



WBSETCL

**WEST BENGAL STATE ELECTRICITY
TRANSMISSION COMPANY LIMITED**

(A Government of West Bengal Enterprise)

Registered office : Vidyut Bhavan

DJ Block, Sector-II, Bidhannagar, Kolkata-700091

CIN-U40101WB2007SGC113474 | www.wbsetcl.in

CORPORATE 
Plan 2019-20

Powering India towards an
**Electrifying
Future**



**WEST BENGAL STATE ELECTRICITY
TRANSMISSION COMPANY LIMITED**
(A Government of West Bengal Enterprise)

WBSETCL



From the Desk of the Managing Director

WBSETCL has completed its twelfth year of operations in the state of West Bengal and is fervently following its commitment towards the citizens of the State and the Nation. In the financial year 2018-19, the total transformer capacity of WBSETCL is about 33801 MVA with transmission line 14060 ckm spreading across the length and breadth of the state. During the same financial year, the Company added 13 new sub-stations (including 6 sub-stations of Durgapur Projects Limited [DPL]) under its command, which makes the total count of sub-stations to 137 with transmission system availability of 99.92%. In the financial aspect the Company has fairly improved by recording a turnover of Rs. 1426 crore, which is an increase of 5.71% in comparison with the previous year.

In the view of the above, it is encouraging to note that with the growing passage of time, WBSETCL is setting a new benchmark for itself by keeping the standards high towards achievement of the goals and working hard so as to stand and keep up the expectations of all stakeholders towards fulfillment of our commitments of not only **“Transmitting Power”** but also **“Transmitting Happiness”**.

With best wishes,


(Santanu Basu)
Managing Director

CORPORATE (F&A)

- Corporate Plan for 2019-20 of the F&A Department is as follows: -
- To achieve a Total Revenue of Rs 1413.26 crore.
- To achieve a Profit of Rs 425.05 crore.
- To achieve a CAPEX of Rs 1051.40 crore.
- Timely Servicing of all Debt to enhance/retain the Credit Rating of the Company.
- Timely servicing of Retirement Dues to the retired employees of the Company.

CENTRAL TESTING DEPARTMENT

- Non numerical Relay change in 11KV system : 130 nos. approx.
- Replacement of Total non numerical Distance Relay : 60 nos.
- Replacement of Total non numerical Differential Relay : 48 nos.
- Replacement of non numerical Directional O/C Relay in phased manner : 130 nos. approx.
- Incorporation of numerical Line Differential Relay in system : 10 set
- Incorporation of Remote SCADA in GIS Sub-Stn. : 20 nos.
- Installation of DLMS energy meter for Energy Audit : 250 nos.
- Resolving all the issues related to Third party protection audit and any other system or protection related issues required for integrated Grid operation, as required.
- Regular testing activities like commissioning of sub-stations, trouble shooting, preventive maintenance of protective system, up gradation of protection and control system, transformer oil testing, modification in control & relay panel, testing and repairing of relays, instruments, meters etc.

IT DEPARTMENT

1. The implementation of the SAP-ERP ICT infrastructure on Cloud based platform is going on, along with MPLS-VPN connectivity for all locations of WBSETCL.
2. The deployment of SAP-ERP Solution is going on to the Cloud Infrastructure in collaboration with the Implementation Partner and WBSETCL functional officials.
3. Technical interfacing and coordinating with NIC and vendor will continue for system operation and further needs of e-procurement and registration of digital signatures in WBSETCL.
4. Annual Maintenance contract, system operation and monitoring of the bio-metric attendance system at Vidyut Bhavan will continue in collaboration with Facility & Logistic Cell and system vendor i.r.o AMC of the same. The process to implement Bio-metric attendance system at Abhikshan Bhavan and other 27 area offices of WBSETCL is in final stages.
5. Preparation of technical specifications and vetting i.r.o IT related procurement of various departments will continue along with interaction and coordination with vendor i.r.o AMC of server hardware and software installed at Corporate Finance Department.
6. Technical interfacing and coordinating with Corporate HR&A regarding the selection of vendor for E-recruitment process, along with providing assistance to IT related matters in e-recruitment process.
7. The tendering process for redesigning, developing, hosting and maintenance of corporate website of WBSETCL is underway, which will have new enhanced features like responsiveness, dynamicity and many more.
8. The tendering process for procurement, operation and maintenance of corporate email service along with the backup server is underway. The new corporate e-mail service will come with more storage space and many other advanced features.
9. Coordination and System monitoring i.r.o existing Corporate E-Mailing Services is carried out and the service will be enhanced for serving further document management needs of user departments.
10. The implementation of Centralised LAN system for smooth operation of SAP-ERP system is going on, with collaboration of Facility and logistics cell, throughout 08th, 9th, 10th floors of Vidyut Bhavan. Testing of the same is underway.

COMMUNICATION DEPARTMENT

Communication Dept. has been entrusted with various responsibilities for installation, testing, commissioning and subsequent maintenance work of VHF, PLCC, SCADA system, Carrier aided protection scheme, MUX, RTU, OPGW, OFC links etc. throughout the WBSETCL network.

Achieved Projects (2018-19):

- 3696 km of OPGW out of 3749 KM has been laid in WBSETCL network under ULDC expansion project.
- Installation and commissioning of 128 nos. SDH equipment, 208nos of PDH Equipment and 106 nos DCPS have been completed under ULDC expansion project.
- Consultant has been appointed for Leasing of 06 (Six) pairs of spare dark fibres of OPGW for monetization and the process is in progress.
- Procurement of 96 nos. Digital Protection Coupler for 400 KV & 220 KV substations is complete out of which erection of 50 nos. and commissioning of 8 nos. of DPC have been done.

Future Plans (2019-20):

- 23 nos. SDH and 23 nos PDH shall be installed at different sub-stations under ULDC expansion project.
- In the second phase, Digital Protection Coupler for all transmission lines shall be installed.
- Under PSDF fund, 1809 KM OPGW shall be laid under WBSETCL network to strengthen the Optical Fibre Communication System.
- Replacement of 35 nos. of old RTU by new RTU under PSDF scheme shall be taken up for up-gradation of data acquisition system.

INTERNAL AUDIT DEPARTMENT

Activities and Achievement of Internal Audit Department of WBSETCL for the Financial Year 2018-19.

Relating to in house Internal Audit

- Total no of units audited against those approved for being audited as per approved plan upto 31.03.19.

Sl. No.	Particulars	Approved	Actual
1.	Accounting Unit Offices	19	19
2.	Store Units	59	59
3.	Field Zonal Office	4	4

≠All Accounting Units/Area Offices (29 No.), Store Units (79 No.), Head Quarter Units (8 No.) and Field Zonal Office (8 No.) under WBSETCL's jurisdiction are covered under Audit Plan 2018-19 and scheduled for completion by 25.06.2019.

