax (Deferred Tax Credit)	-	-
11.Net Surplus/ (Deficit) after Tax [9-10]	704	635
12.Gross Margin [1(i)-2(i) to2(iv)]	4,881	5,368

Sale of Power

Sale of Power has increased to Rs. 25,005 Crore during the year from Rs. 21,799 Crore of the previous year.

Profit /Loss on Power

During the current financial year, Corporation has experienced a surplus of Rs. 339 Crore on Power object as compared to Rs. 372 Crore in previous financial year.

FUEL COST

The Fuel Cost has increased during the year to Rs. 14,741 Crore from Rs. 11,170 Crore of the previous year mainly due to use of imported coal and increase in generation.



OPERATION & MAINTENANCE CHARGES on power

Operation & Maintenance Cost and Employee's Benefits Cost for the Financial Year 2022-23 were Rs. 3,422 Crore in comparison to Rs. 3,908 Crore in the financial year 2021-22. The main reason for decrease in cost is due to decrease in Pension and gratuity liability, liability for leave encashment and post-retirement medical benefit scheme.

FINANCE COST

The Finance Cost has decreased during the year to Rs. 2,314 Crore from Rs. 2,343 Crore of the previous year.

NB. Interest on Short Term Borrowings (part of Finance cost) includes Rs. 0.65 Crs. towards cost of deferment of payment of demand charges for April 2020 to June 2020 relating to the Firm Consumers of Jharkhand vide JSERC order dt. 21.09.2020 in case no. 15 of 2020 and subsequent judgement dt 28.01.2021 passed by Hon'ble APTEL in appeal no.170 of 2020 and Rs.1.96 Crs. towards cost of deferment of due date for the consumption month March 2020 and April 2020 for West Bengal Firm Consumers vide WBERC order dt.21.09.2020 in case no. SM-22/20-21.

CAPITAL ACCOUNT

Balance of the Capital Account as on the beginning of the current financial year was Rs 5,196 crore. There is no change in the Capital Structure during the current financial year. The summarized position of Member's Fund is given in the following table:

(Rs in Crore)				
ITEM	CENT GOVT	WB GOVT	BIHAR GOVT	TOTAL
Opening Balance	1,820	1,594	1,782	5,196
Adjustment of Capital expenditure on Irrigation object				
Total Members Fund	1,820	1,594	1,782	5,196

DVC Board, represented by members of the three Participating Member Governments approved the following:

Central Government:

Interest on Capital of Rs. 2.46 Crore as accrued to the Central Govt. for the year 2022-23 along with the current year Surplus of Rs 4.59 Crore on Power object is to be adjusted by the Corporation against brought forward net deficit of Rs. 2,332.43 Crore at the end of FY 2021-22. After the above adjustment, the balance deficit payable by the Central Govt. comes to, Rs. 2,325.38 Crore. This amount is receivable from the Central Govt. as per provision of Section 37(2) of DVC Act which will be adjusted against the share of dues to be credited to the Central Govt. Account in the subsequent accounting year(s).

West Bengal Government:

Interest on Capital of Rs. 4.30 Crore as accrued to the WB Govt. for the year 2022-23 along with the current year Surplus of Rs. 4.59 Crore in Power object and Rs 378.70 Crore on Irrigation object totaling Rs 387.59 Crore and Deficit on account of Flood Control for the FY 2022-23 Rs 14.99 Crore is to be adjusted by the Corporation against brought forward net deficit of Rs. 915.44 Crore at the end of FY 2021-22. After the above adjustment, the balance deficit payable by the West Bengal Govt. comes to, Rs. 542.84 Crore. **Bihar Government:**

Interest on Capital of Rs.2.26 crore accrued to the Bihar Govt. for the year 2022-23 along with the current year



Surplus of Rs. 4.59 Crore in Power Object and Rs 1.08 Crore on Irrigation object totaling Rs 7.93 Crore is to be adjusted by the Corporation against brought forward net deficit of Rs. 2,349.76 Crore at the end of FY 2021-22. After the above adjustment, the balance deficit payable by the Bihar Govt. comes to, Rs. 2,341.83 Crore. This amount is receivable from Bihar Govt. as per provision of Section 37(2) of DVC Act which will be adjusted against the share of dues to be credited to the Bihar Govt. Account in the subsequent accounting year(s).

GENERAL RESERVE

Balance as on 31st March 23 is Rs. 2,990 Crore. The increase from the previous year's figure of Rs. 2,973 Crore is due to transfer of Rs. 17 Crore from Surplus.

REVALUATION RESERVE

Balance as on 31st March 2023 is Rs. 5,127 Crore. There is no change in revaluation reserve as compared to previous year.

NETWORTH

The Net Worth of the Corporation at the end of 2022-23 is Rs. 7,685 Crore as compared to Rs. 6,739 Crore of the corresponding period of previous year (excluding Revaluation Reserve of Rs. 5,127 Crore).

LONG TERM BORROWING

Balance as on 31st March 2023 stood as Rs. 15,717 Crore in comparison to the figure of previous year Rs. 15,677 Crore. The increase is mainly due to loan taken for T&D Project and increase in loan for FGD & Tubed Coal mines taken from Financial Institutions and Banks. Details of the breakup are furnished below:

(Rs in Crore)

	2022-23	2021-22
Project Loan		
Secured Loan		
Name of Financial Institution		
Power Finance Corporation (PFC)	2,068	2,270
Rural Electrification (REC)-BTPS A	1,752	1,907
Power Finance Corporation (PFC)-T&D	73	0
Power Finance Corporation (PFC)-FGD less than 500MW	212	0
Loan from Bank of Baroda - RTPS (PFC Loan substituted)	773	1,010
West Bengal Industrial Development & Financial Corporation Limited WBIDFCL(RTPS-I)	287	368
9.30 % PSU Bond guaranteed by GoI	4,400	4,400
Syndicate Loan from Consortium of Bank - FGD	1,420	945
Loan From Bank of India-DSTPS	1,438	1,594
Loan From Bank of India-Tubed Coal Block	231	67
Loan from Punjab & Sind Bank	382	435
Subtotal: Secured Loan	13,036	12,996
Unsecured Loan		
8.69% PSU Bonds guaranteed by GOI	2,600	2,600
GOI Loan for DRIP	80	80
RVP Loan from GOI	1	1

	2022-23	2021-22
Subtotal: Unsecured Loan	2,681	2,681
Total	15,717	15,677

Details of Debenture Trustees in terms of SEBI Circular No CIR/IMD/DF/18/2013 Dated 29th October, 2013 and Clause 2A of debt listing agreements.

Series - 14	SBICAP Trustee Company Ltd. Apeejay House, 6 th Floor, West Wing, 3, DinshawWachha Road, Churchgate, MUMBAI – 400020. Tel. No. : 022-4302 5555, Fax No. : 022-2204 0465 Email ID : ajit.joshi@sbicaptrustee.com
Series - 15	Catalyst Trusteeship Ltd. GDA House, Plot No. 85, Bhusari Colony (Right), Paud Road, Pune – 411038. Tel. No. : 020-2528 0081 Fax No. : 020-2528 0275 Email ID : dt@ctltrustee.com

Other Long –Term Liabilities

Balance on Other Long-term Liabilities increased to Rs. 1,518 Crore on March 2023 from Rs. 1,483 Crore on March, 2022 mainly due to increase in Security Deposit & Retention Money.

Particulars	(Rs in Crore)	
	2022-23	2021-22
Security Deposit & Retention Money	1243	1075
Interest Payable to Participating Govts.	9	9
Government Grant PSDF for Fixed Assets	131	129
Payable for Capital expenditure (Non -Current)	135	270
Total	1518	1483

Long Term Provisions

Long term provision is increased to Rs.776 Crore on March 2023 from Rs. 685 Crore on March 2022.

short term borrowings

Balance as on 1st April, 2022 was Rs. 9,603 Crore. The same has decreased to Rs. 9,440 Crore as on 31st March, 2023. The decrease is mainly due to lower utilization of cash credit facility. Details are furnished below:

(Rs in Crore)		
Name of Financial Institution	2022-23	2021-22
Short Term Line of Credit:		
Union Bank of India	1,100	600
Bank Of India	1,800	1,800
Canara Bank		600
Andhra Bank		500
Bank of Baroda		700
Punjab National Bank	450	500
Indian Bank	-	300
State Bank of India	400	
IndusInd Bank	400	
PFC	800	
Total Short-Term Line of Credit	4,950	5,000
Unsecured Line of Credit from HDFC Bank	900	900
Cash Credit	3,590	3,703
Total Short-Term Borrowings	9,440	9,603

TRADE PAYABLES

The Trade Payables as on 31st March, 2023 is Rs. 2,760 Crore in comparison to the last year's figure of Rs. 1,429 Crore. The reason for increase is due to increase in Sundry Creditors for coal, oil, purchase of power & Works Contract, Consumable Supply & Others misc. during the year.

(Rs in Crore)		
Particulars	2022-23	2021-22
Fuel	1927	883
Purchase of Power & UI	337	162
Works Contract, Consumable Supply & Others misc.	496	384
TOTAL	2,760	1,429

OTHER CURRENT LIABILITIES

The Other Current Liabilities as on 31st March, 2023 is Rs. 4,895 Crore in comparison of last year's figure of Rs. 5,045 Crore.

SHORT TERM PROVISIONS

The Liabilities for Short Term Provision on account of Tariff Adjustment, Employees benefits and long-term contract as on 31st March 2023 is Rs.1,060 Crore as compared to Rs. 993 Crore of previous year. The increase in short term provision is due to enhancement of provision for employee benefit & revenue expenditure.



FIXED ASSETS

Tangible Assets (Net) is Rs. 21,307 Crore as on 31st March, 2023 as compared to Rs. 22,587 Crore of previous year. The breakup of Fixed Assets is furnished below:

Particulars	(Rs in Crore)	
	2022-23	2021-22
Tangible Assets (Net)	21,307	22,587
Intangible Assets (Net)	-	-
Capital Work-in-Progress	5,365	4,500
Intangible Assets under Development	-	-
TOTAL	26,672	27,087

NON-CURRENT Investment

Total Non-current Investment of the Corporation as on 31st March 2023 is Rs.576 Crore as compared to Rs. 557 Crore of previous year.

Particulars	Rs. In Crore	
	2021-22	2022-23
J V Companies	547	566
Other Companies	10	10
TOTAL	557	576

INVESTMENT IN JOINT VENTURE COMPANIES

Maithon Power Limited (MPL)

Maithon Power Limited (MPL), a joint venture Company was incorporated on 26-07-2000 between DVC and BSES Limited and after exit of BSES Ltd. from MPL, The Tata Power Company Limited joined as the JV partner on 02-09-2005 with shareholding between DVC (26%) and Tata Power Company Limited (74%), for construction of a 1,050 MW (2 x 525 MW) power plant at Maithon in Jharkhand. Both the units have been commissioned and started commercial generation. Upto 31st March 2023 DVC has invested Rs. 392.32 Crore in the equity of MPL. Brief financial data are furnished below:

Particulars	FY 2022-23 (Rs in Cr.)	FY 2021-22 (Rs in Cr.)
Gross Income / Total Revenue	3078.76	2802.48
Total Comprehensive Income after Tax	344.50	280.50
Earnings per Share (Basic)	2.29	1.86

Bokaro Power Supply Company Pvt. Limited (BPSCL)

BPSCL was incorporated on 17-08-2001 and was converted into Joint venture Company of DVC and SAIL with 50% equity participation by each from 25-01-2002 for running the existing Captive Power Plant of SAIL at Bokaro Steel, Jharkhand.

BPSCL is having installed capacity of 338 MW / 2180 Ton Steam PH and the total power generated is supplied to Bokaro Steel Plant of SAIL. In addition to supply of power, BPSCL also supply steam to Bokaro Steel Plant.

DVC's investment in Equity up to 31st March 2023 is Rs. 124.02 Crore.



The financial highlights of the Company are as under:

Particulars	FY 2022-23 (Rs in Cr.)	FY 2021-22 (Rs in Cr.)
Gross Income / Total Revenue	890.09	775.58
Total Comprehensive Income (after Tax)	64.13	72.93
Earnings per Share (Basic)	2.60	2.95

DVC EMTA Coal Mines Limited (DECML)

DVC was allotted Coal Blocks for mining of Coal to be utilized for its Power Plants. In order to develop the mining operation, DVC entered into joint venture agreement with EMTA on 13-04-2005 and the joint venture Company, DECML was incorporated on 05-07-2005 with equity participation of DVC (26%) and EMTA (74%). However, DVC's equity participation has been made on account of Coal Blocks other than cash. Two Coal Blocks namely Barjora (North) and Khagra-Jaydev were taken under the above Joint Venture Company.

However, with the Order of the Hon'ble Supreme Court of India, all the coal blocks were de-allocated during 2014-15. As on 31-03-2023 DVC's equity capital is Rs 26 Lakh (2,60,000 shares of Rs. 10 each), being 26% of the total paid up equity capital of DECML.

National High Power Test Laboratory Pvt. Ltd. (NHPTLPL)

The Joint Venture Company was formed on 22-05-2009 among DVC, NTPC Ltd., NHPC Ltd. and Power Grid Corporation of India Ltd. with 25% equity contribution by each. Later, CPRI has also been inducted as a JV partner and revised equity participation in the JV came to 20% each. In FY 2022-23 the percentage of shareholding by DVC in the JV Company has been further revised from 20% to 12.5% The JV Company is incorporated for setting up an on-line High Power Test Laboratory for short circuits test facilities in the country.

As on 31-03-2023 DVC has invested Rs. 48.80 Crore in the Company.

MAMC Ltd

Another Joint Venture is in the process between BEML, CIL & DVC to acquire the assets of MAMC Ltd. from the Official Liquidator appointed by Calcutta High Court. DVC has paid Rs. 33.68 Crore for the same. Formation of JV and finalization of the JV agreement are in progress.

PTC India Limited (PTC)

PTC, the leading provider of power trading solutions in India, was established in the year 1999 as a Government of India initiated Public-Private Partnership, whose primary focus is to develop a commercially vibrant power market in the country. DVC has invested in equity share of PTC for an amount of Rs 10 Crore.

The financial highlights of the Company on Standalone basis is as under:

Particulars	FY 2022-23 (Rs. In Cr.)	FY 2021-22 (Rs. In Cr.)
DVC's investment in Equity	10.00	10.00
Gross Income / Total Revenue	14,887.44	15631.39
Total Comprehensive Income after Tax	389.05	434.78
Earnings per Share (Basic)	12.49	14.35



Green Valley Renewable Energy Limited

DVC has entered into a Joint Venture agreement with NTPC Renewable Energy Limited to co-operate, develop and establish Ultra Mega Renewable Energy Power Park (UMREPP) and RE Projects together on Land and reservoirs owned by DVC subject to technical commercial feasibility. Accordingly, a JV company named, Green Valley Renewable Energy Limited was formed with equity participation of 49 % share of DVC and 51% share of NTPC REL.

LONG TERM LOANS AND ADVANCES

The amount of Long Term Loans and Advances as on 31st March 2023 is Rs.661 Crore as against Rs. 694 Crore on 31st March 2022. Reduction is mainly due to decrease in Capital Advance.

CURRENT INVESTMENT

It represents Short Term deposit with Bank and FIs amounting to Rs. 238.65 Crore.

Inventories

The Inventory in 2022-23 has increased by Rs. 226 Crore from 2021-22. Increase in Inventory is mainly due to increase in stock of Coal, oil & stores & spares . The breakup of inventory is furnished below :-

Particulars	(Rs. In Cr.)	
	2022-23	2021-22
Fuel- Coal	733	598
Fuel- Oil & Naptha	127	83
Loose Tools & Others	2	2
Stores & Spares	1023	977
TOTAL	1,885	1,660
Less provision	174	175
TOTAL	1,711	1,485

TRADE RECEIVABLES

Particulars	2022-23 (Rs in Crore)		2021-22 (Rs in Crore)	
	Power	Irrigation	Power	Irrigation
A. Debts Outstanding for a period exceeding six months				
Unsecured considered Good	4,001	62	1,577	-
Considered Doubtful	1022	79	835	87
Less Provisions for Bad & Doubtful debts	1022	79	835	87
B. Debts Outstanding for a period not exceeding six months				
Unsecured considered Good	5,536	78	6,123	82
Considered Doubtful				
Less Provisions for Bad & Doubtful debts				
TOTAL (A+B)	9,537	140	7,700	82

Total outstanding amount (gross) on account of supply of power is Rs. 10,559 Crore (previous year Rs. 8,535 Crore) as on 31st March 2023 does not include unbilled revenue of Rs.6,096 Crore (previous year Rs. 6,025 Crore).



Total outstanding amount (gross) for supply of water for Industrial & Domestic purpose is Rs. 219 Crore as on 31st March 2023 (previous year Rs. 169 Crore), does not include unbilled revenue of Rs. 15 Crore (previous year Rs. 14 Crore).

CASH & CASH EQUIVALENTS

(Rs. In Cr.)

Particulars	2022-23	2021-22
Current Account	260.49	198.55
Cash balance	0.03	0.06
Imprest	0.19	0.14
TOTAL	260.71	198.75

Short Term Loans & Advances

The amount of Short term Loans and Advances as on 31st March 2023 is Rs. 672 Crore as compared to Rs. 534 Crore on 31st March 2022.

