

ANNUAL REVENUE REQUIREMENT
&
FEES AND CHARGES FOR STATE LOAD DESPATCH CENTER,
ODISHA

FOR THE YEAR FY 2020-21

SUBMITTED TO
ODISHA ELECTRICITY REGULATORY COMMISSION
CASE NO.-73/2019



ODISHA POWER TRANSMISSION CORPORATION,
JANPATH, BHUBANESWAR

BEFORE THE ODISHA ELECTRICITY REGULATORY COMMISSION
BHUBANESWAR

CASE No. 73/2019

Filing No- 1

IN THE MATTER OF: An application for determination of Annual Revenue Requirement and Fees and Charges of State Load Despatch Centre (SLDC), Odisha for the FY 2020-21.

and

IN THE MATTER OF: Odisha Power Transmission Corporation Limited, Janpath, Bhubaneswar

.... Applicant

The Humble Applicant above named

MOST RESPECTFULLY SHOWETH THAT:

Section 31(1) of the Electricity Act, 2003, provides that the State Government shall establish a State Load Despatch Centre (SLDC). Section 31(2) provides that the said SLDC shall be operated by a Government company / authority / corporation constituted by or under any State Act and that until such company / authority / corporation is notified by the State Government, the State Transmission Utility (STU) shall operate the SLDC.

Government of Odisha, Department of Energy vide Notification No.6892 dated 09.06.2005 issued the Orissa Electricity Reform (Transfer of Transmission and Related Activities) Scheme 2005 and have notified Odisha Power Transmission Corporation Ltd. (OPTCL) as the State Transmission Utility (STU) and have vested the State Load Despatch functions with OPTCL till further orders of the State Government from the date of transfer.



Prabodh Kumar Mishra

As per Section 32 of the Act, SLDC shall be the apex body to ensure integrated operation of the power system in a State and shall discharge functions as mentioned under Section 32(2) (a) (b) (c) (d) & (e).

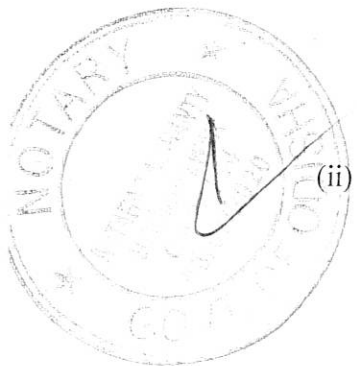
Section 32 (3) of the Act provides for levy and collection of such fees and charges from the Generating companies and other licensees engaged in the intra-state transmission of electricity as may be specified by the State Commission.

The Govt. of India, Ministry of Power vide Order dated 04.02.2008 constituted a Committee under the Chairmanship of Sri Gireesh B Pradhan, Additional Secretary to MoP to examine the issues for ring fencing of State Load Despatch Centres to ensure their functional autonomy and give recommendation.

The relevant extracts from the recommendation of the above committee for functional autonomy of the Load Despatch Centres are as follows:

- (a) The Load Despatch Centre should be ring fenced suitably to ensure their functional autonomy by taking the following steps.
 - (i) The Appropriate Government should take suitable steps to facilitate independent functioning of the Load Despatch Centres in line with the Electricity Act 2003 and National Electricity Policy. To begin with, the State Governments are urged to create a separate representative board structure for governance of LDCs on the lines of wholly owned subsidiary being created for the independent System Operation of RLDCs and NLDC.
 - (ii) The financial accounts should be separated for all LDCs by 31st March 2009 with the appropriate Electricity Regulatory Commissions (ERC) specifying the fees and charges payable.

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(b) For making Load Despatch Centres financially self-reliant, the Electricity Regulatory Commission should recognize the three distinct revenue streams mentioned as under;

- (i) Fees and charges for system operation
- (ii) Tariff for decision support system and IT infrastructure (currently only ULDC tariff)
- (iii) Operating charges for scheduling, metering and settlement for market players.

Hon'ble Commission under Section 86(2)(iii) of the Act 2003 advised the State Govt. for recognition and restructuring of SLDC separating from OPTCL- the STU notifying an appropriate Transfer Scheme by 31.12.2008 positively.

OERC vide letter No. 1313 dated 04.08.2007 issued a road map for implementation of levy of annual fee and operating charges for SLDC functions in Odisha in order to separate SLDC charges from the existing transmission charges of OPTCL with effect from 01.04.2008 to make SLDC self-reliant. As per direction of Hon'ble Commission, separate application for approval of Annual Fees and Operating Charges for SLDC function is being filed by OPTCL since FY: 2009-10.

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Further, in the report submitted by the "Task Force on Capital Expenditure and issues related to Emolument for Personnel in Load Despatch Centres" in the Salient points of part-I 1, it is mentioned that:

(a) Ownership of new RTUs should rest with the entities in whose premises these RTUs would be located. Regarding ownership of existing as well as work-in-progress RTUs in central sector stations and state sector stations, these could rest with the CTU and STUs / SEBs respectively as per the prevailing arrangement. However in due course of time, modalities for their transfer to actual entities can be planned by mutual consent.

(b) The responsibility of owning and providing the communication system from sub-station to the nearest control centers as well as between control centers should continue to be that of CTU or STUs / SEBs. However, in case of any special requirements the LDCs

can access, plan and take a lease such communication system from other telecom service providers also.

- (c) The computer system along with software and peripherals located in the control center building of NLDC/RLDCs and SLDC/Sub-LDCs should be transferred to respective entities managing these LDCs.*

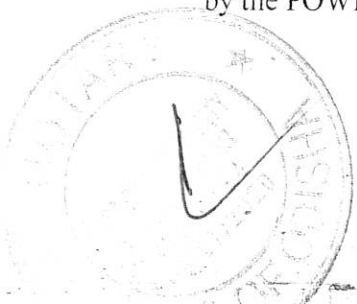
Accordingly, the application for approval of Annual Revenue Requirement and Fees & Charges for SLDC for FY 2020-21 has been prepared in line with the provision mentioned in the CERC (Fees & Charges of RLDC & other related matters) Regulations, 2009, OERC (Fees & Charges of SLDC & other related matters) Regulations, 2010 and considering the following recommendation of the MoP Committee Report.

- (A) SLDC is to be equipped suitably to play the pivotal role of an Independent System Operator (ISO).
- (B) Power system operation is the core activity of LDCs. Efficient load dispatching also requires a deep understanding of Transmission, Generation and Distribution technology. In view of the above, the executives shall be from electrical engineering discipline. Efforts are to be made to supplement them with interdisciplinary learning and development.

The functional organizational structure of SLDC has been approved for discharging SLDC functions smoothly as per the provisions of the Act to facilitate an Independent System Operator in order to ensure an efficient, reliable and secure power system operation and merit order dispatch of electricity.

As per the recommendation in the report of the task force committee on "Capital Expenditure and Issues related to Emoluments for Personnel in Load Despatch Centres", the assets pertaining to the Control Centre (SLDC) has to be handed over to the State Load Despatch Centres. Provision for recovery of the outstanding amount for investments made by the POWERGRID on ULDC project shall be kept in the ARR of SLDC.