Relating to Government Audit (during 2018-19)

Particulars	Received (nos.)	Replied (nos.)	Settled (nos.)	Remarks
Report	19	08		Date of submission of reply for 02 nos. Report is not over till 31.03.2019
Paras				
Part IIA	3	3	1	
Part IIB	34	21	02	Date of submission of reply for 13 nos. Para is not over till 31.03.2019 Additional 06 nos. Para (Part IIB) pertaining to 2017-18 have been settled during 2018-19.
COPU Para	NIL			

- Future Plan of Internal Audit Department of WBSETCL for the Financial Year 2019-20 :**

1. Internal Audit :

With a view to sustain the increased Audit Coverage it has been planned to cover all the Auditable Units in 2019-20 as depicted below :

a.	No. of Units to be audited :	124 Units
b.	Percentage of audit coverage in 2019-20 (as against no. of auditable units.	100.00
c.	No. of processes to be audited :	682 Nos.

2. Govt. Audit :

Govt. audit is planned & executed by resident wing of CAG. Internal audit deptt. Coordinates, compiles (in case of Part IIA para) and ensures timely submission of replies to CAG on behalf of the company.

a.	Inspection Report paras will be monitored for being replied by the concerned units as and when received.
b.	Internal Audit will facilitate the concerned unit in finalising the Draft replies of Part IIA paras of C & AG Reports for the year 2018-19 for ensuring timely submission of the same from the units.
c.	Follow-up and draft reply of part IIB will be facilitated for being furnished by the units as and when required.
d.	C&AG Office would be pursued for conductance of Audit Committee Meeting for threadbare discussion on Old Unsettled Paras of different Units based on their current status for settlement.

TRANSMISSION PROJECTS

PROJECT EXECUTION (2018-19):

Completed Projects

The projects completed during 2018-19 and made available to the transmission system of WBSETCL are furnished below:

Sub-stations & Feeder Bays:

Six (06) new sub-stations and different bays which were commissioned during 2018-19 and put into the system are as follows:

SI No.	Name of the substation / bays	Capacity addition (MVA)
1.	Barasat 220 KV GIS	320
2.	Sagardighi 220 KV GIS	320
3.	Sonakhali 132/33 KV GIS	100
4.	Indus 132/33 KV GIS	100
5.	Bhadrapur 132 KV GIS	100
6.	Panagarh 132/33 KV GIS	50
7.	2 nos. 132 KV line bays at Rampurhat 132 KV Substation	
8.	2 nos. 132 KV bays at Bagmundi 132 KV Substation	
9.	TSS bay at Gunjaria	

Thus total capacity addition in 2019-20 stands at 990 MVA with total project cost is Rs. 208.03 crores.

Transmission Lines:

324.242 Circuit Kilometres (ckm) covering following 5 nos. 220 KV & 5 nos 132 KV transmission lines have been added to the system at an **estimated cost of Rs. 195.94 crores**.

SI No.	Name of the transmission line	CKM addition
1.	220 KV D/C line from Alipurduar 220 kV (PGCIL) substation to proposed Alipurduar 220 kV GIS (WBSETCL).	12.754
2.	D/C LILO of 220 kV D/C Gokarna – Sagardighi Line at Sagardighi Substation (11 ckm).	11
3.	TLDP-III -TLDP-IV 220 KV S/C line	21.1
4.	220 kV D/C Line from Domjur substation to Domjur- Arambagh 220 KV D/C line.	9.618
5.	220 kV D/C Line from New Chanditala 400 KV S/Stn. to Domjur- Arambagh 220 KV D/C line.	7. 114
6.	132KV D/C Line from Coochbehar Substation. to Mathabanga Substation.	94
7.	132 kV D/C & M/C Transmission line from Subhasgram 220/132 kV Substation to Sonakhali 132/33 kV GI Substation (82 ckm).	82
8.	132 kV D/C Line from Gokarna 220/132 kV substation to Bhadrapur 132 kV GIS using existing 132 kV D/C Gokarna – Raghunathganj Line.	31
9.	132 kV D/C Line from Raghunathganj - Gokarna 132 kV D/C Line to Sagardighi 220 KV GIS to establish Sagardighi - Raghunathganj 132 kV D/C link.	7.656
10.	132 KV D/C line from Rampurhat to Bhadrapur.	48

Ongoing Projects

Sub-stations :

Work of following **21 nos new sub-stations** (6 nos 220 KV & 15 nos 132 KV substation), various bays at existing substations are under execution. The completion of above mentioned work will result addition of **a further 4010 MVA to the system**.

SI No.	Name of the substation / bays	Installed Capacity (MVA)
1.	New Town IIC 220 KV GIS	520
2.	Rejinagar 220 KV AIS	420
3.	Gazole 220 KV GIS	420
4.	Baruipur 220/132 KV GIS	420
5.	Mangalpur 220/33 KV GIS	200
6.	Jangalpur 220 KV GIS	420
7.	Panagarh 132/33 KV GIS	50
8.	Dinhata 132 KV GIS	100
9.	Salt Lake Stadium 132 KV GIS	160
10.	Burdwan 132 KV GIS	150
11.	Debra 132/33 KV GIS	100



SI No.	Name of the substation / bays	Installed Capacity (MVA)
12.	Jhalda 132/33 KV GIS	100
13.	Salar 132/33 KV GIS	100
14.	Minakhan 132/33 KV GIS	100
15.	Harischandrapur 132/33 KV GIS	100
16.	Renia 132/33 KV GIS	100
17.	Kona 132/33 KV GIS	150
18.	Labhpur 132 KV GIS	100
19.	Panchami 132/33 KV GIS	100
20.	Bagula 132/33 KV GIS	100
21.	Kushmundi 132/33 KV GIS	100
22.	One no 132 KV Feeder Bay at Pundibari TSS	0
23.	One no 132 kV Feeder Bay at Rangapani TSS	0
24.	2 nos. 132 KV feeder bays each at Moinaguri 132/33 KV substation	0
25.	2 nos. 132 kV Line Bays (AIS) at Durgapur 220 kV Substation	0
26.	1 no 132 KV AIS feeder bays at Balurghat 132/33 KV substation	0
27.	2 nos. 132 KV GIS Bay at Bagnan 132 KV GIS	0
28.	2 nos 132 KV AIS feeder bays at Serakol substation	0
29.	1 no 132 KV GIS bays at Salt Lake 132/33 KV GIS substation	0
30.	2 nos 132 KV feeder bays at Bolpur 132/33 KV substation	0
31.	2 nos 132 KV feeder bays at Sadaipur 220/132/33 KV substation	0
32.	(i) 2 nos 400 KV GIS line bays for termination of Jeerat (New) -Jeerat (WBSETCL) 400 KV D/C line (ERSS XVIII) and its associated works. (ii) Construction of 2 nos 400 KV GIS line bays for termination of Sagardighi TPS - Subhasgram PGCIL 400 KV S/C line (ERSS XVA) and its associated works. (iii) Modification of termination arrangement of 4 nos. 400 KV existing feeders at Jeerat 400 KV substation (ERSS XV B) and its associated works.	0
33.	2 nos 132 KV AIS feeder bays at Keshiary 132/33 KV substation	0
34.	2 nos 132 KV AIS feeder bays at Pingla 132/33 KV substation	0
35.	2 nos 132 KV AIS feeder bays at Raina 132/33 KV substation	0
36.	2 nos 132 KV GIS bays at Kuli 132/33 KV substation	0
37.	2 nos 132 KV AIS feeder bays at Tarakeshwar 132/33 KV substation	0
38.	2 nos 132 KV AIS feeder bays at Jangipara 132/33 KV substation	0

Total estimated project cost of the above substations and bays are Rs. 892.77 crores.