DEPLOYMENT OF INCOME

(Rs. in Crore)

Particulars	2022-23		2021-22	
	Amt	%	Amt	%
Fuel	14,741	55.80	11,170	48.36
Employee Benefit	1,519	5.75	2,436	10.55
Operation & Maintenance & General Administration Charges	2,454	9.29	1,680	7.27
Purchase of Power	1,961	7.42	1,353	5.86
Depreciation	2,723	10.31	2,698	11.68
Finance Cost	2,314	8.76	2,343	10.14
Exceptional Items	-	-	782	3.39
Current Tax / Deferred Tax	0	0	0	0
Savings	704	2.67	635	2.75
Total	26,416	100.00	23,097	100
INCOME	26,416	100.00	23,097	100

KEY RATIOS

PARTICULARS	2022-23	2021-22
1. Growth (%)		
(i) Increase in Revenue from Operation (Power)	14.70	26.76
(ii) Tangible Asset (Net) Turnover Ratio (Power)	144.87	117.58
(iii) Increase in Debtors (Power + Water)	24.36	2.29
(iv) Increase / (Decrease) in Inventory (Fuel)	26.34	(-)25.42
2. Profitability (%)		
(i) Gross Margin/Sales (Power)	19.52	24.63
(ii) Operating Profit-Power /Total Income	6.29	11.05



PARTICULARS	2022-23	2021-22
(iii) Net Profit /(Loss) -Power / Total Income -Power	1.30	1.63
3. Solvency/ Liquidity		
(i) Debt to Net Worth Ratio (excluding Revaluation)	2.05	2.33
(ii) Current Ratio	1.16	1.08
(iii) Quick Ratio	1.07	0.99
4. Turnover Ratio		
(i) Inventory Holding- Fuel (in days)	21	22
(ii) Debtors Holding (in months) (Power)	4.58	4.24

Note : Previous years' figure have been recasted & regrouped where ever required

SELECTED FINANCIAL INFORMATION

Rs in Crore

	2022-23	2021-22	2020-21
Revenue Income			
Sale of Power	25004.56	21,799.31	17,197.34
Sale of Water	387.61	305.91	253.74
Rental & Wheeling			
Other Income	1023.55	991.67	1,355.66
Total	26,415.72	23,096.89	18,806.74
Revenue Expenses			
Fuel	14740.9	11,169.89	9,733.61
Operation & Maintenance Expenses	3973.06	4,116.22	2,762.39
Cost of Power Purchased	1960.83	1,353.07	814.59
Prior Period Expenses - Others			(0.16)
Total	20,674.79	16,639.18	13,310.43
Profit before Depreciation, Interest and Tax	5,740.93	6,457.71	5,496.31
Depreciation	2723.13	2697.89	2,674.86
Profit before Interest and Tax	3,017.80	3,759.82	2,821.45
Interest and Finance Charges	2313.56	2342.93	2,519.49
Profit (Loss) before Tax	704.24	1,416.89	301.96
Exceptional Items		782.00	
Deferred Tax / Current Tax			NIL
Profit (Loss) after Tax	704.24	634.89	301.96
What is Owned			-
Gross Fixed Assets	60744.93	59,432.84	58,882.25
Less: Depreciation Reserve	39438.27	36,845.77	34,161.97
Net Block	21,306.66	22,587.07	24,720.28
Intangible Assets	0.06	0.06	10.87
Capital WIP	5364.64	4,499.79	2,619.92



	2022-23	2021-22	2020-21
Investments, Long Term Advances etc.	1237.09	1,251.55	1,286.57
Current Assets, Loans and Advances	21068.25	18,443.97	14349.23
Total Net Assets	48,976.70	46,782.44	42,986.87
What is Owed			
Long Term Loans	15716.75	15,677.39	15,804.06
Deferred Tax / Current Tax	-	-	-
Other Non-Current Liability and Provisions	2294.08	2,168.05	1,200.97
Working Capital Loans	9439.66	9,603.28	6,212.62
Current Liabilities and Provisions	8714.24	7,467.59	8,824.22
Revenue Account/Govt.Current Capital Account			
Total Liabilities	36,164.73	34,916.31	32,041.87
Others			
Less Intangible Assets	0.06	0.06	10.87
Net worth	12,811.91	11,866.07	10,934.13
Represented by			
Capital - Participating Government	5,196.20	5,196.20	5,196.20
Reserves	7615.77	6,669.93	5,748.80
Less Intangible Assets under Development	0.06	0.06	10.87
Total	12,811.91	11,866.07	10,934.13

Note : Previous years' figures have been recasted & regrouped where ever required

Statement of Audit 2022-23

The bottom of the page features several overlapping geometric shapes. On the left, there are blue shapes in various shades, some with a dotted pattern. On the right, there are yellow and orange shapes, also in various shades, creating a modern, abstract design.



AUDIT REPORT OF THE COMPTROLLER AND AUDITOR GENERAL OF INDIA ON THE ACCOUNTS OF DAMODAR VALLEY CORPORATION FOR THE YEAR ENDED 31 MARCH 2023

We have audited the attached Balance Sheet of the Damodar Valley Corporation (Corporation) as at 31 March 2023 and also the Statement of Profit & Loss for the year ended 31 March 2023 under Section 47 of the Damodar Valley Corporation Act, (DVC Act) 1948 and the Damodar Valley Corporation Rules, 1948. The preparation of these financial statements is the responsibility of the Corporation's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We have conducted our audit in accordance with the auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes, examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

Based on our audit, we report that:

- i. We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our Audit;
- ii. The Balance Sheet and Statement of Profit & Loss dealt with by this report have been drawn up in the format approved by the Government of India under Section 47 of the DVC Act, 1948 and, Damodar Valley Corporation Rules, 1948;
- iii. In our opinion, proper books of accounts and other relevant records have been maintained by the Corporation as required under DVC Act, 1948 in so far as it appears from our examination of such books;
- iv. The Corporation's Balance Sheet and the Statement of Profit & Loss dealt with by this report are in agreement with the books of accounts;
- v. In our opinion and to the best of our information and according to the explanations given to us, the said accounts, read together with the Accounting Policies and Notes thereon, and subject to our observations mentioned in the **Annexure**, give a true and fair view :
 - (a) In so far as it relates to the Balance Sheet, of the state of affairs of the Corporation as at 31 March 2023; and
 - (b) In so far as it relates to the Statement of Profit & Loss, of the profit for the year ended on that date.

(Bibhudutta Basantia)

Director General of Audit (Mines), Kolkata



Annexure to Audit Report

1. Internal Audit System

The Corporation has an Internal Audit Wing for conducting internal audit of its various departments and offices. During 2022-23, the Internal Audit was conducted in 240 out of 339 formations in accordance with annual audit plan. However, the internal audit system in core functional areas of DVC such as, fuel management, sale of electricity and recovery of debtors etc., needs to be strengthened.

2. Internal Control System

The internal control system needs to be strengthened in the following areas:

- ◀ Adjustment of various advances and reconciliation of its balances.
- ◀ Streamline the system of acceptance of Bank Guarantee (BG) from contractor/suppliers to eliminate the possibility of acceptance of forced/ fake BG.
- ◀ System of reconciliation of figures with debtors/ creditors.

3. System of Physical Verification of Fixed Assets

The System of Physical Verification of Fixed Assets conducted during the year 2022-23 was not adequate. The physical verification was carried by a Committee constituted at the plant level. There was no uniformity in preparation of the report among all the units of the Corporation. The information like location of the asset, available quantity as per EBA vis-à-vis actual verification were not available in the report.

4. System of Physical Verification of Inventories

Physical verification of Inventories (excluding coal) was conducted by a Committee constituted at the plant level. The location of the inventory of some of the items were found to be different from the location marked in Ledger of EBA. The coverage of physical verification of non-moving and slow items needs to be enhanced at Raghunathpur Thermal Power Station.

5. Adequacy of IT System

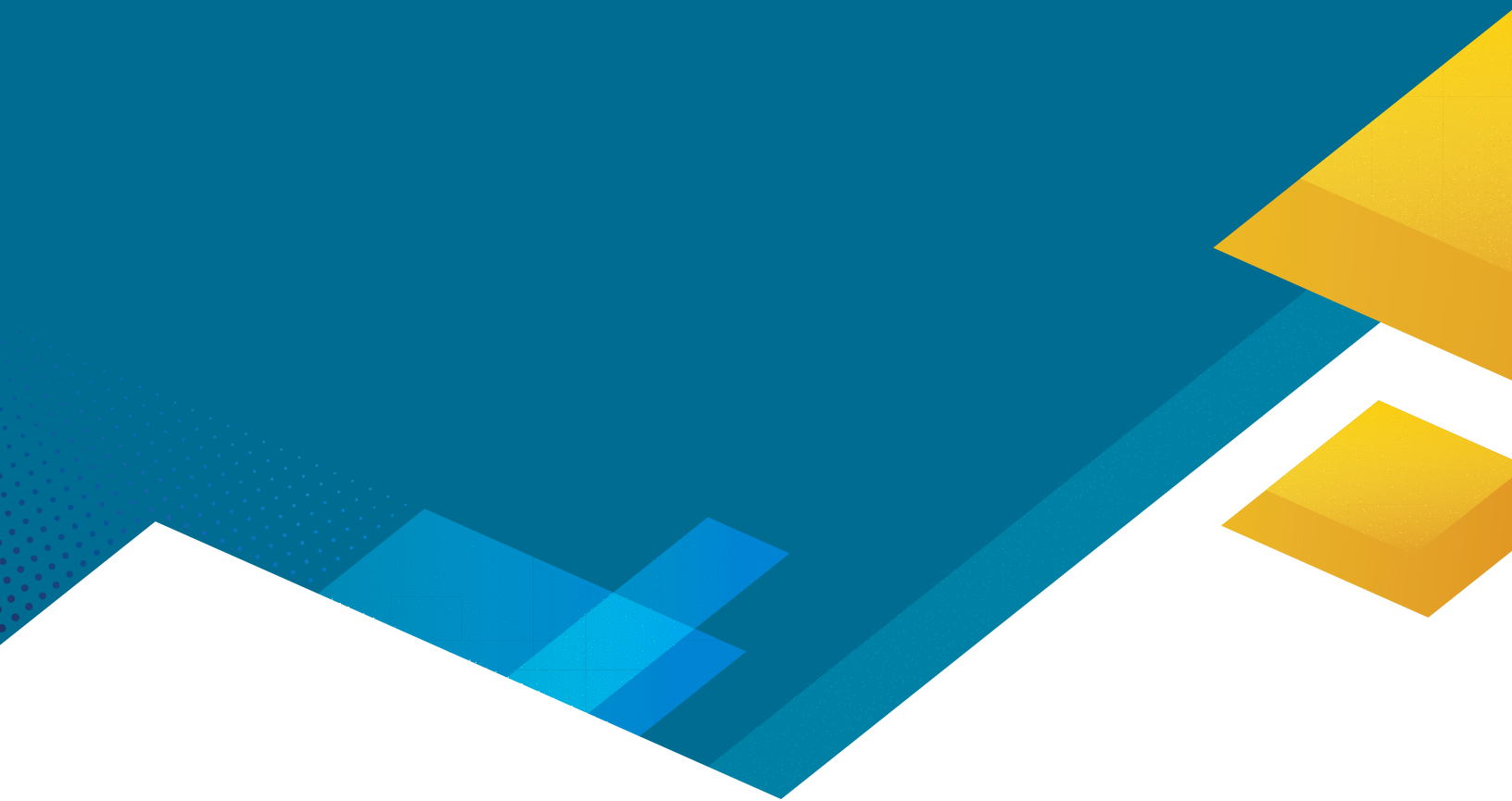
The implementation of ERP Project in the Corporation is in preliminary stage. However, it has installed and implemented a customized Enterprise Business Application (EBA) covering Plant Machinery Activity, Purchase & Stores, Finance & Accounts and Fuel Management System in different units including its corporate office.



(Bibhudutta Basantia)

Director General of Audit (Mines), Kolkata

Statement of Accounts 2022-23



Balance Sheet as at 31.03.2023

Rs. in Crore

Particulars	Note	31.03.2023					31.03.2022				
		POWER	IRRIGATION	FLOOD CONTROL	OTHER ACTIVITIES	TOTAL	POWER	IRRIGATION	FLOOD CONTROL	OTHER ACTIVITIES	TOTAL
		2	3	4	5	6	7	8	9	10	11
I EQUITY AND LIABILITIES											
(1) Government Funds											
(a) Capital	2	5,081.64	95.09	19.47	-	5,196.20	5,081.64	95.09	19.47	-	5,196.20
(b) Reserves and Surplus	3	6,244.91	1,440.40	(69.54)	-	7,615.77	5,665.69	1,059.18	(54.94)	-	6,669.93
(2) Non-Current Liabilities											
(a) Long Term Borrowings	4	15,635.72	-	-	81.03	15,716.75	15,596.07	-	-	81.32	15,677.39
(b) Deferred Tax Liabilities (Net)	5	-	-	-	-	-	-	-	-	-	-
(c) Other Long Term Liabilities	6	1,495.99	21.49	0.60	0.02	1,518.10	1,466.54	15.41	0.60	0.01	1,482.56
(d) Long Term Provisions	7	95.28	-	-	680.70	775.98	4.80	-	-	680.69	685.49
(3) Current Liabilities											
(a) Short Term Borrowings	8	9,439.66	-	-	-	9,439.66	9,603.28	-	-	-	9,603.28
(b) Trade Payables	9	2,724.52	0.03	-	35.06	2,759.61	1,421.33	0.03	-	7.47	1,428.83
(c) Other Current Liabilities	10	4,135.52	1.72	0.45	757.23	4,894.92	3,992.08	1.39	0.41	1,051.55	5,045.43
(d) Short Term Provisions	11	933.58	-	-	126.13	1,059.71	867.35	-	-	125.98	993.33
TOTAL						48,976.70					46,782.44

Balance Sheet as at 31.03.2023

Rs. in Crore

Particulars	Note	31.03.2023					31.03.2022				
		POWER	IRRIGATION	FLOOD CONTROL	OTHER ACTIVITIES	TOTAL	POWER	IRRIGATION	FLOOD CONTROL	OTHER ACTIVITIES	TOTAL
		2	3	4	5	6	7	8	9	10	11
II ASSETS											
(1) Non-Current Assets											
(a) Fixed Assets											
(i) Tangible Assets	12	17,259.98	3,646.67	400.01	-	21,306.66	18,539.96	3,646.84	400.27	-	22,587.07
(ii) Intangible Assets	12	-	-	-	0.06	0.06	-	-	-	0.06	0.06
(iii) Capital Work-in- Progress	13	5,280.04	33.53	50.95	-	5,364.52	4,419.00	32.09	48.70	-	4,499.79
(iv) Intangible Assets under Development	13	-	-	-	0.12	0.12	-	-	-	-	-
(b) Non Current Investments	14	557.28	-	-	18.40	575.68	557.23	-	-	-	557.23
(c) Long Term Loans and Advances	15	655.70	-	-	5.71	661.41	688.61	-	-	5.71	694.32
(d) Other Non Current Assets	16	-	-	-	-	-	-	-	-	-	-

Balance Sheet as at 31.03.2023

Rs. in Crore

Particulars	Note	31.03.2023					31.03.2022				
		POWER	IRRIGATION	FLOOD CONTROL	OTHER ACTIVITIES	TOTAL	POWER	IRRIGATION	FLOOD CONTROL	OTHER ACTIVITIES	TOTAL
		2	3	4	5	6	7	8	9	10	11
(2) Current Assets											
(a) Current Investments	17	238.65	-	-	-	238.65	8.35	-	-	-	8.35
(b) Inventories	18	1,710.69	-	-	-	1,710.69	1,484.56	-	-	-	1,484.56
(c) Trade Receivables	19	9,537.07	139.73	-	-	9,676.80	7,699.90	81.64	-	-	7,781.54
(d) Cash and Cash Equivalents	20	18.46	-	-	242.25	260.71	42.28	-	-	156.47	198.75
(e) Short Term Loans and Advances	21	605.81	-	-	66.07	671.88	451.36	-	-	82.58	533.94
(f) Other Current Assets	22	7,765.77	14.53	-	729.22	8,509.52	8,378.21	14.37	-	44.25	8,436.83
TOTAL						48,976.70					46,782.44

Significant Accounting Policies - 1

Arup Sarkar
Member (Finance)

R. N. Singh
Chairman

Statement of Profit & Loss for the year ended 31.03.2023

(Rs. in Crore)

Particulars	Note	31.03.2023				31.03.2022			
		POWER	IRRIGATION	FLOOD CONTROL	TOTAL	POWER	IRRIGATION	FLOOD CONTROL	TOTAL
1	2	3	4	5	6	7	8	9	10
Revenue:									
I Revenue from Operations	23	25,004.56	387.61	-	25,392.17	21,799.31	305.91	-	22,105.22
II Other Income	24	1,015.14	8.17	0.24	1,023.55	979.25	10.98	1.44	991.67
III Total Revenue (I + II)		26,019.70	395.78	0.24	26,415.72	22,778.56	316.89	1.44	23,096.89
IV Expenses:									
Cost of Power Purchased	25	1,960.83	-	-	1,960.83	1,353.07	-	-	1,353.07
Cost of Fuel	26	14,740.90	-	-	14,740.90	11,169.89	-	-	11,169.89
Employee Benefit Expenses	27	1,507.67	6.42	5.36	1,519.45	2,427.45	5.04	3.18	2,435.67
Finance Costs	28	2,311.48	1.46	0.62	2,313.56	2,340.89	1.44	0.60	2,342.93
Depreciation and Amortization Expense		2,722.66	0.24	0.23	2,723.13	2,697.19	0.38	0.32	2,697.89
Operation & Maintenance and General Administration Charges	29	2,436.71	7.88	9.02	2,453.61	1,635.75	40.39	4.41	1,680.55
Prior Period Items (Net)		-	-	-	-	-	-	-	-
Total Expenses		25,680.25	16.00	15.23	25,711.48	21,624.24	47.25	8.51	21,680.00