Prabodha Kumar Mishra



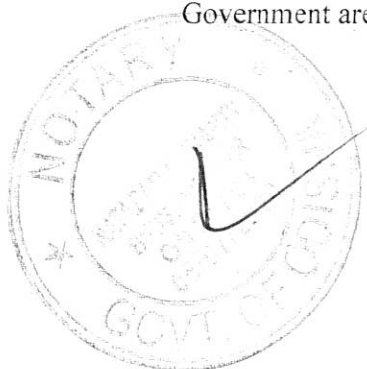
Provision of CAPEX Plan

1. OERC vide order dated 23.03.2017 passed in case No. 47 of 2017 has approved CAPEX plan of SLDC for Rs. 717.99 lakhs, which includes construction of a new building. Total cost of the building as proposed is Rs. 450 lacs. Phasing of expenditure for the building was Rs. 135.00 lacs during FY-2016-17 and Rs. 315.00 lacs during the FY-2017-18.
2. Further, on request of SLDC, Hon'ble OERC vide order dated 22.03.2018 in case No. 78 of 2017 has allowed for shifting of the CAPEX plan implementation by one year i.e. during FY 2017-18 and 2018-19.
3. Construction of new building could not be completed due to modification of plan and site. The revised proposal along with estimate has been submitted to the Hon'ble Commission for approval.
4. OERC vide letter No. DIR(T)-351/08/1288 dated 10.09.2019 have approved Rs. 27.72 lakhs towards procurement & installation of 16 numbers of AC machines and computers & peripherals.
5. The status of CAPEX is enclosed herewith as **Annexure-I**.
6. The expansion of VPS and up-gradation of VPS work is under progress and expected to be completed by December 2019.

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Organizational structure and their Functions

The man power structure given in the ARR is in line with the approved structure by the Government of Odisha. As per the approved structure, total 67 nos. of executives / non-executives shall be deployed at SLDC. The details of staffing structure approved by the Government are indicated at **Annexure-II**.



Computation of item wise Annual Revenue Requirement for FY 2020-21

Annual Charges: As per the OERC (Fees and Charges of State Load Despatch Center and other related matters) Regulations, 2010 the annual charges of State Load Despatch Center consists of the following components.

- a) Return on equity;
- b) Interest on loan capital;
- c) Depreciation;
- d) Operation & maintenance expenses excluding human resource expenses;
- e) Human resources expenses;
- f) Interest on working capital;

(a) Return on equity & (b) Interest on loan capital:

Since no equity has been invested by SLDC and there is no outstanding loan on SLDC, item (a) & (b) are not considered in the ARR.

(c) Depreciation:

Depreciation for the assets in the Unified Load Despatch Center and offices in SLDC has been computed as Rs. **38.388** lacs as per CERC Regulation (Form-4B). The details of depreciation are indicated in **Form-6A & 6B**. The major amount of depreciation charges is for recovering the depreciation cost for computers & peripherals for SLDC data centre, procured during FY 2017-18 / 2018-19 amounting Rs. **26.505** lacs and depreciation cost of VPS screen amounting Rs. **5.6** lacs.

(d) Operation and Maintenance expenses:

Operation and Maintenance expenses excluding Human Resources expenses for FY 2020-21 has been computed as **Rs. 192.368 lacs (Form-7A)** considering the R&M expenditure proposed to be incurred for Facility Management Services (FMS), Website charges, IT equipment. Further, Electrical maintenance of office building and colony

Prabodha Kumar Mishra

quarters etc. has also been kept as those quarters & office are being used by SLDC personnel as detailed at Form-7C.

A&G expenses includes Office expenses. Training and Certification programme of operators and executives, professional charges, communication system, gardening, meeting expenses etc., which are detailed Form-7D.

The O & M expenses have been projected considering actual expenditure to be incurred during FY 2020-21. Due to enhancement of FMS charges and AMC charges of computers and peripherals the projected O&M expenses have been exceeded the escalation limit, which may kindly be considered.

(e) Human resources expenses:

Human resources expenses have been computed as Rs. **801.309** lacs considering the existing employees including 5 numbers of Telecommunication personnel working at SLDC control centre as indicated in **Form-7B (4)**. In addition to the above, salary for 2 numbers of contractual / outsourcing staffs, engaged at SLDC as on date has been considered.

Payment of 60% arrear amounting Rs. **103.877** lakhs due to implementation of 7th Pay commission report has also been considered.

(f) Interest on working capital:

The interest on working capital (amounting Rs. **260.040** lacs) has been computed as Rs. **31.335** lacs as per OERC Regulation considering 12.05 % rate of interest (SBI base Rate 9.05 % plus 300 basis point). Even though SLDC has not taken loan to meet the working expenses, the provision has been kept due to non-receipt of SLDC charges from the Users for a period of two months from the commencement of Financial Year. The expenses have to be met from the charges collected from the Users for the previous year which could have been kept in the SLDC development fund. The loss of interest for the above amount is being recovered as interest on working capital. The details are indicated in **Form-8**.

Pradeep Kumar Mishra

Abstract of expenses proposed for FY 2020-21:

Sl. No.	Particulars	2020-21
1	Return on Equity	0.000
2	Interest on Loan Capital	0.000
3	Depreciation	38.388
4.	O&M Expenses excluding human resource expenses	192.368
5.	Human Resource expenses	801.309
6.	Interest on Working Capital	31.335
	Total expenses	1063.400

- 2. Certification for LDC personnel:-** The recommendation No. (4) in Clause 6.4 of Report of the Committee on "Manpower, Certification and Incentives for System Operation and Ring fencing Load Despatch Centres" has envisaged that the highly specialized and technical nature of LDC function necessitates a suitable compensation structure to attract and retain talent. The committee recommended the compensation structure, innovative incentive schemes for higher learning and monetary incentives based on their ratings. For imparting training to the executives, the expenditure for Training & Certification of LDC personnel has been projected as Rs **9.568** lacs for FY 2020-21 (7D-33).
- 3. SLDC Assets:-** The assets of SLDC along with sub-SLDC have been identified and presently being exclusively used by SLDC personnel awaiting for transfer as per the direction of Hon'ble Commission.
- 4. Determination of the Annual Charges:-** The Annual Charges for SLDC has been computed as per provision in Regulation 17, 18, 19, 20, 21 & 22 of OERC Regulation as detailed below:

Annual charges: Annual charges computed shall comprise of

- A) System Operation Charges (SOC) i.e. 80% of Annual charge
- B) Market Operation Charges (MOC) i.e. 20% of Annual charge

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System Operation Charges (SOC) shall be collected from users in the following ratio

- Intra State Transmission Licensee -10% on the basis of Ckt-Kms
- Generating Company & Seller - 45% on the basis of Installed capacity
- Distribution Licensee & buyers - 45% on the basis of allocation

Market Operation Charges (MOC) shall be collected from users in the following ratio

- Generating Company & Seller - 50% on the basis of Installed capacity
- Distribution Licensee & buyers - 50% on the basis of allocation

As per the proposed maintenance programme, the installed capacity of OHPC stations has been considered as 1700 MW as per the availability projection made by OHPC considering the R&M programme. **(Annexure-III)**.

For the purpose of determination of the above charges for CGPs, the maximum MW scheduled during April to October 2019 has been considered. In absence of approved injection schedule for some of the CGPs during the FY 2019-20 (up to October'19), the approved schedule quantum for previous year has been considered for purpose of levying SLDC charges.

Some of the industries are also importing power through Intra / Inter-State open access. It is proposed to collect SLDC charges from such industries only for the month of their transaction basing on the maximum scheduled quantum.