Transmission Lines:

A total **54 nos. transmission** lines (3 nos 400 KV, 9 nos 220 KV & 42 nos. 132 KV lines) are under execution whose completion will result in addition of a further **2252.546 ckm** to the system. Details of the lines are furnished below:

SI No.	Name of the transmission line	CKM
1.	400 KV twin moose transmission line from Gokarna to Sagardighi TPS	82
2.	400 kV D/C & M/C Transmission line with Twin Moose ACSR conductor from New Chanditala 400 kV Substation to Gokarna 400 kV Substation.	360
3.	400 kV D/C Transmission line for LILO of Arambag – Durgapur 400 kV S/C line at New Chanditala Substation.	93.6
4.	220 kV D/C Line from Rajarhat 400 kV Substation (PGCIL) to New Town-IIC 220 kV Substation	28
5.	220 KV D/C transmission line (UG cable part with OFC) from Rajarhat S/S of PGCIL (under construction) to proposed New Town IIC 220 KV S/S.	3.6
6.	S/C LILO of Arambagh – Rishra 220 kV S/C Line at New Chanditala 400 kV Substation	33
7.	220 kV D/C Line from Subhashgram (PGCIL) Substation to Baruipur 220 kV Substation (58 ckm).	58
8.	Subhasgram (PG) 400 KV substation -Baruipur 220 KV D/C transmission line (UG cable part)	1.4
9.	132KV D/C transmission line from Food Park substation to Ambuja Cement Factory	6.078
10.	132 KV S/C line on D/C tower from Coochbehar 132 KV S/Stn to proposed Pundibari traction S/Stn.	10
11.	132 KV S/C line on D/C tower from TCF PS-I 132 KV S/Stn to proposed Rangapani Traction S/Stn.	7.648
12.	132KV D/C Line from Moinaguri Substation to Mathabhanga Substation.	15.95
13.	Construction of 132 kV D/C Transmission line from composite tower near Durgapur Substation to proposed Panagarh 132 kV Substation along with its associated works and Laying of 132 kV UGXLPE cable in between composite tower and gantry tower at Durgapur Substation.	61.3
14.	132 kV D/C & M/C Transmission line on D/C & M/C tower from Kharagpur 400 kV Substation to Jhargram 132 kV Substation and laying of 132 kV UG Cable within Kharagpur 400 kV Substation.	93.2
15.	LILO of Domjur – Uluberia 132 kV D/C Transmission Line at Foundry Park 220 kV Substation.	7.32
16.	132 kV D/C Line for LILO of one circuit of Coochbehar – Mathabhanga 132 kV D/C Line at Dinhati	94
17.	132 kV D/C Line from Bashirhat 132 kV substation to nearest point of existing Barasat - New Town AA-III 132 kV line.	70
18.	132 KV D/C line from TL no. 21 of Midnapur- Kharagpur WBIDC 132 KV D/C line to proposed Debra 132 KV GIS.	52

COMPANY SECRETARY

Activities:

To carry out and hold Board & various Committee meetings of the Company. To give views to the Board of Directors, Auditors and Senior Level Officers on various RPTs and Inter corporate issues. Look after entire compliance mechanism related to Companies Act, 2013 and other applicable laws to the Company.

The Office of the Company Secretary ensure that prudent corporate governance practice prevails across the Company.

The Office of the Company Secretary is also responsible for looking after various litigations in which the Company is party and control the Legal cell of the Company.

Achievements:

Successfully carried out the legal compliance audit of every Area Offices of the Company for ensuring proper compliance is made in respect of applicable laws to the Company, except taxation laws.

Empaneled new sets of lawyers for fight & defend suit in favour and against of the Company.

Future Plan:

Empanelment of Cost Auditors and Secretarial Auditors of the Company. Feasibility study for digitization of various Statutory Registers of the Company, which would ensure proper preservations of such documents.

CORPORATE HR&A

The HR&A wing at Corp. Office has to play a pivotal role for prompt delivery of services as well as to look after the human resources of the company to fulfil the business objectives of the company. To nurture the human resources, being the most valuable asset of the organisation, and to enhance the contribution of each individual and to harness the maximum efficiency, HR&A department has planned to take following activities:-

1. The manpower planning of the organisation has since been worked upto 2019 and induction of manpower of various categories numbering 1685, covering the period from 2017 to 2019 is under implementation and targeted to be completed by December, 2019.
2. The promotion being part of the reward system is continuously being done and targeted to complete all CPS promotion by December, 2019 as per eligibility including vacancy based promotion.
3. Employee transfer and deployment are also being considered on regular basis for the interest of the company as well as employees' interest.
4. Manpower development being an important area for overall improvement for the organization, outside training for newly inducted engineers has been decided to be conducted at CPRI, Bangalore/NPTI, Durgapur to be completed by October, 2019. For other executives, it is to be done in XLRI/IIMC.
5. The training for existing executives are being organized in reputed institution within the financial year under Management Development Programme. Regular training of employees as per training calendar is being done in STC, Kalyani and STC, North Bengal/EETI.
6. CSR activities are to be considered based on the recommendation of the site offices within the frame work of guidelines of the board.
7. The construction of proposed knowledge centre at Rajarhat is due to be started within the financial year.
8. Decision has been taken to maintain all IB and Guest Houses of the company in the same standard of services and to be completed by current financial year.
9. The monitoring process of labour compliances for both under O&M & Projects are regularly done to maintain proper compliance management system.
10. Biometric attendance system is to be made operational in all left out units.
11. Medical services has been provided in leading Hospitals of Kolkata and reimbursement of medical bill of the employees are targeted to be completed within December, 2019.
12. Purchase as well as transfer of land from WBSEDCL for construction of new Sub-stn. are being done within target time frame.
13. Security services for all sub-stn. are to be upgraded with modern technology based on the requirement of local areas.
14. Corporate Communication is playing role for regular publication of advertisements in newspaper and publication of various items in time and priority.
15. Apprentice Training under Apprentice Act will be organized for degree/diploma engineers.
16. Contractor Labour working under the Company are being assisted for acquiring licence by basic training. Targeted to cover to more sub-stations.
17. Employees Suggestion Scheme is due to be published by this financial year.
18. A plan is made to release major terminal benefits of Company on the date of retirement.

