

MANAGEMENT DISCUSSION AND ANALYSIS

FORWARD-LOOKING STATEMENTS:

Statements in this Annual Report, particularly those that relate to Management Discussion and Analysis, describing the Company's objectives, projections, estimates and expectations, may constitute 'forward-looking statements' within the meaning of applicable laws and regulations. Such statements are necessarily dependent on projection and trends and constitute our current expectations based on reasonable assumptions. However, the actual results might differ from those expressed or implied in such forward-looking statements due to risks, uncertainties and other external factors.

INDUSTRY STRUCTURE AND DEVELOPMENT:

1. Today, India is the fifth-largest economy and the third-largest energy consumer in the world; and India aspires to become a developed nation by 2047.
2. 24x7 – Power for All (24x7 PFA) is a Joint Initiative of Government of India (GoI) and State Governments with the objective to provide 24x7 power available to all households, commercial businesses, public needs and adequate power to agriculture farm holdings.
3. Government of India has set a target for establishing 500 GW of non-fossil-based electricity installed capacity by 2030 so that 50% electric power installed capacity from non-fossil fuel-based energy resources can be achieved by 2030.
4. Size and growth of the hydropower segment - The installed large hydropower capacity (above 25 MW) in the country stood at 46,928 MW as of March 2024. The share of hydropower in the country's total installed capacity is 11 per cent. The Central Electricity Authority (CEA) estimates the hydroelectric potential at 145,320 MW, of which only 32 per cent has been tapped. During the past five years (2019-20 to 2023-24), only 1,229 MW of hydropower capacity was added.
5. As of May 2024, the electricity generation target for India for 2024–2025 is 1,900 billion units (BU), which is a 9.3% increase from the 2023–2024 target of 1,750 BU. The 2023–2024 target was a 7.2% increase from the 2022–2023 generation of 1,624.158 BU.
6. The electricity generation target (Including RE) for the year 2024-25 has been fixed as 1900 Bn unit (BU) (1444.943 BU Thermal; 147.709 BU Hydro; 55.348 Nuclear; 8 BU Import from Bhutan and 244 BU RES (Excl. Large Hydro). The electricity generation including Renewable Sources during 2023-24 was 1738.828 BU as compared to 1624.465 BU generated during 2022-23, representing a growth of about 7.04%.

7. In addition to the recent developments, Indian Government has identified Green Growth Strategy as one of its priorities.

CENTRAL COMMERCIAL (CCD):

CENTRAL COMMERCIAL DEPARTMENT(C.C.D.) :-					
A. Demand in MU for the Financial Year 2023-2024 of De-centralized Bulk Consumers				Capacity addition for De-centralized Bulk consumers for the F.Y. 2023-2024	
Sl. No.	Name of the Unit (Region Name/ Zone Name)	Demand in MU	Demand in Rs. (in CRORES)	Connection effected in 2023-'24 (in Nos.)	KVA added in 2023-'24 (in KVA)
1	24-PARGANAS (SOUTH) REGIONAL OFFICE	215.15	192.07	50	9381
2	24-PARGANAS (NORTH) REGIONAL OFFICE	331.06	287.02	105	14465
3	BIDHANNAGAR REGIONAL OFFICE	349.97	333.56	90	18041
4	HOWRAH REGIONAL OFFICE	734.82	605.47	129	25789
	Kolkata Zone	1631.00	1418.12	374	67676
5	BIRBHUM (DIST.) REGIONAL OFFICE	216.51	194.03	65	9369
6	BURDWAN REGIONAL OFFICE	599.72	477.97	60	13324
7	PASCHIM BURDWAN REGIONAL OFFICE	685.55	472.32	64	10001
8	HOOGHLY REGIONAL OFFICE	563.46	449.48	84	14141
	Burdwan Zone	1379.69	1121.48	209	36834
9	BANKURA REGIONAL OFFICE	162.42	136.88	31	4894
10	PASCHIM MIDNAPUR REGIONAL OFFICE	246.06	199.21	35	8917
11	PURBA MEDINIPUR REGIONAL OFFICE	156.65	136.9	37	4994
12	PURULIA REGIONAL OFFICE	77.19	68.54	23	3848

	Midnapore Zone	642.32	541.53	126	22653
13	MALDA REGIONAL OFFICE	106.09	91.23	17	2649
14	MURSHIDABAD REGIONAL OFFICE	125.57	106.53	35	6727
15	NADIA REGIONAL OFFICE	115.19	102.99	30	4711
	Berhampore Zone	346.85	300.75	82	14087
16	DARJEELING REGIONAL OFFICE	310.1	265.3	65	9115
17	JALPAIGURI REGIONAL OFFICE	327.56	273.35	46	7998
18	UTTAR DINAJPUR REGIONAL OFFICE	162	136.14	22	3465
19	ALIPOREDOAR REGION Total	74.5	65.48	19	2950
20	DAKSHIN DINAJPUR REGIONAL OFFICE	50.72	44.64	7	1514
21	COOCHBEHAR REGIONAL OFFICE	93.24	75.47	14	3108
	Siliguri Zone	1018.12	860.38	173	28150
Total De-centralized Bulk Consumers under WBSEDCL		5703.53	4714.58	1028	179401.00

B. Demand and Collection for the financial year 2023-2024 i.r.o. Centralized Bulk Consumers and within New Town Area					
Sl. No.	Category	Demand in MU	Collection in MU	Effectuated in 2023-24 (in Nos.)	Effectuated in 2023-'24 (in KVA)
1	Centralized Bulk Consumers	9900.68	8840.29	28	
		Demand in RS(CRORES)	Collection in RS(CRORES)		132606
		6361.88	5897.52		

CUSTOMER RELATIONS MANAGEMENT (CRM):

The CRM Cell headed by a Chief Engineer is responsible to handle CMO portal related to complaint forwarded by Power department. During the year 2023-24 the cell remains focused on redressing customer issues in expedite manner and continued to work for achievement of the following:

1. The Cell is representing the Company at the appellate level i.e. before Ld. Ombudsman for the customer grievances. During 2023-24a total of 233(Two hundred and Thirty Three) numbers of new cases arise.
2. Numbers of cases escalated before Ld. Ombudsman by the petitioners finally ordered during 2023-24 were 203 (Two hundred and three) numbers (including previous year balance) out of which only 1 number of cases awarded with compensation of only Rs.1200 (Rupees Twelve Hundred only) .
3. The Cell attends hearing and rehearing in respect of new cases as well as existing cases after submission of comments, objections, replies, documents and evidences on factual basis so that the grievances are resolved in a balanced manner and within the regulatory ambit.
4. The Cell attended the hearing of Ld Commission on call.
5. The Cell is handling role of Central Grievance Redressal Officer (CGRO). During the period 22 (Twenty two) numbers of new cases of grievances have been registered and subsequently those were dealt with by conducting hearing, rehearing and passing of interim, draft and final order in addition to previous cases.
6. Dealing with CESC being the appellate authority, as mandated by GoWB, under section 127 of Electricity Act, 2003. During 2023-24 a total of 2 (Two) numbers cases were dealt with.
7. A total of 9 (Nine) numbers of video conferences were conducted during the period where 21 nos. of regional levels participated to review the performance and capacity building of regional forum.
8. Extending faculty support for the new inductees during induction program and for other training programs.
9. Extending faculty support for delivery of 17 numbers of 2-day workshop on CRM activities with special reference to bill and new service connection related dispute at different EETIs and KJTC spreading across the State.
10. Designed orientation program on “Regulatory matters and Skill Development for Effective Grievance Redressal” for the RGROs and training program on “Advance Refresher Course on CRM activities” for the Station Managers and others.
11. Random checking of complaint docketed at Zonal Call Centres by interacting with the complainant, Station Manager, Mobile Van operator, CFOs at ZCC and CCC levels to ensure better service.
12. Conducting customer survey to appreciate customer satisfaction index (CSI); completed the 7th and 8th cycle and then initiated the 9th cycle.

13. Regular maintenance and review of various application tools, grievance related information updation of the Company portal.
14. Day to day handling of customer issues through phone, system based dockets, email, letters and personal visits.
15. Handling audit, legal issues, cyber crime related quarries and usual day to day administrative requirements of the cell.

POWER TRADING & PROCUREMENT:

Progress:

- Demand of consumers is increasing day by day which is challenge for WBSEDCL to cater. Demand in 2023-24 was 41467.509 MU compared to demand in 2022-23 of 35697.263 MU which is increased of 16.16%. WBSEDCL consumer base increased to almost 2.313 Crore in FY 2023-24 from almost 2.230 Crore in FY 2022-23.
- Increase in demand of consumers was addressed successfully in 2023-24 by tie up of some of the following portfolio of Power Purchase Agreements/Supplementary Power Purchase Agreement:
 1. Long term Power Purchase Agreement for purchase of 15 MW solar power from WBPDC and 6 MW power from Ramsarup Industries Ltd.
 2. Short term Supplementary Power Purchase Agreement with Bengal Energy Ltd. for purchase of 40 MW power.
 3. Short term purchase of power from Power Exchange.

Achievement:

- Long term Power Purchase Agreement is already executed with SECI for purchasing 300 MW RE power for 25 years, for compliance of Renewable Power Obligation as well to meet the demand in upcoming years. Power supply is already started in 2023-24.
- Power Trading & Procurement Department successfully achieved the objective of 24 x 7 interruption free cost effective supply of power to the consumers of WBSEDCL. The above is achieved through induction of new power supply portfolio by execution of long term & short term agreement (through purchase / sale of power) including own source of RE, Solar, Hydro and Pump Storage.

- Uninterrupted power supply during festive season, board exams & elections in the state.
- Real time balancing & optimization of power supply through Real Time Market (RTM).

AREA LOAD DESPATCH CENTRE (ALDC):

In compliance with the Regulatory Guidelines, Area Load Despatch Centre (ALDC) has been formed with the onus of efficient consumer demand management assiduously on techno-commercial principle. Interruption free service to the consumer with quality in toto is the motto of ALDC. Not only the quality service but also economic despatch of power from multisource availability with the exploration of real time power market is also monitored round the clock for commercial interest of consumer. To serve such responsibility, qualified & well trained engineers along with dedicated technical personnel are monitoring the situation round the clock (24X7) in three shifts of operation per day. Apart from the real time operational activity, ALDC is also entrusted with procurement of power through spot market in the vent of contingency, short term & long term perspective. Demand generation balance planning for power purchase portfolio management. To ensure perfection in performance of such important wing like ALDC, Company has provided all infrastructural support viz. SCADA, communication etc.

REGULATORY AFFAIRS:

Regulation Cell looks after all Regulatory works related to WBERC and CERC. Different applications are filed before both the Commissions for approval of investment, Power Purchase Agreement & other issues to remove difficulties and also simultaneous compliance of Regulations. Regulation Cell prepares and submits views on draft regulation / Rules / Policies /Act issued by CERC/ WBERC /Govt.

Regulation Cell offers views / Objection against application of other utilities / order of Commission before APTEL or CERC or WBERC. Further action is taken including filing cases against other utilities / order of Commission in civil Court/ High Court/ Supreme Court.

Performance/Achievement during the period 2023-24

- 1) APR application for the year 2022-23 submitted on 28/11/2023.
- 2) FPPCA application for the year 2022-23 submitted on 22/09/2023.
- 3) Seventeen (17) nos. applications on various issues submitted before WBERC for seeking permission/ approval apart from sl. no. 1 & 2.
- 4) Submission of CEA's General Review for 2022-23.