Abstract of collection of SLDC charges proposed for FY 2020-21:

	(Rs in Lacs)
Annual charges (AFC)	1063.400
System Operation Charges (SOC) (80% of the AFC)	850.720
Intra State Transmission Licensee @10% of SOC	85.072
Generating Station & Sellers @45% of SOC	382.824
Distribution Licensees & Buyers@45% of SOC	382.824
Market Operation Charges (MOC) (20% of the AFC)	212.680
Generating Station & Sellers @50% of MOC	106.340
Distribution Licensees & Buyers@50% of MOC	106.340

Prabodha Kumar Mishra

5. Registration Fee:-

Besides the above charges, provision for collection of registration fee @ Rs1.00 lac from all users has been made as per OERC Regulation. It is also proposed to collect registration fee from the industries who are importing power through Inter-State open access.

6. Application fee and scheduling charges:- Application fee and Scheduling charges of Rs 5000/- per application and Rs.2000/- per day or part thereof respectively shall be paid by the short term open access Customers.

That the Applicant reserves its right to make further submissions as may in the circumstances be deemed necessary in the interest of justice.

Prayer

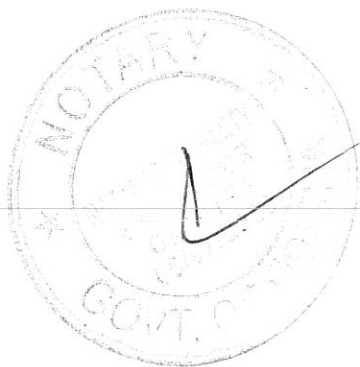
Considering the submission made above, OPTCL prays Hon'ble Commission to approve the Annual Revenue Requirement of **Rs.1063.400 lacs** for FY 2020-21 towards State Load Dispatch Centre (SLDC) function separately and kindly allow recovering the same from the users.

Bhubaneswar
29th November 2019

BY THE APPLICANT
THROUGH

Parabudha Kumar Mishra

Chief Load Despatcher, SLDC
OPTCL, Bhubaneswar



**BEFORE THE ODISHA ELECTRICITY REGULATORY COMMISSION
BHUBANESWAR**

CASE NO.....

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IN THE MATTER OF: An application for determination of Annual Revenue Requirement and Fees and Charges of State Load Despatch Centre (SLDC), Odisha for the FY 2020-21.

and

IN THE MATTER OF: Odisha Power Transmission Corporation Limited, Janpath,
Bhubaneswar

.... Applicant

Affidavit verifying the Application

I, Sri Prabodha Kumar Mishra, son of Late Nalini Ranjan Mishra, aged about 59 years, presently working at SLDC, Bhubaneswar do solemnly affirm and say as follows:

I am the Chief Load Despatcher, SLDC of Odisha Power Transmission Corporation Limited, the applicant in the above matter, and am duly authorized by the said applicant to make this affidavit on its behalf.

The statements made herein the above are based on information and I believe them to be true.

Prabodha Kumar Mishra

DEPONENT

Bhubaneswar

29th November, 2019

SWORN BEFORE ME

Abhishek Chanty
N. MOHANTY
NOTARY

Regd. No. ON 20/94

382, Bholi Nagar,

Bhubaneswar-751022

29.11.19



LEVY AND COLLECTION OF FEES & CHARGES (Rs. in Lacs)

Annual charges	1063.400
Total Cost (Annual Fixed Cost)	1063.400
System Operation Charges (SOC) (80% of the AFC)	850.720
Market Operation Charges (MOC) (20% of the AFC)	212.680
System Operation Charges (SOC)	850.720
Intra State Transmission Licensee @10% of SOC	85.072
Generating Station & Sellers @45% of SOC	382.824
Distribution Licensees & Buyers@45% of SOC	382.824
(a) Intra State Transmission Licensee (SOC per month)	7.089
(b) Generating Station & Sellers @45% of SOC	382.824

(Rs. in Lacs)

Sl. No.	Generating Company / Sellers	Installed Capacity (MW)	Total amount (Annual)	Total amount (Monthly)
A	State Generating Station			
1	OHPC	1700.00	106.624	8.885
2	OPGC Stage-I	420.00	26.342	2.195
3	OPGC Stage-II	1320.00	82.790	6.899
4	TTPS	460.00	28.851	2.404
B	Small Hydro & Bio-mass			
5	OPCL (Small Hydro)	20.00	1.254	0.105
6	Meenakshi Power Ltd. (Small Hydro)	37.00	2.321	0.193
7	Shalivahana Green Energy Ltd	20.00	1.254	0.105
C	IPP			
8	GMR, Kamalanga	350.00	21.952	1.829
9	Vedanta Limited (IPP)	600.00	37.632	3.136
10	NBVL (IPP)	60.00	3.763	0.314
D	CGPs	Maximum Scheduled (MW) (up to end of October-2019)		
11	Aarti Steel Ltd	48.00	3.011	0.251
12	Aditya Aluminium Limited	2.00	0.125	0.010
13	Aryan Ispat & Power Pvt. Ltd.	2.61	0.164	0.014
14	Bhubaneshwar Power Pvt. Ltd.	119.00	7.464	0.622
15	Bhusan Power & Steel Ltd., Jharsuguda	30.00	1.882	0.157
16	Tata Steel BSL Limited, Meramundali	79.90	5.011	0.418
17	ESSAR Power (Orissa) Ltd.	27.50	1.725	0.144
18	FACOR Power Ltd.	8.34	0.523	0.044
19	HINDALCO	16.08	1.009	0.084
20	IFFCO	10.00	0.627	0.052
21	IMFA	44.54	2.794	0.233
22	Jindal Stainless Limited, Duburi	57.37	3.598	0.300
23	Jindal Steel & Power Ltd., Angul	202.18	12.681	1.057
24	Maithan Ispat Limited	9.91	0.622	0.052
25	MGM Minerals Ltd.	3.96	0.248	0.021
26	NALCO, Angul	43.20	2.710	0.226
27	Narberham Power & Steel (P) Ltd	3.00	0.188	0.016
28	Nava Bharat Ventures Limited	52.00	3.261	0.272
29	Nilachal Ispat Nigam Limited	4.91	0.308	0.026
30	Dalmia Cement (Bharat) Ltd. [OCL]	12.66	0.794	0.066
31	Pattanaik Steel & Alloys Limited	2.00	0.125	0.010
32	RSP	4.00	0.251	0.021
33	Shree Ganesh Metalicks Limited	1.05	0.066	0.005
34	Shyam Metalicks & Energy Limited	1.00	0.063	0.005
35	SMC Power generation	4.00	0.251	0.021
36	Tata Steel Long Product Limited (TSIL)	23.00	1.443	0.120
37	Vedanta Limited (Jharsuguda)	215.00	13.485	1.124
38	Vedanta Limited (Lanjigarh)	5.00	0.314	0.026
39	VISA Steel Limited	25.00	1.568	0.131
40	Yazdani Steel & Power Limited	2.00	0.125	0.010
	Solar Projects	Installed Capacity (MW)		
41	ACME, Odisha	25.00	1.568	0.131
42	AFTAB Solar	5.00	0.314	0.026
43	BEL SOLAR	7.50	0.470	0.039
44	GEDCOL	20.00	1.254	0.105
	Total	6103.71	382.824	31.902
(c)	Distribution Licensees & Buyers @45% of SOC		382.824	
		% share		
45	CESU	34.99	133.950	11.163
46	NESCO	22.67	86.786	7.232
47	WESCO	27.84	106.578	8.882
48	SOUTHCO	14.50	55.510	4.626
	Total	100	382.824	31.902

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Market Operation Charges (MOC)
(a) Generating Company @50% of MOC

212.680
106.340

(Rs. in Lacs)