Achievements(FY 2018-19) :

1. Awarded contract of acquiring the SAP ERP ICT Infrastructure in cloud based solutions which will be deployed in collaboration with the implementation partner.
2. Successfully placed Turnkey Awards for GIS and corresponding Transmission Lines to fulfill the massive electrification programme and to cater its associated load growth throughout the state.
3. Successfully procured high value equipment like Transformers, Cables, Conductors etc.
4. Facilitated changes in Procurement Policy in line with various GO's and to attract wider participation of vendors.

Future Plans(FY 2019-20) :

To organize bi-annual vendor meets with an objective to share each other's potentials and requirement, get a knowhow of latest technologies as well as to encourage wider vendor participation and further to transfer knowledge regarding WBSETCL's future plans & prospects to the esteemed vendors.

CENTRAL PLANNING DEPARTMENT

Brief report on activities, progress, achievements

Sl. No.	Category	RE 2018-19 (Rs. in Lakh)		BE 2019-20 (Rs. in Lakh)	
		Plan Work	Outside Plan Work	Plan Work	Outside Plan Work
1.	Transmission Project		68,527.69		80,237.20
2.	Transmission O&M		25000.16		27,819.99
3.	IT, SLDC, Communication & Testing	NIL	1,991.99	NIL	8,949.16
4.	Other Indirect Capital Expenditure		592.55		839.17
5.	Total Expenses Capitalised		9,027.51		13,263.66
	Total		1,05,139.90		1,31,109.18

Financial Outlay for the capital works (finalization of Budget of the Organization)

Technical & Administrative Approval Order Issued during the Financial Year 2018-19.

Sl. No.	Category	Voltage in KV	Year 2018-19	
			No. of TAA Order Issued	Amount (Rs. in Lakh)
1.	New Substation and Associated Transmission System	400, 220 & 132	5	42,825.99
2.	Transmission Lines and associated System	400, 220 & 132	3	3,481.95
3.	Survey for Transmission Line		17	90.34794
4.	Deposit Work		10	4680.99326
5.	Augmentation / extension work at SS	400, 220 & 132	43	13035.2165
6.	Others	400, 220 & 132	105	3489.7176
	Total		183	67604.22

ENGINEERING DEPARTMENT

The department deals with engineering aspects of all technical matters accompanying with the Company's new construction work under project department and augmentation/renovation works under Transmission O&M departments. Engineering aspects related with the supply of power to the Bulk & Industrial consumers are also dealt by the department. The department introduces new/ latest technologies at a fast pace with the development of T&D practices all over the country.

A. Current activities & achievement for 2018-2019:-

- Substation automation through SAS/SCADA.
- E-House with 33KV GIS, 11KV GIS and all other necessary power systems.
- 132KV double circuit Monopole tower.
- Implementation of NIFPS for protection of power transformer.
- Implementation of 33KV GIS double bus arrangement for better flexibility i.r.o operation and maintenance.

B. Future plans & activities for 2019-2020 with adoption of new technologies by the Engineering department:-

- Implementation of PMU at different location of transmission network of W.B.
- Implementation of Busbar differential protection at downstream level of 132KV system
- Implementation of LBB protection in downstream level of 33KV system.

REGULATORY AFFAIRS CELL

Activities (2018-19):

Preparation of Tariff petitions and Performance review petitions before the Commission, Studying draft regulations and commenting on them, appealing before the Commission/Appellate Tribunal, ensuring compliance of rules and regulations under Electricity Act, Providing Regulatory input to the management.

Achievement (2018-19):

Submission of Annual Performance Review petition for FY 2017-18.

Future Plans (2019-20):

Submission of Multi Year Tariff petitions for 6th & 7th control period and Annual Performance Review petition for 2018-19.

SI No.	Name of the transmission line	CKM
19.	132 KV D/C line from Bagmundi 132/33 KV substation to proposed Jhalda 132 KV GIS.	98
20.	132 KV S/C line on D/C tower from Serakol - Hotor TSS.	15
21.	220 KV D/C LILO of 220 KV D/C Gokarna- Krishnanagar line at Rejinagar	9
22.	220 KV D/C LILO of 220 KV D/C Malda-Dalkhola line (PGCIL) at Gazole 220 KV SS.	6.6
23.	D/C LILO of Amtola- Debogram 132 KV D/C line at Rejinagar 220 KV SS.	16.4
24.	D/C LILO of Amtola- Berhampore 132 KV D/C line at Rejinagar 220 KV SS.	44.6
25.	D/C LILO of Gokarna- Katwa 132 KV D/C line at Salar 132 KV SS.	4.2
26.	132 KV D/C line connectivity between Gazole 220 KV SS and Malda 132 KV SS.	1.3
27.	132 KV D/C line connectivity between Gazole 220 KV SS and Raiganj 132 KV SS.	1.3
28.	132 KV D/C line from Gazole 220 KV SS to Samsi 132 KV SS.	19
29.	132 KV D/C line for connectivity between Gazole 220 KV SS and Balurghat 132 KV SS (RL=2 Km) and conversion of S/C line on D/C tower (about 100 KM) to D/C line to establish Gazole - Balurghat 132 KV D/C line.	104
30.	132 KV D/C line from Baruipur 220/132 KV SS to Serakol 132 KV SS using HTLS conductor.	32
31.	132 KV D/C line from Indus 132 KV SS to Raina 132 KV SS.	64.3
32.	132 KV D/C line from Keshiary 132 KV SS to Pingla 132 KV SS.	80
33.	D/C LILO of 132 KV Satgachia -Mahachanda transmission line at Burdwan 132 KV GIS using UG cable.	1
34.	132 kv D/C UG Cable Line from Kasba 220 kv S/S to Salt Lake Stadium 132 kv GIS	12
35.	132 kv S/C UG Cable Line from Salt Lake 132 kv GIS S/S to Salt Lake Stadium 132 kv GIS	4
36.	132 kv S/C UG Cable Line from Salt Lake 132 kv AIS S/S to Salt Lake Stadium 132 kv GIS	4
37.	D/C LILO of Bajkul-Contai 132 KV D/C Tr. Tr. Line at Proposed Ramnagar 132 KV on M/C tower	122
38.	D/C LILO of existing 132 KV Kasba- Sonarpur-Behala Tr. Line at proposed Renia 132 KV GIS	5.2
39.	132 KV Transmission line for LILO of Midnapur- Balichak TSS 132 KV S/C at Debra 132 KV S/S	6.4
40.	D/C LILO of Howrah-KTPP 220 KV D/C line at Jangalpur 220 KV GIS	0.9
41.	S/C LILO of 220 KV D/C Durgapur- Asansole Tr. Line at proposed Mongalpur 220 KV GIS	4.34
42.	132 KV D/C line from Subhasgram 220 KV S/S to proposed Minakhan 132 KV S/S	69.3
43.	132 KV D/C line from Tarkeswar 132 KV S/S to Jangipara 132 KV S/S	40
44.	132 KV D/C line from Bolepur 132 KV S/S to Lubhpur 132 KV GIS	40
45.	132 KV S/C UG cable (single core Aluminium) line from Panagarh 132 KV GIS (WIP) to M/s. ECL	1.51
46.	D/C LILO of Krishnanagar - Bangaon 132 KV D/C Tr. Line at proposed Bagula 132 KV GIS	44.4
47.	132 KV 2- Phase S/C line from Malda 132 KV substation to proposed Khaltipur TSS	23
48.	132 KV D/C line from Sadaipur 220 KV SS to proposed Pachami 132 KV GIS	77
49.	132 KV D/C line from LILO point of Sainthia - Rampurhat-Kuli line towards Rampurhat to proposed Pachami 132 KV GIS to establish Kuli- Pachami 132 KV D/C line.	50
50.	LILO of Raiganj - Gangarampur-132 KV S/C line at Kushmundi 132 KV GIS	1.4
51.	D/C LILO of Malda- Samsi-Raiganj 132 KV D/C Tr. Line at proposed Harischandrapur 132 KV GIS.	142
52.	LILO of Gokarna- Rampurhat 132 KV S/C Tr line at Kuli 132 KV GIS	8
53.	132 KV D/C line from Moinaguri 132 KV SS to LILO point of NJP- Moinaguri 132 KV Tr line towards chalsa to establish Moinaguri - Chalsa 132 KV D/C and Moinaguri - NJP 132 KV D/C connectivity.	7.8
54.	132 KV 2 Phase S/C transmission line from Gokarna 400 KV substation to proposed Khagraghat TSS	15.500