- 5) Submission of Cost of Generation & rate of sale of power to CEA for 2022-23.
- 6) Purchase of energy by WBSEDCL during the year 2023-24 from different non-conventional and Renewable energy sources:

Sl. No.	Type	No of Generator	Contract Quantum (MW)	Energy Supplied (MU)
		2023-24	2023-24	2023-24
a	Mini Hydel	2	6.00	19.11
b	Co-generation	9	71.1	238.212
c	Solar	2	40	71.873
d	Wind	1	100	32.323
	TOTAL	14	217.10	361.518

Others:

7. Pursuing cases on regulatory issues pending before different forum such as CERC, WBERC.

DISTRIBUTION:

REVENUE & ENERGY MANAGEMENT CELL:

The following activities were done by R&EM cell in 2023-24:

A. Metering of feeders & allied activities

- As on 31.03.2024, 1692 nos. 33 KV & 5570 nos. 11KV outgoing feeders were lying in the circuit.
- The functioning of 11 KV and 33 KV feeder meters were monitored in liaison with the site authorities and testing wing for enhancing the accuracy of the energy audit process.
- Manual meter reading activities i.r.o other than IPDS DCU connected feeders was monitored. Meter reading issues due to feeder off at the time of reading, non communication with MRI, Meter not found, defective meters & CT/PT, sealing at optical port of meter etc. were resolved regularly in liaison with the site authorities & Distribution Testing Department.
- Availability of feeder meter's data through IPDS DCU was regularly monitored and interaction was done with the concerned AMC vendor & IT&C Cell for improvement of data availability through IPDS DCU.
- Preparation of SOS list of feeder meters and forwarding the same to meter reading agency for manual meter reading in case of non availability of 100% meter's data through DCUs.
- Feeder Consumption obtained from manual meter reading & IPDS DCUs were thoroughly

verified and validated and uploaded into SAP_ISU for generating energy consumption report regarding the energy audit purpose.

- Regular monitoring regarding variation of consumptions of sub-stations, feeders with less consumption etc. were performed.
- Creation of new sub-station code & creation / updation of new feeder code in MDAS and monitoring of MDAS support portal were performed.
- Meetings were conducted in different Zone / Region along with Divisional Managers & DE(T) / AE(T) for resolving different issues related to feeder metering.

B. Generation of reports based on meter reading data.

- Input (KWH) of feeders
- SAIFI & SAIDI and availability of power supply report
- 33/11 KV sub-station wise peak demand report
- Maximum & minimum voltage report
- PF report

C. Activities related to National Feeder Monitoring System (NFMS)

CE, R&EM Cell performs as nodal officer of National Feeder Monitoring System (NFMS). Activities related to National Feeder Monitoring System (NFMS) were monitored from R&EM Cell in liaison with IT&C Cell. 1031 nos. 11 KV outgoing feeders presently connected with IPDS DCUs have been integrated with National Feeder Monitoring System (NFMS) through API for real time uploading of feeder meter's data. Rest feeders will be integrated after installation of Smart meters.

D. Generation of SAIFI/SAIDI and availability of power supply reports from system

System has been developed for generation of monthly / quarterly / half yearly / yearly SAIFI & SAIFI and availability of power supply report from BI reports in web portal since 01.04.2023.

E. CCC wise following exceptional reports of revenue related reports were generated & sent to CE (Distribution South), CE (Distribution North), Zonal Managers / Regional Managers/ Divisional Managers for taking needful actions.

Few such monitoring aspects were -

- 1st bill not generated after effecting connection.

- Base class wise consumer having monthly consumption ≤ 10 unit & defective meter.
- Defective meter > 2 KW connected load and (or) monthly consumption ≤ 10 unit.
- Base class wise average demand report for current financial year.
- Unbilled consumers i.r.o quarterly and monthly billing of the last schedule.
- Consumer where unit consumption of current financial year was less than 50% of previous financial year.
- Base class wise non govt. consumers having outstanding dues \geq Rs. 5000.00 (where notice due dates were crossed).
- Base class wise non govt. consumers having dues \geq Rs. 5000.00 and non payment during last one year for domestic and 6 months for industrial & com. consumers.
- Domestic and commercial consumers having connected load < 0.5 KVA but average monthly demand ≥ 200 units.
- Consumer wise status of pending 2nd inspection, generation of quotation through Y_S&LP activity for over drawal of load.
- Consumer wise billing status i.r.o deemed disconnected consumers.
- Spot bill image verification status.
- CCC wise pending connection reports were generated from R&EM cell on weekly basis and circulated to Chief Engineer (Distribution South), Chief Engineer (Distribution North) , ZMs, RMs, DMs.

F. Meeting with site authority on revenue related reports generated by R&EM Cell

Meetings were conducted in different Zone / Region along with Divisional Managers & Station Managers for discussing different revenue related exceptional reports generated by R&EM Cell for improving revenue realization as well reduction of AT&C losses.

- G. Reports pertaining to **DISCOM CONSUMER SERVICE RATING** were prepared & uploaded in the portal of REC Limited by R&EM Cell to REC Limited.
- H. Dy. CE, R&EM Cell performed as the nodal officer for WBSEDCL for implementation of **URJAMITRA** scheme.
- I. Dy. CE, R&EM Cell also performed as the nodal officer for WBSEDCL for implementation of **11KV Rural feeder monitoring scheme**. The scheme deals with the installation of modems in rural feeders, for acquisition of data related to Power Supply, outages and energy

consumption on daily basis and the data is subsequently inserted into the Central MDAS server of RECPDCL which is further connected to National Power Portal (NPP). The whole project is centrally conducted by RECPDCL (under Ministry of Power, GOI).

J. Monthly submission of Metering Status to Central Electricity Authority (CEA).

- As per prevailing guideline, reports pertaining to metering and billing status of all categories of Consumers, all 33KV / 11KV feeders and Distribution Transformers were being submitted monthly by R&EM Cell to Central Electricity Authority (CEA).

PROCUREMENT & CONTRACTS:

A brief report on the performance of Procurement & Contracts Department for the year 2023-24 is given below:

Sl. No.	Activity	Actual 2023-24
A) Procurement Action		
1	No. of Tenders floated	55
2	No. of Purchase Orders issued	131
3	No of Rate Contract Orders	217
B) Estimated Financial Involvement		
1	Purchase Orders (Rs. In Crore)	1,305.95
2	Rate Contract Orders (Rs. In Crore)	201.33
C) Earning from Sale of Scrap (Rs. In Crore)		15.09

DISTRIBUTION TESTING:

The Distribution Testing Department (DTD), headquartered at Abhikshan Bhawan Salt Lake, along with five Zonal Testing Units located at Kolkata, Burdwan, Siliguri, Berhampore & Midnapore under its technical control, functions primarily with the objective to create & maintain safe, secure, accurate and healthy electrical installation/system/network, to ensure speedy isolation of faulty system to avoid hazards & minimize affected area and also for speedy restoration of faults to maintain uninterrupted & quality power supply. Apart from that, testing ensures quality of electricity meters with added analytical features which ascertains revenue protection.

Inspection of electrical equipment prior to its dispatch from factory, sample testing of some items as part of technical evaluation, re-conditioning of CT & PT, repairing of some Power Transformers, UG

cable network maintenance including fault locating, cable route tracing and identification etc. , preparation, checking & approving various schemes, General Technical Particulars & Drawings, preparation & upgrading Technical Specifications of various equipment, system health monitoring as precautionary measure to ensure timely detection of vulnerability in system to avoid interruption in system are some of the mention-worthy activities of this department.

Some of the activities of DTD & Other Zonal Testing Units for FY: 2023- 24 are as follows:

Sl No	Activity	Unit-wise Activities Executed During Apr:2023 - Mar:2024						
		DTD	Kolkata	Midnapur	Berhampore	Siliguri	Burdwan	Total
			ZTU	ZTU	ZTU	ZTU	ZTU	
1	In House Testing							
1.1	Relay	905	46	589	130	460	603	2733
1.2	Energy Meter - Acceptance Test	322722		242377	236088	199431	231395	1232013
1.3	Energy Meter - Sample Test	11		NA	NA	0		11
1.4	CT & PT	4076		NA	NA	0	-	4076
1.5	WTI & OTI	171		NA	NA	46	-	217
1.6	TR Oil (Samples)	732		480	177	744	278	2411
2	In House Overhauling, Repairing & Reconditioning Works							
2.1	PTR Overhauling	4	-	-	-	-	-	4
2.2	CT & PT Reconditioning		-	-	-	-	-	0
3	Inspection & Testing-							
3.1	PTR	73			4	14	7	98
3.2	DTR	13031	5432	742	1418	5125	1912	27660
3.3	Energy Meter	1509473		111175	NA	384267	344020	2348935
3.4	Panel, VCB, Relay, RMU, Battery Charger etc. (no. of inspections)	348		10	NA	6	12	376
3.5	Tr Oil - (in Kilolitre) New Oil	2600.5		-	NA	-	-	2600.5
3.6	Tr Oil - (in Kilolitre) Reclaimed /Regenerated	-	-		85	200	100	385
4	Commissioning Work							

4.1	33/11 kV Substation		2	1	0	7	4	14
4.2	LT Bulk Consumer	202		130	80	164	241	817
4.3	11 kV Bulk Consumer	77		37	25	55	73	267
4.4	33 kV Bulk Consumer	34		6	1	1	22	64
4.5	132 kV Bulk Consumer	2		1	1		1	5
4.6	Equipment Commissioning including PTR		490	298	160	66	396	1410
5	Consumer installation checking	370		262	355	357	238	1582
6	Condition Monitoring		438	324	212	283	338	1595
7	Troubleshooting Work		518	51	270	72	136	1047
8	Cable Fault & Cable Identification	386	-	37	22	27	85	557

PLANNING & ENGINEERING

Sl. No	Subject	Quantity
1	Feasibility checking towards requirement of new 33/11 KV Sub-Station.	54
2	Feasibility checking towards requirement of new 132/33 KV Sub-Station.	11
3	Feasibility study and estimate for augmentation and/or renovation of existing 33/11 KV Sub-Station.	199
4	Finalisation of scheme & estimate for construction of new 33/11 KV Sub-Station including drawal of new 33 KV lines and 11 KV connectivity .	15
5	Feasibility study and estimate for drawal of new 33 KV lines for strengthening of 33 KV network.	67
6	Design of Earth Mat.	41
7	Design of structural layout of new 33/11 KV Sub-Station and Re-design/ revision of structural layout for augmentation/ renovation/ bay extension of existing 33/11 KV Sub-Station.	89
8	Checking of suitability of land for construction of new 33/11 KV Sub-Station.	40
9	Finalisation of estimate in connection with evacuation of power at 33KV from upcoming EHV Sub-Station.	4

10	Calculation of Tangible benefits along with Financial Evaluation of Different Projects	67
11	Feasibility study in connection with supply of bulk power at 33 KV.	124
12	Study of overall bay requirement under RDSS, O&M, Bulk & WBEDGMP scheme and compilation of the same and placement to WBSETCL.	
13	Preparation of Perspective Planning report, as sought by CEA 2022-2030	
14	Approval of GA, GTP, Drawings in connection with central purchase, bulk power supply & supply of equipments on turnkey basis.	190
15	Convening meeting of standardization committee,	10
16	Revision/ Finalisation of new Technical Specifications through the standardization committee.	13
17	Attending joint inspection of sites for feasibility study of intending bulk and infrastructure developments.	96
18	Attending joint inspection of site with the engineers of WBSEDCL & WBSETCL for study of feasibility and suitability of land in connection with construction of new EHV Sub-Station.	6
19	Generation of material code for different items/ materials.	95
20	Attending various meetings related to Tender Committees, STC, GTP approval committees, pre-bid etc of Distribution Project Department, Project – II, Project-III and P&C	95
21	Visiting Manufacturer's Premises for inspection and Testing	12
22	Approval of architectural and structural Drawings of GIS CRB submitted by turnkey agency under WBEDGMP	13
23	Preparation of Layout of Different structures like Divisional Store, Zonal Store, Administrative Building, CCC building, Ibetc	13
24	Preparation of Estimate for IB, Administrative Building, Divisional Store	5
25	Design and drawing of different structures like CRB, Administrative Building Zonal Store etc	18

DISTRIBUTION PROJECTS:

Project Implementation Status under Distribution Project Department as on 31.03.2024