Statement of Profit & Loss for the year ended 31.03.2023

(Rs. in Crore)

Particulars	Note	31.03.2023				31.03.2022			
		POWER	IRRIGATION	FLOOD CONTROL	TOTAL	POWER	IRRIGATION	FLOOD CONTROL	TOTAL
1	2	3	4	5	6	7	8	9	10
V Profit/ (Loss) Before Exceptional and Extraordinary Items and Tax (III - IV)		339.45	379.78	(14.99)	704.24	1,154.32	269.64	(7.07)	1,416.89
VI Exceptional Items		-	-	-	-	782.00	-	-	782.00
VII Profit / (Loss) Before Extraordinary Items and Tax (V - VI)		339.45	379.78	(14.99)	704.24	372.32	269.64	(7.07)	634.89
VIII Extraordinary Items		-	-	-	-	-	-	-	-
IX Profit / (Loss) Before Tax (VII - VIII)		339.45	379.78	(14.99)	704.24	372.32	269.64	(7.07)	634.89
X Tax Expense:									
(1) Current Tax		-	-	-	-	-	-	-	-
(2) Deferred Tax		-	-	-	-	-	-	-	-
XI Profit (Loss) for the Period from Continuing Operations (IX - X)		339.45	379.78	(14.99)	704.24	372.32	269.64	(7.07)	634.89



Statement of Profit & Loss for the year ended 31.03.2023

(Rs. in Crore)

Particulars	Note	31.03.2023				31.03.2022			
		POWER	IRRIGATION	FLOOD CONTROL	TOTAL	POWER	IRRIGATION	FLOOD CONTROL	TOTAL
1	2	3	4	5	6	7	8	9	10
XII Profit / (Loss) from Discontinuing Operations									
XIII Tax Expense of Discontinuing Operations									
XIV Profit / (Loss) from Discontinuing Operations (After Tax) (XII - XIII)		-	-	-	-	-	-	-	-
XV Profit (Loss) for the Period (XI + XIV)		339.45	379.78	(14.99)	704.24	372.32	269.64	(7.07)	634.89
XVI Sinking Fund and Debenture Redemption Reserve Fund		308.82	-	-	308.82	308.82	-	-	308.82
XVII General Reserve		16.85	-	-	16.85	34.92	-	-	34.92
XVIII Capital Reserve		-	-	-	-	-	-	-	-
XIX Sub Total (XVI + XVII + XVIII)		325.67	-	-	325.67	343.74	-	-	343.74

Statement of Profit & Loss for the year ended 31.03.2023

(Rs. in Crore)

Particulars	Note	31.03.2023				31.03.2022			
		POWER	IRRIGATION	FLOOD CONTROL	TOTAL	POWER	IRRIGATION	FLOOD CONTROL	TOTAL
1	2	3	4	5	6	7	8	9	10
XX Allocation to Central Government		4.59	-	-	4.59	9.53	-		9.53
XXI Allocation to West Bengal Government		4.59	378.70	(14.99)	368.30	9.53	268.86	(7.07)	271.32
XXII Allocation to Bihar Government		4.59	1.08	-	5.67	9.53	0.78	-	10.31
XXIII Sub Total (XX + XXI + XXII)		13.78	379.78	(14.99)	378.57	28.59	269.64	(7.07)	291.16
XXIV Total (XIX + XXIII)		339.45	379.78	(14.99)	704.24	372.32	269.64	(7.07)	634.89

Arup Sarkar
Member (Finance)

R. N. Singh
Chairman

Cash Flow Statement for the year ended 31.03.2023

(Rs. in Crore)

	31.03.2023		31.03.2022	
A. Cash Flow from Operating Activities				
Net Profit before tax, adjustments and extra ordinary items		704.24		634.89
Adjustments for :				
Depreciation / Amortisation		2,723.13		2,697.89
Interest and Other Finance Charges		2,313.56		2,342.93
Interest Income		(13.64)		(3.78)
Income from Dividend		(236.57)		(19.90)
Profit on sale of Fixed assets		(19.33)	4,767.15	(34.22)
Operating Profit before Working Capital Changes		5,471.39		5,617.81
Adjustments for : (Increase) / Decrease in Current Assets				
Trade and Other Receivables		(2,073.65)		(32.18)
Inventories		(225.70)		205.02
Loans and Advances		424.17		(275.89)
Other Current Assets		(1,451.16)	(3,326.34)	(3,936.08)
Adjustments for : Increase / (Decrease) in Current Liabilities				
Trade Payable		1,836.70		(2,598.73)
Short term Provisions		519.93		927.97
Long term Provisions		90.49		592.60
Other Current Liabilities		(157.36)	2,289.76	485.09
Cash generated from operations		4,434.81		985.61
Direct Taxes		36.52		(50.58)
Interest on Income Tax Refund		(1.06)		(0.40)
Net Cash from Operating Activity - A		4,399.35		1,036.59
B. Cash Flow from Investing Activities				
Purchase of Fixed Assets		(2,292.97)		(2,198.43)
Sale of Fixed Assets		36.62		44.36

Cash Flow Statement for the year ended 31.03.2023

(Rs. in Crore)

	31.03.2023	31.03.2022
Purchase of investments	(248.75)	(4.94)
Sale of investments	-	1.08
Interest Received	12.58	3.38
Dividend Received	236.57	19.90
Net cash used in Investing Activities - B	(2,255.95)	(2,134.62)
C. Cash Flow from Financing Activities		
Drawal of Long Term Loan	1,130.64	910.53
Repayment of Long Term Loan	(1,028.56)	(937.15)
Increase (Decrease) in Short Term Loan and Cash credit	(163.62)	3,390.66
Interest Paid & Other Finance Charges	(2,019.90)	(2,178.16)
Net Cash flow from Financing Activities - C	(2,081.44)	1,185.88
Net increase / (decrease) in cash and cash equivalents (A + B + C)	61.96	87.85
Cash and cash equivalents at the beginning of the period [Note (a) below]	198.75	110.90
Cash and cash equivalents at the end of the period [Note (a) below]	260.71	198.75
Note:-		
a) Cash and cash equivalents included in Cash Flow Statement is same as per Note-20	260.71	198.75
Bank Deposits with more than three months Maturity	Nil	Nil
Total	260.71	198.75

b) The above balance does not include any amount which is not available for use

c) Previous Year figure has been re-arranged/re-grouped wherever considered necessary



Arup Sarkar
Member (Finance)



R. N. Singh
Chairman



Notes to the financial statements for the year ended 31st March 2023

1. Significant Accounting Policies

1 Method of Accounting

The financial statements are prepared on accrual basis of accounting under historical cost convention in accordance with generally accepted accounting principle in India except revaluation of fixed assets and the relevant provision of the DVC Act, 1948 except revaluation of fixed assets.

2 Use of Estimates

The preparation of financial statement requires estimates & assumptions that affect the reported amount of assets, liabilities, revenue & expenses during the reporting period. Although such estimates & assumptions are made on a reasonable and prudent basis taking into account all available information, actual results could differ from these estimates & assumptions and such differences are recognized in the period in which the results are crystallised.

3 General Reserve

On the basis of approval of the Comptroller and Auditor General, the power surplus is apportioned as follows:-

- a) Allotment to Sinking Fund as a first charge
- b) General Reserve- 55% after adjustment of (a) above.
- c) Participating Governments as divisible surplus 45% after adjustment of (a) above.

4 Sinking Fund

4.1 Bond issued up to 31st March, 2012

Sinking fund is created for redemption of bonds, with the proportionate annuity contribution every year. The corporation pays interest @ 7% p.a. on the balance amount of the fund as the amount is utilized by the corporation.

4.2 Bonds issued from 1st April, 2012

Sinking Fund is created for redemption of bonds, with the proportionate annuity contribution every year. The amount will be kept in a separate fund account to be managed and governed through Escrow Mechanism. Interest on investment on such fund will be credited to the Sinking Fund Account on annual basis.

After the repayment of the bond on maturity an equivalent amount will be transferred to General Reserve in both the cases.

5 Fixed Assets

- 5.1 Fixed assets are shown at Historical cost of acquisition.
- 5.2 Where fixed assets have been revalued, the assets are shown at revalued cost.



Notes to the financial statements for the year ended 31st March 2023

1. Significant Accounting Policies

- 5.3 Capital expenditure on assets are booked in Capital work in progress till the period of completion or put to use and thereafter in fixed assets.
- 5.4 Assets and systems common to more than one generating units are capitalized on the basis of engineering assessment.
- 5.5 Deposits, payments/liabilities made provisionally towards compensation, rehabilitation and other expenses relating to land in possession are treated as cost of land.

6 Construction Work- in- Progress

- 6.1 Projects under commissioning and other capital work-in-progress are carried at cost.
- 6.2 In respect of projects under construction, incidental and attributable expenses (net of income) including interest & depreciation on fixed assets in use during construction are carried as part of incidental expenditure during Construction to be allocated on major immovable Project Assets other than Land on a rational basis, on commissioning of the Project.
- 6.3 Expenditure in relation to Survey and Investigation of the Projects is carried as capital work in progress. Such expenditure is capitalized as cost of the project. The expenditure incurred on start-up and commissioning of the project, including the expenditure incurred on test runs and experimental production is usually capitalized as an indirect element of the construction cost.
- 6.4 In respect of supply-cum-erection contracts, the value of supplies received at site and accepted is treated as capital work-in-progress.
- 6.5 Administration and general overhead expenses attributable to construction of fixed assets incurred till they are ready for their intended use are identified and allocated on a systematic basis to the cost of related assets.
- 6.6 Deposit works/cost plus contracts are accounted for on the basis of statements of account received from the contractors.
- 6.7 Power consumed by the Construction Projects are charged at cost.

7 Intangible Assets

Intangible assets are recognized only if it is probable that future economic benefits that are attributable to the assets will flow to the Corporation and the cost of the assets can be measured reliably and such assets are shown at cost.

8 Investments

- 8.1 Long term investments are carried at cost. When there is decline, other than temporary, in the cost of a long term investment, the carrying amount is reduced to recognised the decline.



Notes to the financial statements for the year ended 31st March 2023

1. Significant Accounting Policies

9 Inventories

- 9.1 Inventories other than coal and oil are valued at lower of weighted average cost or net realisable value.
9.2 Inventories of coal and oil are valued at weighted average cost basis including freight.

10 Grant-in-Aid

- 10.1 Grants from Government and other agencies towards revenue expenditure are recognized over the period in which the related costs are incurred and are deducted from the related expenses.
10.2 Grants related to procurement of capital assets are shown as a deduction from the gross value of assets concerned in the book value of assets.

11 Borrowing Cost

- 11.1 Interest payment on loan is charged to Statement of Profit & Loss on accrual basis.
11.2 In respect of project specific loan, payment of interest charges before commissioning of the Projects is capitalized and interest paid after Date of Commissioning is charged to Statement of Profit & Loss.

12 Foreign Currency

Foreign Currency Transactions are initially recorded at the Exchange Rate ruling on the date of transaction. Foreign currency loans are reported with reference to the exchange rates ruling at the year end and the difference resulting in such transaction as well as due to payment/discharge of liabilities in foreign currency related to Fixed Assets/Work-in-Progress is adjusted in their carrying cost and that related to Current Assets is recognized as Revenue/Expenditure during the year.

13 Revenue Recognition

- 13.1 Sale of power is accounted for based on tariff rates approved by the Central Electricity Regulatory Commission (CERC) as modified by the orders of Appellate Tribunal for Electricity to the extent applicable. In case of power stations where the tariff rates are yet to be approved, provisional rates are adopted.
13.2 Revenue from water charges and other charges are accounted for on the basis of billing to consumers and includes unbilled revenue accrued up to the end of the accounting year.
13.3 The surcharge on late payment/ overdue sundry debtors for sale of energy is recognized when no significant uncertainty as to measurability or collectability exists.
13.4 Interest income is recognised on accrual basis.
13.5 Power generated by the new projects before commissioning are charged at weighted average sale price prevailing at the time of generation and adjusted against the project cost



Notes to the financial statements for the year ended 31st March 2023

1. Significant Accounting Policies

- 13.6 Scrap other than steel scrap is accounted for as and when sold.
- 13.7 Insurance claims for loss of profit are accounted for in the year of acceptance. Other insurance claims are accounted for based on certainty of realization.

14 Expenditure

- 14.1 Depreciation is charged on straight line method with 10 % residual value as approved by the GOI Gazette Notification No. S.O.No.266E dated 29th March 1994 & S.O.265E dated 27th March 1994 on the historical cost of the assets.
- 14.2 Depreciation on revalued assets provided based on straight line method on the values and at the rates given by the valuer. The difference between depreciation provided based on revalued amount and that on historical cost is charged to the Revaluation Reserve Account.
- 14.3 Depreciation on fixed assets is charged in the revenue account on pro-rate basis from/up to the month in which the assets is available for use/ disposal/discarded/demolished. However, disclosure in the Accounts of the Corporation will be made, if the net surplus or deficiency of any depreciable assets disposed off discarded, demolished or destroyed, is material
- 14.4 Depreciation on assets purchased during the year costing less than Rs.5000/- shall be fully depreciated during the year with Re.1/- as a balance value.
- 14.5 Miscellaneous expenditure having medium term benefit for sustenance of operations are amortised over a period of five years.
- 14.6 Lump sum compensation paid, on compassionate ground in lieu of employment are amortised over a period of five years.
- 14.7 Cost of software recognized as intangible asset, is amortised over a period of legal right to use or 3 years which ever is less.
- 14.8 In case of existing projects commissioned earlier, carpet coal is charged off coal consumption. In case of new projects under construction carpet coal is retained in inventories and capitalised in the first year of commercial operation.

15 Employee Benefits

15.1 Defined contribution plan:

Provident Fund: Corporation's contributions paid/payable during the year to provident fund is recognized in the statement of Profit & Loss. The fund is invested in Government Securities and managed by the Corporation. Corporation has an obligation to pay a minimum rate of return to the members as specified by GOI

New Pension Scheme: Corporation is required to contribute towards payment of pension in respect of employee who have joined on after 1st January 2004. Monthly contribution are deposited to Pension Fund Regulatory & Development Authority (PFRDA).



Notes to the financial statements for the year ended 31st March 2023

1. Significant Accounting Policies

- 15.2 Defined benefit plan: Corporation's liability towards pension & gratuity are determined by the independent actuaries at the year end. Liability of gratuity as per actuarial valuation is paid to a fund administered through a separate Trust. On superannuation, Corporation makes payment to employees in respect of pension, gratuity are booked as recoverable. DVC Pension & Gratuity Trust reimburses the amount subsequently.
- 15.3 Short term employee benefits: Leave Travel Assistance, Re- imbursement of medical expenses and post retirement medical facilities are recognized as an expense at the undiscounted amount in the statement of Profit & Loss in the year in which they are paid.

16 Diverted In/ Out Wagons

- 16.1 For Diverted-out/Missing wagons 'Railway Claim Account will be debited with the cost of coal and freight attributable to the wagons. In case missing wagons are received subsequently, Railway Claim Account shall be credited. Missing wagons for a period of more than three years will be provided for.
- 16.2 For Diverted-in wagons, the credit will be given to Railway Claim Account with the amount of coal cost & freight attributable to these wagons and no payment will be made.

17 Impairment

- 17.1 The carrying amount of cash generating units is reviewed at each balance sheet date where is any indication of impairment based on internal/external indicators. An impairment loss is recognized in the statement of Profit & Loss where the carrying amount exceeds the recoverable amount and such loss either no longer exists or has decreased.

18 Provisions and Contingent Liabilities

- 18.1 A provision is recognized when the company has a present obligation as a result of a past event and it is probable that an outflow of resources will be required to settle the obligation and in respect of which a reliable estimate can be made. Provisions are determined based on management estimate required to settle the obligation at the balance sheet date and are not discounted to present value. Contingent Liabilities are disclosed on the basis of judgment of the management/independent experts. These are reviewed at each Balance Sheet date and are adjusted to reflect the current management estimate.
- 18.2 Provision is made for other doubtful debts on case to case basis. Debt declared as bad will be written off subject to approval of appropriate authority.
- 18.3 In case of dues for supply of water for industrial & domestic purpose, provisions are made for dues outstanding for more than three years.