Total estimated project cost of the above 54 nos. lines are Rs. 1637.72 crores.

Some of the future Projects are also furnished hereunder :

- Belmuri 220/132 KV GIS & associated line.
- Birlapur 132 KV GIS and associated line.
- Ramnagar 132/33 KV GIS.
- Kushmundi 132/33 KV GIS.
- Hasimara 132/ KV GIS and associated line.
- Manbazar 132/33 KV GIS and associated line.
- Patharpratima 132/33 KV GIS and associated lines.
- Chandiberia 132/33 KV GIS and associate line.
- Nilganj 132/33 KV GIS and associated line.
- Gardwani 132/33 KV GIS and associated line.
- Gaighata 132/33 KV GIS and associated line.

Incomplete / Stalled Project

Progress of quite a few transmission lines, are getting affected for problems associated with local problems / right of way issues/ court cases. Rigorous interactions with the administration and statutory bodies are on to complete those projects. Details of such projects are given below:

- Work of 132 KV D/C transmission line from Food Park to Ambuja Cement Factory could not be completed due to acute right of problem in spite of constant persuasion with local and district administration.
- 1.482 KM stringing work of Moinaguri – Mathabhanga 132 KV D/C line is held up due to acute ROW problems/court case.
- 0.834 Km stringing work is held up in 132 kv D/C Line for LILO of one circuit of Coochbehar – Mathabhanga 132 kv D/C Line at Dinhat due to acute ROW problems, persuasions are on with district administration to sort out the issue.

TRANSMISSION O&M

1. Capacity Addition for Financial Year 2018-19 & 2019-20			
Financial Year	Brief Description of Work		
	Voltage Class (in KV)	MVA Added (in MVA)	Substation
2018-19	220/132KV	220	(a) 160 MVA in place of 100 MVA: - Domjur 220 KV (b) 160 MVA with Bay: - New Town 220 KV
	132/33KV	502.5	(a) 50 MVA in place of 31.5/20 MVA : - Basirhat, Bongaon, Katwa, Mahachanda, Mathabhanga, Amtala, Haldia, Samsi, Raiganj, Lakshmikantapur, Sonarpur Mohispota. Nazirpur(02) (b) 31.5 MVA in place of 20/12.5 MVA - Balurghat 132 KV (c) 31.5 MVA with Bay: - Tarakeswar 132 KV, Kalna 132 KV, Contai 132 KV, Kharagpur WBIIDC 132 KV ,NBU 132 KV, Hizli 132 KV (d) 31.5 MVA : Ranaghat (e) 20 MVA Transformer with Bay: - NJP
	33/11KV	30	(a) 10 MVA in place of 6.3 MVA : - Behala, Satgachia, Kolaghat(02) (b) 6.3MVA with Bay: - Chanditala, Tarakeswar, Bankura
2019-20	400/220	315	(a) 315 MVA with Bay: - Gokarna 400 KV
	220/132KV	320	(a) 160 MVA with Bay: - New Haldia 220 KV - Sadaipur 220 KV
	132/33KV		(a) 50 MVA in place of 31.5 MVA : - Barjora(02 No), Bongaon(01), Jangipara (02) ,Khanyan (02 No), Sonarpur, Birpara(02) (b) 50 MVA Transformer with Bay: - Mohispota, New Town 132 (c) 31.5 /20 MVA with Bay: - Lalgola, Kakwdip, Krishnanagar, Dhulian, Kamashyaguri(02), Belmuri (d) 31.5 MVA in place of 20/12.5 MVA - Dalkhola 220 KV (02 No), Balurghat, Chalsa (2 No), Gangarampur Augmentation of transformation capacity at different Sub-Stations to meet (N-1) criterion for all Sub-Stations under Tr.(O&M) (in accordance of Transmission Planning Guideline issued by CEA) to cater load demand during system disturbance & exigencies.
	33/11KV		(a) 10 MVA in place of 6.3 MVA : - Behala, Kalyani (02 No), Moynaguri (2 No), Sainthia, Uluberia (02) (b) 10 MVA with bay - Raiganj, Hizli (c) 6.3 MVA with Bay: -Amtala, Barasat, Basirhat, Belmuri, Bongaon, Chalsa, Mahachanda, Mankar, New Bishnupur, NJP, Raina, Subhashgram (Introduction of new 33/11 KV System with 02 No 6.3 MVA- Commissioned). (d) 6.3 MVA in place of 5 MVA - Bishnupur (02 No), Debogram, Adisaptagram Augmentation of transformation capacity at different Sub-Stations to meet (N-1) criterion for all Sub-Stations under Tr. (O&M) (in accordance of Transmission Planning Guideline issued by CEA) to cater load demand during system disturbance & exigencies.
	132/25KV		01 No 30.25 MVA Tr. in place of existing capacity at Liluah/Haldia 132 KV Substation each.