A. Implementation of HVDS work under Special Infrastructure Project (SIP)

Name of the Project		Name of the District/Location	Awarded Value (INR in Cr.)	Revised/ Anticipated Project Value (INR in Cr.)	Executed Qty/ Physical Progress of Work as on 31.03.2024	Work Progress (in %) as on 31.03.2024		Financial Progress in FY 2023-24 (INR in Cr.)		Remarks
						Physical	Financial (i.r.o Revised/ Anticipated value)	During FY 23-24	Cumulative up to 31.03.2024	
Special Infrastructure Project (SIP)	Phase-I	Burdwan (East)	95.41	80.74	1. Installation of 25 KVA DTR: 4966 nos. 2. Installation of 63 KVA DTR: 2644 nos. 3. New 11 KV Line with ABC: 418 CKM. 4. New 11 KV Line with ACSR: 1411 CKM. 5. New LT Line with ABC: 2741 CKM. 6. Conversion of LT Line with ABC: 38920 CKM.	100%	100%	7.40	224.93	1. Total Sanctioned Project Cost: INR 2509 Cr.
		Burdwan (West)	80.11	54.71						
		Birbhum,	113.1	89.48						
		Total	288.62	224.93						
	Phase-II	Chandannagar-Serampore-Mogra	197.16	137.18		100%	98.71%	192.95	1624.82	2. The project is 100% funded by GoWB under Special Infrastructure Project (SIP)
		Tarakeswar-Singur	185.89	135.1						
		Arambag	179.54	127.82						
		Ghatal	128.54	99.4						
		Belda	129.01	91.45						

		Midnapur	129.35	97.87						
		Kharagpur	130.65	105.11						
		Barasat	138.00	98.12						
		Basirhat	138.00	104.83						
		Behala	148.98	110.58						
		Jhargram	124.32	90.33						
		Baruipur	147.98	135.75						
		Canning	123.95	91.19						
		Habra- Bongaon	150.92	113.27						
		Kakdwip- Diamond harbour	130.60	108.12						
		Total	2182.89	1646.12						
Total SIP (Phase-I & Phase-II)			2471.51	1871.05		100%	98.86%	200.35	1849.75	

B. Implementation of HVDS work under WBEDGMP

Name of the Project	Name of the District/ Location	Awarded Value (INR in Cr.)	Revised/ Anticipated Project Value (INR in Cr.)	Executed Qty/ Physical Progress of Work as on 31.03.2024	Work Progress (in %) as on 31.03.2024		Financial Progress in FY 2023-24 (INR in Cr.)		Remarks
					Physical	Financial (i.r.o Revised/ Anticipated value)	During FY 23-24	Cumulative up to 31.03.2024	
West Bengal Electricity Distribution Grid Modernization Project (WBEDGMP)	Howrah	54.01	56.18	1. Splitting of 100 KVA DTR: 203 2. Splitting of 63 KVA DTR: 100 3. Conversion of LT Line with ABC: 1020 CKM	100%	65.08%	214.61	511.90	1. The project is executed under West Bengal Electricity Grid Modernization Project (WBEDGMP).
	Purba Medinipur	58.51	52.46	1. Splitting of 100 KVA DTR: 193 2. Splitting of 63 KVA DTR: 139 3. Conversion of LT Line with ABC: 821 CKM	100%				2. The Project is funded through Loan

	Bankura	49.40	42.88	1. Splitting of 100 KVA DTR: 199 2. Splitting of 63 KVA DTR: 107 3. Conversion of LT Line with ABC: 869 CKM	100%				assistance from World Bank (IBRD): 35%, & AIIB: 35% and GoWB: 30% in the form of Equity Share to WBSEDCL. 3. Initial allocation for HVDS part is INR 1080.54 Cr.
	Purulia	50.00	57.53	1. Splitting of 100 KVA DTR: 122 2. Splitting of 63 KVA DTR: 123 3. Conversion of LT Line with ABC: 975 CKM	63.3%				
	Cooch Behar	49.49	50.68	1. Splitting of 100 KVA DTR: 134 2. Splitting of 63 KVA DTR: 112 3. Conversion of LT Line with ABC: 982 CKM	100%				
	Alipurduar	50.53	58.29	1. Splitting of 100 KVA DTR: 107 2. Splitting of 63 KVA DTR: 83 3. Conversion of LT	78.97%				

				Line with ABC: 1018 CKM					
	Malda	59.64	67.83	1. Splitting of 100 KVA DTR: 186 2. Splitting of 63 KVA DTR: 90 3. Conversion of LT Line with ABC: 969 CKM	68.33%				
	Uttar Dinajpur	53.76	52.59	1. Splitting of 100 KVA DTR: 122 2. Splitting of 63 KVA DTR: 190 3. Conversion of LT Line with ABC: 1007 CKM	100%				
	Dakshin Dinajpur	53.76	52.29	1. Splitting of 100 KVA DTR: 183 2. Splitting of 63 KVA DTR: 199 3. Conversion of LT Line with ABC: 903 CKM	100%				
	Nadia	53.72	49.84	1. Splitting of 100 KVA DTR: 92 2. Splitting of 63	62.4%				

				KVA DTR: 75 3. Conversion of LT Line with ABC: 588 CKM				
	Murshidabad	58.81	67.18	1. Splitting of 100 KVA DTR: 113 2. Splitting of 63 KVA DTR: 52 3. Conversion of LT Line with ABC: 649 CKM	66%			
	Jalpaiguri	63.95	81.03	1. Splitting of 100 KVA DTR: 151 2. Splitting of 63 KVA DTR: 138 3. Conversion of LT Line with ABC: 1505 CKM	93.39%			
	Darjeeling (Plain Area)	18.50	22.81	1. Splitting of 100 KVA DTR: 75 2. Splitting of 63 KVA DTR: 42 3. Conversion of LT Line with ABC: 392 CKM	100.0%			

	Darjeeling & Kalimpong (Hill Area)	69.07	75.00	1. Splitting of 100 KVA DTR: 0 2. Splitting of 63 KVA DTR: 0 3. Conversion of LT Line with ABC: 0 CKM	0%				
	Total	743.15	786.59	1. Splitting of 100 KVA DTR: 1880 2. Splitting of 63 KVA DTR: 1450 3. Conversion of LT Line with ABC: 11698 CKM	80%				

All Costs are inclusive of GST

DISTRIBUTION (O&M) PROJECTS : UNDER IMPLEMENTATION AND UPCOMING PROJECT

A. Project under implementation

Sl. No.	Name of Project	Involvement of work	Total Project Cost	Utilization of Fund	Date of Completion/ Target Date of completion
1	SEEDN-Phase-III (Strengthening and Extending Electricity Distribution Networks) (Project funded by Govt. of WB)	Construction of new 33/11 Kv Sub-Station , Drawl of 33KV & 11 KV line, Drawl of LT AB Cable, IT Infrastructure up gradation, Development of permanent infrastructure in the Gangasagar Mela area etc.	Rs 400 Cr	Rs 297.50 Cr	Project in progress. Target Date of Completion - March,2025
2	System Strengthening Work for Distribution Network (Under Financial assistance of RECL)	Construction of new 33/11 Kv Sub-Station, Drawl of 33KV line and other system improvement works	Rs 659.19 Cr	Rs 277.35 Cr	Project in progress. Target Date of Completion - March,2025
3	DSIS (Distribution System Improvement Schemes) (Under Financial assistance of RECL)	Installation of new 33/11 kV Sub-Station, Drawl of new 33KV line , Augmentation of PTR in 33/11KV Substation, Augmentation/ system improvement of 33 kV & 11 kV distribution System.	Rs 125.96 Cr	Rs 58.29 Cr	Project in progress. Target Date of Completion - March,2025

4	New Service Connection (Under Financial assistance of PFCL & RECL)	Effecting Service Connection to 1 ph, 3ph and LT Bulk up to 200 KVA	Rs 1210.04 Cr	Rs 1210.04 Cr	Project completed on 31.03.2024
5	PM Gati Shakti (The scheme for special assistance to States for capital Investment for FY 2022-23)	Special assistance to States for capital Investment for Jaigaon Industrial Park , Jaigaon, Alipurduar and Rubber park, Sankrail, Howrah	Rs 16.48 Cr	Rs 16.48 Cr	Project completed on 31.03.2023
6	SAIP (State Approved Industrial Park) (The scheme for special assistance to States for capital Investment for FY 2022-23)	Drawl of 33&11 KV line along with creation of electrical infrastructure at state approved industrial Park(SAIP) at different locatrions across West Bengal	Rs 170 Cr	Rs 85 Cr	Project value reduced to Rs 85Cr and completed on 31.03.2023
7	SDS (Strengthening of Distribution System) (Under Financial assistance of PFCL)	Installation of new 33/11 kV Sub-Station, Drawl of new 33KV line , Augmentation of PTR in 33/11KV Substation, Augmentation/ system improvement of 33 kV & 11 kV distribution System.	Rs 487.52 Cr	Rs 70 Cr	Project in progress. Target Date of Completion - March,2025
8	Upgradation of IT equipment (Under Financial assistance of RECL)	Purchase of Computer, Printers, scanners, UPS & Battery, furniture & fixtures to support the IT equipment for CCC , Division, Region, Zone and other offices.	Rs 22.61 Cr	Rs 15.99 Cr	Project in progress. Target Date of Completion - March,2025

9	Enhancement of Testing infrastructure under testing unit (Under Financial assistance of PFCL)	Procurement of different testing instruments	Rs 12.06 Cr	Rs 4.98 Cr	Project in progress. Target Date of Completion - March,2025
10	Diversion of HT/LT line , augmentation of conductor, UG Cable laying work, system improvement work for safety etc (The scheme for special assistance to States for capital Investment for FY 2023-24)	System improvement related to safety, diversion of HT/LT line , installation of spaces in LT OH line, installation of craddle guard , augmentation of conductor, UG Cable laying work etc	Rs 110 Cr	Rs 110 Cr	Project completed on 31.03.2024
11	Power Transformer which are overloaded and need augmentation (The scheme for special assistance to States for capital Investment for FY 2023-24)	Augmentation of PTR in 33/11KV Substation	Rs 74.68 Cr	Rs 74.68 Cr	Project completed on 31.03.2024
12	Power Transformer which are overloaded and need augmentation,Phase-II (The scheme for special assistance to States for capital Investment for FY 2023-24)	Augmentation of PTR in 33/11KV Substation	Rs 28.71 Cr	Rs 28.71 Cr	Project completed on 31.03.2024

13	Augmentation / modernization of system by replacing single phase DTR (The scheme for special assistance to States for capital Investment for FY 2023-24)	Conversion of Single phase DTR to Three Phase DTR	Rs 66.31 Cr	Rs 66.31 Cr	Project completed on 31.03.2024
14	Implementation of HVDS work from Distribution wing (The scheme for special assistance to States for capital Investment for FY 2023-24)	Drawl of 11KV line, Installation of DTR, Drawl of LT line by AB Cable	Rs 189.27 Cr	Rs 189.27 Cr	Project completed on 31.03.2024
15	SEIS (Safety Enhancing System Improvement Scheme) (Under Financial assistance of HUDCO)	System improvement of line by providing pole in long span, Resagging, installation of earthing & stayset, installation of cradle guard, LT Kiosk, LT spacers, Augmentation / replacement of conductor, Diversion of line for safety etc	Rs 110 Cr	Work in progress	Target Date of Completion- March,2025
16	CIVIL Building Works (Under Financial assistance of RECL)	Construction of new Administrative building, CCC building,model store, Inspection Bungalow & Residential Staff Quarters	Rs 178.59 Cr	Rs 112.74 Cr	Target Date of Completion - Dec,2024

17	Civil works related to Substation (Under Financial assistance of RECL)	Renovation, Modification, Development of Switch-yard, Extension of CRB & Other allied Civil works related to existing Sub-Stations only.	Rs 117 Cr	Rs 35.35 Cr	Target Date of Completion - May,2025
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B. Future Plan

Sl. No.	Name of Project	Involvement of work	Total Project Cost	Target Date of completion
1	Different works related to overhead and underground HT&LT network for safety & system improvement scheme (The scheme is proposed under special assistance to States for capital Investment for FY 2024-25)	System improvement related to safety, diversion of HT/LT line , installation of spaces in LT OH line, installation of cradle guard , augmentation of conductor, UG Cable laying work, Shifting of Electrical installation from unsafe condition to safe places etc	Rs 115 Cr	Target Date of Completion- 31.03.2025
2	System Improvement work for upgradation of HT & LT distribution (OH/UG) network at Bidhannagar & Newtown area (The scheme is proposed under special assistance to States for capital Investment for FY 2024-25)	Installation of RMU, Conversion of existing OH network into UG cable etc for upgradation of HT & LT distribution network at Bidhannagar & Newtown area in North 24 Parganas District	Rs 75 Cr	Target Date of Completion- 31.03.2025