Sl. No.	Generating Company / Sellers	Installed Capacity (MW)	Total amount	Total amount
			(Annual)	(Monthly)
A	State Generating Station			
1	OHPC	1700.00	29.618	2.468
2	OPGC Stage-I	420.00	7.317	0.610
3	OPGC Stage-II	1320.00	22.997	1.916
4	TTPS	460.00	8.014	0.668
B	Small Hydro & Bio-mass			
5	OPCL (Small Hydro)	20.00	0.348	0.029
6	Meenakshi Power Ltd. (Small Hydro)	37.00	0.645	0.054
7	Shalivahana Green Energy Ltd	20.00	0.348	0.029
C	IPP			
8	GMR, Kamalanga	350.00	6.098	0.508
9	Vedanta Limited (IPP)	600.00	10.453	0.871
10	NBVL (IPP)	60.00	1.045	0.087
D	CGPs	Maximum Scheduled (MW) (up to end of October-2019)		
11	Aarti Steel Ltd	48.00	0.836	0.070
12	Aditya Aluminium Limited	2.00	0.035	0.003
13	Aryan Ispat & Power Pvt. Ltd.	2.61	0.045	0.004
14	Bhubaneswar Power Pvt. Ltd.	119.00	2.073	0.173
15	Bhusan Power & Steel Ltd., Jharsuguda	30.00	0.523	0.044
16	Tata Steel BSL Limited, Meramundali	79.90	1.392	0.116
17	ESSAR Power (Orissa) Ltd.	27.50	0.479	0.040
18	FACOR Power Ltd.	8.34	0.145	0.012
19	HINDALCO	16.08	0.280	0.023
20	IFFCO	10.00	0.174	0.015
21	IMFA	44.54	0.776	0.065
22	Jindal Stainless Limited, Duburi	57.37	1.000	0.083
23	Jindal Steel & Power Ltd., Angul	202.18	3.522	0.294
24	Maithan Ispat Limited	9.91	0.173	0.014
25	MGM Minerals Ltd.	3.96	0.069	0.006
26	NALCO, Angul	43.20	0.753	0.063
27	Narberham Power & Steel (P) Ltd	3.00	0.052	0.004
28	Nava Bharat Ventures Limited	52.00	0.906	0.075
29	Nilachal Ispat Nigam Limited	4.91	0.086	0.007
30	Dalmia Cement (Bharat) Ltd. [OCL]	12.66	0.221	0.018
31	Pattanaik Steel & Alloys Limited	2.00	0.035	0.003
32	RSP	4.00	0.070	0.006
33	Shree Ganesh Metalicks Limited	1.05	0.018	0.002
34	Shyam Metalicks & Energy Limited	1.00	0.017	0.001
35	SMC Power generation	4.00	0.070	0.006
36	Tata Steel Long Product Limited (TSIL)	23.00	0.401	0.033
37	Vedanta Limited (Jharsuguda)	215.00	3.746	0.312
38	Vedanta Limited (Lanjigarh)	5.00	0.087	0.007
39	VISA Steel Limited	25.00	0.436	0.036
40	Yazdani Steel & Power Limited	2.00	0.035	0.003
E	Solar Projects	Installed Capacity (MW)		
41	ACME, Odisha	25.00	0.436	0.036
42	AFTAB Solar	5.00	0.087	0.007
43	BEL SOLAR	7.50	0.131	0.011
44	GEDCOL	20.00	0.348	0.029
	Total	6103.71	106.340	8.862

(b) Distribution Licensees & Buyers @50% of MOC

106.340

Sl.		% share		
45	CESU	34.99	37.208	3.101
46	NESCO	22.67	24.107	2.009
47	WESCO	27.84	29.605	2.467
48	SOUTHCO	14.50	15.419	1.285
	Total	100	106.340	8.862

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**Checklist of Forms and other information/ documents for tariff filing for State Load
Despatch Center, Odisha**

Form No.	Tariff Filing Formats (SLDC)	Tick
FORM- 1	Summary Sheet	✓
FORM- 2	Normative Parameters considered for tariff calculations	
FORM- 3	Abstract of Admitted Capital Cost for the existing Projects	
FORM- 4A	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	
FORM- 4B	Element wise Break-up of Capital Cost	
FORM- 4C	Break-up of Construction/Supply/Service packages(Ongoing)	
FORM- 4D	Financial Package upto COD	
FORM- 4E	Statement of Additional Capitalization after COD	
FORM- 4F	Statement of Capital cost	
FORM- 4G	Statement of Capital Woks in Progress	
FORM- 4H	Financing of Additional Capitalization	
FORM- 4I	Details of Foreign Equity	
FORM- 5A	Calculation of Interest on Normative Loan	
FORM- 5B	Calculation of Weighted Average Rate of Interest on Actual Loans ¹	
FORM- 5C	Details of Foreign loans	
FORM- 5D	Details of Project Specific Loans	
FORM- 5E	Details of Allocation of corporate loans to various RLDCs	
FORM- 6A	Statement of Depreciation	✓
FORM- 6B	Calculation of Depreciation Rate	✓
FORM- 7A	Details of Operation and Maintenance Expense excluding human resource expenses	✓
FORM- 7B	Details of Human Resource Expenses	✓
FORM- 7C	Details of Repairs and Maintenance Expenses	✓
FORM- 7D	Details of Administrative and General expenses	✓
FORM- 8	Calculation of Interest on Working Capital	✓
FORM- 9	Draw Down Schedule for Calculation of IDC & Financing Charges	
FORM- 10	Actual cash expenditure	
Other Information / Documents		
1	Details of CAPEX approved & status (Annexure-I)	✓
2	Organizational structure & their functions (Annexure-II)	✓
3	Letter of OHPC for computation of Installed capacity for FY 2020-21(Annexure-III)	✓

Prebodha Kumar Mishra

Summary Sheet

Form- 1

State Load Despatch Centre, Odisha

(Rs. in lacs)

Sl.No.	Particulars	Form No	2020-21
1	2	3	4
1	Return on Equity		0.000
2	Interest on Loan Capital		0.000
3	Depreciation	6-A	38.388
4.	O&M Expenses excluding human resource expenses	7-A	192.368
5.	Human resource expenses	7-B(4)	801.309
6.	Interest on Working Capital	8	31.335
Total			1063.400

Prabodha Kumar Mishra

Form - 6A

Statement of Depreciation

State Load Despatch Centre, Odisha

(Amount in lacs)

Financial Year	2018-19	2019-20	2020-21
1	2	3	4
Recovery of Capital Cost (Amount to be recovered during the year)	0.000	0.000	0.000
Depreciation on existing assets	58.528	44.650	38.388
TOTAL	58.528	44.650	38.388

Prepared by Kumar Arshina

Calculation of depreciation cost

State Load Despatch Centre, Odisha

(Amount in lacs)