CORPORATE SAFETY CELL

Activities:

This Cell mainly deals with

- WBSETCL Corporate Safety Cell has been established under Corporate to periodically review the safety performance of the Company / Construction Agencies, and advise appropriate additional measures, as required, for effective safety & accident prevention also to coordinate all safety promotion & accident prevention related activities of Transmission Lines and Sub-stations under construction as well as under operation, and to provide Technical support to sites for ensuring proper implementation of the Safety Policy & Procedures of the Company and applicable safety requirements during various activities.
- Preparation & submission of Monthly Accident Report to competent authority.
- Active participation in Safety Awareness Programme in different Sub-Stations under WBSETCL.
- Preparation and publication of different Manuals related to Safety of Personnel & Equipment
- Impart Training on Safety related issues for protection of Man & Machine to the personnel of Enlisted Vendors of TR- O&M.

Achievements:

In the financial year 2018-19:-

- 05 nos. Safety Awareness Programs were arranged in different substations under various Area Offices.
- No. of accidents are 04 and lower than the previous year (05)
- No. of victims are 08 and lower than the previous years (09)
- No. of fatal accident is 0 and lower than the previous years (04)
- A committee has been constituted by the Director (HR&A), WBSETCL to prepare a safety and compensation policy of WBSETCL with a view to address various issues related to safety and compensation of both own Employees as well as the Contractor/Agencies a detailed report has already been submitted to the Director (HR&A), WBSETCL on 30/05/2017 for implementation of the same.
- A committee has been constituted on 20.03.2017 by the Director (HR&A), WBSETCL to prepare a draft Disaster Management Manual to be followed in WBSETCL. The manual has been submitted and approved by the competent authority and printing of the manual is in process.
- Training on various safety aspects imparted to the employees of the enlisted vendors of TR- O&M has started and one conducted at the Training Institute of WBSETCL at Kalyani on 28/09/2018.

Future Plan :

- A proposal has already been implemented for allotment of *Certificate of Award* to the Area Offices considering 'Zero' Accident in any substation under control of the same Area office during each financial year started from 2017-18. Same will be followed for 2018-19.
- Proposed Safety Awareness Programme has been envisaged for at least 14 nos. of Sub Stations as per proposal to be received from respective Area Offices.
- Training on various safety aspects has been envisaged for at least 05 nos. in as per requirement of Corp. HR&A wing.
- Surprise Safety inspection may be conducted at different Sub Stations.
- A committee has been constituted by the Director (HR&A), WBSETCL on 09/03/2019 to prepare a Transmission Safety Manual of WBSETCL superseding the earlier Safety Manual prepared by PWC. The Report has been submitted to the Director (HR&A), WBSETCL on 13.04.2019. Publication of the Revised Transmission Safety Manual is under process.

PROCUREMENT

The Power transmission sector is rapidly evolving with introduction of modern technologies as well as with implementation of new business policies. To cope with above and also to ensure quality power to all parts of Bengal at the highest availability rate , it is most essential to make available the required equipments, materials and services in right quantity and quality at right time and at right price.

Procurement Department has endeavoured to achieve this difficult task through e-tendering process in the following activities for the FY 2018-19:-

A. Estimated No. /Proposed No. of Order in the Year 2019-20.

Sl. No.	Department	No. of Order (s)
1.	Transmission (Project)	15
2.	Transmission (O&M)	40
	Total	55 Nos.

B. No. of Tenders in the Year 2019-20 total 38 nos.

Sl. No.	Department	No. of Order (s)
1.	Transmission (Project)	14 Nos.
2.	Transmission (O&M)	22 Nos.
3.	IT	02 Nos.
4.	RAC	01 Nos.
	Total	36 Nos.

C. No. of Orders placed in the Year 2018-19- Total- 70Nos.

	Department	No. of Order (s)	Financial Involvement (Rs.)
1.	Transmission (Project)	30 Nos.	725,13,07,638.00
2.	Transmission (O&M)	36 Nos.	78,39,56,068.00
3.	Communication	02 Nos.	2,94,21,162.00
4.	IT	02 Nos.	7,86,44,640.00
	Total	70 Nos.	814,33,29,508.00

A. Tender carried over from the Year 2017-18–22 Nos.

B. Tender Cancelled for the Year 2018-19 – 02 Nos.

Load Management Highlights : 2018-19**A. ENERGY CONSUMPTION IN WBSEDCL SYSTEM (IN MU)**

2018-19	2017-18	GROWTH (%)
37212	36153	2.93 %

B. ENERGY CONSUMPTION IN CESC SYSTEM (IN MU)

2018-19	2017-18	GROWTH (%)
10726	10883	- 1.45 %

C. ENERGY CONSUMPTION IN DPL SYSTEM (IN MU)

2018-19	2017-18	GROWTH (%)
1638	1978	- 17.17 %

(Remarks: DPL ceased to exist as separate distribution licensee since January 2019)

D. ENERGY CONSUMPTION IN IPCL (GRID CONNECTED PART) SYSTEM (IN MU)

(Started drawing power from J.K Nagar S/stn from 11.12.15)

2018-19	2017-18	GROWTH (%)
621	507	22.57 %

E. ENERGY CONSUMPTION IN WEST BENGAL SYSTEM (IN MU)

(Excluding the valley area served by DVC)

2018-19	2017-18	GROWTH (%)
53310	52783	1.08 %

F. LOAD FACTOR (%) OF WBSEDCL SYSTEM

2018-19	2017-18
63.62	64.08

G. PEAK DEMAND (IN MW)

ENTITY	2018-19	2017-18	GROWTH (%)
WBSEDCL	6441	6277	2.60%
CESC	2131	2050	3.95%
DPL	280	287	-2.52%
IPCL	77	63	22.85%
WEST BENGAL	8454	8327	1.53%

CORPORATE MONITORING CELL**Activities:**

This Cell mainly deals with

1. Internal Technical Audit of EHV Sub Stations based on performance as per PWC Guidelines.
2. Preparation and submission of all reports on behalf of the Company as per requirement of Dept. of Power & NES and other Departments of Government of West Bengal.
3. Preparation & submission of Monthly Technical And Financial Status Report of ongoing projects of O&M and Project Wing of the Company to the Dept. of Power & NES, Government of West Bengal.
4. Regular Monitoring of all Ongoing projects of O&M, Project, Communication & IT Dept.
5. Arranging Co-ordination meetings with different Depts. of WBSETCL & WBSEDCL for formulation & implementation of different policies.

Achievements:

Up to financial year 2018 - 2019 :

1. Round 1 Initial Technical Audit done at 10 nos. of Sub Stations and Round 2 Initial Technical Audit done at 36 nos. of Sub Stations.
2. Round 1 Follow-Up Audit done at 13 nos. and Round 2 Follow-Up Audit done at 47 nos. of Sub Stations.
3. Good Co-ordination with Dept. of Power & NES, Govt. of West Bengal has been maintained by forwarding Monthly Technical and Financial Status Report of ongoing projects of the Company.
4. Timely submission of other reports as sought for by the Government has been made on behalf of the Company.
5. Ranking of Substations as per their performance for awarding prizes to best performers has been made for the year 2017 – 2018.