3	Power evacuation from EHV Grid Substation to enhance power reliability (The scheme is proposed under special assistance to States for capital Investment for FY 2024-25)	Drawl of 33KV line for Power evacuation from EHV Grid Substation	Rs 40 Cr	Target Date of Completion-31.03.2025
4	High Voltage Distribution system (HVDS) work for reliable power (The scheme is proposed under special assistance to States for capital Investment for FY 2024-25)	Drawl of 11KV line, Installation of DTR, Drawl of LT line by AB Cable	Rs 50 Cr	Target Date of Completion-31.03.2025
5	Strengthening and Extending Electricity Distribution Network	High Voltage Distribution system	Rs 50 Cr	Target Date of Completion-31.03.2025
6	Augmentation of Power Transformer in different 33/11kv substation for capacity enhancement (The scheme is proposed under special assistance to States for capital Investment for FY 2024-25)	Augmentation of PTR in 33/11KV Substation	Rs 60 Cr	Target Date of Completion-31.03.2025

**C. SPECIAL PLAN: O&M WORKS (DURING 2024-25) UNDER
DIFFERENT PROJECT-HEADS AS MENTIONED ABOVE**

Sl. No.	Name of Project Work	Involvement of work	Total Project Qty	Target Date of completion
1	Construction of new 33/11 KV Sub-Station	Construction of new 33/11 KV Sub-Station	18 Nos.	Mar-25
2	Development of new 33 KV Line infrastructure	Drawal of new 33 KV Line	690 KM	Mar-25
3	Development of new 11 KV Line infrastructure	Drawal of new 11 KV line to facilitate installation of new DTR to combat the need of increasing load demand	317 KM	Mar-25

D.1 ACHIEVEMENT: DISTRIBUTION PILOT PROJECT

Sl. No.	Name of Project Work	Involvement of work	Total Project Qty	Target Date of completion
1	Remote Distribution Transformer Monitoring	Instaltion of Distribution Transformer (having capacity of 315 KVA) Monitoring Units for remote monitoring of all electrical parameters, physical parameters (Oil & Winding temperature, Oil level) and special parameters (Power-Off alert & Power-Off duration)	4	Project completed on 31.05.2023

D.2. ACHIEVEMENT : O&M WORKS (DURING 2023-24)

Sl. No.	Description of Works	Count
1	New 33/11 KV Sub-stations commissioned	8 Nos.
2	New PTR installed	16 Nos.
3	Augmentation of PTR	40 Nos. (177.85 MVA)
4	New 33 KV Line drawn	333 KM

5	New 11 KV Line drawn	103 KM
6	Conversion of bare conductor to LT AB cable	1200 KM
7	New DTR installed	4,195 Nos.

REPORT OF PROJECT III:

A. Integrated Power Development Scheme (IPDS):

Sl. No.	Scope of Work			Achievement in 23-24	
	Description		Project Cost (Rs. Cr.)	Physical	Financial (Rs. Cr.)
1	New 33/11 KV AIS Sub-station with associated 33KV line	50 nos. (2X10 MVA)	387.64	Already completed	4.71
2	New 33/11 KV GIS Sub-station with associated 33 KV line	10 nos.	79.11		
3	33 KV system augmentation with renovation of existing 33/11 KV sub-station (no. of PTRs)	165 nos.	379.65		
4	Drawal of 11KV line (New & augmentation)	1576 KM	376		
5	Drawal of LT line (New & augmentation)	277 KM	145.72		
6	Drawal of AB Cable	15909 KM	1082.58		
7	Installation of DTR. (New & Augmentation)	8137 Nos.	230.69		
8	Replacement of Meter	786452 Nos.	220.93		
9	Installation of Roof top Solar panel	4210 KWp	39.1968		

B. Special infrastructure Projects (SIP) of Krishnanagar & Chinsurah:

SL. No.	Scope of Work		Achievement in 23-24(in%)
	Description	Project Cost (Rs. Cr.)	
1	Conversion of OH network to UG cable network for Krishnanagar Town	120	Already Completed

2	Conversion of OH network to UG cable network for Chinsurah Town	170	Already completed
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C. West Bengal Grid modernisation Projects (World Bank)

C1: Conversion of O.H. to U.G Network for Baruipur, Rajarhat, Baguihati- Kestopur, Asansol, Kharagpur, Chandannagar & Siliguri.

Sl. No.	Scope of Work				Achievement in 23-24 (in %)	Remarks (Unit in KM)
	Name of Town	District / Region	Project Cost (Rs. Cr.)	LOA / Revised BOQ Scope (KM)		
1	BARUIPUR	South 24 PGS	125.57	392.454	59.81	33 KV-55.360 11 KV-151.747 LT-185.347
2	RAJARHAT	North 24 PGS/Bidhannagar	107.51	231.67	90.12	33 KV-5.5 11 KV-143.903 LT-82
3	BAGUIHATI & KESTOPUR	North 24 PGS/Bidhannagar	143.03	511.693	69.71	33 KV-6.956 11 KV-247.862 LT-256.875
4	KHARAGPUR	West Medinipur	190.55	400.061	73.91	33 KV-49.017 11 KV-275.442 LT-75.602
5	ASANSOI-I	West Burdwan	153.38	451.360	58.74	33 KV-24.849

						11 KV- 302.712 LT- 123.799
6	ASANSOI-II		162.02	445.496	50.88	33 KV- 18.451 11 KV- 290.556 LT- 136.489
7	CHANDANNAGAR	Hooghly	100.16	222.902	50.12	33 KV- 26.455 11 KV- 114.447 LT- 75.602
8	SILIGURI	Darjeeling	218.00	561.64	5.00	33 KV-15 11 KV- 263.79 LT- 283.6
Total			1200.22	3217.276		

C2 : Conversion of 33/11 KV Gas Insulated Sub station (GIS) along with associated 33KV & 11 KV lines.

Scope of Work					Achievement in
Sl. No.	Description		District / Region	Project Cost (Rs. Cr.)	23-24 (in %)
	Name of GIS	Capacity			
1	Sonapur	(2 x 10 MVA)	Alipurduar	27.58	100
2	Barovisa	(2 x 10 MVA)			100
3	Choprajhar	(2 x 10 MVA)	Uttar Dinajpur	24.98	35
4	Maligaon	(2 x 10 MVA)	Dakshin Dinajpur		36
5	Dongalon	(2 x 10 MVA)			52

6	Radhanagar	(2 x 10 MVA)	Bankura	17.55	50
7	Junpur	(2 x 10 MVA)	Purba Medinipur	30.18	41
8	New Digha	(2 x 10 MVA)			42
9	Berubari	(2 x 10 MVA)	Jalpaiguri	22.16	42
10	Meteli	(2 x 6.3 MVA)			42
11	Domjur	(2 x 10 MVA)	Howrah	19.85	95
12	EPC	(2 x 10 MVA)			98
13	Shantipur	(2 x 10 MVA)	Nadia	41.07	32
14	Mongalbari	(2 x 10 MVA)	Malda		33
15	Cossimbazar	(2 x 10 MVA)	Murshidabad		31
Total				183.38	

GENERATION - HYDEL:

A. *Running Hydro-electric Power Stations:*

Installed capacity (MW)		: 1075.10 MW
1.	Purulia Pumped Storage Project	: 4 x 225 MW (900 MW)
2.	Teesta Canal Fall Hydel Project	: 3 x 3 x 7.5 MW (67.5 MW)
3.	Rammam Hydel Project, Stage-II	: 4 x 12.75 MW (51 MW)
4.	Jaldhaka Hydel Project, Stage-I	: 4 x 9 MW (36MW)
5.	Jaldhaka Hydel Project, Stage-II	: 2 x 4 MW (8 MW)
6.	Massanjore Hydel Project	: 2 x 2 MW (4 MW)
7.	Mini-Micro Hydro-electric Power Project	
(i)	Sidrapong Hydel Project	: 2 x 0.2 MW (0.4 MW)
(ii)	Fazi Hydel Project	: 1 x 1.2 MW (1.2 MW)
(iii)	Rinchington Hydel Project	: 2 x 1 MW (2 MW)
(iv)	Little Rangit Hydel Project	: 2 x 1 MW (2 MW)
(v)	MungpooKalikhola Hydel Project	: 3 x 1 MW (3 MW)

B. Hydro power generation including generation of PPSP:

Generation of power during 2021-2022: 1735.516 MU

Generation of power during 2022-2023: 2156.603MU

Generation of power during 2023-2024: 1849.68 MU

C. Generation Highlights :

Generation from PPSP in 2023-24 : 1366.94MU

Generation from Conventional HEPs in 2023-24 : 482.74 MU

Break-up of generation from Hydro-electric Power Stations in 2023-24:

Name of the Power Stations	Generation achieved in 2023-24
Purulia Pumped Storage Project	1366.94MU
Rammam HP, Stage-II	167.73 MU
Jaldhaka HP	166.23 MU
Teesta Canal Fall HP	118.74 MU
Small HEPs	25.62 MU
Massanjore HP	4.42 MU
Total	1849.68 MU

D. Activities of Purulia Pumped Storage Project (PPSP):

Purulia Pumped Storage Project is a unique hydro electric project (4x225MW) runs out of recycling of water by simultaneous pumping and generating operations between two reservoirs at different altitude for supply of peak / emergency electric demand. The total expenditure met up to 31 March 2024 is Rs 2477.06 Cr including IDC for construction of the project. The final project construction cost including IDC likely to be around Rs 2491 Cr. All four units were synchronized as per schedule in 2007 phase wise on 13.07.2007(Unit # 4), 15.08.2007 (Unit # 3), 09.11.2007 (Unit # 2) and 17.12.2007 (Unit # 1). The position of electric supply in West Bengal has improved after commissioning of PPSP to a great extent.

Progress & Achievements during 2023-24:

- Total Generation= 1366.94 MU (as per WBSEDCL system requirement) against CEA target of 1200MU
- Average Cycle Efficiency achieved = 77.74% against design cycle efficiency of 75.5%
- Average Plant availability factor achieved = 91.88%.
- Repair and restoration of runner wearing ring of Unit # 1.



(Unit 1 Overhauling)





(Unit 1 Overhauling)

- Three nos. Generator Circuit Breaker has been overhauled.



(GCB Overhauling)

- Order for procurement of 288 nos. Stator Coil has been placed.

- Augmentation and renovation of PPSP 33/11 KV Sub-Station to provide construction power for Turga PSP have commenced.
- Construction of Barbed Wire Fencing around Dulgubera rock Quarry, maintenance works of different civil structures, plant & machinery, A/C plant and old guest house etc is in progress.
- Out of revised revenue budget estimate of Rs 52.74 crore (FY 2023-24) expenditure incurred Rs 33.82 crore.

E. Activities of Running Conventional Hydro Electric Power Stations:

Major Works undertaken during 2023-24:

➤ **Rammam Hydel Project, Stage-II:**

- Overall generation of 167.7353 MU has been achieved in 2023-24 against CEA's target of 153.91 MU.
- Work of Overhauling of Unit-III has been completed by M/s BHEL.
- Order for Overhauling of Unit-IV has been placed on M/s BHEL.



(overhauling of Unit 3 at RHP-II)

- Order for supply of Overhauling spares of Unit-I & Unit-IV has been placed on M/s BHEL.
- On 17.06.2023, a flash flood occurred at Rammam Intake. The damage was of massive scale and the generation was affected. On war footing, the restoration work (Silt cleaning at De-silting chamber, at Duct, at Silt Excluder Valve, at Pebble Excluder Gate) was completed before commencement of Puja.



(Behind Power House: Before & After)



(Behind Switchyard: Before & After)

- Severely damaged protection wall due to occurrence of flash flood behind the Power House & Switch-yard have been restored.
- Repairing work of Diversion structures (Trash Rack, Drop-type Weir) is in progress & it is expected to be completed by April'2024.