2. Capital

Rs. in Crore

As at	31.03.2023				31.03.2022			
Particulars	Power	Irrigation	Flood Control	Total	Power	Irrigation	Flood Control	Total
Central Govt.								
Opening Balance	1,813.67	-	7.00	1,820.67	1,813.67	-	7.00	1,820.67
Add Transfer From Revenue A/c				-				-
Sub Total	1,813.67	-	7.00	1,820.67	1,813.67	-	7.00	1,820.67
West Bengal Govt.								
Opening Balance	1,486.69	94.82	12.47	1,593.98	1,486.69	94.82	12.47	1,593.98
Add Transfer From Revenue A/c / Adjutment during the year	-	-	-	-	-	-	-	-
Sub Total	1,486.69	94.82	12.47	1,593.98	1,486.69	94.82	12.47	1,593.98
Bihar Govt.								
Opening Balance	1,781.28	0.27	-	1,781.55	1,781.28	0.27	-	1,781.55
Add Transfer From Revenue A/c				-				-
Sub Total	1,781.28	0.27	-	1,781.55	1,781.28	0.27	-	1,781.55
Total	5,081.64	95.09	19.47	5,196.20	5,081.64	95.09	19.47	5,196.20





2. Capital

Notes

1. As per DVC Act 1948 (DVC Act), Capital requirement of the Damodar Valley Corporation (Corporation) is to be provided by the participating member Governments. The Capital provided upto 1968-69 amounted to Rs. 214.72 Crores. Thereafter, no capital was provided by the participating member Governments by way of direct contribution, but capital growth has been taken place by plough back of share of profit of these Governments with credit to their respective Capital Account.
2. With the amendment of DVC Act, 1948 by Parliament in 2011, as published in Gazette of India on 9th January 2012, DVC Board has been restructured and will be represented by ten members consisting of Chairman, Member (Technical), Member (Finance), Member (Secretary), one representative each from Central Govt., West Bengal and Jharkhand Government and three independent experts from the field of Irrigation, water supply and generation or transmission or distribution of electricity.
3. DVC Board approve the transfer of plough back profit and retained interest to the respective Capital Accounts of the three Governments. The Annual Reports are also sent for approval of the respective State and Central Legislature through the respective Participating Member Governments.
4. Corporation has sought for necessary decision in terms of the Bihar Re-organisation Act, from Government of India for reallocation of capital account of the erstwhile Bihar Government, which is still awaited.



3. Reserves & Surplus

(Rs. in Crore)

As at Particulars	31.03.2023				31.03.2022			
	Power	Irrigation	Flood Control	Total	Power	Irrigation	Flood Control	Total
Reserves								
Capital Reserve								
Sub Total	-	-	-	-	-	-	-	-
Revaluation Reserve								
As per Last Balance Sheet	5,127.31	-	-	5,127.31	5,127.31	-	-	5,127.31
Less: Transfer to Depriciation Reserve during the Year				-				-
Sub Total	5,127.31	-	-	5,127.31	5,127.31	-	-	5,127.31
Sinking Fund Reserve								
As per Last Balance Sheet	4,055.86	-	-	4,055.86	3,501.91	-	-	3,501.91
Add: Interest Credited	283.91	-	-	283.91	245.13	-	-	245.13
Add: Transfer from Surplus	308.82	-	-	308.82	308.82	-	-	308.82
Sub Total	4,648.59	-	-	4,648.59	4,055.86	-	-	4,055.86



3. Reserves & Surplus

(Rs. in Crore)

As at	31.03.2023				31.03.2022			
Particulars	Power	Irrigation	Flood Control	Total	Power	Irrigation	Flood Control	Total
Ash Utilization Reserve								
As per Last Balance Sheet:	120.48	-	-	120.48	88.41	-	-	88.41
Add: Addition During The Year:	33.14	-	-	33.14	41.40	-	-	41.40
Less: Utilization During the Year	84.47	-	-	84.47	9.33	-	-	9.33
Sub Total	69.15	-	-	69.15	120.48	-	-	120.48
General Reserve								
As per Last Balance Sheet	2,972.92	-	-	2,972.92	2,938.00	-	-	2,938.00
Add: Transfer from Surplus	16.85	-	-	16.85	34.92	-	-	34.92
Sub Total	2,989.77	-	-	2,989.77	2,972.92	-	-	2,972.92
Surplus (Govt. Current Capital Account)								
As per Last Balance Sheet:								
Central Govt.	(2,334.87)	-	-	(2,334.87)	(2,346.86)	-	-	(2,346.86)
West Bengal Govt.	(1,921.66)	1,056.87	(54.95)	(919.74)	(1,933.67)	786.58	(48.27)	(1,195.36)
Bihar Govt.	(2,354.35)	2.31	0.01	(2,352.03)	(2,366.13)	1.52	0.01	(2,364.60)
Sub Total	(6,610.88)	1,059.18	(54.94)	(5,606.64)	(6,646.66)	788.10	(48.26)	(5,906.82)

3. Reserves & Surplus

(Rs. in Crore)

As at Particulars	31.03.2023				31.03.2022			
	Power	Irrigation	Flood Control	Total	Power	Irrigation	Flood Control	Total
Adjustment during the Year								
Central Govt.	2.46	-	-	2.46	2.46	-	-	2.46
West Bengal Govt.	2.48	1.43	0.39	4.30	2.48	1.43	0.39	4.30
Bihar Govt.	2.25	0.01	-	2.26	2.25	0.01	-	2.26
Sub Total	7.19	1.44	0.39	9.02	7.19	1.44	0.39	9.02
Appropriation of Net Profit/ Loss (as per Statement of Profit & Loss) for the year								
Central Govt.	4.59	-	-	4.59	9.53	-	-	9.53
West Bengal Govt.	4.59	378.70	(14.99)	368.30	9.53	268.86	(7.07)	271.32
Bihar Govt.	4.59	1.08	-	5.67	9.53	0.78	-	10.31
Sub Total	13.78	379.78	(14.99)	378.57	28.59	269.64	(7.07)	291.16
Closing Balance								
Central Govt	(2,327.81)	-	-	(2,327.81)	(2,334.87)	-	-	(2,334.87)
West Bengal Govt.	(1,914.62)	1,437.01	(69.53)	(547.14)	(1,921.66)	1,056.87	(54.95)	(919.74)
Bihar Govt.	(2,347.49)	3.37	-	(2,344.10)	(2,354.35)	2.31	0.01	(2,352.03)
Sub Total	(6,589.92)	1,440.38	(69.53)	(5,219.07)	(6,610.88)	1,059.18	(54.94)	(5,606.64)
Total	6,244.91	1,440.40	(69.54)	7,615.77	5,665.69	1,059.18	(124.48)	6,669.93



3. Reserves & Surplus

1. Appropriation of Profit/ Adjustment of Loss

1.1 As prescribed by C&AG in terms of provisions of Section 40 of the DVC Act , Sinking Fund has a first charge towards available profit of Power for the year. 55% of the Power Surplus available after appropriation towards sinking fund is transferred to General Reserve. Balance 45% is considered as distributable surplus divided equally among the three participating Governments viz- Central Government, West Bengal Government and Bihar Government. In case of deficit on power the same is divided equally among the participating Governments for reimbursement /adjustment in terms of Sec 37(2) of the DVC Act.

1.2 In case of Government of India, 1/3 share of available surplus in power business after appropriation of Sinking Fund and General Reserve, if any, Interest on Capital are considered as ploughed back fund and transferred to the respective Capital Account in the following year with approval of the Corporation. As per DVC Act, net deficit on power shall be made good by the government concerned in proportion to their respective shares in total capital cost attributed to the power object. However, in absence of any fund contributed by the participating Govts. the net revenue deficit on power object is adjusted from share of their dues credited to the participating Govts. either in the same accounting year and / or in future years. In the event of receipt of revenue deficit fund from participating Govts. in subsequent years, the same will be ploughed back in the respective Capital Account of the Govts.

1.3 In case of Government of West Bengal, share of surplus/deficit on irrigation object, entire deficit on flood control object is adjusted against interest on capital and balance if any is adjusted against Share of Power Surplus/ Deficit. The Net balance available thereafter is considered as Ploughed Back Fund and transferred to the respective Capital Account in the following year with approval of the Corporation. The net deficit on power shall be made good by the government concerned in proportion to their respective shares in total capital cost attributed to the power object.

1.4. In case of Government of Bihar, share of surplus/deficit on irrigation object is adjusted against interest accrued on capital provided by them. Balance Interest amount available after adjustment of above along with 1/3 share of distributable power surplus taken together is considered as ploughed back fund in respect of Government of Bihar and transferred to the respective Capital Account in the following year with approval of the Corporation. The net deficit on power shall be made good by the government concerned in proportion to their respective shares in total capital cost attributed to the power object.

2. Sinking Fund & Debenture Redemption Reserve

Opening Balance as on 1st April, 2022 was Rs. 4055.86 crore (previous year Rs. 3501.91 crore) During the year an amount of Rs. 283.91 crore (previous year Rs.245.13 crore) was credited on account of interest @ 7% p.a. During the year an amount of Rs. 308.82 crore (previous year Rs. 308.82 crore), has been contributed from P&L account to Sinking Fund Account. The fund is fully utilised by the Corporation instead of depositing the same in separate fund account to be managed and governed through Escrow Mechanism.

3. Ash Utilization Reserve

The balance of Ash Utilization Reserve of Rs.69.15 crore (P.Y. 2021-22 Rs. 120.48 crore) as on 31.03.2023 is on account of unspent balance of sale proceeds from Dry fly ash. Utilization for Rs.84.47 crore was made during the year.



4. Long Term Borrowings

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total
Long term Borrowings														
Bond														
Secured Bond														
9.30% GoI Guaranteed Secured redeemable non-convertible non-cumulative taxable bonds in the nature of debenture (Series-14A and 14B) of Rs 10,00,000/- each aggregating to Rs 4400 Cr. (private placement basis). Redeemable 30% on 30th March 2025, 30% on 30th March 2026 and 40% on 30th March 2027.	4,400.00	-	-	-	-	-	4,400.00	4,400.00	-	-	-	-	-	4,400.00
Unsecured Bond														
8.69% GoI Guaranteed Unsecured redeemable non-convertible non-cumulative taxable bonds in the nature of debenture (Series-15) of Rs 10,00,000/- each for Cash at Par aggregating to Rs. 2600 Cr. (private placement basis). Redeemable 30% on 30th March 2026, 30% on 30th March 2027 and 40% on 30th March 2028.	2,600.00	-	-	-	-	-	2,600.00	2,600.00	-	-	-	-	-	2,600.00





4. Long Term Borrowings

(Rs. in Crore)

As at Particulars	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Term Loans from Banks (Rupee Loan)														
Secured	4,896.27	-	-	-	-	-	4,896.27	4,599.68	-	-	-	-	-	4,599.68
Term Loans from Financial Institutions														
Secured	4,799.30	-	-	-	-	-	4,799.30	4,993.80	-	-	-	-	-	4,993.80
Loan from GOI														
Unsecured	-	-	-	1.17	80.15	-	81.32	-	-	-	1.46	80.15	-	81.61
Total Long Term Borrowings	16,695.57	-	-	1.17	80.15	-	16,776.89	16,593.48	-	-	1.46	80.15	-	16,675.09
Less : Current Maturity of Long term Loan - taken in Note 10	1,059.85			0.29			1,060.14	997.41			0.29			997.70
Net Long Term Borrowing - (Non Current)	15,635.72	-	-	0.88	80.15	-	15,716.75	15,596.07	-	-	1.17	80.15	-	15,677.39

4. Long term Borrowings

(Rs. in Crore)

As at	As at 31.03.2023		As at 31.03.2022	
	Non Current	Current	Non Current	Current
A. Details of Secured Loan (Long term)				
Bonds				
1) 9.30% GoI Guaranteed Bonds (Series 14A & 14B) secured non cumulative non convertible redeemable taxable Bonds of Rs 10,00,000/- each redeemable at par in March'2025 (30%), March 2026 (30%) and March 2027 (40%) (Private Placement). The Bonds are secured by way of hypothecation of Fixed Assets of the Thermal Power Projects (excluding land) of the Corporation namely MTPS (Unit no 5&6), CTPS (Unit no 7&8), KTPS (Unit no 1&2) and DSTPS (Unit no 1&2), ranking Pari Passu among the lenders.	4,400.00		4,400.00	
Term Loans from Banks/ FI's				
2) Project Loan for Raghunathpur Thermal Power Station, Phase-I (Unit no 1&2), Secured by way of Hypothecation of present and future fixed and movable assets of Raghunathpur TPS Phase-I, (Unit no 1&2) as first charge, ranking pari Passu among the lenders (PFC and West Bengal Infrastructure Development Finance Corporation Ltd - PFC Loan has been substituted by Loan from Bank of Baroda).	772.61	237.73	1,041.14	278.53
3) Additional term loan from WBIDFCL for construction of Railway Track, Water System, Township etc. for Raghunathpur Thermal Power Station. Secured by pari-passu charge on plant & machinery, machinery spares, tool & accessories and other assets of RTPS.	287.16	50.00	337.50	50.00
4) Project Loan from PFC for Durgapur Steel TPS (Unit no 1&2), Secured by way of Hypothecation of present and future Fixed and movable Assets of DSTPS (Unit no 1&2). (PFC loan has been refinanced by loan from Bank of India). (Refinancing of PFC loan).	1,438.32	155.49	1,593.81	155.49
5) Project Loan for T&D Projects of DVC secured by way of hypothecation of present and future fixed and movable assets of T&D Projects of DVC. Sole lender is REC. REC loan has been refinanced by Punjab and Sind Bank. (Refinancing of REC loan).	381.82	52.66	434.48	52.66

4. Long term Borrowings

(Rs. in Crore)

As at	As at 31.03.2023		As at 31.03.2022	
	Non Current	Current	Non Current	Current
6) Project Loan for BTPS A taken from REC, Secured by way of Hypothecation of present and future fixed and movable Assets of BTPS A as first charge.	1,751.53	155.69	1,907.22	155.69
7) Project Loan from PFC for KTPS, secured by way of hypothecation of present and future assets of KTPS.	1,164.36	113.60	1,277.96	113.60
8) Project Loan from PFC for KTPS for financing the enhanced project cost, secured by way of hypothecation of present and future assets of KTPS.	903.87	88.18	992.05	88.18
9) Syndicated Loan for FGD Plants at 500 MW & above power plants - viz. MTPS 7-8, KTPS, DSTPS, RTPS & BTPS - A, taken by hypothecation of FGD plants & pari-passu charge on the assets of the plants.	1,419.79	206.50	945.00	103.25
10) Term Loan for Tubed Coal Block from Bank of India - secured by assignment of coal mining rights, first pari-passu charge on movable fixed assets of CTPS.	231.35	-	66.91	-
11) Project Loan for T&D and R&A Infrastructure Projects of DVC taken on hypothecation of all movable assets of the project to PFC Ltd.	73.35	-		
12) Project Loan for FGD less than 500 MW Plants in MTPS, DVC- secured by hypothecation of FGD Plants to PFC Ltd.	211.56			
Total (Secured Loan) (A)	13,035.72	1,059.85	12,996.07	997.41



4. Long term Borrowings

(Rs. in Crore)

As at	As at 31.03.2023		As at 31.03.2022	
	Non Current	Current	Non Current	Current
B. Details of Unsecured Loans (Long-Term)				
GOI Loan for DRIP	80.15	-	80.15	-
RVP Loan from GOI	0.88	0.29	1.17	0.29
Unsecured Bonds	-	-	-	-
8.69% Bonds Guaranteed by GOI	2,600.00	-	2,600.00	-
Total (Unsecured Loan) (B)	2,681.03	0.29	2,681.32	0.29
Grand Total (A+B)	15,716.75	1,060.14	15,677.39	997.70

Notes

- i) Secured long term rupee loans carry fixed/ floating rate of interest ranging from 5.75% p.a to 8.95% p.a with monthly/ quarterly/ half yearly rates. These loans are repayable in monthly/quarterly/annual installments as per the respective loan agreements. The repayment period extends from ten to eighteen years after a moratorium period upto two years.
- ii) Unsecured rupee loan from GOI under RVP scheme carry fixed rate of interest of 9% p.a. with monthly rates. Repayable in Annual instalments for 20 years.



5. Deferred Tax Liabilities

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total
Deferred Tax Liabilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Add Deferred Tax Liabilities	444.30	-	-	-	-	-	444.30	582.06	-	-	-	-	-	582.06
Less Deferred Tax Assets	444.30	-	-	-	-	-	444.30	582.06	-	-	-	-	-	582.06
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note:

Deferred Tax Assets on Unabsorbed Depreciation has been considered partly to the extent of Deferred Tax Liability arising on account of Timing Difference of Depreciation.

6. Other Long Term Liabilities

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total
Security Deposit & Retention (Non current)	1,223.30	20.05	-	-	0.02	-	1,243.37	1,060.74	13.97	-	-	0.01	-	1,074.72
Interest Payable to Participating Govt	6.98	1.44	0.60	-	-	-	9.02	6.98	1.44	0.60	-	-	-	9.02
Govt Grant PSDF for Acquiring Fixed Assets	131.20	-	-	-	-	-	131.20	129.30	-	-	-	-	-	129.30
Payable for Capital Expenditures (Non Current)	134.51	-	-	-	-	-	134.51	269.52	-	-	-	-	-	269.52
Total	1,495.99	21.49	0.60	-	0.02	-	1,518.10	1,466.54	15.41	0.60	-	0.01	-	1,482.56

Note

Interest on Capital : In terms of Section 38 of the DVC Act, the Corporation shall pay interest on the amount of Capital provided by the Participating Governments at such rate as may, from time to time, be fixed by the Central Government and such interest shall be deemed to be part of the expenditure of the Corporation. Accordingly, DVC has considered interest as a statutory expenditure during 2022-23 at the Rate of 5.75% p.a., as last rate fixed by the Central Government, on the Capital provided by the Participating Governments after adjustment of accumulated losses.