Sl. No.	Name of the Assets	Gross Block as on 31.03.2019	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for the year 2020-21
	1	2	3	4=Col.2 X Col.3
1.	Land	00.00	0.00%	0.000
2.	Office Building	00.00	1.63%	0.000
3.	Residential Building	00.00	1.63%	0.000
4.	Roads	00.00	100.00%	0.000
5.	Battery including new for data centre UPS	09.91	5.28%	0.523
6.	Isolation transformer & ACDB for UPS	07.56	5.28%	0.399
7.	Underground Cables	00.58	5.28%	0.031
8.	Over Head LT lines	00.00	5.28%	0.000
9.	Voice Recording System	04.68	5.28%	0.247
10.	Split type Air Conditioner			
(i)	Procured during 2012-13 (10)	03.03	5.28%	0.160
(ii)	Procured during 2014-15 (14)	05.82	5.28%	0.307
(iii)	Procured during 2016-17 (18)	07.52	5.28%	0.397
11.	DG Set (ULDC project)	00.00	5.28%	0.000
12.	DG Set for disaster management	07.49	5.28%	0.396
13.	3 HP water pump	00.29	6.33%	0.019
14.	Office Furnitures including new	05.93	6.33%	0.375
15.	Office equipment	00.05	6.33%	0.003
16.	Electrical Installation for SLDC building (new)	13.15	6.33%	0.832
17.	Street Light including UG cable (new)	07.63	5.28%	0.403
18.	Communication Equipment (intercom system)	00.00	6.33%	0.000
19.	Computer tables for EASSC	00.84	6.33%	0.053
20.	Software for EASS	00.23	30.00%	0.068
21.	Video Projection System (VPS)	37.33	15.00%	5.600
22.	Photo copier	02.79	6.33%	0.177
23.	UPS for desktops	01.08	5.28%	0.057
24.	End User's equipments such as router etc. to receive the metering data	01.30	15.00%	0.195
25.	Computers & peripherals for data centre	176.70	15.00%	26.505
26.	RVDU at Jaynagar sub-station	09.65	15.00%	1.448
27.	Vehicle	03.66	5.28%	0.193
	TOTAL	307.23		38.388
	Weighted Average Rate of Depreciation(%)	12.49		

Prabuddha Kumar Mishra

*Assets of ULDC projects except battery, UPS & DG Set have not been considered for computation of depreciation cost as they are owned by PGCIL.

* Assets such as Land & Building, Road have not been handed over to SLDC and hence not been considered for calculation of depreciation.

Details of Operation and Maintenance Expenses excluding human resource expenses
State Load Despatch Centre, Odisha

SL No	ITEMS	Form No	2018-19 (Actual)	2019-20 (Approved)	2019-20 (Actual up to Sept.-19)	(Rs. In Lacs) 2020-21 (Prop.)
1	2	3	4	5	6	7
1	Repairs and maintenance expenses	7-C	53.377	50.750	7.788	57.020
2	Administrative and general expenses, etc	7-D	118.010	116.740	49.161	135.348
	Total		171.387	167.490	56.949	192.368

P. Subodh Kumar Mishra

Details of Human Resource Expenses

1. ACTUALS FOR PREVIOUS YEAR (2018-19)
2. ACTUALS FOR IST SIX MONTHS OF THE CURRENT YEAR (2019-20)
3. EXPECTED FOR LAST SIX MONTHS OF THE CURRENT YEAR(2019-20)
4. EXPECTED FOR ENSUING YEAR(2020-21)

State Load Despatch Centre, Odisha

Fig in Lacs

Sl.No.	Account Code	Particulars	Executive		Non-Executive		Total
			Technical	Non-Tech.	Technical	Non-Tech.	
1.	Salaries		353.17	42.5	27.63	17.58	440.880
2.	Over-time						0.000
3.	Dearness Allowance		59.67	7.28	4.27	2.87	74.090
4.	Other Allowance such as shift, Conveyance, ABT, green card washing etc.		12.03	1.28	1.05	0.471	14.831
5.	Contractual Staff Payment			0.9		6.731	7.631
6.	Productivity Linked Incentive						
7.	Sub Total (1 to 6)						537.432
	OTHER STAFF COST						
8.	Reimbursement of Medical Expenses		6.66	0.78	1.101	1.02	9.561
9.	Leave Travel Concession						0.000
10.	Reimbursement of House Rent		17.65	1.11	1.78	3.101	23.641
11.	Interim Relief to Staff						0.000
12.	Encashment of Earned Leave	Included in salary					0.000
13.	Honorarium						0.000
14.	Payment under Workmen compensation Act						0.000
15.	Ex-gratia		6.372	0.6	0.85	0.34	8.162
16.	Expenditure on VRS						0.000
17.	Sub Total (8 to 16)						41.364
18.	Staff Welfare Expenses					0.28	0.280
19.	Terminal Benefits (Employer's Share to PF)		7.6	0	0	0.42	8.020
20.	Provisions-Arrear Salary(RPP)						0.000
21.	Others (Specify) Uniform & liveries		0.264	0.036	0.06	0.012	0.372
22.	Total (7+17+18+19+20+21)		463.416	54.486	36.741	32.825	587.468
23.	Revenue recovered, if any						0.000
24.	Net Total (22-23)		463.416	54.486	36.741	32.825	587.468

ADDITIONAL INFORMATION							
1.	No. of Employees as on :	31.03.2019					
	i) Executives		35	4			39
	ii) Non-Executives				4	3	7
	iii) Skilled						
	iv) Non-Skilled						
	v) Contractual Staff					4	4
	Total						50
2.	No. of Employees per						
	i) MW handled						
	ii) MKwh handled						

Probadha Kumar Mishra

Details of Human Resource Expenses

1. ACTUALS FOR PREVIOUS YEAR (2018-19)
2. ACTUALS FOR IST SIX MONTHS OF THE CURRENT YEAR (2019-20)
3. EXPECTED FOR LAST SIX MONTHS OF THE CURRENT YEAR(2019-20)
4. EXPECTED FOR ENSUING YEAR(2020-21)

State Load Despatch Centre, Odisha

Fig in Lacs

Sl.No	Account Code	Particulars	Executive		Non-Executive		Total
			Technical	Non-Tech.	Technical	Non-Tech.	
1.	Salaries		191.144	24.037	11.911	9.042	236.133
2.	Over-time						0.000
3.	Dearness Allowance		23.150	2.910	1.444	1.035	28.589
4.	Other Allowance such as shift, Conveyance, ABT, green card washing etc.		7.5603	0.731	0.526	0.291	9.108
5.	Contractual Staff Payment						0.000
6.	Productivity Linked Incentive						0.000
7.	Sub Total (1 to 6)		221.854	27.677	13.881	10.418	273.830
	OTHER STAFF COST						
8.	Reimbursement of Medical Expenses		3.415	0.437	1.153	0.452	5.457
9.	Leave Travel Concession						0.000
10.	Reimbursement of House Rent		9.453	0.582	0.924	1.808	12.767
11.	Interim Relief to Staff						0.000
12.	Encashment of Earned Leave	Included in salary					0.000
13.	Honorarium						0.000
14.	Payment under Workmen compensation Act						0.000
15.	Ex-gratia						0.000
16.	Expenditure on VRS						0.000
17.	Sub Total (8 to 16)		12.868	1.019	2.077	2.260	18.223
18.	Staff Welfare Expenses						0.000
19.	Terminal Benefits (Employer's Share)		5.284	0.362	0.000	0.256	5.902
20.	Provisions - RPP						0.000
21.	Others (Specify) (Uniform & Liveries)						0.000
22.	Total (7+17+18+19+20+21)		240.005	29.058	15.958	12.934	297.956
23.	Revenue recovered, if any						0.000
24.	Net Total (22-23)		240.005	29.058	15.958	12.934	297.956
	ADDITIONAL INFORMATION						
1.	No. of Employees as on : 30.09.2019						
	i) Executives		36	6			42
	ii) Non-Executives				4	3	7
	iii) Skilled						
	iv) Non-Skilled						
	v) Contractual Staff					2	2
	Total						51
2.	No. of Employees per						
	i) MW handled						
	ii) MKwh handled						