(Repairing work going on at Diversion Structure & Trash Rack)

- Repairing of Service Gate has been completed and it is now in functioning properly.
- Panchayat Jhora road construction work towards Rammam intake is in progress and the work is expected to be completed by March'2025.
- Revised Design works for stabilisation of Panchayat Jhora has been taken up through IIT Delhi.
- Renovation of Field Hostel (at IB Complex) has been completed on March'2024 and Renovation of Field Hosted-D (at Lodhoma Colony) is in progress & it is expected to be completed by June'2024.
- Renovation work of Inspection Bungalow at Rammam Hydel Project, St.-II is in progress & it is expected to be completed by October'2024.

➤ **Jaldhaka Hydel Project (Stage – I & Stage-II):**

- The total generation achieved by JHP-I and JHP-II during the financial year 2023-24 is 166.230 MU.
- Supply & delivery of mandatory spares for Units of Stage-I Power House was completed on 31.08.2023.
- The Order for undertaking Mid-term maintenance of Unit-1 of Stage-I Power House has been placed and the work is under progress (expected to be completed within 31st May'2024).
- The Work of Overhauling & Maintenance of Unit-1 of stage-II Power House was completed on 12.08.2023 and the unit is running with full capacity.



(Overhauling of Unit 1 at JHP-II)

- The Order for Supply & delivery of spare runner for Stage-II Power House has been placed and the work is under progress (Inspection of the runner will be done very shortly).
- The work of Supply, Delivery, Installation & Commissioning of LAVT Panel for Stage-II Power House was completed on 14.01.2024.



(LAVT panel at JHP St-II)

- The order for supply and delivery of 120 HP CW Pump of Stage-I JHP has been placed to and the work is under process.
- The supply and delivery of different types of RTD & DTT for Stage-I JHP was completed on 10.11.2023.
- Supply and delivery of Digital Insulation Tester was completed on 04.05.2023.
- Construction of the left bank approach way of Bindu Barrage, Construction of Sill beam of

spillway Gate no. 1 of Bindu Barrage & Painting of Bindu Barrage complex have been completed.

- Sealing of expansion joint of Bindu khola open channel and underground desilting chamber has been done.
- Repairing work of the tunnel has been carried out.
- M/s Wapcos Ltd have submitted draft DPR/Detailed Rehabilitation Report Bindu barrage for furnishing comments of WBSEDCL. WBSEDCL have already furnished comments for incorporation in the Draft.

➤ **Teesta Canal Fall Hydel Project:**

- The total generation achieved by Teesta Canal Fall PS-I, PS-II & PS-III combined during the financial year 2023-24 is 118.74 MU
- Successful commissioning of two (02) Nos. of 50 MVA 132/33 Transformers at a cost of Rs 8.91 Crore has been done at Teesta Canal Fall Hydel Project for better catering the growing demand of Power.
- Successful commissioning of DIGITAL GOVERNORs in 3 units has been done at Teesta Canal Fall Hydel Project at cost of Rs. 3.95 Crore.
- Successful commissioning of 20 MVA 132/33 KV transformers at Teesta Canal Fall Hydel Project, Power Station-II with Order Value of Rs. 9.84 Lakhs has been done at Teesta Canal Fall Hydel Project for better catering the growing demand of Power.
- Face-lifting work of Administrative Building of Teesta Canal Fall Hydel Project with order value of Rs. 40.14 Lakh has been completed.



(Administrative building of Teesta Canal Fall Hydel Project)

➤ **Mini-Micro Hydel Power Station:**

- The total generation achieved by Mini Micro Hydel Division during the financial year 2023-24 is 25.62 MU.
- Refurbishment of road from Sepoydhura to Fazi at Fazi hydel power station completed during this financial year with total project cost of Rs.122.90 lakhs.
- Work of extension of Forebay spillway at MungpooKalikhola Hydel Power Station has been completed on 28.05.2023 with total project cost of Rs.92.76 Lakhs.



(Extension of Forebay spillway at MungpooKalikhola Hydel Power)

- Work of construction of first ever hydro museum at Sidrapong Hydel Power Station is under progress with an estimated amount of Rs.67 lakhs.



(Under Construction of Sidrapong Museum)

- Refurbishment of bituminous road of approximately 7.5 Km at Sidrapong Hydel Project was completed.



(Refurbishment of Bituminous Road at Sidrapong Hydel Project)

➤ **Massanjore Hydel Power Station**

- Massanjore Hydel Power Station at the base of Canada Dam across Mayurakshi river was commissioned on 16th Dec 1956 in the Dumka District of Jharkhand.
- Massanjore Hydel Power Station was renovated and re-commissioned in June 2011.
- It feeds power to Suri in Birbhum District of West Bengal.
- Generation Achieved for the period 2023-24: 4.42MU.
- Plant availability factor is 100%. But its Generation depends on the release of water from Canada Dam by Irrigation & Water Ways Dept.
- Regular maintenance is carried out to achieve desired level of performance.
- Overhauling of one Unit is to be taken up during FY 2024-25.

F. Status of Projects under Implementation:

I. Pumped Storage Projects

To enhance the Hydro power capacity/ Pumped Storage generation capacity in West Bengal, the following projects have been taken up for Implementation.

■ **Turga Pumped Storage Project, Ajodhya Hills, dist. Purulia :1000 MW**

❖ **Status:**

- Major Survey & Investigation Complete
- CEA Concurred the DPR in October 2016. Revalidation of concurrence by CEA upto 04.10.2022 vide no. 2/WB/22/CEA/2013-PAC/1104 dated 07.11.2019.
Further revalidated upto 04.10.2024 vide File no. CEA-SY-25-30/1/2019- PAC Division dated 04.11.2022
- Stage – I & II Forest Clearance obtained from MoEF&CC, Govt. of India on 12.04.2018 & 13.10.2022 respectively
- Against 578.22 Acres of land required for Compensatory Afforestation purpose, 578.22 Acres of Non-forest Govt. land has already transferred, mutated and notified in favour of Forest Department for Protected Forest.
- In compliance of the Stage-I Forest Clearance (In-principle approval) WBSEDCL has deposited the amount Rs. 107,53,79,646/- for the following work:
- ‘Tree felling, Boundary Pillar Installation work etc for diversion of 234 Ha Forest Land
- Net Present Value, Catchment Area Treatment (CAT) Plan for 234 Ha of forest land proposed for diversion and Compensatory Afforestation, Soil Moisture

Conservation(SMC) Work and Demarcation & erection of Boundary Pillar/ Infrastructure for CA Protection of 208.62 Ha of CA Land

- Implementation of Wildlife Conservation Plan for Construction of 1000 MW Turga PSP
- Compensatory Afforestation, SMC work, Boundary Demarcation of balance 25.39 Ha CA Land in Block Salboni, Paschim Midnapore, West Bengal
- Environmental Clearance obtained from MoEF&CC, Govt. of India on July 2018.
- Cabinet Approval for the Project accorded on May 2017 and approval for estimated Project cost of Rs. 6921.90 Crore accorded on September 2018.
- Project funding: JICA Loan - 81018 Million JPY (Rs. 5001.1) Crore and Govt. of West Bengal Equity - Rs. 1920.80 Crore.
- Loan agreement for 1st Tranche Loan amounting to 29442 Million JPY (Rs. 1817.4) Crore has been signed on 02nd November 2018 and effectuated on 05th April 2019.
- EPDC (J-Power), Japan has been engaged as Foreign Consultant for providing Project Management Consultancy (PMC) Services on 09th September 2021. Commencement of Services started w.e.f. 06th December 2021
- WAPCOS limited as Local Consultant has been engaged for Phase III Supervision Activities on 17th September 2021
- ‘In-principle’ clearance i.r.o Investment approval for Installation & Commissioning of 1000MW Turga PSP obtained from WBERC on 27.09.2021
- Detailed Design & Engineering Activity and Preparation of Tender documents by Local Consultant and Foreign Consultant are in progress.
- Provisional Mining lease for four nos. Rock Quarry areas namely TurgaNala (3.15 Ha), HadhadiNala (7.11 Ha), Kudna (8.32 Ha) &Dulgubera (0.02 Ha) has been obtained on 27.06.2022.

Obtained approval for Mining Plan and Mine Closure Plan from Chief Mining Officer, GoWB on 02.05.2023.

- ‘In-principle’ approval of budgetary support (Rs. 52.30 Cr.) for enabling infrastructure works of Turga PSP obtained on 23.11.2022 from MoP, GoI,
- Total Amount Rs 45,49,838.00 Spent for LADP work i.e.
 - Rs. 10,00,000.00 for Various Infrastructure Work and Local Area Development Programme in the Ajodhya Hill Area (FY 2022 – 23)
 - Rs. 4,00,000.00 for Providing Sports Equipment (FY 2023 -24).

- Rs. 31,49,838.00 for Installation of 09 (nine) numbers of Solar Based Tube Wells for Drinking Water at Upper Dam area (FY 2023 – 24)
- Process for Demarcation and tree felling of the project area by Forest Deptt has started.
- Work for 2nos. 4-story Officers Field Hostel within PPSP Township and Renovation of PPSP Administrative building for Turga PSP Site office are in progress.
- Order Placed for construction of Project Road and Main Access Tunnel
- L&LR and RR&R Department issued IDT order for transfer of 18.62 Acres of land in favour of Power Department, GoWB. The land measuring 18.62 Acres was handed over to Power Department, GoWB on 16.08.2023 by BL&LRO, Bagmundi. Permissive possession of the said land was given to WBSEDCL on 29.08.23 for implementation of 1000 MW Turga PSP.
- Partial site of Reach-I portion i.e. RD-0.00 to RD-578.00 was handed over to the agency on 16.08.2023 for Construction of Project Road including Ancillary Structures and Main Access Tunnel (MAT) including Power House Adit.
- PQ Application against 2nd Call for Package 1 (Main Civil Works) was opened on 04.03.2024 and PQ Evaluation is in progress.
- Pre-Qualification (PQ) Invitation for the work of Electro-Mechanical Equipment (Generating Equipment) (Package 3A) was floated on website on 05.01.2024 and Pre-Application meeting was held.
- Pre-Qualification (PQ) Invitation for Package 2(Hydro-Mechanical) was floated on website on 08.03.2024.
- PQ Document preparation for Package 3B: Electro-Mechanical Equipment (Substation Equipment) is under process

■ **Kulbera PSP & Kathlajal PSP**

❖ **Status**

- WAPCOS Ltd was awarded with the work of Preparation of Pre-Feasibility Report (PFR) for Kulbera PSP &Kathlajal PSP on 07.09.2022.
- WAPCOS submitted Draft PFR for Kulbera PSP &Kathlajal PSP to WBSEDCL for their observations on 06.01.2023
- WAPCOS submitted the final PFRs after incorporating the observation of WBSEDCL.

■ **Bandu Pumped Storage Project, Ajodhya Hills, dist. Purulia :900 MW**

❖ **Status:**

- PFR completed.
- PFR updated as per current price level as because the validity of the 1st Stage TOR has been expired on 19.03.2023. & further application for obtaining fresh ToR is under process.
- Work for Discharge measurement is in progress at site.
- Preparation of EOI is under progress i.r.t engagement of Consultant towards preparation of the DPR.

II. Conventional Hydroelectric Projects

■ **Lodhama-II Small Hydro-electric Project (10 MW) on Lodhama River, near Lodhama village, Rammam, Darjeeling District:**

❖ **Status :**

- The revised project cost of Rs. 94.60 Cr. was approved by the Board of Directors of WBSEDCL in its BOD meeting no. 102 held on 23.12.2021.
- Rs. 4.28 Cr. paid to Land Acquisition Collector, Darjeeling. For acquiring of 7.148 acre of Private Land.
- Project Funding: Rs. 90.06 Cr. (Revised Project Cost excluding land cost) has been asked from NABARD and out of which NABARD has sanctioned the loan value of Rs. 83.0358 Cr.
- LoA placed on turn-key (EPC mode) basis for development of the Project on 10.11.2022.
- Work started at site by the agency but the same has been suspended due to resistance from Local People from April, 2023.
- Design & Engineering work along with submission of Drawing is in progress.