7. Long Term Provisions

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total
Long-term Provisions - Others	95.28	-	-	-	-	-	95.28	4.80	-	-	-	-	-	4.80
Provision for Post Retirement Medical Benefit	-	-	-	-	-	391.00	391.00	-	-	-	-	-	391.00	391.00
Provision for Leave Encashment	-	-	-	-	-	289.70	289.70	-	-	-	-	-	289.69	289.69
Add: Liabilities for Current Year	-	-	-	-	-	73.69	73.69	-	-	-	-	-	68.89	68.89
Less: Benefits Paid	-	-	-	-	-	73.69	73.69	-	-	-	-	-	68.89	68.89
Closing Balance	95.28	-	-	-	-	680.70	775.98	4.80	-	-	-	-	680.69	685.49

8. Short Term Borrowings

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi purpose Dams	Over head Activities	Total
Bank(Cash Credit)	3,589.66	-	-	-	-	-	3,589.66	3,703.28	-	-	-	-	-	3,703.28
Line of Credit (Short Term Bank Borrowings)	5,850.00	-	-	-	-	-	5,850.00	5,900.00	-	-	-	-	-	5,900.00
Total	9,439.66	-	-	-	-	-	9,439.66	9,603.28	-	-	-	-	-	9,603.28

Short Term Bank Borrowing (Cash Credit):

Short term bank borrowing (Cash Credit) of Rs. 3589.66 crore (previous year was Rs.3703.28 crore) for working capital, Secured against Hypothecation of Stock of Raw material, Consumable stores and Book Debts of O&M Projects of the Corporation as first charge, both present and future.

Short Term Bank Borrowing (Line of Credit):

Short term Line of Credit of Rs.5850 crore for financing overdues of Power Consumer (previous year was Rs.5900 crore), includes Union Bank of India Rs.1100 crore, Bank of India Rs. 1800 crore, SBI Rs.400 crore, PNB Rs.450 Crore, PFC Rs.800 crore and Indus Ind Bank Rs. 400 crore is secured against subservient charge on residual value of Fixed Asset and unsecured line of credit from HDFC Bank Rs. 900 crore. Interest rate varies from 4.00% to 7.00% p.a. repayable within three months to one year.



9. Trade Payable

(Rs. in Crore)

As at Particulars	31.03.2023							31.03.2022						
	Power	Irriga- tion	Flood Control	Sub- sidiary Activities	Multipur- pose Dams	Over head Ac- tivities	Total	Power	Irriga- tion	Flood Con- trol	Sub- sidiary Activities	Multipur- pose Dams	Over head Ac- tivities	Total
Fuel	6,806.30	-	-	-	-	-	6,806.30	5,256.19	-	-	-	-	-	5,256.19
Less : Receiva- ble from Railway for missing wagon ad- justed to the extent of Liability of Uncon- nected Coal - Payable to Railway (adjusted in note 22)	2,817.59	-	-	-	-	-	2,817.59	1,547.70	-	-	-	-	-	1,547.70
Less : Advance to Coal Suppliers adjusted in note 21	2,061.86	-	-	-	-	-	2,061.86	2,825.82	-	-	-	-	-	2,825.82
Sub Total	1,926.85	-	-	-	-	-	1,926.85	882.67	-	-	-	-	-	882.67
Purchase of Power & UI	336.89	-	-	-	-	-	336.89	162.27	-	-	-	-	-	162.27
Works Contracts	11.09	0.03	-	-	0.27	0.45	11.84	10.52	0.03	-	0.02	0.19	0.41	11.17
Consum- ables Supply & Others Misc	449.69	-	-	0.26	3.23	30.85	484.03	365.87	-	-	0.25	0.99	5.61	372.72
Total	2,724.52	0.03	-	0.26	3.50	31.30	2,759.61	1,424.33	0.03	-	0.27	1.18	6.02	1,428.83



10. Other Current Liabilities

(Rs. in Crore)

As at Particulars	31.03.2023							31.03.2022						
	Power	Irriga- tion	Flood Con- trol	Subsidi- ary Activ- ities	Multipur- pose Dams	Over head Activi- ties	Total	Power	Irriga- tion	Flood Con- trol	Subsidi- ary Activ- ities	Multi- purpose Dams	Over head Activi- ties	Total
Interest Accrued but not due on borrowing	21.50	-	-	-	-	0.06	21.56	17.96	-	-	-	-	0.06	18.02
Interest Payable to Lenders	1.15	-	-	-	-	-	1.15	3.97	-	-	-	-	-	3.97
Payable for Capital Goods Supply and Capital Works	149.88	0.03	-	0.06	-	0.42	150.39	345.65	0.03	-	0.06	-	0.10	345.84
Advance from Consumers and Others	28.29	-	-	-	-	-	28.29	5.50	-	-	-	-	-	5.50
Deposit, Retention Money	803.84	0.03	-	3.32	3.29	23.93	834.41	535.03	0.05	-	3.20	7.68	14.10	560.06
TDS (Income Tax) Payable	10.54	0.02	0.44	0.85	1.86	-	13.71	8.31	0.01	0.38	0.76	1.73	-	11.19
Co-Operative Society	-	-	-	0.01	-	-	0.01	-	-	-	0.01	-	-	0.01
Professional Tax	0.16	0.01	0.01	0.03	-	-	0.21	0.19	0.01	0.01	0.04	-	-	0.25
Electricity Duty	439.73	-	-	-	-	-	439.73	412.49	-	-	-	-	-	412.49
Sales & Commercial Taxes	29.31	0.47	-	0.29	0.56	-	30.63	12.78	0.47	-	0.20	0.43	-	13.88
ESI Recovery	0.02	-	-	-	-	-	0.02	0.02	-	-	-	-	-	0.02
Family Welfare Scheme	2.91	-	-	0.03	0.07	-	3.01	2.71	-	-	0.06	0.09	-	2.86
Retrenchment Benefit	4.14	-	-	-	-	-	4.14	4.14	-	-	-	-	-	4.14
Amount Payable to Pension Trust	-	-	-	-	-	510.41	510.41	-	-	-	-	-	734.00	734.00
Compassionate Fund for HB	-	-	-	-	-	0.69	0.69	-	-	-	-	-	0.69	0.69
Salaries Wages Payable	16.84	-	-	0.98	-	-	17.82	41.06	-	0.02	1.11	-	-	42.19
Deposit Work -REP-Current Liabilities	1,151.42	-	-	-	-	-	1,151.42	1,151.42	-	-	-	-	-	1,151.42
Building & Const Workers Welf Cess	1.36	-	-	0.04	0.49	-	1.89	4.77	-	-	0.02	0.45	-	5.24
Other Misc Liabilities - General	414.58	1.16	-	1.48	18.01	52.18	487.41	448.66	0.82	-	5.17	17.35	38.39	510.39





10. Other Current Liabilities

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Estimated Provident Fund Contribution Liability	-	-	-	-	-	67.23	67.23	-	-	-	-	-	77.37	77.37
SubTotal	3,075.67	1.72	0.45	7.09	24.28	654.92	3,764.13	2,994.66	1.39	0.41	10.63	27.73	864.71	3,899.53
Provident Fund	-	-	-	-	-	890.35	890.35	-	-	-	-	-	952.21	952.21
Less: Provident Fund Investment	-	-	-	-	-	819.70	819.70	-	-	-	-	-	804.02	804.02
SubTotal	-	-	-	-	-	70.65	70.65	-	-	-	-	-	148.19	148.19
Add : Current Maturity of Long Term Borrowings - From Note -4	1,059.85	-	-	0.29	-	-	1,060.14	997.41	-	-	0.29	-	-	997.70
Total	4,135.52	1.72	0.45	7.38	24.28	725.57	4,894.92	3,992.08	1.39	0.41	10.92	27.73	1,012.90	5,045.42



11. Short Term Provisions

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
Particulars	Power	Irrigation	Flood Control	Subsidiary Activities	Multi-purpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Provision for employee benefits	80.89	-	-	-	0.04	0.09	81.02	38.53	-	-	-	-	0.06	38.59
As per last balance sheet	47.46	-	-	-	-	0.15	47.61	42.59	-	-	-	0.04	0.03	42.66
less: Amounts adjusted during the year	5.47	-	-	-	-	-	5.47	0.23	-	-	-	-	-	0.23
Sub Total:	122.88	-	-	-	0.04	0.24	123.16	80.89	-	-	-	0.04	0.09	81.02
Provision for tariff adjustment As per last balance sheet	4.46	-	-	-	-	-	4.46	4.46	-	-	-	-	-	4.46
Additions during the year	-	-	-	-	-	-	-	-	-	-	-	-	-	-
less: adjusted during the year	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sub Total:	4.46	-	-	-	-	-	4.46	4.46	-	-	-	-	-	4.46
Provision for Revenue Expenditure As per last balance sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Additions during the year	24.24	-	-	-	-	-	24.24	-	-	-	-	-	-	-
Sub Total:	24.24	-	-	-	-	-	24.24	-	-	-	-	-	-	-
Provision for Compensation- in lieu of Compassionate Employment As per last balance sheet	-	-	-	-	-	125.85	125.85	-	-	-	-	-	27.54	27.54
Additions during the year	-	-	-	-	-	-	-	-	-	-	-	-	98.31	98.31
Sub Total:	-	-	-	-	-	125.85	125.85	-	-	-	-	-	125.85	125.85
Provision for Long Term Contract as per last balance sheet	782.00	-	-	-	-	-	782.00	-	-	-	-	-	-	-
Additions during the year	-	-	-	-	-	-	-	782.00	-	-	-	-	-	782.00
Sub Total:	782.00	-	-	-	-	-	782.00	782.00	-	-	-	-	-	782.00
Total	933.58	-	-	-	0.04	126.09	1,059.71	867.35	-	-	-	0.04	125.94	993.33



12. Fixed Assets- Tangible & Intangible Assets

(Rs. in Crore)

Particulars	Gross Block			Depreciation Block			Net Block
	As at 31.03.2022	Additions/ Adjustments	As at 31.03.2023	As at 31.03.2022	Additions/ Adjustments	As at 31.03.2023	As at 31.03.2023
i) Tangible Assets							
Land & Land Rights	1,693.41	82.15	1,775.56	33.65	10.30	43.95	1,731.61
Buildings	3,949.28	150.22	4,099.50	2,220.87	123.29	2,344.16	1,755.34
Road Culverts & Rly. Sidings	1,817.83	143.55	1,961.38	325.99	59.98	385.97	1,575.41
Dam and Spillway	38.13	-	38.13	25.56	0.23	25.79	12.34
Barrage, Gates & Others	1,444.42	1.14	1,445.56	800.70	78.13	878.83	566.73
Regulators, Lock Falls Etc.	7.72	-	7.72	6.95	-	6.95	0.77
Canals & Service Roads	15.38	0.26	15.64	8.23	0.04	8.27	7.37
Plant & Machinery	31,211.03	156.72	31,367.75	20,379.99	2,099.67	22,479.66	8,888.09
Less: Impairment	35.23	(15.36)	19.87	-	-	-	19.87
Net Plant & Machinery	31,175.80	172.08	31,347.88	20,379.99	2,099.67	22,479.66	8,868.22
Plant & Machinery (Mining & Ropeway)	0.85	-	0.85	0.77	-	0.77	0.08
Sub Station Equip	1,472.57	259.14	1,731.71	1,110.94	81.05	1,191.99	539.72
Switch Gear	483.87	(3.16)	480.71	336.57	25.00	361.57	119.14



12. Fixed Assets- Tangible & Intangible Assets

(Rs. in Crore)

Particulars	Gross Block			Depreciation Block			Net Block
	As at 31.03.2022	Additions/ Adjustments	As at 31.03.2023	As at 31.03.2022	Additions/ Adjustments	As at 31.03.2023	As at 31.03.2023
Tower Poles & Fixtures	1,559.30	435.19	1,994.49	930.81	106.26	1,037.07	957.42
Construction Equip-ment	27.71	(0.19)	27.52	24.35	0.52	24.87	2.65
Other Assets	367.77	25.46	393.23	306.67	8.04	314.71	78.52
Assets Held for Disposal (FA)	106.53	5.38	111.91	-	-	-	111.91
Total Fixed Asset Cost (Historical Value)	44,160.57	1,271.22	45,431.79	26,512.05	2,592.51	29,104.54	16,327.26
Revaluation of Assets - Increase in Assets Value	15,461.04	-	15,461.04	10,333.72	-	10,333.72	5,127.32
Gross Total Fixed Asset Cost (Historical & Revaluation Value)	59,621.61	1,271.22	60,892.84	36,845.77	2,592.51	39,438.27	21,454.57
Less: Provision against loss on Fixed Assets	188.77	(40.86)	147.91	-	-	-	147.91
Net Total Fixed Asset Cost (Historical & Revaluation Value)	59,432.84	1,312.08	60,744.93	36,845.77	2,592.51	39,438.27	21,306.66
Previous Year	58,882.25	550.59	59,432.84	34,161.97	2,683.80	36,845.77	22,587.07
ii) Intangible Assets	11.43	-	11.43	11.37	-	11.37	0.06
Previous Year	20.50	(9.07)	11.43	9.63	1.74	11.37	0.06



13. Capital Work-in-Progress & Intangible Assets Under Development

(Rs. in Crore)

Particulars	As at 31.03.2022	Additions/ Adjustments	As at 31.03.2023
i) Capital Work- in- Progress			
Land & Land Rights	0.09	-	0.09
Buildings	181.83	(157.03)	24.80
Road Culverts & Rly. Sidings	88.70	(17.49)	71.21
Dam and Spillway	112.78	5.13	117.91
Barrage, Gates & Others	2.67	17.55	20.22
Power House Plant & Machinery	1,923.78	1,315.37	3,239.15
Sub Station Equip	319.05	(57.29)	261.76
Tower Poles & Fixtures	310.88	(254.46)	56.42
Other Assets	1.48	(1.43)	0.05
Incidental Exp. During Con. (WIP) -Overhead	74.62	(32.09)	42.53



13. Capital Work-in-Progress & Intangible Assets Under Development

(Rs. in Crore)

Particulars	As at 31.03.2022	Additions/ Adjustments	As at 31.03.2023
Interest During Construction	96.54	83.61	180.15
Preliminary Survey & Investigation & Clg Overhead - Old Ledgers	34.32	(2.16)	32.16
New Thermal Projects-Turnkey -EPC	24.95	(6.20)	18.75
New Thermal Projects-Turnkey -Non EPC	374.83	(97.59)	277.24
Capital Stock - Construction and O&M Projects	441.32	53.82	495.14
Development of Coal Block	555.72	27.14	582.86
Solar Power	2.05	4.07	6.12
Renovation & Upgradation of Transmission System	109.65	(16.21)	93.44
Total CWIP Asset Value	4,655.26	864.74	5,520.00
Less: Provision against loss on CWIP (Khagra Joydev)	(155.47)	-	(155.47)
Net Total CWIP Assets Value	4,499.79	864.74	5,364.52
Previous Year	2,619.92	2,035.34	4,655.26
ii) Intangible Assets under Development	-	0.12	0.12
Previous Year	-	-	-



14. Non Current Investments

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
Investments in	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Equity (fully paid up-unless otherwise stated)														
JV Companies	547.28	-	-	-	-	18.40	565.68	547.23	-	-	-	-	-	547.23
other companies	10.00	-	-	-	-	-	10.00	10.00	-	-	-	-	-	10.00
Total	557.28	-	-	-	-	18.40	575.68	557.23	-	-	-	-	-	557.23

15. Long Term Loans & Advances

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
Particulars	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Capital Advances														
Unsecured considered good	648.97	-	-	-	-	3.93	652.90	681.32	-	-	-	-	3.93	685.25
Deposits - Unsecured, considered good	6.73	-	-	-	0.20	1.58	8.51	7.28	-	-	-	0.20	1.58	9.06
Loans														
Loans to Employees - Secured	-	-	-	-	-	-	-	0.01	-	-	-	-	-	0.01
Total	655.70	-	-	-	0.20	5.51	661.41	688.61	-	-	-	0.20	5.51	694.32

16. Other Non Current Assets

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
Particulars	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Unamortized Expenses	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-

17. Current Investment

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
Particulars	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Investments in Equity Instruments	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Investments in Short-term Deposits with Bank and FIs	238.65	-	-	-	-	-	238.65	8.35	-	-	-	-	-	8.35
Total	238.65	-	-	-	-	-	238.65	8.35	-	-	-	-	-	8.35

18. Inventories

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Stock														
Fuel Oil	126.77	-	-	-	-	-	126.77	82.47	-	-	-	-	-	82.47
Fuel Coal	733.23	-	-	-	-	-	733.23	598.21	-	-	-	-	-	598.21
Loose Tools	1.43	-	-	0.04	0.01	0.01	1.49	1.43	-	-	0.04	0.01	0.01	1.49
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stores & Spares	1,021.08	-	-	-	0.48	1.79	1,023.35	974.70	-	-	-	0.48	1.79	976.97
Naptha	0.33	-	-	-	-	-	0.33	0.33	-	-	-	-	-	0.33
Less: Provisions for Shortage, Obsolescence, etc.	172.15	-	-	0.04	0.49	1.80	174.48	172.60	-	-	0.04	0.49	1.80	174.93
Total	1,710.69	-	-	-	-	-	1,710.69	1,484.54	-	-	-	-	-	1,484.56

Notes

Inventories

1. Stock of coal and oil are valued at weighted average cost basis including freight.
2. Realisable value of disposable/unusable stores will be assessed.
3. Values of insurance spares as included in inventories are not separately identified.