Prebocha Kumar Mishra

Details of Human Resource Expenses

1. ACTUALS FOR PREVIOUS YEAR (2018-19)
2. ACTUALS FOR IST SIX MONTHS OF THE CURRENT YEAR (2019-20)
3. EXPECTED FOR LAST SIX MONTHS OF THE CURRENT YEAR(2019-20)
4. EXPECTED FOR ENSUING YEAR(2020-21)

State Load Despatch Centre, Odisha

Fig in Lacs

Sl.No.	Account Code	Particulars	Executive		Non-Executive		Total
			Technical	Non-Tech.	Technical	Non-Tech.	
1.	Salaries		191.974	24.537	12.111	9.342	237.963
2.	Over-time						0.000
3.	Dearness Allowance		32.635	4.171	2.058	1.588	40.452
4.	Other Allowance such as shift, Conveyance, ABT, green card, washing etc.		7.5603	0.731	0.526	0.291	9.108
5.	Contractual Staff Payment /Trainee					3.35	3.350
6.	Productivity Linked Incentive						0.000
7.	Sub Total (1 to 6)		232.169	29.439	14.695	14.571	290.87
	OTHER STAFF COST						
8.	Reimbursement of Medical Expenses		3.415	0.437	0.606	0.467	4.924
9.	Leave Travel Concession						0.000
10.	Reimbursement of House Rent		9.453	0.582	0.964	1.868	12.867
11.	Interim Relief to Staff						0.000
12.	Encashment of Earned Leave	Included in salary					0.000
13.	Honorarium						0.000
14.	Payment under Workmen compensation Act						0.000
15.	Ex-gratia		6.669	0.992	0.680	0.340	8.681
16.	Expenditure on VRS						0.000
17.	Sub Total (8 to 16)		19.537	2.011	2.250	2.675	26.472
18.	Staff Welfare Expenses					0.250	0.250
19.	Terminal Benefits (Employer's Share)		5.284	0.362	0.000	0.256	5.902
20.	Provisions- RPP						0.000
21.	Arrear Salary (7th Pay)		103.877				103.877
22.	Others (Specify) (Uniform & Liveries)						0.000
23.	Total (7+17+18+19+20+21)		360.867	31.811	16.944	17.752	427.374
24.	Revenue recovered, if any						0.000
25.	Net Total (22-23)		360.867	31.811	16.944	17.752	427.374
	ADDITIONAL INFORMATION						
1.	No. of Employees as on :	30.09.2019					
	i) Executives		36	5			41
	ii) Non-Executives				5	3	8
	iii) Skilled						
	iv) Non-Skilled						
	v) Contractual Staff					2	2
	Total						51
2.	No. of Employees per						
	i) MW handled						
	ii) MKwh handled						

Prepared by K. S. Mishra

Details of Human Resource Expenses

1. ACTUALS FOR PREVIOUS YEAR (2018-19)
2. ACTUALS FOR IST SIX MONTHS OF THE CURRENT YEAR (2019-20)
3. EXPECTED FOR LAST SIX MONTHS OF THE CURRENT YEAR(2019-20)
4. EXPECTED FOR ENSUING YEAR(2020-21)

State Load Despatch Centre, Odisha

Fig in Lacs

Sl.No.	Account Code	Executive		Non-Executive		Total
		Technical	Non-Tech.	Technical	Non-Tech.	
1.	Salaries	383.064	56.172	24.024	18.852	482.112
	Over-time					0.000
2.						
3.	Dearness Allowance	95.766	14.043	6.006	4.713	120.528
4.	Other Allowance such as shift, Conveyance, ABT, green card washing etc.	15.908	1.643	1.144	0.588	19.283
5.	Contractual Staff Payment				3.35	3.350
6.	Compensation for LDC Personnel					0.000
7.	Sub Total (1 to 6)	494.738	71.858	31.174	27.503	625.273
	OTHER STAFF COST					
8.	Reimbursement of Medical Expenses	6.806	0.953	1.166	0.915	9.840
9.	Leave Travel Concession	5.000				5.000
10.	Reimbursement of House Rent	19.708	1.450	1.836	3.660	26.654
11.	Interim Relief to Staff					0.000
12.	Encashment of Earned Leave					0.000
13.	Honorarium					0.000
14.	Payment under Workmen compensation Act					0.000
15.	Ex-gratia	7.200	1.200	0.680	0.510	9.590
16.	Expenditure on VRS					0.000
17.	Sub Total (8 to 16)	38.714	3.603	3.682	5.085	51.084
18.	Staff Welfare Expenses	1.000				1.000
19.	Terminal Benefits (Employer's Share)	12.800	1.142	0.000	0.447	14.389
20.	Provisions - RPP for 5 executives	5.000				5.000
21.	Arrear Salary (7th Pay)	103.877				103.877
22.	Others (Specify) (Uniform & Liveries)	0.504	0.084	0.056	0.042	0.686
23.	Total (7+17+18+19+20+21)	656.633	76.687	34.912	33.077	801.309
24.	Revenue recovered, if any					0.000
25.	Net Total (22-23)	656.633	76.687	34.912	33.077	801.309
	ADDITIONAL INFORMATION					
1.	No. of Employees (proposed)					
	i) Executives	36	6			42
	ii) Non-Executives			4	3	7
	iii) Skilled					
	iv) Non-Skilled					
	v) Contractual Staff				2	2
	Total					51
2.	No. of Employees per					
	i) MW handled					
	ii) MKwh handled					

Prabhat Kumar Mishra

Repairs and Maintenance Expenses

State Load Despatch Centre, Odisha

Fig in Lacs

Sl.No.	Description	Actuals for previous Financial Year 2018-19	Current Financial Year			Estimates for ensuing year 2020-21
			Actual For First Six Months Up to Sept' 19	Projection For Balance Six Months of current year	Total during the current year	
1	Consumption of stores and spares	0.000	0.000	0.000	0.000	0.000
2	Loss of stores and spares	0.000	0.000	0.000	0.000	0.000
3	Plant & Machinery repairs and maintenance (R/M of 1 no light vehicle)	0.229	0.059	0.183	0.242	0.260
4	Civil works repairs and maintenance (Leak proof treatment to roofs & maintenance of residential buildings)	0.000	0.011	0.515	0.526	0.560
5	Electrical maintenance of Office Building, Colony quarters including Street light.	3.986	1.626	3.276	4.902	5.180
6	Leased Internet connectivity / For Video Conferencing system	0.000	0.000	0.000	0.000	0.000
7	Hiring/Rent of BSNL link for data transfer from 3 nos. Sub-LDCs to SLDC	0.000	0.000	0.000	0.000	0.000
8	AMC charges for:-					
8a	Leased Internet connectivity & RF Link	1.720	0.530	1.200	1.730	2.550
8b	Website service charges	0.000	0.000	0.000	0.000	5.000
8c	Band width charges for WAN	0.000	0.000	0.000	0.000	0.000
8d	FMS	16.205	2.809	15.360	18.169	24.000
8e	APS equipment (DG Set)	0.000	0.000	0.000	0.000	1.000
8f	Computers and peripherals, Software	28.662	1.355	12.560	13.915	14.710
8g	FAX , Photo copier, Air Conditioners etc	2.575	1.398	1.757	3.155	3.550
9	Repair of furnitures & fixtures	0.000	0.000	0.200	0.200	0.210
10	Total (1 to 10)	53.377	7.788	35.051	42.839	57.020
11	Revenue recoveries, if any	0.000	0.000	0.000	0.000	0.000
12	Net Total (11-12)	53.377	7.788	35.051	42.839	57.020