■ **Rammam Intermediate Stage Hydro-electric Project : 12 MW**

❖ **Status:**

- As per the accepted “Teesta Basin Study in West Bengal”, by the MoEF& CC, GoI, the project layout was reviewed to ascertain availability of minimum free stretch from both upstream and downstream projects and found the project is not viable.

- As per 117th meeting of BOD, WBSEDCL held on 10.11.2023, **the project has been dropped.**

III. Solar Dome at Eco Park, Newtown, Kolkata

❖ Status

- Solar Dome (46m dia& 27m high & 180 KW_P Capacity, truncated geodetic Dome with Solar Panel, a renewable energy exhibit to increase public awareness) has been completed by WBSEDCL as a deposit work of WBHIDCO. The Project is handed over to WBHIDCO.
- WBSEDCL has successfully completed one year's O&M work.

G. *Projects under Survey & Investigation*

- I. To enhance the Hydro power capacity in West Bengal, the following projects have been taken up for Development:

- **Teesta Intermediate Stage Hydro Electric Project (90MW)** on Teesta River near Village-Kirney, Kalimpong District:

❖ Status:

- In-Principle Approval for PFR followed by 1st Stage ToR clearance has already been approved.
- Pre-DPR Chapters submitted to Appraisal Agencies (CEA, CWC, GSI, CSMRS etc.) for clearance for which:
 - Clearance obtained i.r.o Run of the River (R-O-R) aspects.
 - Clearance obtained i.r.o International aspects.
 - Clearance obtained i.r.t Hydrological aspects.
 - Clearance obtained i.r.t Inter-state aspects.
- Layout finalized by appraising authority in 1st consultation meeting held on 10.05.2023.
- MASW survey (i.r.o site specific seismic study) carried out by ISR, Govt. of Gujarat in the month of January 2024. Report is awaited.
- GLOF study is going on at Teesta-Rangit-Rammam Basin by National Institute of Hydrology (NIH), IIT, Roorkee. Report is awaited.

- Land Revenue maps under Payong block & South Sikkim area have been collected and forwarded to the Consultant for demarcation of the project land etc.
- In the Review Meeting held on 29.02.2024, conducted by Member (Hydro), CEA Clearance obtained on choice the Bulb turbine over Kaplan turbine from HE&TD Division of CEA.
- **Teesta Low Dam I & II (combined) Hydro Electric Project (71 MW)** on Bari Rangit River (a tributary to river Teesta) near village -Teesta Bazar, Darjeeling District:
 - ❖ **Status:**
 - In-Principle Approval of PFR accorded by the Department of Power, Govt. of West Bengal.
 - EAC of MoEF& CC, GoI did not recommend the project for 1st Stage ToR clearance in their 31st meeting.
 - Letter was issued to the Member Secretary (EAC), MoEF& CC for reconsideration towards grant of 1st Stage ToR clearance on 21.11.2022. Reply is awaited.
- **Teesta Low Dam - V Hydro Electric Project (60 MW)** on river Teesta near village - Sevoke Bazar, Darjeeling District.
 - ❖ **Status:**
 - PFR prepared and submitted to the Department of Power, Govt. of West Bengal for approval and is under process.
 - The GSI team has carried out geological logging of the 7 drill holes of TLDP V HEP having cumulative length of 191 m at Siliguri.
- **Rammam Stage - I Hydro Electric Project (48 MW)** on river Rammam, Shri Khola&ParthamKhola in village-Daragaon, Darjeeling District:
 - ❖ **Status:**
 - PFR prepared and submitted to the Department of Power, Govt. of West Bengal for approval and it is under process.
 - Officials of GSI conducted site visit from 22.11.2023 to 29.11.2023 to finalize the layout of the proposed project. Based on their observations Revised Layout plan submitted to GSI on 16.01.2024 for approval. Report is awaited.

- **Balason Hydro-electric Project (38 MW)** on Balason & Rangbong River, near Dhajia village, Darjeeling District:

❖ **Status:**

- PFR is completed and In-Principle Approval accorded by the Department of Power, Govt. of West Bengal.
- 1st Stage ToR clearance from the reconstituted State Level Expert Appraisal Committee, West Bengal is obtained.
- Work for Discharge measurement is in progress.
- DPR prepared and submitted to the Department of Power, Govt. of West Bengal for approval.

- **Balawas & Chota Rangit Hydro-electric Project (18 MW)** on Balawas and Chota Rangit River, Bijon Bari, Darjeeling District:

❖ **Status:**

- In-Principle Approval has been accorded by Department of Power, Govt. of West Bengal.
- DPR was placed to the PAC, DoP, GoWB on 22.04.2022 & committee opined that project is viable & suggested that In-principle approval of DPR may be considered for tariff based bidding.
- Draft request for Qualification (RFQ) document has been placed to HPC on 15.06.2023. The modality of Tariff based Bidding process would be finalized in next meeting of Project Appraisal Committee, DoP, GoWB.
- Classification of Project land has been assessed and ownership status has been collected from BL&LRO, Darjeeling-Pulbazaar Block and the same has been forwarded to Department of Power, Govt. of West Bengal and is under process. Process for resumption of the Tea Garden land has been taken up by Darjeeling L&LR Department.
- The discharge measurement could not be started due huge local protest and further processing of land has been also stalled due to local protest.
- Geotechnical Investigation work was completed.

H. Projects allotted to Private Developers:

- **Chel - I (7.5MW) & Chel – II (6MW) Hydro-electric Project** on ChelKhola, near Gorubathan, Kalimpong District:

❖ **Status :**

- In-Principle Approval of both Projects was accorded by Department of Power, Govt. of West Bengal.
- DPR of Chel - I (7.5 MW) and Chel - II (6.0 MW) SHP prepared by Developer and placed before Committee of Renewable Project Appraisal, WBSEDCL for appraisal.
- The finalization of tariff for the above mentioned both projects with the Developers through Power Purchase Committee of WBSEDCL is in progress.

GENERATION – SOLAR

SOLAR POWER GENERATION DEPARTMENT:

WBSEDCL has already installed cumulative capacity of 126.34 MW Solar Power Plants i.e. (113.8 MW Ground Mounted + 12.54 MW Rooftop) in different districts of West Bengal and Total cumulative Solar Power generation is 596.21 MU as on 31.03.2024.

Progress / Achievement FY 2023 – 24

Sl. No.	Name of the Project	Remarks
1	10 MW Solar PV Project at Koltaldih(Ph – I), Asansol, Burdwan district, West Bengal	Out of 10 MW, Partially 3.8 MW has been charged. Balance 6.2 MW would be commissioned in FY 2024-25.
2	112.5 MW Solar Project at Goaltore in Paschim Medinipur District, West Bengal	70 % work has been completed as on March 2024. 112.5 MW Plant would be commissioned in FY 2024-25
3	10 MW Floating Solar Power at PPSP Uppar Dam in Purulia District, West Bengal	30 % work has been completed as on March 2024. 10 MW Plant would be commissioned in FY 2024-25
4	2 Nos. 10 MW Solar Power Plant at Mouza- Gangapur (Ph –I) & (Ph-II), Rajangar, Birbhum	EPC Tender Process, Technical & Financial Bid evaluation has already been completed.

		Letter of Award (LOA) would be placed in FY 2024-25 if funding is confirmed by State Govt.
5	420 kWp Rooftop Solar at different Establishment of Kolkata Municipal Corporation	100% work has been completed.
6	Rooftop 10 MW Grid Connected SPV Project (RTS Phase – II) of MNRE Scheme for Residential Rooftop Solar PV Power Plant in West Bengal	Rooftop 10 MW Grid Connected SPV Project (RTS Phase – II) of MNRE Scheme has now been subsumed in PM – Surya Ghar Yajna for which new applications are being received at National Portal from 13.02.2024 for WBSEDCL also.
7	10 MW Solar PV Power Project at Mouza – Pansuri at Khayrasole Block, Birbhum	2 Nos. Govt. vested Land has been identified at Khayrasole Block & Dubrajpur Block in Birbhum District Land availability report for Solar Project has already been received from ADM & DLLRO, Birbhum. DPR would be prepared in FY 2024-25
8	10 MW Solar PV Power Project at Mouza – Manirampur at Dubrajpur Block, Birbhum	

Solar Power Generated in FY 2023-24

Sl. No.	Descriptions	Generation (MU)
1	Ground Mounted Solar Plants generated Power for the FY 2023-24	122.47
2	Roof top Solar Plants generated Power for the FY 2023-24	25.04
TOTAL		147.51

HUMAN RESOURCE:

Corporate HRD & Training /Performance Management Department 2023-2024

HRD and training department of WBSEDCL is devoted for skill and knowledge development of the employees of the organization. It helps employees in the field of career development, Conceptual development of the job and improved behavioural practices within the organization and overall organizational development to improve individual and organizational effectiveness as a whole. HRD believes in the limitless potential of human beings. It is a process of helping people to acquire optimum competencies in their respective domain.

In WBSEDCL, training is being conducted through Company's own Training Institute i.e EETI,s /KJTC located at Tribeni/New Town/Burdwan /Behrampore / Coochbehar / Kharagpur / Malda / Siliguri / Kalyani and Head Quarter at (Vidyut Bhavan)by internal and empanelled external faculties of WBSEDCL as well as through other reputed institutions like CPRI-Bangalore, XLRI –Jamshedpur etc.

Further programs have been designed for Mid Senior Level and Senior Level Employees in order to well equip them with challenging needs in changing time. MDP programmes are being organised by HRDD at HQ as well as at all EETIs through eminent empanelled external faculties all the year round to enhance skill and to improve behavioural efficiency of the employees.

Disaster Management Training Programmes are also being conducted time to time by reputed External Agencies at different locations under WBSEDCL's hilly territory, apart from PPSP sites, as well as at plains in order to enable employees to be better able to tackle situations if they face actual disaster.

A. WBSEDCL also has taken initiatives to provide Safety and Technical Training to its Contractual Workers at its Training Centres at Kolkata, Burdwan, Tribeni, Behrampore, Kharagpur, Coochbehar, Malda, Siliguri and KJTC- Kalyani under HRD & Training Department for better performance as well as to enhance their skills and to ensure safe working habits and also to increase the safety awareness.

WBSEDCL is regularly complying with the statutory requirements by inducting both the Graduate Engineers and Diploma Engineers as per Apprenticeship Act, 1961. These Apprentices

are inducted through NATS Portal under BoPT (Board of Practical Training). These Graduate Engineers/ Diploma Engineers are trained at Different Locations/Units of our Company.

HRDD also imparts Vocational Training and Internship Training to the Engineering students and Management students of Finance/HR/IT/Legal discipline of different Technical and Management Institutes across the state. In the year 2023-24 we had imparted Training to 720 students of different Engineering Colleges and Universities and Management Institute.

Computer Training Programme (Basic and Advanced Level including Cyber Security and E-Tender Procedure) are being conducted by external M/s ACES Infotech Pvt. Ltd. Total 1061 employees have been trained in the year 2023-24. Corporate Training programme on Artificial Intelligence and Machine Learning (AI & ML) has also conducted by NIELIT, DoE, Govt. Of India, for the IT&C engineers of WBSedCL.

Officials had attended different types of External Training Programmes conducted by different Training Partners like CBIP, ICC, RECIPM, NAHRD, USAID/ESCI/ASCI, NPTI(Faridabad) etc. both OFFLINE and ONLINE.

Apart from the above, HRD & TRG Dept is continuously striving for creating an atmosphere of learning in the organisation for better performance by all.

Target Vs Achievement for FY 2023-24 i.r.o Training (both Internal and External)

2023-2024 (Target Participants) (Nos.)	2023- 2024 (Achievement Participants) (Nos.)	2024- 2025 (Target Participants) (Nos.)
Class-I- 1530	Class-I-949	Class-I- 1000
Class-II- 480	Class-II-602	Class-II- 700
Class-III & IV- 3110	Class-III & IV-3713	Class-III & IV- 3500
Others*- 5125	Others*- 2874	Others*- 4000
Total- 10245	Total- 8138	Total- 9200

*Others include training to Contractors' Employees and Vocational /Internship Training etc.