19. Trade Receivables

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irriga-tion	Flood Con-trol	Sub-sidiary Activi-ties	Multipur-pose Dams	Over head Activi-ties	Total	Power	Irriga-tion	Flood Con-trol	Sub-sidiary Activi-ties	Multipur-pose Dams	Over head Activi-ties	Total
Debts outstanding for a period exceeding six months														
Unsecured considered good	4,000.77	62.23	-	-	-	-	4,063.00	1,576.41	0.33	-	-	-	-	1,576.74
Considered doubtful	1,021.73	79.02	-	-	-	-	1,100.75	835.39	86.96	-	-	-	-	922.35
Less: Provi-sion for Bad & Doubtful Debts	1,021.73	79.02	-	-	-	-	1,100.75	835.39	86.96	-	-	-	-	922.35
Debts out-standing for a period not exceeding six months														
Other Debts-Un-secured - considered good	5,536.30	77.50	-	-	-	-	5,613.80	6,123.49	81.31	-	-	-	-	6,204.80
Considered doubtful							-							-
Less: Provi-sion for Bad & Doubtful Debts							-							-
Total	9,537.07	139.73	-	-	-	-	9,676.80	7,699.90	81.64	-	-	-	-	7,781.54

Notes

Sundry Debtors

- Total outstanding amount of Rs 10558.8 crore (previous year Rs. 8535.29 crore) as on 31.03.2023 on account of sundry debtors for power supplied does not include unbilled revenue of Rs. 6095.68 crore (previous year Rs. 6024.89 crore)
- Total outstanding amount of Rs. 218.75 crore (previous year Rs. 168.6 crore) for water supply as on 31.03.2023 does not include unbilled revenue Rs. 14.52 crore (previous year Rs. 14.36 crore)





20. Cash & Cash Equivalent

(Rs. in Crore)

As at Particulars	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Cash & Cash Equivalents														
Current Account	18.31	-	-	-	1.33	240.85	260.49	42.17	-	-	-	2.00	154.38	198.55
Cash Balance	0.02	-	-	-	0.01	-	0.03	0.04	-	-	-	0.02	-	0.06
Imprest	0.13	-	-	0.01	-	0.05	0.19	0.07	-	-	0.01	-	0.06	0.14
Cash & Cash Equivalent- as per AS 3	18.46	-	-	0.01	1.34	240.90	260.71	42.28	-	-	0.01	2.02	154.44	198.75
Other Bank Balances														
Bank Deposits with more than three months Maturity							-							-
Total	18.46	-	-	0.01	1.34	240.90	260.71	42.28	-	-	0.01	2.02	154.44	198.75



21. Short Term Loans & Advances

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
A. Loans														
i) Related Parties														
Un-Secured	-	-	-	-	-	-	-	-	-	-	-	-	18.40	18.40
Sub Total	-	-	-	-	-	-	-	-	-	-	-	-	18.40	18.40
ii) Employees														
Secured	-	-	-	-	-	0.01	0.01	-	-	-	-	-	0.02	0.02
Un Secured	3.74	-	-	-	0.07	1.18	4.99	3.73	-	-	-	0.07	1.37	5.17
Sub Total	3.74	-	-	-	0.07	1.19	5.00	3.73	-	-	-	0.07	1.39	5.19
B. Advances														
i) Contractors & Suppliers, including material issued on loan														
Unsecured(Considered Good)	2,537.30	-	-	0.70	0.90	19.48	2,558.38	3,183.34	-	-	0.69	0.91	20.83	3,205.77
Less: Advance to Coal Suppliers adjusted in note 9 with Trade payable	2,061.86	-	-	-	-	-	2,061.86	2,825.82	-	-	-	-	-	2,825.82
Sub Total	475.44	-	-	0.70	0.90	19.48	496.52	357.52	-	-	0.69	0.91	20.83	379.95
Considered Doubtful	247.61	-	-	-	1.12	-	248.73	8.69	-	-	-	1.12	-	9.81
Less: Provision for Bad and Doubtful Advances	247.61	-	-	-	1.12	-	248.73	8.69	-	-	-	1.12	-	9.81
Sub Total	475.44	-	-	0.70	0.90	19.48	496.52	357.52	-	-	0.69	0.91	20.83	379.95
ii) Advance tax deposit & tax deducted at source	92.95	-	-	-	-	-	92.95	56.43	-	-	-	-	-	56.43
iii) Advance (Others)	-	-	-	-	-	43.73	43.73	-	-	-	-	-	40.29	40.29
iv) Related Parties-Unsecured	33.68	-	-	-	-	-	33.68	33.68	-	-	-	-	-	33.68
Total	605.80	-	-	0.70	0.97	64.40	671.88	451.36	-	-	0.69	0.98	80.91	533.94



22. Other Current Assets

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Other Current Assets														
Unbilled Revenue Sale of Power	6,095.68	-	-	-	-	-	6,095.68	6,024.89	-	-	-	-	-	6,024.89
Unbilled Revenue Sale of Water	-	14.52	-	-	-	-	14.52	-	14.36	-	-	-	-	14.36
Interest Accrued : on Term deposits	0.30	-	-	-	-	10.97	11.27	0.30	-	-	-	-	0.02	0.32
on others	-	-	-	-	-	21.09	21.09	-	-	-	-	-	19.36	19.36
Claims Recoverable From Related Parties	4.90	-	-	-	-	-	4.90	4.12	-	-	-	-	-	4.12
Temporary advance	0.20	-	-	-	0.04	0.20	0.44	0.19	-	-	-	0.02	0.03	0.24
Deposit Work - REP - Current Assets	1,156.09	-	-	-	-	-	1,156.09	1,156.09	-	-	-	-	-	1,156.09
Receivable from Non Core Activities -Unsecured Considered Good	5.56	-	-	0.05	0.01	-	5.62	5.98	-	-	0.05	0.01	-	6.04
Considered Doubtful	-	-	-	0.74	-	-	0.74	-	-	-	0.74	-	-	0.74
Less: Provision for Loss against other Receivables	-	-	-	0.74	-	-	0.74	-	-	-	0.74	-	-	0.74
Sub Total	5.56	-	-	0.05	0.01	-	5.62	5.98	-	-	0.05	0.01	-	6.04



22. Other Current Assets

(Rs. in Crore)

As at	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multi-purpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi-purpose Dams	Over head Activities	Total
Receivable from Misc Others - Unsecured Considered Good	467.52	0.01	-	0.42	21.16	75.29	564.40	544.95	0.01	-	0.42	19.55	-	564.93
Considered Doubtful	186.85	-	-	-	0.89	-	187.74	93.97	-	-	-	0.89	-	94.86
Less: Provision for Loss against other Receivables	186.85	-	-	-	0.89	-	187.74	93.97	-	-	-	0.89	-	94.86
Sub Total	467.52	0.01	-	0.42	21.16	75.29	564.40	544.95	0.01	-	0.42	19.55	-	564.93
Receivable from Railway for missing wagon	2,845.09	-	-	-	-	-	2,845.09	2,181.62	-	-	-	-	-	2,181.62
Less : Payable to Railway for unconnected wagon	2,817.59	-	-	-	-	-	2,817.59	1,547.70	-	-	-	-	-	1,547.70
Sub Total	27.50	-	-	-	-	-	27.50	633.92	-	-	-	-	-	633.92
Deposits- Secured	8.02	-	-	-	0.03	599.96	608.01	7.77	-	-	-	0.03	4.76	12.56
Total	7,765.77	14.53	-	0.47	21.24	707.51	8,509.52	8,378.21	14.37	-	0.47	19.61	24.17	8,436.83



23. Revenue from Operations

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Income from														
Supply of Power	25,004.56	-	-	-	-	-	25,004.56	21,799.31	-	-	-	-	-	21,799.31
Supply of Water	-	387.61	-	-	-	-	387.61	-	305.91	-	-	-	-	305.91
Total	25,004.56	387.61	-	-	-	-	25,392.17	21,799.31	305.91	-	-	-	-	22,105.22

Notes

A. Tariff

- Supreme Court vide its order dated 03.12.2018 in Civil Appeal No.4881 of 2010 (2nd Appeal) upheld the judgement of the Appellate Tribunal dated 10.05.2010 in Appeal No.146 of 2009 (1st Appeal against CERC order dated 06.08.2009 w.r.t. generation and Transmission Tariff) related to the tariff period FY 2006-07 to FY 2008-09.
- JSERC, in the meanwhile, issued retail tariff order (True-up for FY 2015-16, MYT 2016-21 including true up for 2006-07 to 2014-15) on 18.05.2018 wherein the State Commission determined the Revenue Surplus of around Rs.1287 crore from FY 2006-07 to FY 2014-15. While arriving at such Revenue Surplus, JSERC purportedly disallowed some of the legitimate claims of DVC and considered the carrying cost at compound rate of interest ignoring the mandate of the Electricity Act, 2003.

Aggrieved by such order of JSERC, DVC filed an Appeal Petition before the Appellate Tribunal for Electricity which is pending before the Tribunal. Moreover, the Revenue Surplus of around Rs.1287 crore as determined by JSERC includes a substantial part (around 40%) payable to JBVNL. The dues of JBVNL for the period from October, 2001 to September, 2015 has already been settled under the "Uday" Scheme of Govt. of India as full and final in which DVC has waived a substantial amount. Hence, the portion of Surplus amount, depending upon the judgement of the Appellate Tribunal, on account of JBVNL is not legally refundable by DVC.

During the pendency of the appeal before Appellate Tribunal the Honourable JSERC is of the view that it Couldn't be proper to pass any order in the instant case for refund of excess charges, since the case hasn't attend its finality. Accordingly, the Commission hasn't & consider the revenue surplus till 2014-15



23. Revenue from Operations

- c) Pending judgment of the Appellate Tribunal and in compliance of the directive given by JSERC in the tariff order dated 30.09.2020, DVC has also filed an Application before JSERC for determination of tariff schedule for different category of consumers for the period 2006-07 to 2011-12. The Application as submitted before JSERC is, however, without prejudice to the rights and contentions of DVC in the Appeal pending before the Tribunal. The Application at present is pending before the JSERC
- d) WBERC has determined ARR and tariff for the period 2006-07 to 2008-09 vide order dated 19.06.2020. In compliance of the said order DVC has already initiated the settlement of past dues with the consumers in 24 nos. equal monthly instalments along with 6% carrying cost.
- e) WBERC has issued tariff order dated 05.05.2022 for the period F.Y. 2017-18 which has become effective from the date 01.04.2017 to till date of next tariff order of WBERC.
- i) JSERC has issued trueup Order for FY 2019-20 and MYT for FY 2021-22 to FY 2025-26 & Tariff for FY 2021-22 on 30.01.2023 which is effective from 01.02.2023 till further order. (
- ii) WBERC has issued Tariff Order for FY 2018-19 and FY 2019-20 on 17.06.2022 which is effective from 01.04.2018 till further order.
- f) While issuing true up tariff order for the period 2009-14 and provisional tariff order for the period 2014-19 in respect of the Generation and T&D System of DVC, CERC did not consider the claim of DVC on Pension & Gratuity (P&G) account to be recovered through tariff. Being aggrieved, DVC filed Appeal Petition before the Appellate Tribunal for Electricity which are still in the process of hearing. Based on the order of CERC dated 4th September, 2019 in Case No. 197/MP/2016, DVC has claimed on account of P&G in 18 nos. of Tariff Petitions (Generating Stations and T&D) submitted before CERC for true-up for the period 2014-19 and provisional tariff for 2019-24. Out of that 18 nos. of Tariff petitions, CERC till date has issued Tariff Order for 13 nos. of Tariff petitions only.

B. Revenue from Operation- Power

(Rs. in Crore)

Particulars	2022-23	2021-22
Firm Sale	12,188.46	11,344.55
Bi- lateral Export	11,318.41	8,880.35
Bangladesh	1,271.05	1,178.32
Sale through Exchange & Others	226.64	396.09
Total	25,004.56	21,799.31

- C. Power sale through Exchange are made on Day Ahead/RTM basis and rates are determined through bidding process.
- D. Water tariff for supply of water for Industrial and non industrial use has been revised with effect from April, 2019.
- E. Electricity duty on power sale amounting to Rs.857.29 crore (PY 2021-22 Rs. 747.15 crore) has been reduced from sales in the Statement of Profit and Loss.
- F. Amount to the extent recoverable from the beneficiaries / consumers in subsequent periods as per CERC & WBERC Tariff Orders are recognized as 'Regulatory Assets' in the Statement of Profit & Loss. During the FY 2022-23 regulatory assets of Rs.754.23 crore has been accounted for as per Tariff Regulations.



24. Other Income

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Revenue from Non-Core Activities	-	-	-	0.01	-	0.04	0.05	-	-	-	0.03	-	0.02	0.05
a) Interest														
from Employees Loan and Advances	0.10	-	-	-	-	0.03	0.13	0.12	-	-	-	-	0.06	0.18
from Non Current Investment	0.18	-	-	-	-	-	0.18	1.15	-	-	-	-	-	1.15
Intt on IT Refund	1.06	-	-	-	-	-	1.06	0.40	-	-	-	-	-	0.40
Intt on Adv to Contractors & Suppliers	0.02	-	-	-	-	-	0.02	-	-	-	-	-	-	-
Int on Short Term Deposit	0.23	-	-	-	-	10.94	11.17	0.17	-	-	-	-	-	0.17
Int on CLTD	0.13	-	-	-	-	0.03	0.16	0.05	-	-	-	-	-	0.05
From Others	0.92	-	-	-	-	-	0.92	1.84	-	-	-	-	-	1.84
b) Dividend	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dividend - Non Current Investment	236.57	-	-	-	-	-	236.57	19.90	-	-	-	-	-	19.90

24. Other Income

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
c) Government Grants	-					-		-					-	
PMKUSUM Grant	(0.49)	-	-	-	-	-	(0.49)	-	-	-	-	-	0.49	0.49
d) Other non-operating Income														
Delay Payment Surcharge	519.95	-	-	-	-	-	519.95	562.32	9.63	-	-	-	-	571.95
Income from Service Charges	19.70	-	-	-	-	-	19.70	59.32	-	-	-	-	-	59.32
Profit on Disposal of Fixed Assets	19.20	-	-	0.04	-	0.09	19.33	34.22	-	-	-	-	-	34.22
Provision for Tariff Adjustment - Written Back	5.00	-	-	-	-	-	5.00	-	-	-	-	-	-	-
Provision - Written Back - Doubtful Debts	4.74	-	-	-	-	-	4.74	-	-	-	-	-	-	-
Provision written back - Stock-Current Assets	0.19	7.94	-	-	-	-	7.94	142.40	-	-	-	-	-	142.40
Provision - Income Tax - Written Back	-	-	-	-	-	-	0.19	-	-	-	-	-	-	-
Other Misc. Income	-	-	-	-	-	-	-	13.75	-	-	-	-	-	13.75
Sub Total- Direct	995.08	7.94	-	0.33	0.52	28.50	1,032.63	956.64	9.63	-	0.40	3.80	25.60	996.07
Inter Head Transfer	28.10	0.23	0.24	(0.33)	(0.52)	(28.76)	(1.04)	26.95	1.35	1.44	(0.40)	(3.80)	(25.60)	(0.06)
Common Service	(0.87)	-	-	-	-	-	(0.87)	-	-	-	-	-	-	-
Capitalized	(7.17)	-	-	-	-	-	(7.17)	(4.34)	-	-	-	-	-	(4.34)
Total Share	20.06	0.23	0.24	(0.33)	(0.52)	(28.76)	(9.08)	22.61	1.35	1.44	(0.40)	(3.80)	(25.60)	(4.40)
Total - Direct & Share	1,015.14	8.17	0.24	-	-	(0.26)	1,023.55	979.25	10.98	1.44	-	-	-	991.67

Notes: Delay Payment Surcharge has been accounted for based on CERC and SERC Regulations.