Prabodha Kumar Mishra

Details of Administrative and General (A&G) expenses

State Load Despatch Centre, Odisha

Fig in Lacs

Sl. No.	Description	Actuals for previous Financial Year 2018-19	Current Financial Year			Estimates for ensuing year 2020-21
			Actual For First Six Months (up to Sept, 2019)	Projection For Balance Six Months	Total	
	PROPERTY RELATED EXPENSES					
1	Licence Fees	0.000	0.000	0.000	0.000	0.000
2	Rent	0.000	0.000	0.000	0.000	0.000
3	Rates & Taxes	0.000	0.000	0.000	0.000	0.000
4	Insurance	0.067	0.029	0.041	0.070	0.074
5	Contribution to accident reserve fund	0.000	0.000	0.000	0.000	0.000
6	Sub total :	0.067	0.029	0.041	0.070	0.074
	COMMUNICATION					
7	Telephone & Trunk Call	2.387	0.940	1.316	2.256	1.385
8	Postage & Telegram, Telefax	0.357	0.138	0.230	0.368	0.389
9	Courier Charges	0.000	0.000	0.000	0.000	0.000
10	Other	0.000	0.000	0.000	0.000	0.000
11	Sub total :	2.744	1.078	1.546	2.624	1.774
	PROFESSIONAL CHARGES					
12	Legal expenses	1.109	0.232	0.945	1.177	3.244
13	Consultancy Service Charges	3.866	1.500	2.366	3.866	4.087
14	Technical fees	0.000	0.000	0.000	0.000	0.000
15	Audit fees	0.000	0.000	0.000	0.000	0.000
16	Other charges	0.000	0.000	0.000	0.000	0.000
17	Sub total :	4.975	1.732	3.311	5.043	7.331
	CONVEYANCE & TRAVELLING					
18	Conveyance expenses (Fuel)	1.484	0.947	1.326	2.273	2.403
19	Travelling expenses	13.098	3.414	10.586	14.000	14.801
20	Hire charges of vehicle	12.716	5.791	9.107	14.898	15.751
21	Others	0.000	0.000	0.000	0.000	0.000
22	Sub total :	27.298	10.152	21.019	31.171	32.954
	OTHER EXPENSES					
23	Electricity charges	40.267	17.789	23.905	41.694	44.078
24	Fees & Subscription	0.000	0.000	0.000	0.000	0.000
25	Books & Periodicals	0.013	0.000	0.000	0.000	0.050
26	Printing & Stationery	1.268	0.519	0.926	1.445	1.528
27	Advertisement	1.705	0.000	1.200	1.200	1.268
28	Entertainment	1.093	0.394	0.753	1.147	1.212
29	Watch & Ward	24.282	10.914	14.280	25.194	26.635
30	Miscellaneous	1.473	1.096	1.534	2.630	2.781
31	Organisational Development Expenses Cultural, Sports etc	0.000	0.000	0.000	0.000	0.000
32	Outsourcing of collection of Metering data from regional interconnection points	0.000	0.000	0.000	0.000	0.000
33	Training (including certification of operators)	8.420	4.271	4.779	9.050	9.568
34	Sub total :	78.521	34.983	47.377	82.360	87.120
	MATERIAL RELATED EXPENSES					
35	Demurrage and Wharfage on materials	0.000	0.000	0.000	0.000	0.000
36	Clearing & forwarding charges	0.000	0.000	0.000	0.000	0.000
37	Transit insurance	0.000	0.000	0.000	0.000	0.000
38	Sub total :	0.000	0.000	0.000	0.000	0.000
39	Others (Specify) Disaster Expenses	0.000	0.000	0.000	0.000	0.250
40(a)	Gardening	0.000	0.000	0.000	0.000	1.000
40(b)	Meetings	1.605	0.722	1.011	1.733	1.832
40(c)	Office up-keeping	2.800	0.465	2.385	2.850	3.013
41	Sub total :	4.405	1.187	3.396	4.583	6.095
42	Total (6+11+17+22+34+38+41)	118.010	49.161	76.690	125.851	135.348
43	Revenue recoveries, if any	0.000	0.000	0.000	0.000	0.000
44	Net Total (42-43)	118.010	49.161	76.690	125.851	135.348

Panchodha Kumer Mishra

Form-8

Calculation of Interest on Working Capital

State Load Despatch Centre, Odisha

Sl. No.	Particulars	Amount Lacs
1	2	3
1	O & M expenses for one month excluding human resource expenses(7-A)	16.031
2	Human resource expenses for one month (7-B4)	66.776
3	Receivables (2 months of SOC & MOC)	177.233
4	Total Working Capital	260.040
5	Rate of Interest	12.05%
6	Interest on Working Capital	31.335

Prasada Kumar Mishra

ANNEXURE-I

DETAILS OF CAPITAL EXPENDITURE APPROVED & STATUS

TABLE-1

Approved vide OERC Order dated 23.03.2017 in Case No. 47 of 2016 and order dated 22.03.2018 in Case No. 78 of 2017

Fig in Lacs

Sl. No.	Item	Quantity	Amount	FY 2017-18	FY 2018-19	Expenditure Incurred	Remarks
1	Construction of New Building (excluding interiors) adjacent to the existing building at SLDC, Bhubaneswar for accommodation of staff (The detailed estimate furnished by IDCO is enclosed, 30% of estimated cost is to be paid to IDCO as advance to take up the work)	LS	450.00	135.00	315.00	6.040	Expenditure for approving plan by BMC.
2	Procurement of computer & Peripherals for SLDC Data Centre	LS	222.00	222.00			*See Item 3, Table-2
3	Procurement of computer & Peripherals, Laptops along with MS Office for use at SLDC. (Desktop=12nos, Laptops=12 nos., Printer = 2 nos)	26 nos	18.50	18.50	-	17.037	Assets acquired
4	Procurement of computer tables for use at EASSC	10	1.02	1.02	-	1.018	Assets acquired
5	0.5 kVA UPS for office desktop PC	12	0.222	0.222	-	1.272	Assets acquired
	6.0 kVA UPS for EASSC	1	1.050	1.050	-		
6	Software for countering the cyber attacks	1	20.00	20.00	-		Not Procured
7	Colour Scanner	2 no.	0.20	0.20	-		Not Procured
8	Furnitures & Fixtures for use of office staffs	LS	5.00	5.00	-	4.995	Assets acquired
	TOTAL		717.99	402.99	315.00	30.36	

TABLE-2

Approved vide letter DIR (T)-351/08/1520 dated 27.10.2017

Fig in Lacs

Sl. No.	Item	Quantity	Amount	FY 2017-18	FY 2018-19	Expenditure Incurred	Remarks
1	Remote Visual Display Unit for Machhakund	1	13.36573	13.36573	-	12.714	Assets acquired
2	Furnitures & Fixtures for use of office staffs	LS	6.05000	6.05000	-	5.580	* Assets acquired
3	Procurement of computer & Peripherals for SLDC Data Centre	LS	22.570060	22.570060		244.570	Assets acquired
4	Expansion of Visual Pojection System (VPS)	1	160.73000	160.73000			Installation is under progress
5	Upgradation of Visual Pojection System (VPS)	1	106.39000	106.39000			Work completed
	TOTAL		309.10579	309.10579	0.00	262.86	

TABLE-3

Approved vide letter No. DIR(T)-351/08/1288 dated 10.09.2019.