<u>Achievements of HRD & TRG Dept. from 01.04.2023 to 31.03.2024</u>													
Sl. No.	EETI/Training Centre under HRDD	No. of Employees/Contractor's Workers attended Trainings									Others (Nos.)	Total No. of Participants	Remarks
		Class - I		Class - II		Class -III		Class- IV		Contractor's Workers			
		Tech. Employee	Non Tech. Employee	Tech. Employee	Non Tech. Employee	Tech. Employee	Non Tech. Employee	Tech. Employee	Non Tech. Employee	Technical with Safety Training			
1	Internal Training at Vidyut Bhavan & other Offices under WBSEDCL	187	56	45	30	21	104	0	0	0	0	443	-
2	EETI -Burdwan	102	2	77	23	176	450	69	26	483	0	1408	-
3	EETI -Kharagpur	128	30	43	6	165	296	62	47	426	0	1203	-
4	EETI -Tribeni	29	6	156	11	22	131	220	0	154	0	729	-
5	EETI -Berhampore	61	0	32	2	78	214	69	41	327	0	824	-
6	EETI -Kolkata	50	0	65	11	150	323	55	44	107	0	805	-
7	EETI -Malda	26	15	24	2	10	4	10	0	353	0	444	-
8	EETI -Siliguri	21	6	3	1	26	29	0	0	45	63	194	-
9	EETI - Coochbehar	11	0	5	3	36	147	15	5	196	0	418	-
10	KJTC- Kalyani	0	0	63	0	148	391	119	10	0	0	731	-
11	Induction /Orientation Training at CPRI- Bangalore & XLRI- Jamshedpur	44	20	0	0	0	0	0	0	0	0	64	-

12	External training by different Training Partners- AIPM- CESC,National Productivity Council(NPC),NPTI Faridabad,RDSS-PFC,CEC,CISO,MOP, PGCIL,National Centre for Law and Administration,NPTI-NER Guwahati,NPTI-Shivpuri,PFC,The Institute of Internal Auditors India Calcutta Chapter,The Institute of Company Secretaries of India,REC Institute of Power Management & Training,ICC, Indian Institute of Social Welfare & Business,National Centre for earthquake safety of Dams(NCESD),MNIT	148	7	0	0	0	0	0	0	0	0	155	-
14	Vocational /Internship Training of B.Tech, Diploma, ITI, BCA, BBA, MBA students of differnt colleges/Institutions.	0	0	0	0	0	0	0	0	0	720	720	-
TOTAL		807	142	513	89	832	2089	619	173	2091	783	8138	-

Performance Management System:

WBSEDCL has introduced online PARs/SARs system for Class I officials through ERP portal w.e.f FY 2020-21 and Class II and Class III officials w.e.f FY 2022-23, replacing existing system of submission of hard copies of PARs/SARs which were prevalent beforehand.

The system has enabled compilation of the Grade Points and subsequent submission to the appropriate authorities as and when required instantly as well as to maintain such information electronically by doing away with the maintenance of manual system.

HRD Department is discharging an instrumental role in ensuring smooth implementation and functioning of the system through sequential steps like solving of queries successfully, calculation of online submitted PAR and completion of data processing.

The system ensures 100% timely submission of PARs/SARs of all above officials, calculate and compile the Grade Points and subsequent submission to the respective authorities, as and when required. Furthermore, the system ensures preservation of data confidentiality and its disclosure as and when required for the purpose of promotion and other compliances.

CORPORATE HR DEPARTMENT:**Induction of Class-I, II & III Posts during the year 2023–24**

Class-I					Class-II	Class-III		Total
AE (Mech.)	AE (IT&C)	AE (Civil)	AE (Elec.)	AM (HR&A)	Jr. Exe. (Fin.)	OE	JOT cum TA	
-	-	-	-	-	-	148	29	177

Contractual engagement during the year 2023–24

Category					
Security and S&LP Wing	Land Wing	Legal Wing	Pvt. Secretary	Others	Total
34	09	02	26	41	112

Deceased dependent recruitment during the year 2023–24

Category	Class-III	Class-IV	Total
Technical	2	25	27

Non-Technical	4	27	31
Total Employment			58

Promotion of the Technical & Non-Technical employees during the year 2023–24

	Technical	Non-Technical	Total
Class-I	181	49	230
Class-II to Class-I	47	12	59
Class-II, III & IV	362	291	653
Total			942

Promotion beyond CPS of Class-I (Technical) during the year 2023–24

Sl. No.	Promotion in Cadre	Order Issued
1.	Addl. Chief Engineer to Chief Engineer	8
2.	SE/Dy. CE to Addl. Chief Engineer	12
3.	DE (E) to SE (E)	0
4.	DE (C) to SE (C)	0
Total		20

Promotion beyond CPS of Class-I (Non-Technical) during the year 2023–24

Sl. No.	Promotion in Cadre	Order Issued
	AGM (HR&A) to GM (HR&A)	2
	AGM (F&A) to GM (F&A)	2
	DGM (HR&A)/SM (HR&A) to AGM (HR&A)	5
	DGM (F&A)/SM (F&A) to AGM (F&A)	6
Total		15

Welfare Activities during the year 2023–24

- ❖ Streamline the procedure of submission of ‘Declaration of Assets’ online through ERP system in respect of the employees of Class-I & II categories of WBSEDCL.
- ❖ Tie-up with another 8 (eight) Multi-Super Specialty Hospitals for treatment of the employees and their dependents
- ❖ Introduction of outdoor services (investigation, Doctor’s consultation in OPD) at approved rates for the employees of WBSEDCL and their dependents.

- ❖ Revision of rates & charges for occupation of Guest House/Inspection Bungalow of WBSEDCL.
- ❖ Payment of one time ex-gratia grant of ₹48,100/- only to employees of Vidyut Bhavan Canteen Mahila Samabay Samity Ltd. for festive season.
- ❖ Payment of ₹ 60,000/- only as recoverable interest free advance to employees of Vidyut Bhavan Canteen Mahila Samabay Samity Ltd. for festive season.
- ❖ Renewal/Fresh tie-up of Group Medical Policy for the retired employees of WBSEDCL in association with Go Digit General Insurance Ltd.
- ❖ Grant of ₹ 37,000/- to the Vidyut Bhavan Canteen Mahila Samabay Samity Ltd. for procurement of winter blankets.
- ❖ Organizing the Felicitation Programme to the meritorious wards of the employees & part time workers of WBSEDCL at Vidyut Bhavan.
- ❖ WBSEDCL Football team secured 3rd position in 45th All India Electricity Sports Control Board Football Tournament' held at Kolkata.
- ❖ Security Guards of Private Security Agencies are allowed to avail the facility of Holiday Homes of the Company with the same terms & conditions as that of the employees.
- ❖ Extension of the period of hiring accommodation of Rest House cum Treatment Home in the premises of J. K. Bhavan, Vellore.

Health issues during the year 2023–24

As a part of the HRM Policy, Health is a priority issue of the Company. Health of each individual employee is to be ensured in order to optimize output. As such, Company undertakes:

- ❖ Amount of medical reimbursement made during 2023-24 has been ₹2,193.64 Lakh. /-.
- ❖ Medical advance during 2023-24 ₹3,368.11 Lakh.
- ❖ 3 nos. Medical Board was conducted.
- ❖ No. of pre-employment checkup done for 124 nos. cases.

BRIEF OVERVIEW OF PERFORMANCES, ACHIEVEMENTS & PROGRESSES UNDERTAKEN BY R&MP CELL DURING PERIOD 01.04.2023 – 31.03.2024

- **Recruitment:** Overview of recruitment exercises under taken by R&MP Cell during the aforesaid period.
 - ❖ Identification of posts for Persons with Disabilities as per RPwD Act 2016.

- ❖ Extending support for Photo Verification at the time of joining of new recruits for the post of Office Executive and JOT-cum-TA of the completed recruitment process.

➤ **APS/CPS Eligibility Processing:**

R&MP Cell has also undertaken the process of determining the eligibility of employee(s) for their next level promotion under APS/CPS scheme.

Total No. of Eligibility Processed during FY 2023-24: 688 Nos.

Class I (Cadre):

- ✓ Eligibility lists for promotion of around **276 nos.** employees of Class-I cadre prepared and sent to SSC-I.

Class II to Class IV (Cadre):

- ✓ Eligibility lists for promotion of around **412 nos.** employees spanning from Class-II to Class-IV prepared and sent to SSC Cell.

➤ **Organization Restructuring:**

- ✓ No. of New Unit created at Corporate Office: **05**
- ✓ No. of New Regional Office created: **02**
- ✓ No. of New Divisional Office created: **01**
- ✓ No. of New Project Camp Office created : **01**

➤ **Employee Database Management in HRIS & ERP System:**

- ✓ Maintenance of Employee Database in HRIS for various activities of their service life (like joining, transfer, promotion, etc.) and preparation of various manpower related reports based on that.
- ✓ New Joinees Record Creation in HRIS (Legacy System) & ERP System: **235 Nos.**

➤ **Pre-Employment Medical Test:**

- ✓ **124 nos.** Pre-Employment Medical Test conducted by R&MP Cell during **FY 2023-2024.**
- ✓ Tender floated for Enlistment of Hospitals for a period of 02 years w.e.f 01.05.2024 to 30.04.2026 for conducting Pre-Employment Medical Test of new recruits under WBSEDCL through offline tender process.

➤ **RTI Queries :**

52 nos. RTI queries have been processed by R&MP Cell during **FY 2023-2024.**

➤ **Other allied activities under by R&MP Cell:**

- ✓ Creation of new Test Assessment Committee (T.A.C) for preparation of Question Paper, evaluation of Answer Scripts and preparation of mark sheets for Computer Proficiency Test (CPT).
- ✓ Conducted Computer Proficiency Test for **10 nos.** candidates including Question paper setting and evaluation **(03 Times)**

Safety Initiatives for 2023-24:

In FY 2023-24, in order to enhance overall performance of the Organization, a no. of activities have been carried out by Corporate Safety Cell in ensuring observance of safety norms during execution of works as well as in arresting untoward incidents due to system vulnerabilities. Actions have also been taken up to develop awareness of general public on risks associated with handling of electricity.

Some of the activities:

- A good number of potential vulnerabilities in Distribution network have been detected through rigorous and routine inspections & suitable measures have subsequently been taken in removing those anomalies.
- Quite a sizable no. of vulnerabilities have been brought to the notice of site officials for its immediate removal after getting intimation from common people through Safety WhatsApp number (8900793100).
- Sensitivity of feeder protection system has been increased incorporating Broken Conductor Fault (BCF) detection function in nearly 81% of compatible numerical feeder protection relays.
- Introduced worksite barricading by Traffic Cone & Nylon Rope.
- Took initiative to ensure availability of High Voltage Detector in all the LT & HT mobile Vans for checking liveness of network prior to working.

- Token penalty has been imposed on a good number of agencies for violation of safety norms during execution of work.
- Checked unique code painted PPEs in mobile maintenance vans for ensuring availability of all requisite PPEs.
- Arranged 42” LED Display at some selected CCCs for display of awareness messages on electrical safety.
- Received in-principle clearance for introducing safety messages as “Hello Tune” in CUG mobile numbers.
- Received in-principle clearance in developing a documentary film on safe working procedures.
- Arranged & attended safety seminars & workshops.
- A booklet in Bengali on safe use of electricity has been prepared and placed for printing with the objective of distributing it amongst common people during festivals, mela, fairs etc.
- Divisions having no occurrence of accident due to unsafe infrastructure and/or unsafe working practice have been awarded with Certificate of Appreciation
- Made root cause analysis of few fatal accident of agency workers and a booklet has been printed to hand it over to the participants of Safety Training.

It has been observed that during FY 2023-24 majority of the accidents to common people occurred due to conductor snapping, insufficient ground clearance and earthing failure.

It could also be noticed that majority of the accidents that took place to agency workers were due to non creation of “Safe Zone” at worksite using discharge rods & earth chains.

During FY 2023-24, Twenty One (21) Divisions could be kept free of any accident with WBSEDCL’s liability.