25. Cost of Power Purchased

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multi-purpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi-purpose Dams	Over head Activities	Total
Scheduled Purchase	1,179.43	-	-	-	-	-	1,179.43	700.12	-	-	-	-	-	700.12
Transmission & Reactive Charges	167.20	-	-	-	-	-	167.20	151.71	-	-	-	-	-	151.71
UI Import	138.96	-	-	-	-	-	138.96	159.05	-	-	-	-	-	159.05
Purchase of Power through Exchange	475.24	-	-	-	-	-	475.24	342.19	-	-	-	-	-	342.19
Total	1,960.83	-	-	-	-	-	1,960.83	1,353.07	-	-	-	-	-	1,353.07

26. Cost of Fuel

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multi-purpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi-purpose Dams	Over head Activities	Total
Consumption														
Coal	14,523.90						14,523.90	11,042.75	-	-	-	-	-	11,042.75
Oil	217.00						217.00	127.14	-	-	-	-	-	127.14
Total	14,740.90	-	-	-	-	-	14,740.90	11,169.89	-	-	-	-	-	11,169.89



27. Employee Benefit Expenses

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi-purpose Dams	Over head Activities	Total
Salary, Wages & Allowances														
Basic Pay	440.92	0.58	0.23	5.04	3.75	74.56	525.08	461.69	0.66	0.22	5.71	4.08	72.16	544.52
Dearness Allowance	163.82	0.22	0.08	1.76	1.32	28.23	195.43	128.30	0.18	0.06	1.58	1.10	20.79	152.01
House Rent Allowance	17.43	0.04	-	0.22	0.12	11.93	29.74	18.27	0.03	-	0.29	0.17	10.99	29.75
Field Compensatory Allowance	37.12	0.05	0.02	0.35	0.38	2.45	40.37	38.82	0.05	0.02	0.46	0.43	2.62	42.40
Other Allowances	181.43	0.22	0.04	1.80	1.04	23.73	208.26	163.85	0.13	0.03	1.42	1.21	23.39	190.03
Sub Total	840.72	1.11	0.37	9.17	6.61	140.90	998.88	810.93	1.05	0.33	9.46	6.99	129.95	958.71
Contribution To Provident Fund	38.05	0.06	-	0.12	0.36	6.03	44.62	28.02	0.05	-	0.13	0.43	4.51	33.14
Contribution to PG Fund	510.41	-	-	-	-	-	510.41	734.00	-	-	-	-	-	734.00
CPF-GPF Interest Payable	-	-	-	-	-	61.17	61.17	-	-	-	-	-	70.24	70.24
Less: Interest Recoverable on Investment	-	-	-	-	-	(68.68)	(68.68)	-	-	-	-	-	(59.98)	(59.98)
Sub Total	548.46	0.06	-	0.12	0.36	(1.48)	547.52	762.02	0.05	-	0.13	0.43	14.77	777.40



27. Employee Benefit Expenses

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Welfare Expenses														
Staff- Welfare	14.83	-	-	-	0.36	11.66	26.85	14.68	-	-	-	0.19	9.26	24.13
Compensation	6.00	-	-	-	2.57	3.27	11.84	4.90	-	-	-	-	0.15	5.05
Consumables -Medicine and Medical Reimbursement	23.09	0.03	0.01	0.45	0.14	44.16	67.88	27.27	0.05	-	0.44	0.22	45.33	73.31
Sub Total	43.92	0.03	0.01	0.45	3.07	59.09	106.57	46.85	0.05	-	0.44	0.41	54.74	102.49
Provision- Employees Remuneration :							-							-
Provision- Compensation on Compassionate Ground	-	-	-	-	-	-	-	98.31	-	-	-	-	-	98.31
Provision for PRMAS (Post Retirement Medical Assistance Scheme)	-	-	-	-	-	-	-	391.00	-	-	-	-	-	391.00
Provision for Leave Encashment	-	-	-	-	-	-	-	202.10	-	-	-	-	-	202.10
Sub Total	-	-	-	-	-	-	-	691.41	-	-	-	-	-	691.41
Total Direct Emp Cost	1,433.10	1.20	0.38	9.74	10.04	198.51	1,652.97	2,311.21	1.15	0.33	10.03	7.83	199.46	2,530.01
Sh of Emp. Rem.														
Inter Head Transfer	167.02	5.22	4.98	(9.74)	(10.13)	(198.51)	(41.16)	196.09	3.89	2.85	(10.03)	(7.93)	(199.46)	(14.59)
Bermo	(5.66)	-	-	-	-	-	(5.66)	(7.12)	-	-	-	-	-	(7.12)
CSO	(0.29)	-	-	-	0.09	-	(0.20)	(0.32)	-	-	-	0.10	-	(0.22)
Capitalized	(86.50)	-	-	-	-	-	(86.50)	(72.41)	-	-	-	-	-	(72.41)
Total Share	74.57	5.22	4.98	(9.74)	(10.04)	(198.51)	(133.52)	116.24	3.89	2.85	(10.03)	(7.83)	(199.46)	(94.34)
Total - Direct & Share	1,507.67	6.42	5.36	-	-	-	1,519.45	2,427.45	5.04	3.18	-	-	-	2,435.67



28. Finance Costs

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Interest on														
Banks	618.65	-	-	-	-	-	618.65	471.41	-	-	-	-	-	471.41
Others	23.10	-	-	-	-	-	23.10	17.72	-	-	-	-	-	17.72
Sinking Fund	283.91	-	-	-	-	-	283.91	245.13	-	-	-	-	-	245.13
Term Loan	655.98	-	-	-	-	-	655.98	801.51	-	-	-	-	-	801.51
Bonds	639.98	-	-	0.13	-	-	640.11	635.14	-	-	0.16	-	-	635.30
Capital	6.98	1.44	0.60	-	-	-	9.02	6.98	1.44	0.60	-	-	-	9.02
Sub Total	2,228.60	1.44	0.60	0.13	-	-	2,230.77	2,177.89	1.44	0.60	0.16	-	-	2,180.09



28. Finance Costs

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Other Borrowing Cost														
Bonds Servicing Expenses	0.19	-	-	-	-	-	0.19	0.19	-	-	-	-	-	0.19
Guarantee Fee	81.54	-	-	-	-	-	81.54	86.35	-	-	-	-	-	86.35
Other Misc Borrowing Expenses	0.96	-	-	-	-	-	0.96	75.75	-	-	-	-	-	75.75
Upfront Fees	-	-	-	-	-	-	-	0.59	-	-	-	-	-	0.59
Sub Total	82.69	-	-	-	-	-	82.69	162.88	-	-	-	-	-	162.88
Total Direct Expenses	2,311.29	1.44	0.60	0.13	-	-	2,313.46	2,340.77	1.44	0.60	0.16	-	-	2,342.97
Inter Head Transfer	0.19	0.02	0.02	(0.13)	-	-	0.10	0.13	-	-	(0.16)	-	-	(0.03)
Total Share	0.19	0.02	0.02	(0.13)	-	-	0.10	0.13	-	-	(0.16)	-	-	(0.03)
Total - Direct & Share	2,311.48	1.46	0.62	-	-	-	2,313.56	2,340.89	1.44	0.60	-	-	-	2,342.93

29. Operation & Maintenance and General Administration Charges

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Consumption of Stores and Spare Parts	253.34	-	-	0.39	0.31	0.72	254.76	191.91	-	-	0.29	0.43	0.98	193.61
Repairs & Maintainance														
Bulidings	68.94	0.15	-	2.36	0.74	1.61	73.80	56.60	-	-	2.98	1.18	1.50	62.26
Plant & Machinery	237.59	-	-	6.04	-	0.12	243.75	220.74	-	-	6.17	-	0.13	227.04
Construction Equip-ment	7.94	-	-	-	-	-	7.94	8.22	-	-	-	-	-	8.22
Others	143.21	0.04	-	3.63	8.40	31.38	186.66	88.89	0.04	-	1.75	8.05	15.07	113.80
Water Charges	187.06	-	-	-	-	-	187.06	154.86	-	-	-	-	-	154.86
Tariff Filing Fees	6.88	-	-	-	-	-	6.88	5.00	-	-	-	-	-	5.00
Taxes & Duties	2.70	-	-	0.24	-	0.23	3.17	3.72	-	-	0.17	0.05	1.01	4.95
Ash Evaquation and Utilization Expenses	283.82	-	-	-	-	-	283.82	166.28	-	-	-	-	-	166.28
Telephone Charges	1.22	-	-	0.01	-	0.27	1.50	1.18	-	-	0.01	0.01	0.21	1.41
Official Language	0.04	-	-	0.02	-	0.03	0.09	0.08	-	-	0.02	0.01	0.03	0.14
Promotional Exp														
Bank Charges	6.13	-	-	-	-	-	6.13	1.55	-	-	-	-	-	1.55
Legal Expenses	11.34	-	-	0.01	-	6.15	17.50	11.40	-	-	0.01	-	5.84	17.25
CISF and Other	262.91	-	-	0.60	0.57	45.58	309.66	290.75	-	-	0.66	0.63	48.60	340.64
Security Expenses														
Environment Protec-tion and Other State Cess	0.01	-	-	-	-	-	0.01	0.68	-	-	-	-	-	0.68



29. Operation & Maintenance and General Administration Charges

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multi-purpose Dams	Over head Activities	Total
Repair & Maintenance and Hiring of Vehicle	16.22	-	-	0.16	0.18	5.08	21.64	14.64	-	-	0.13	0.24	4.07	19.08
Insurance	39.78	-	-	-	-	0.80	40.58	40.14	-	-	-	-	0.57	40.71
Audit Charges	0.29	-	-	-	-	7.58	7.87	0.30	-	-	-	-	5.44	5.74
Rebate & Discount Allowed	181.61	-	-	-	-	-	181.61	121.94	-	-	-	-	-	121.94
SIP Expenses	34.27	-	-	0.43	0.35	1.19	36.24	4.27	-	-	2.14	0.09	0.58	7.08
Misc. General Over-head	2.68	-	-	-	0.03	0.22	2.93	7.33	-	-	-	0.03	0.59	7.95
Jubilee & Other Celebration Exp	33.61	-	-	0.81	0.96	5.45	40.83	0.16	-	-	-	-	0.07	0.23
Printing & Stationary	1.10	-	-	0.01	0.02	0.48	1.61	1.08	-	-	0.02	0.02	0.49	1.61
Postage & Telegraph	0.17	-	-	-	-	0.02	0.19	0.14	-	-	-	-	0.03	0.17
Rent	0.17	-	-	-	-	0.83	1.00	0.01	-	-	-	-	0.37	0.38



29. Operation & Maintenance and General Administration Charges

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Publicity & Advertisement	0.31	0.06	-	0.01	-	1.34	1.72	1.10	-	-	0.01	-	1.19	2.30
Entertainment	0.55	-	-	0.01	0.05	1.11	1.72	0.38	-	-	-	0.02	0.64	1.04
Outsourced Computerised Job	0.01	-	-	-	-	0.03	0.04	0.01	-	-	-	-	-	0.01
Other General Office Expenses	4.44	0.01	-	0.21	0.11	7.12	11.89	2.96	-	-	0.17	0.15	2.58	5.86
Electricity Charges to Outside Service Providers	0.82	-	-	-	-	1.97	2.79	0.75	-	-	-	0.01	1.46	2.22
Professional and Consultancy Charges	0.44	-	-	-	-	-	0.44	0.07	-	-	-	-	0.18	0.25
Brokerage and Commission	4.57	-	-	-	-	-	4.57	12.39	-	-	-	-	-	12.39
Meteorological Centre Expenses	-	3.66	-	-	-	-	3.66	-	3.71	-	-	-	-	3.71
Loss on Sale of Fixed Assets - written Off	-	-	-	-	-	-	-	0.48	-	-	-	-	-	0.48
Bad Debts - written off	-	-	-	-	-	-	-	-	32.30	-	-	-	-	32.30
Written off losses -others	-	-	-	-	-	-	-	0.41	-	-	-	-	-	0.41
Total Direct O&M Exp	1,794.17	3.92	-	14.94	11.72	119.31	1,944.06	1,410.42	36.05	-	14.53	10.92	91.63	1,563.55



29. Operation & Maintenance and General Administration Charges

(Rs. in Crore)

For the year ended	31.03.2023							31.03.2022						
	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Provision for Loss On Fixed Assets	4.56	-	-	-	-	-	4.56	-	-	-	-	-	-	-
Provision for Doubtful Claims and Advances (Rev Exp)	238.92	-	-	-	-	-	238.92	155.47	-	-	-	-	-	155.47
Provision for Doubtful Debts (Rev Exp)	252.73	-	-	-	-	-	252.73	-	-	-	-	-	-	-
Provision for Shortage/ Obsolescence in stores (Rev Exp)	26.49	-	-	-	-	-	26.49	-	-	-	-	-	-	-
Provision for Diminution in value of Investment	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Provisions	522.70	-	-	-	-	-	522.70	155.47	-	-	-	-	-	155.47
Sh of O&M Exp.														
Transfer to Fuel	(2.14)	-	-	-	-	-	(2.14)	(18.10)	-	-	-	-	-	(18.10)
Capitalized	(8.01)	-	-	-	-	-	(8.01)	(16.31)	-	-	-	-	-	(16.31)
CSO	(0.33)	-	-	-	0.01	-	(0.32)	(0.51)	-	-	-	0.01	-	(0.50)
Bermo	(2.58)	-	-	-	-	-	(2.58)	(3.52)	-	-	-	-	-	(3.52)
Inter Head Transfer	132.90	3.96	9.02	(14.94)	(11.73)	(119.31)	(0.10)	108.30	4.34	4.41	(14.53)	(10.93)	(91.63)	(0.04)
Total Share	119.84	3.96	9.02	(14.94)	(11.72)	(119.31)	(13.15)	69.86	4.34	4.41	(14.53)	(10.92)	(91.63)	(38.47)
Total - Direct & Share	2,436.71	7.88	9.02	-	-	-	2,453.61	1,635.75	40.39	4.41	-	-	-	1,680.55



Disclosure

Accounting Methodology

Pursuant to Gazette Notification of Government of India vide O.M no. GI/Sectt/ Gazette Notification-1249 dated 12th November 2012, the Balance Sheet and Statement of Profit & Loss of the Corporation is prepared on the basis of new formats as prescribed under Annexure – I & II of the Gazette Notification which is in line with the requirements of the Revised Schedule VI under the Companies Act of 1956.

Disclosure as per Accounting Standard -12 on Accounting for Government Grant

1. Revenue grants recognized during the year NIL (P.Y. 21-22 Rs. 0.49 crore) for conducting awareness activities for Pradhan Mantri Kishan Urja Suraksha evam Utthaan Mahabhiyaan (PM KUSUM).
2. Capital Grant received in earlier years for construction of building relating to training at Hazaribag has been adjusted during the year by crediting to Profit & Loss A/C to the extent of depreciation charged Rs. 0.03 crore Previous year Rs. 0.03 crore on the said assets.

Disclosure as per Accounting Standard -15 Employee Benefits

Employee Benefits

1. **General Provident Fund:** The fund is managed by the Corporation and invested in Govt. Securities, PSU Bonds. Corporation has to ensure a minimum rate of return to the members as specified by the Govt. of India. As per office order of the Corporation, whose selection for appointment was finalised before 01.01.2004, the existing employees covered under NPS scheme converted to GPF (Pension) Scheme, accordingly during the year 50 Numbers of employees covered under CCS (Pension) Rule, 1972 in place of NPS.
2. **New Pension Scheme:** Corporation's contribution at stipulated rate is charged to Profit & Loss Account and deposited regularly, as per guidelines of Pension Fund Regulatory and Development Authority (PFRDA), on monthly basis in respect of employees who have joined on or after 01.01.2004.
3. **Gratuity:** Corporation has a defined benefit gratuity plan. Every employee who has rendered continuous service of five years or more is entitled to get gratuity at 15 days salary ($15/30 \times$ last drawn Basic Salary + Dearness Allowance) for each completed year of service subject to a maximum of Rs.20 lakh on superannuation, resignation, disablement or on death.
4. **Pension:** Corporation has a pension scheme as per the GOI rules for employees who have joined before 01.01.2004. The existing scheme is funded by the Corporation and managed by a separate trust and liability is recognized on the basis of actuarial valuation. The actuarial liability on account of pension and gratuity up to March'2023 was Rs 7093 crore and the same has been provided in the accounts. Corresponding value of the Net Investment held by Trust on 31-03-2023 was Rs 6583 crore. For the FY 2022-23 Corporation has provided a liability of Rs 510.41 crore for difference in the carrying value of Investment and liability as assessed by the actuary.





Disclosure

- 5. Earned leave** is credited for 30 days annually, for each employee, which can be accumulated maximum up to 300 days at any point of service. Employee is entitled to en-cash, once in particular calendar year, 50% of his leave at his credit on the date intended to encash, subject to maximum of 20 days. On superannuation, an employee is also entitled to en-cash unutilized earned leave up to 300 days.
- 6. CPRMAS :** Corporation has a Contributory Post Retirement Medical Assistance Scheme [CPRMAS] which provides medical benefits to the Executives and Non -Executives of DVC and their spouses, subsequent to their retirement / separation from the services of the Corporation under any of the GPF, CPF and NPS establishments. The purpose of the scheme is to provide Annual Medical assistance cover for hospitalisation / in-patient treatment /re-imbursment of the cost of diagnostic test for pre-operative and post operative period.

Disclosure as per Accounting Standard - 16 on Borrowing Cost

Borrowing Cost capitalized during the FY 2022-23 is Rs. 83.61 crore (previous FY 2021-22 is Rs. 54.97 crore.)

Disclosure as per Accounting Standard - 18 on 'Related Party Disclosures

1. Related parties

Maithon Power Limited
DVC EMTA Coal Mines Ltd.

Bokaro Power Supply Company (P) Limited
National High Power Testing Laboratory Private Limited
Green Valley Renewable Energy Ltd.

2. Key Management Personnel

M. Raghu Ram (Member Technical)
Arup Sarkar (Member Finance)
Joydeep Mukherjee, ED (Finance)
Sanjay Kumar Ghosh, ED (Fuel)
Kajal Banerjee, ED (Engineering)
Uday Kumar, ED (System)
Jagesh Kumar Mandiye, ED (Mining)
Sadananda Mukherjee, Sr.G.M. (Finance)
Raman Kishore Jha, CE(Fuel)



Disclosure

3. Transactions with related parties at 1 above are as follows:

(Rs. in Crore)

Related Party	Contracts for works/ Services rendered by the Corporation	Loan/ Advance	Dividend Received	Purchase of Power/ Coal	Sale of Power	Sale of Water	Recoverable for Contracts for Works/ Services rendered	Payable for Contracts for Works/ Services received	Recoverable on account of deputation of employees	Payable for Purchase of Power / Coal	Recoverable for Sale of Power	Recoverable for Sale of Water
Maithon Power Ltd	0.10	Nil	163.80	459.50	0.37	21.43	0.14	Nil	Nil	68.40	0.19	1.93
Previous Year	3.98	Nil	0.00	423.14	0.37	21.95	0.14	Nil	Nil	58.52	0.19	3.43
DVC EMTA Coal Mines Ltd.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Previous Year	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Bokaro Power Supply Company (P) Limited	Nil	Nil	66.97	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Previous Year	Nil	Nil	12.44	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
National High Power Test Laboratory Private Limited	0.92	Nil	Nil	Nil	Nil	Nil	2.44	Nil	Nil	Nil	Nil	Nil
Previous Year	1.84	18.40	Nil	Nil	Nil	Nil	1.62	Nil	Nil	Nil	Nil	Nil





Disclosure

- a. Remuneration to key management personnel for the year is (Nil) previous Year (Nil) and no amount there against is outstanding to the Corporation as on 31st March 2023 (previous year- Nil).
- b. Land of 1116 acres comprising Raiyati Land (565 acres), GM (115 acres) and Forest Land (436 acres) for MPL was acquired by DVC for construction of Maithon Right Bank Thermal Power Station (2x525MW). For Raiyati Land, Corporation has entered into an Indenture Deed for lease, pending mutation of the said Land in the Name of DVC. Regarding GM land and Forest Land, Corporation has approached the Government of Jharkhand (GoJ) seeking necessary permission for sub-leasing / Right to use etc. in favour of Maithon Power Limited. GoJ has turned down the request. Similar arrangement of land for construction of railway track connecting to the MPL plant has also been made.