Future Plan :

1. Target of Technical Audit - Total nos. =108 nos. (Round 1 ITA - 8 nos. sub stations, Round 2 ITA - 1 no sub station, Round 1 FUA - 8 nos. sub stations, Round 2 FUA - 48 nos. sub stations, Round 1 CUA – 13 nos. sub stations, Round 2 CUA - 30 nos. sub stations.)
2. Ranking of Substations as per their performance for awarding prizes to best performers for the period 2018-19 will be completed by 31/12/2019.

2. Power Sector Development Fund (PSDF)

Financial Year	Brief Description of Work
2019-20	- Renovation & modernization of Transmission System for relieving congestion in intra state transmission system (Replacement of existing Conductor by HTLS & AI 59. (a) New Haldia- Haldia-Haldia NIZ 132 KV D/c. (b) Gokarna-Kuli 132 KV D/c. (c) KTPS-Tamluk 132 KV D/c (d) Kasba-KLC-Saltlake 132 KV D/c. (e) Kasba-Sonarpur 132 KV D/c. (f) Newtown 220 KV-Saltlake GIS (g) New Chanditala-Rishra 220 KV S/c. - Installation of Switchable reactor & Shunt Capacitor : (a) 125 MVAR 400 KV Bus Reactor at Arambag 400 KV Substation. (b) 590 MVAR 33 KV Shunt Capacitor at 36 No.different Subststion. (c) 20 MVAR 33 KV Shunt Capacitor at Samsi under (O&M) Scheme.

3. Reconductoring & Insulator replacement

2018-19 & 2019-20	To regain rated ampacity & improve system stability, re-conductoring of the following lines is under progress & expected to be completed during FY 2019-20. (i) 220KV KTPP-Howrah D/C Line (R.L. : 7.0 KM) (by ACSR Zebra) (ii) 220KV STPS-Durgapur, STPS-Asansol & Asansol-Durgapur Line excepting LILO portion. (R.L. : 102 KM) (by ACSR Zebra) (iii) 132 KV Sainthia-Sadaipur D/c Line (R.L=14 Km): (by ACSR Panther) (iv) 220KV STPS-New Bishnupur D/C Line (R.L.: 110KM).(by ACSR Zebra) (v) 220 KV BKTPP-Satgachia D/c Line (R.L= 92 Km) (by ACSR Zebra) (vi) 220 KV BKTPP-Sadaipur D/c Line (R.L=4.7 Km) (by HTLS)
2019-20	To reduce unscheduled outage & improve system availability, replacement of existing conventional age-old insulators by polymer insulators is under progress & expected to be completed : (i) 220KV KTPP-Howrah D/C Line.

4. Bulk Power Supply to different TSS/Transmission Line Diversion for RVNL/ NHA/Railways/WBHDCL etc.

2018-19 & 2019-20	Following Bulk Power supply and major diversion works i.r.o. Transmission Lines are under execution & expected to be completed: (i) Bulk Power Supply to TSS: Talpur, Bishnupur, Hotor, Dalkhola, New Moynaguri, Jangipur. (ii) NHA/Asian Highways/WBHDCL/PWD: ● NH-34: Gokarna – Debagram 66 KV S/C, Raiganj – Dalkhola 132 KV D/C (Karandighi By-Pass), 132 KV Gokarna-Berhampore D/c ● NH-31 : Dalkhola-TCF-III(Islampur By-pass), Chalsa-Odlabari 66 KV S/c ● NH-31D: 132 KV D/C TCF I- II and TCF I-III 132 KV Alipurduar-Coochbehar 132 KV Birpara-Coochbehar 132 KV Alipurduar-Birpara 66 KV Alipurduar-Coochbehar 66 KV Alipurduar-Birpara } Ghospukur-Salsalabari Section ● Asian Highway-48: Birpara – Hasimara 66 KV S/C (Completed) ● PWD: 220 KV TLDP IV - Kalijhora D/C (Completed) ● WBHDCL: 220 KV Jeerat Dharampur D/C 132 KV Bandel Dharampur D/c 132 KV Dharampur Titagarh 132 KV Jeerat Dharampur D/C 220 KV Jeerat Satgachia D/C 132 KV Adisaptagram-Belmuri D/c 132 KV BTPS-Bighati D/c 132 KV BTPS-Adisaptagram D/c 132 KV BTPS-Dharampur D/c } Mogra-Barajaguli Road (iii) Eastern Railways: ● Balgona – Katwa Section: Katwa- Gokarna 132 KV D/C. (iv) Bulk/Private etc.: ● Damodar Valley Corporation (DVC): 220 KV STPS - Durgapur – Asansol (Completed), ● Medical College at Abdulghata (Site-2), Raiganj: 132 KV S/C Raiganj – Gangarampur (Completed) ● West Bengal Live Stock Development Corporation Limited: Establishment of commercial chicken layer Farm at Kalyani : 132 KV D/C Bandel – Dharampur.(Completed) ● Upwan Project site under Uttarayan Complex, Siliguri: 132 KV Ujanu-NBU S/c. ● Diversion of own Transmission line for greater flexibility, maintenance, etc. : i. KTPP-Uluberia 132 KV D/c LILO at Bagnan. ii. BTPS – Satgachia 132 KV D/c LILO at Khanyan (Completed) iii. New Haldia (Bajkul) – Egra 132 KV D/c LILO at Contai iv. TLDP III – NJP 220 KV S/c Line.(at Teesta River Crossing)
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Financial Year	Brief Description of Work
2018-19 & 2019-20	(v) RVNL: a. New Garia – Biman Bandar Metro Section: I. Kasba – Salt Lake 132 KV D/C, NTAA – I - Salt Lake AIS/GIS 132 KV D/C b. JOKA – BBD Bag Metro Section: Behala (JOKA) – Garden reach 132 KV D/C,
5. Construction of 33 KV Bays under IPDS/DDUGJY/O&M Scheme	
2019-20	Under IPDS/DDUGJY/O&M Scheme of WBSEDCL, around 100 No 33 KV feeder bays will be constructed, work of which is under process.
6. System Improvement	
2019-20	1. Replacement of Old aged 12 KV Switchgear Panel by new 12 KV Switchgear Panel. Krishnagar , Bongaon , Basirhat ,Lakshmikantapur, Adisaptagram, Rampurhat , Birsingha, Tarakeswar Ranaghat, Hamiltonganj, Uluberia. 2. Installation of 2 nd Set 132 & 33 KV Potential Transformer: Arambag, Ashoknagar, KLC Bantala, Kalna, Khanyan, Subhashgram, New Town,Contai, Kharagpur ,Belmuri, Domjur, Bighati. 3. Battery & Battery Charger: Installation of 2nd Set of Battery & Battery Charger is being considered & placed for all Sub Station where single DC Source is existing. 4. Replacement of Old aged installed Equipment by new Circuit Breaker/Current Transformer/Isolators at different Substation.
7. Diagnostic Equipment	
2019-20	Procurement of following Diagnostic Equipments (in No): 1. Circuit Breaker Time Interval Meter: 35 2. Digital D.C. Clamp Meter : 04 3. 3 rd Harmonic Measuring Device: 08 4. Partial Discharge measuring Kit (for Switchyard): 23 5. Partial Discharge measuring Kit (for Indoor Switchgear): 22 6. GPS Coordinate Locator: 08
8. Civil System Improvement	
2019-20	The following works are under execution & expected to be completed :- 1. Building: a. Construction of “GREEN”, G+4 Corporate Office Building of WBSETCL at Plot No. : AH/3 within Action Area – I, Newtown, Kolkata. b. Construction of 05 Nos. Administrative Building at Midnapur, Berhampur, Siliguri, Howrah and Purulia. c. Const of 4 Storied WBSETCL Knowledge Centre, Newtown. d. B &C-Type Quarter/Inspection Bungalow: Domjur, Kasba, Balurghat, Coochbehar, Hasimara and Bolpur. 2. Earth Mat: Raiganj, Balurghat and Birpara. 3. Crushed Stone / Gravel Stone Spreading: Hamiltongaunj, Jangipara, Subhashgram, Raghunathpur, Alipurduar, Sonarpur, Kasba, Debogram and Gokarna, Egra, Raghunathpur. 4. Boundary Wall: Banarhat, Tamluk.