[Darjeeling, Kurseong, Kalimpong, Dinhata, Jhargram, Contai, Bankura, Khatra Bidhannagar-I, Newtown, Garia, Kakdwip, Baruipur Durgapur, Serampore, Chandannagar, Tarakeswar, Singur Haripal Krishnanagar, Tehatta, Berhampore]

Estate Management Department:

Description of work	Status of work	Expected time of completion	Project Cost (Rs. Lakh)	Perceived Benefit
Modernization of Sagar Inspection Bungalow	Completed	Jan '24	200	Providing accommodation to the high level dignitaries including the MIC
Retrofitting of structures at Vidyut Bhavan	Completed	Jan '24	78	Strengthening the building structure and extending the building life
Construction of Trainee Hostel Building at New Town	Work in progress	June '24	750	Providing trainees a safe and healthy departmental accommodation
Modernization of offices at different floors of Vidyut Bhavan	Work in progress	March '27	2520	Creation of aesthetically balanced work environment towards enhanced productivity
Thorough external renovation/ painting of Vidyut Bhavan Building	Work in progress	March '25	122	Strengthening the building structure and extending the building life
Upgradation of firefighting system at Vidyut Bhavan	Tender to be invited	July '25	605	To strengthen fire safety of the building as per recommendation of the Fire Dept.
Revamping LA Block Housing Complex after dismantling existing old buildings	Drawing/ design being prepared through the Consultant	-	15000	Phasing out potentially vulnerable old buildings and redeveloping the township as per modern concept
Construction of new VIP guest House at Siliguri	Drawing/ design being prepared through the Consultant	Feb '26	1000	Providing accommodation to the high level dignitaries including the MIC
Modernization of ALDC building	Drawing/ design being prepared through the Consultant	June '25	600	Building a state-of-the-art Area Load Dispatch Center

Corporate Communication Department

WBSEDCL was awarded at the prestigious **17th Global Communication Conclave** organized by the Public Relations Council of India (PRCI) in New Delhi in the following categories:

A. Corporate Social Responsibility Campaign: Diamond Award for Corporate Social Responsibility (CSR) Brochure.

B. Innovation of the Year: Gold Award for New Year Greetings Card.

C. Corporate Film: Crystal Award for Corporate Film.

D. Best House Journal (Regional): Silver Award for ‘Vidyut Barta’ journal (**WBSEDCL and WBSETCL jointly won the award**)

- Publication of Corporate Plan 2023-2024
- Design and printing of Greetings Card 2024
- Corporate Social Responsibility (CSR) Film
- Participation in IEEMA E3-Energy Empower East Conclave, AFEV Conclave and Bengal Global Business Summit
- Design and publication of WBSEDCL-WBSETCL sub-station advertisement

Pics of Corporate Communication Awards:



Diamond Award for Corporate Social Responsibility (CSR) Brochure



Crystal Award for Corporate Film



Silver Award for 'Vidyut Barta' journal (WBSEDCL and WBSETCL jointly won the award)



Gold Award for New Year Greetings Card

IT CELL

Major Activities:

- ✚ IT related project planning, implementation and management of entire WBSEDCL covering different technical, commercial and administrative areas (like R-APDRP, Feeder metering, Distribution Transformer metering, ERP etc.)
- ✚ Implementation of Data Centre & Disaster Recovery Centre for providing comprehensive IT services including various consumer services like Metering, Billing, Collection etc.
- ✚ Implementation of Smart Metering solution (Advanced Metering Infrastructure)
- ✚ Operation & maintenance of high-end communication backbone to facilitate error free inter-connectivity between different units of WBSEDCL
- ✚ Development and maintenance of various application S/W packages
- ✚ Energy management and energy Auditing
- ✚ Hosting and maintenance of WBSEDCL website
- ✚ GIS Survey of HT & LT Network and consumers
- ✚ Implementation of ISMS & ISO 27001:2013 Certification
- ✚ Video Conferencing system
- ✚ Paperless Board Meeting Management System
- ✚ Biometric Attendance System upto Division Level
- ✚ Vehicle Tracking System for HT/LT mobile vans
- ✚ Maintenance of Vidyut Bhavan network, system including UTM, LAN, WIFI etc.

Advanced Metering Infrastructure (AMI) implementation under RDSS: -

- All Commercial and Industrial LT consumers (connected load from 5 KVA to 50 KVA) and all the Govt. establishments, total 2.47 lacs consumers.
- The project period will be 10 years including the implementation period of 1.5 years.
- AMI in WBSEDCL will be developed through implementation of MDMS & HES.
- In 2023-24, As of Feb' 2024, M/s. Iskraemeco has supplied 1,30,100 no. Smart Energy Meters and has installed 75,000 no. Meters with their Head End system.

AMI implementation under World Bank Fund: -

- WBSEDCL has initiated the Smart Meters implementation project for 4,80,000 nodes (Single & Three phase Smart Meters) under financing from the World Bank .

- WBSEDCL has hired PricewaterhouseCoopers Pvt. Ltd. as a “IT-Project Management Consultants (IT-PMC)”
- Notification of Award - Letter of Acceptance has been issued to M/s HPL Electric & Power Ltd. on 16.06.2023 for installation of 4.8 Lakh Smart Meters.
- As of March 2024, FAT for 14000 no. of Smart Meter has been completed and M/s. HPL has been issued the DI against the FAT.

RDSS Scheme: -

➤ IT-OT Enabled Work-

IT-OT enabled work has also been considered under Loss Reduction part of RDSS Scheme.

Total estimated cost is Rs. 95 Cr. for following works: -

- ❖ M/s PwC has already been appointed for Project Management (PMA) through an open tendering process.
- ❖ OMS Implementation - Open tendering process has been initiated for implementation
- ❖ System enhancement & Network modification for DC-DR - Open tendering process has been initiated for System enhancement & Network modification for DC-DR
- ❖ The target for the FY 24-25
 - Migration of SAP Business Intelligence (BI) Reporting System new Enterprise wise Data Analytics Tool.

Information Security Management System (ISMS) & ISO 27001:2013 Certification: -

- The company has been awarded the ISO 27001:2013 certification (Certificate no. IS 740189) for 17 ISMS Location
- WBSEDCL has planned to transition to ISO 27001:2022 during the surveillance audit in December '24

CRM developments: -

- For the FY 23-24, the following major projects were implemented under CRM:
 - Implementation of the module to facilitate Electric Vehicle Charging Stations (EVCS).
 - Integration with the HES in respect of different AMI vendors to facilitate the incorporation of smart meters
- The target for the FY 24-25 includes the following:
 - Implementation of Procedure-D (2023).

- Integration with the Central MNRE portal to facilitate solar rooftop connections under the PM Surya Ghar scheme.

DC-DR Enhancement: -

- ❖ WBSEDCL has a sophisticated well-equipped tier -3 Data centre (DC) in Rajarhat, Newtown along with a Disaster Recovery Centre (DRC) situated in a separate seismic zone, Berhampur having more than 99.95 % availability.
- ❖ WBSEDCL's Core IT applications Like SAP-ISU MBC (Metering, billing, Collection), SAP-ERP, CRM, IVRS system, E-office, GIS, MDAS Etc all are hosted through DC and DRC.
- ❖ WBSEDCL has considered the replacement of End of Life & End of Support Server and Network augmentation with Next generation high-end devices under RDSS project.
- ❖ 24x7 comprehensive traffic monitoring, cyber threat analysis and detection have been done. Regular necessary Co-Ordination with NCIIPC and Cert-in regarding Cyber security parameters. Deployment of necessary patches to the systems to prevent security attacks.

Network Enhancements:

- ❖ Commissioning of 15 new MPLS link along with upgradation of MPLS B/W for 112 sites
- ❖ Upgradation of ILL bandwidth of VB from 90 to 160 Mbps and DC-DR-VB MPLS upgraded to 200 Mbps
- ❖ Target Plan in FY 2024-25:
 - SDWAN implementation with Managed switch implementation
 - IVRS upgradation

GIS survey under SEEDN scheme: -

- ❖ 33/11 KV Substation surveyed: 800
- ❖ 132/220/400 KV Substation surveyed: 137
- ❖ HT Network & HV-EHV Consumer survey is already completed:
 - (a) 1519 feeders (33 kV) having HT network length of 16422 Km.
 - (b) 5249 feeders (11 kV) having HT network length of 125970 Km.
 - (c) 11685 no. bulk consumers.
- ❖ LT Network survey completed:

- (a) 321173 DTR(s) having LT network length 236864.60 Km. 77 Lakh LT consumers have already been surveyed.

e-Office: One-stop access point of organization information and applications/services: -

- ❖ To create a paper free environment WBSEDCL has implemented the E-office application across all departments and declared Go-live for 147 numbers of offices in WBSEDCL except Midnapore zone.
- ❖ Target Plan in FY 2024-25:
 - Implementation of DR Set up and version upgradation for e-office Application

Status of various projects under ERP: -

- ❖ Implemented in-house developed Retired Employee Pension Portal and Internal Audit Portal
- ❖ Implementation of Power Purchase Module
- ❖ Online ID Card Generation, Implementation of Issuance of NOC for New Passport/Renew Passport/Foreign Travel/Visa
- ❖ Implementation of capturing records regarding material theft in ERP, Vendor Portal with provision given for download FORM16 and Payment Certificate

Various Projects under ISU: -

- ❖ Pilot phase go live of MDMS along with Smart Prepaid Billing System i.r.o. the project "Cloud Based Meter Data Management System (MDMS) IT Infrastructure for AMI Solution in WBSEDCL" integrating with Head End System of M/s Iskraemeco
- ❖ Opening of online application facility for Solar PV application for non-subsidy scheme on 06.06.2023
- ❖ Implementation of Green Power Certificate facility
- ❖ Implementation of TDS certificate uploading facility for the respective consumers of WBSEDCL
- ❖ Implementation of registration facility for prospective bidders for designated tenders at WBSEDCL Website.

COMMUNICATION CELL

Major Activities:

- ✚ Implementation of SCADA, funded by World Bank
- ✚ Implementation of Smart Metering solution (Advanced Metering Infrastructure) under RDSS Scheme

Advanced Metering Infrastructure (AMI) implementation under RDSS: -

- **Project Coverage** :- Consumer Metering under 83 nos CCCs. All DTR and Feeders metering under WBSEDCL licensing area with Project Cost INR 3,827.96 Cr
- **Project Time Line** : 120 months from the contract signing date
 - a) Installation Phase: 27 months from contract signing date.
 - b) Maintenance Phase: 93 months after completion of installing phase.
- **No. of Smart Meters to be installed in Phase –I :-**
 - a) 250000 Consumer Meters by IT& C Cell
 - b) 34,67,969 Consumer meters by Communication Cell (Total 3717969 nos Consumer Meters)
 - c) 305419 DT Meters,
 - d) 11874 nos Feeder Meters.
- **Present Status/Achievement**
 - **LoA already issued to** i) Polaris Smart Metering Private Limited (L1 rank), ii) GVPR Engineers Limited (L2 rank), iii) Apraava Energy Private Limited (L3 rank) and Financial involvement for
 - i) Polaris Smart Metering Private Limited is 2246.731 Cr (60%)
 - ii) GVPR Engineers Limited is 857.05 Cr (20%)
 - iii) Apraava Energy Private Limited is 724.61 Cr(20%)
- Contract Agreement, DDF Agreement & NDA Agreement already signed.
- Consumer Indexing Survey APP readiness is in progress and GTP finalisation and subsequent testing is in progress.

- **Target up to March 2025**

Installation completion of 1 Lac Consumer Meter, 2 Lakh DT Meters will be completed, and All (11874) Feeder Meters

Implementation of SCADA/ADMS Project under World Bank Fund: -

- **Project scope :** Installation of SCADA/ADMS for 122 nos. of Sub-stations (59 nos. old and 63 nos. new Sub-stations) and 500 nos. of RMU locations including 69 nos. old RMUs (RAPDRP Part-A).
- No of Division Covered: 17 Nos.
- DPR has been prepared by M/s PGCIL
- PMA , M/s M/s. N Arc Consulting Enggpluss Private Limited has already onboarded
- Project Duration : 84 months : (24 months – Implementation period followed by 60 months – O&M)
- Retender for Selection of System Implementation Agency (SIA) for implementation of SCADA/ADMS including Installation, Testing and Commissioning 122 number RTUs at Sub-station and 500 Nos. FRTUs is under process.
- Budgetary Estimate : INR 183.29 Crore