Disclosure as per Accounting Standard - 27 on Financial Reporting of Interest in Joint Ventures

Company	No. of Shares (in Lakh)	Face Value (Rs. per Share)	31.03.2023 (Rs. in crore)
Maithon Power Limited.....	3923.20	10	392.32
Bokaro Power Supply Company (P) Limited.....	1240.25	10	124.02
DVC EMTA Coal Mines Ltd.....	2.60	10	0.26
National High Power Test Laboratory Private Limited.....	488.00	10	48.80
Green Valley Renewable Energy Limited.....	0.49	10	0.05



Disclosure

Proportion of Ownership Interest in Joint Ventures

Joint Venture Entities

Proportion (% age) of ownership interest as on.....	31.03.2023	31.03.2022
Maithon Power Limited.....	26	26
Bokaro Power Supply Company (P) Limited.....	50	50
DVC EMTA Coal Mines Ltd.....	26	26
National High Power Test Laboratory Private Limited.....	12.50	20
Green Valley Renewable Energy Limited.....	49	-

Other Notes

1. Pursuant to the order of GOI, Ministry of Corporate Affairs dt 3rd February, 2022 , the name of M/s Damodar Valley Tourism Development Private Limited, the joint venture company between DVC and IL&FS IDC Limited has been struck off from the Registrar of Companies and the said company stands dissolved w.e.f. 3rd February, 2022. Corporation has made an Investment of Rs 0.23 crore in the Joint venture Company.
2. As per Section 30 of DVC Act, the respective participating Governments have accumulated liabilities towards capital contribution amounting to Rs.46,644 crore (P.Y. 2021-22 Rs. 44,523 crore) on account of cumulative capital expenditure incurred by the Corporation till 31st March, 2023.
3. Estimated amount of major contracts remaining to be executed on capital account and not provided for is Rs. 864 crore as on 31.03.2023 (P.Y. 21-22 Rs. 1,995 crore)
4. Gross generation of Power through system during the current financial year is 43,324 MKWH (P.Y.2021-22 - 41,264 MKWH) and Import of Power is 2,379 MKWH (P.Y. 2021-22 - 2,047 MKWH). Total quantity of Power Sale is 42,036 MKWH (P.Y. 2021-22 - 39,755 MKWH).
5. Quantity of water supplied during 2022-23 for Industrial & domestic purpose is 531.38 MKL (P.Y. 491.94 MKL) at average rate of Rs. 7.29 per KL (previous year Rs. 6.22 Per KL)
6. Investments are intended for long term and are carried at cost. Since, there is no diminution, other than temporary in the value of investment, carrying amount has not been reduced as per accounting policy.
7. The value of assets does not include the interest bearing securities deposited by the contractors and others and not accounted for in Financial Accounts.



Disclosure

8. Compensation paid in lieu of compassionate employment to the dependent of deceased regular employees has been accounted for at the time of final settlement as recognised by the management. One time compensation in lieu of employment for compassionate cases was enhanced, from existing Rs 5 lac to Rs 15 lac vide Corporation O&M dated 27-10-2020. The management estimate for existing liability of Rs. 98.31 crore for lumpsum compensation on compassionate ground has been existing in the Books of Accounts of DVC as on 31.03.2023.
9. The amount of Claim of Rs 55.11 crore lodged against Railway Authority on account of missing wagon was rejected by Rail on the ground of being time barred. The matter is being taken up with the appropriate Railway Authority.
10. Amount received for Deposit Work, for construction of Transmission and distribution line, from consumers is initially accounted for as "Liability" and on completion of the job, the Liability Account is adjusted with the actual expenditure incurred on Deposit Work.
11. Dam Rehabilitation and Improvement Project (DRIP) has undertaken by Central Water Commission (CWC), Ministry of Water Resources (MoR), GOI with loan assistance of World Bank for rehabilitation and improvement of dams of various States and Central Agencies. Based on DVC's request, three dams viz. Konar, Maithon and Panchet have been approved by the CWC for rehabilitation under DRIP Scheme with an estimated cost of Rs. 139.35 crore. Under the scheme 40% of total cost will be funded by IBRD loan and IDA credit each and balance 20% through equity. Expenditure incurred towards DRIP scheme up to the March 2023 is Rs 112.78 crore (previous year Rs 107.68 crore) and booked under Capital Works-in Progress. Fund received from World Bank in the form of Credit Assistance through CWC up to March 2023 is Rs. 80.15 crore. (previous year Rs 80.15 crore).
12. A Memorandum of Agreement (MOA) is made between the Ministry of Water Resources, River Development & Ganga Rejuvenation (MoWR, RD&GR), GOI and DVC under MoP for implementation of National Hydrology Project (NHP) from 2016-17 to 2023-24 as a Central Sector Scheme with World Bank Assistance. The fund will be provided by the World Bank as 100 % Grant-in-aid. During the FY 2022-23, amount of Rs. 1.80 crore (cumulative Rs. 21.46 crore) has been received as Grant -in-aid through MoWR and shown as "Receipt of Govt. Grant for NHP" under Current Liability group. Expenditure incurred towards NHP during FY 2022-23 amounting to Rs. 1.70 crore. (cumulative Rs. 21.44 crore.) shown as "Amount Receivable for NHP" under Current Asset group.



Disclosure

13. MOP, GOI has sanctioned two grant from Power System Development Fund (PSDF) towards Renovation and Upgradation of control and protection system and Replacement of substation equipments of 220KV/132KV/33KV Ramgarh substation of the Corporation. The sanctioned amount of Estimated costs for Renovation and Upgradation of control and protection system and replacement of substation equipment of 220KV/132KV/33KV Ramgarh substation are Rs. 156.11 crore and Rs. 28.85 crore respectively. The value of grants sanctioned are Rs.144.71 crore and Rs. 25.96 crore being 90% of the estimated sanctioned cost. Cumulative Grant on account of PSDF including interest as on 31.03.2023 is Rs.131.20 Crore (P.Y.2021-22 Rs.129.30 crore).
14. Arbitral Award dated 21.12.2019 passed in favour of M/s Reliance Infrastructure Ltd. (RIL) was challenged by submitting in application u/s 34 of the Arbitration & Conciliation Act 1996 on 20.01.2020 and stay order had been obtained by virtue of depositing a sum of Rs.595 Crores by the way of depositing Bank Draft to the satisfaction of Registrar Original side High Court at Calcutta and Bank Guarantee to the tune of Rs.306.03 Crores including commission in compliance with the modified order dated 25.03.2022. R.I.L had withdrawn the Rs.595 Crores upon furnishing unconditional Bank Guarantee. Consequently, hearing on Section 34 application of the said Act is still continuing.
15. Corporation accorded approval towards acceptance of the proposal for construction of two (02) units of 660 MW each in line with the decision taken in the meeting dated 13.01.2022 and subsequently MoP vide letter no: 03/02/2021-DVC, dated 25.02.2022 conveyed in principle approval of the Hon'ble Minister of Power, New & Renewable Energy for revival of RTPS-II (2X660MW).
16. In terms of provision of gazette notification dated 3rd November'2009 issued by Ministry of Environment and Forests, Government of India, sale proceeds of fly ash is to be accounted separately and to be utilised towards expenditure on development of infrastructure/facilities, promotion and facilitation activities for use of fly ash. During the FY 2022-23 sale of fly ash amounted to Rs. 33.14 crore and expenditure incurred amounted to Rs 84.47 crore.





17. Ministry of Coal, GOI has allotted two Coal Mines to DVC, Khagra Joydev Coal Mine (West Bengal) and Tubed Coal Mine (Jharkhand) for coal linkage of MTPS (Unit -7&8) and CTPS (unit-8). Khagra joydev Coal mines has been surrendered in August 2022. Tubed Coal mines has been put into operation in November 2022 and coal extraction started in January 2023.
18. Corporation has made a deposit of Rs. 4.00 crore with Jharkhand Commercial Tax Department against demand for Electricity duty and the same is being contested.
19. In addition to the existing policy on Depreciation, Corporation has made some changes in the rate of depreciation to be charged to New Units effective from 1st April, 2022. The rate of depreciation for new units commissioned after 01-04-2022 will be charged as per CERC Regulation. However, depreciation will continue to be charged as per existing depreciation rate mentioned in the accounting policy on existing units already commissioned and any additions made on Fixed Assets there to.
20. During the FY 2022-23, Corporation has accounted Rs.18.21 Crore as “Remission of Liabilities” (P.Y. 2021-22 Rs.104.00 Crore) for unclaimed liabilities appearing in the books from past several years. If in future, any legitimate claim is received against the remission of liability already accounted for, then payment will be made accordingly.
21. DVC has entered into a Joint Venture agreement with NTPC Renewable Energy Limited to co-operate, develop and establish Ultra Mega Renewable Energy Power Park (UMREPP) and RE Projects together on Land and reservoirs owned by DVC subject to technical commercial feasibility. Accordingly, a JV company named, Green Valley Renewable Energy Limited was formed with equity participation of 49% share of DVC and 51% share of NTPC REL.
22. The mining Lease of Bermo Mines has expired in December 2015. DVC had applied for renewal of the same, but Ministry of Coal, GOI insisted on handing over the mines to CCL. Modalities for handing over the assets and infrastructure of Bermo Mines by DVC to CCL is being worked out.



23. Consequent upon decommissioning of U#4 of DTSPS, during FY-2022-23, identified assets have been transferred to assets held for disposal.

Contingent Liabilities

1. Claim against the Company not acknowledged as debts in respect of :-

a) Works Contract

- i. Some of the contractors for supply and installation of equipment and execution of works have lodged claim on the Company for Rs.1275.98 crore (P.Y. 2021-22 Rs.648.85 crore) seeking enhancement of the contract price, revision of work schedule with price escalation, compensation for the extended period of work etc. These claims are being contested by the Company as being not admissible in terms of the provisions of the respective contracts.
- ii. The Company is pursuing various options under the dispute resolution mechanism available in the contracts for settlement of these claims. It is not practicable to make a realistic estimate of the outflow of resources if any, for settlement of such claims pending resolution.

b) Others

- i. In respect of claims made by various States/Central Government departments /Authorities towards fees, penalty, tax, cess etc. and by others, contingent liability of Rs. 25.46 crore (P.Y. 2021-22 Rs. 25.46 crore) has been estimated.
- ii. In respect of claims made by various Private Companies /Private Parties etc. and by others, contingent liability of Rs.1.50 crore (previous year Rs.1.50 crore) has been estimated.

Arup Sarkar

Member (Finance)

R. N. Singh

Chairman



Annexure to Note 27. Employee Benefit Expenses - for SLDC

Rs. in Crore

For the year ended	31.03.2023							31.03.2022						
	Power - SLDC	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power-SLDC	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Salary, Wages & Allowances														
Basic Pay	2.49	-	-	-	-	-	2.49	3.04	-	-	-	-	-	3.04
Dearness Allowance	0.94	-	-	-	-	-	0.94	0.85	-	-	-	-	-	0.85
House Rent Allowance	0.67	-	-	-	-	-	0.67	0.75	-	-	-	-	-	0.75
Other Allowances	0.72	-	-	-	-	-	0.72	0.63	-	-	-	-	-	0.63
Sub Total	4.82	-	-	-	-	-	4.82	5.27	-	-	-	-	-	5.27
Welfare Expenses														
Consumables - Medicine and Medical Reimbursement	0.04	-	-	-	-	-	0.04	0.13	-	-	-	-	-	0.13
Sub Total	0.04	-	-	-	-	-	0.04	0.13	-	-	-	-	-	0.13
Total Direct Emp Cost	4.86	-	-	-	-	-	4.86	5.40	-	-	-	-	-	5.40
Recovery from Employee	(0.00)	-	-	-	-	-	(0.00)	(0.01)	-	-	-	-	-	(0.01)
Net Employee Cost	4.86	-	-	-	-	-	4.86	5.39	-	-	-	-	-	5.39

(Note : Due to Regulatory requirement SLDC expenses has been shown seperately, which is included in HD -I Power of Note 27)

Annexure to Note 29. Operation & Maintenance and General Administration Charges - SLDC

Rs. in Crore

For the year ended	31.03.2023							31.03.2022						
	Power - SLDC	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power-SLDC	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Consumption of Stores and Spare Parts	0.00	-	-	-	-	-	0.00	0.00	-	-	-	-	-	0.00
Repairs & Maintenance	0.01	-	-	-	-	-	0.01	0.01	-	-	-	-	-	0.01
Taxes & Duties	-	-	-	-	-	-	-	0.00	-	-	-	-	-	0.00
Telephone Charges	0.02	-	-	-	-	-	0.02	0.02	-	-	-	-	-	0.02
Repair & Maintenance and Hiring of Vehicle	0.04	-	-	-	-	-	0.04	0.07	-	-	-	-	-	0.07
Insurance	0.01	-	-	-	-	-	0.01	-	-	-	-	-	-	-
Other General Office Expenses	0.02	-	-	-	-	-	0.02	0.02	-	-	-	-	-	0.02
Total Direct O&M Exp	0.10	-	-	-	-	-	0.10	0.12	-	-	-	-	-	0.12

(Note : Due to Regulatory requirement SLDC expenses has been shown separately, which is included in HD -I Power of Note 29)

Annexure to Note 27. Employee Benefit Expenses - for Distribution

Rs. in Crore

For the year ended	31.03.2023							31.03.2022						
	Power - SLDC	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power-SLDC	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Salary, Wages & Allowances														
Basic Pay	1.29	-	-	-	-	-	1.29	0.29	-	-	-	-	-	0.29
Dearness Allowance	0.49	-	-	-	-	-	0.49	0.09	-	-	-	-	-	0.09
House Rent Allowance	0.29	-	-	-	-	-	0.29	0.05	-	-	-	-	-	0.05
Other Allowances	0.29	-	-	-	-	-	0.29	0.02	-	-	-	-	-	0.02
Sub Total	2.35	-	-	-	-	-	2.35	0.45	-	-	-	-	-	0.45
Welfare Expenses														
Consumables - Medicine and Medical Reimbursement	0.01	-	-	-	-	-	0.01	-	-	-	-	-	-	-
Sub Total	0.01	-	-	-	-	-	0.01	-	-	-	-	-	-	-
Total Direct Emp Cost	2.36	-	-	-	-	-	2.36	0.45	-	-	-	-	-	0.45

(Note : Due to Regulatory requirement, Distribution expenses has been shown seperately, which is included in HD -I Power of Note 27)



Annexure to Note 29. Operation & Maintenance and General Administration Charges - Distribution

Rs. in Crore

For the year ended	31.03.2023							31.03.2022						
	Power - SLDC	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total	Power-SLDC	Irrigation	Flood Control	Subsidiary Activities	Multipurpose Dams	Over head Activities	Total
Consumption of Stores and Spare Parts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Repairs & Maintenance	0.01	-	-	-	-	-	0.01	-	-	-	-	-	-	-
Telephone Charges	0.00	-	-	-	-	-	0.00	0.00	-	-	-	-	-	0.00
CISF and Other Security Expenses	0.01	-	-	-	-	-	0.01	-	-	-	-	-	-	-
Repair & Maintenance and Hiring of Vehicle	0.04	-	-	-	-	-	0.04	-	-	-	-	-	-	-
SIP Expenses	0.07	-	-	-	-	-	0.07	-	-	-	-	-	-	-
Other General Office Expenses	0.05	-	-	-	-	-	0.05	0.00	-	-	-	-	-	0.00
Total Direct O&M Exp	0.18	-	-	-	-	-	0.18	0.00	-	-	-	-	-	0.00
Recovery from Employee	(0.00)	-	-	-	-	-	(0.00)	(0.00)	-	-	-	-	-	(0.00)
Total	0.18	-	-	-	-	-	0.18	0.00	-	-	-	-	-	0.00

(Note : Due to Regulatory requirement, Distribution expenses has been shown separately, which is included in HD -I Power of Note 29)





The Hon'ble Cabinet Minister of Power and New & Renewable Energy, MoP, GoI, Shri R. K. Singh graced DVC's 75th Foundation Day event



DVC wins Inter CPSU Chess Tournament



DVC Chairman receives Transformational Leadership Award in Power Business Sector at Leadership conclave 2023



DVC organized National Seminal on Sustainable co firing of Biomass in Thermal Power Plants



DVC captive coal mine at Tuled starts production and transporting coal to its power plants



Mountaineer Piyali Basak addressed the women employees of DVC on the occasion of International Women's Week 2023



DAMODAR VALLEY CORPORATION



DVC Towers, VIP Road
Kolkata 700 054
Website: www.dvc.gov.in