STATE LOAD DESPATCH CENTRE

As per provision 32 under Part V of the Electricity Act 2003, the West Bengal State Load Despatch Centre (WBSLDC) is the apex body to ensure integrated operation of the power system in the state of West Bengal. SLDC acts in co-ordination with the transmission utilities, generation agencies, distribution licensees, ERLDC and ERPC. SLDC plays an important role in maintaining different system parameters (e.g: frequency, voltage, line/transformer loading etc.) of the State Grid as an integral part of the National Grid as per prevailing regulatory guideline through round-the-clock system monitoring. SLDC also carries out intra-state Energy Accounting in the state of West Bengal.

Activities of SLDC:

A. Technical functions-----

- Round-the-clock monitoring of the state EHT network maintaining
 - Security
 - Reliability
 - And to achieve optimum economy.
- Balancing Load-Generation through proper scheduling of state as per different requirements of each constituent in each 15 minutes time block throughout the day (i.e 96 blocks) within regulatory framework.
- Granting proposal for shutdown of network elements as and when required by different licensees to carry out maintenance and augmentation work after detailed network study considering Grid security.
- Load-flow study and analysis and declaration of Total Transfer Capability (TTC) & Available Transfer Capability (ATC) of West Bengal State Transmission Network considering forecasted load/generation data of all the state entities.
- WBSLDC co-ordinates with other statutory bodies like ERLDC, ERPC to ensure healthy operation of the WEST BENGAL system as an integral part of National Grid.

B. Commercial functions-----

1. State level Energy Accounting

- Preparation of FINAL schedules.
- Processing ABT compliant meter data for each day.
- Preparation of Deviation Settlement bills.
- Preparation of monthly Capacity charge statements and certification of the same.
- Preparation of variable energy statements and certification.
- Preparation of Intra-state Reactive Energy Charge bill.

2. Granting permission for open access power trading, both bilateral and trading through exchanges, keeping ATC/TTC limits in view.

3. Maintaining/Operating the UI pool fund.

4. Computation and Collection of Transmission charges, SLDC charges, Meter charges etc. as Nodal agency for Intra-State STOA.

C. Statistical functions-----

1. Providing daily statistical report to CEA, ERPC, ERLDC and other State authorities.

2. Different record keeping for daily, monthly and yearly power system report i.r.o-----

- Unit-wise and total power generated by generating agencies
- Total energy demand met, load-shedding and demand potential of distribution licensees and the state as a whole (excluding DVC served areas)
- Maximum demand met and maximum demand potential of distribution licensees and the state as a whole(excluding DVC served areas)
- States share in Central generating stations
- Tie-line exchanges
- Details of power trading
- Any other relevant power system reports

3. Generating reports as per Regulatory directives.

4. Providing statistical data for future system planning.

D. Other functions-----

- Coordinating and organizing different meetings with state entities as well as with ERLDC and ERPC for properly addressing different techno-commercial issues within the state.
- Implementing different directives for statutory bodies like: CERC, WBERC, CEA for secured Grid operation and commercial settlement.
- Acting as a State Agency within the State of West Bengal for giving Accreditation certificate to Renewable Energy Generator to participate in REC mechanism.

Progress & Achievements of SLDC during the year 2018-19 :

◆ Achievement :

- Successful Mock Black start operation of TLDP-III on 10.01.2019.
- Using available resources SLDC ensured round the clock integrated operation of state power system with ER grid to provide quality power supply across the state through proper management of system parameters (e.g Voltage, VAR etc) throughout the year.
- Arranged for alternative power for CESC within shortest possible time after failure of CESC's internal generation (totally or partially)
- DPL system was disintegrated since January 2019. The distribution part was merged with WBSEDCL and the transmission part merged with WBSETCL. The generating station continued to operate as a separate intra-state generating station. SLDC successfully adopted the new system in the intra-state scheduling mechanism and the balancing system was modified accordingly.
- SLDC's action regarding VAR management & continuous persuasion & monitoring of intra-state generators to absorb VAR during winter lean hours has helped in controlling over voltage & thereby reduction of high VAR bill of the state.
- WBSLDC handled the State network efficiently to transmit the power to meet the demand. During the period 2018-19, State total system (53310MU) [WBSEDCL + CESC + DPL + IPCL] has increased by 1.08% and peak system (8811 MW) increased by 4.22% w.r.t 2017-18.
- SLDC successfully implemented the fourth Amendment of DSM Regulation since January 2019. Market linked UI price was introduced in intra-state ABT.

◆ Progress:

- 100% metering i.r.o WBSEDCL has been completed. However, at present due to inadequate infrastructure at WBSLDC end, energy accounting i.r.o WBSEDCL is not being done against these boundary meters. Furthermore, real time scheduling is becoming much more complex day by day with new regulatory mandates and new open access customers. Therefore, WBSLDC has the future plan for a comprehensive IT solution along with commensurate hardware installation at SLDC for intra-state energy accounting as well as for West Bengal power system data management based on 100 % metering and web-based scheduling.

In line with the above plan SLDC has prepared a DPR of comprehensive IT-solution for state level energy accounting as per guideline of “SAMAST” published by Forum of Regulators. After taking necessary approval from Board of Directors, SLDC has applied to PSDF Secretariat to consider the project proposal for funding under PSDF scheme.

- PMU (Phasor Measurement Unit) has been installed at WBSLDC since September 2018 and presently we are getting PMU data from BkTPP, KTRP, PPSP, Jeerat 400 KV, Durg 400 KV, Aram 400 KV, Kasba 220 KV etc generating stations and sub-stations for system monitoring.