1	Procurement & Installation of AC machines in SLDC control room	16 no.	12.00	-	-	12.00	Assets acquired
2	Procurement of computer and peripherals for SLDC control room & office	-	15.72	-	-	15.72	Assets acquired
	TOTAL		27.72	0.00	0.00	27.72	

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ANNEXURE-II

Position wise Role & Responsibilities proposed

1. Chief Load Dispatcher

The SLDC function shall be headed by a Chief Load Dispatcher in the rank of a Director. He shall be assisted by two Sr. Load Dispatchers one in the rank of CGM and the other in the rank of Sr. GM for conducting the real time grid operation / support services and commercial activities respectively. For technical assistance one Executive Assistant in the rank of DGM and one no. of Sr. Private Secretary shall be attached to the Chief Load Dispatcher. All technical function Heads shall be reporting to their respective Sr. Load Dispatchers. The position wise role and responsibility are detailed in the tables.

2. Grid Operation headed by CGM (Grid Operation)

The details of manpower and functions under CGM (Grid Operation) are given in the table below. For technical assistance one Executive Assistant in the rank of Dy. Manager and one no. of Private Secretary shall be attached to the C.G.M.

Work	Function	Manpower
A. Real time operation headed by GM(Elect), Operation:		
Real Time Operation	Generation Despatch <ul style="list-style-type: none"> • Real time generation dispatch as per merit • Scheduling revisions Transmission Despatch <ul style="list-style-type: none"> • Network monitoring and control • Congestion management • Voltage & VAr control 	1 No DGM (E) SLDC – 4 groups 5 Nos. of Executives in each group consisting of 1 No. AGM (E) 1 No. Manager (E) 1 No. Dy. Manager (E) 1 No. Asst. Manager (E) 1 No. AM(T) Total-21 nos.
Operational Planning	<ul style="list-style-type: none"> • Operational System Analysis • Shutdown planning • Operational report preparation • Management of data base • Transmission / Generation availability Monitoring • EMS 	1 No. D.G.M. (E) 1 Nos of Dy. Manager (E) Total-2 nos.
SCADA/EMS	<ul style="list-style-type: none"> • Monitoring of communication link 	1 No. DGM(T)

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Work	Function	Manpower
Group	availability such as Optical Fiber, MW, PLCC etc.(to be maintained by STU) <ul style="list-style-type: none"> Monitoring of RTU availability in coordination with STU Telecom Dept. SCADA System (hardware) maintenance. To develop suitable MIS for grid monitoring. Maintaining Historical database. Interface with ULDC project. To build up accounting oriented information system. Co-ordination with all Sub-SLDCs 	2 Nos. Dy. Manager(T) Total - 3 nos.
B. Operation Services, MIS & Regulatory Affairs headed by G.M.(Elect). (OS, MIS& RA)		
Operation Services Group	<ul style="list-style-type: none"> Demand forecast- Short term (Day ahead & Month ahead) Day ahead scheduling of generation and optimization, in coordination with the State generators, ISGS allotment and neighboring utilities such as CGP, DISCOMs, etc. Scheduling of drawl of DISCOMs Maintenance of Historical data and database. Short term transaction (Open Access) coordination with traders Off-line load flow study for outage planning and real time operation Network Security and disturbance Analysis Protection coordination Implementation plan for intra state ABT 	1 No DGM (E) 1 No AGM (E) 1 No. Manager (E) 4 No A.M. (E) Total- 7 nos.
MIS & RA	<ul style="list-style-type: none"> Data Archiving & Management report preparation System Study Incident Reporting & Disturbance Analysis Meetings Technical Library OERC Reporting ARR Regulation and Regulatory matters 	
LEGAL	<ul style="list-style-type: none"> All legal matters 	1 No. Dy. Manager(Legal)

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3. Commercial Group headed by Sr. General Manager (Commercial)

The details of manpower and functions under Sr. General Manager (Commercial)) are given in the table below.

Work	Function	Manpower
Commercial, TS & C & M shall be headed by GM(Elect):		
Commercial Group	<ul style="list-style-type: none"> Reviewing Long term contracts and Short term contracts Energy meter data collection & compilation Review of metering arrangement for Short-term contracts. Development of Billing & Settlement procedures and keeping of accounts of energy transacted. Preparation of UI bill for intra state utilities in case of implementation of Intra state ABT. Preparation of State Energy Accounting and Bills for State Distribution Utilities. 	1 No AGM (E) 2 Nos Managers (E) 2 Nos Dy. Manager (E) 3 Nos A.M. (E) Total - 08 nos.
Technical Services / Contract & Material Management Group	<ul style="list-style-type: none"> AC/DC auxiliary supply Diesel generator operation and maintenance UPS, battery / charger maintenance Safety Civil works maintenance. Air conditioning plant maintenance. Award of contract and contract execution Material management and maintenance of stores. 	1 No D.G.M. (E)

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4. SUPPORT SERVICES FOR SLDC UNDER DIRECTOR, SLDC

The functions directly controlled by Director, SLDC are given in the Table below.

A. HUMAN RESOURCES MANAGEMENT	<ul style="list-style-type: none"> Manpower planning, Training, Budgeting & placement Personal services (Leave / Loan / Recoveries etc) 	1 No. G.M. (HR) 1 No. DGM (HR) 1 No Dy. Manager (HR) Total - 3 no.
	<ul style="list-style-type: none"> Installation Security and safety Human resource development Public Relation Administration. 	
B. FINANCE	<ul style="list-style-type: none"> Drawing and Disbursing functions Auditing and Reconciliation Maintenance of asset registers Budget & Accounts 	1 No. DGM (F) 1 No. Dy. Manager (F) 1 No. Jr. Manager (F) Total - 3 nos.
C. SECRETARIAL STAFF	<ul style="list-style-type: none"> Day to day secretarial work 	4 Nos. Office Assistant 4 Nos. Steno / Comp. Asst. Total - 8 nos.

Abstract of Staff Requirement for SLDC

1. Executive Staff Requirement:

Sl. No.	Category of Posts	Total Nos.
1	Director (Chief Load Despatcher)	01
2	Executive Assistant to Director [DGM(E)]	01
A. GRID OPERATION		
REAL TIME OPERATION		
3	CGM (Elect)	01
4	Executive Assistant to CGM [Deputy Manager (E)]	01
5	General Manager (Elect)	01
6	DGM (Elect)	01
7	AGM (Elect)	04
8	Manager (Electrical)	04
9	Deputy Manager (Electrical)	04
10	Assistant Manager (Electrical)	04
11	Assistant Manager (Telecom)	04
OPERATIONAL PLANNING		
12	DGM (Elect)	01
13	Deputy Manager (Electrical)	01
SCADA		
14	DGM (Telecom)	01
15	Deputy Manager (Telecom)	02
B. OS, RA & MIS		
16	General Manager (Elect)	01
17	DGM (Elect)	01
18	AGM (Electrical)	01
19	Manager (Electrical)	01
20	Assistant Manager (Electrical)	04
21	Deputy Manager (Law)	01
C. COMMERCIAL SERVICES		
22	Sr. General Manager (Elect)	01
Commercial, Tech Services, Contract & Material Management		
23	General Manager (Commercial, TS, C&M)	01
COMMERCIAL		
24	AGM (Elect)	01
25	Manager (Electrical)	02
26	Deputy Manager (Electrical)	02
27	Assistant Manager (Electrical)	03
TECHNICAL SERVICES / CONTRACT & MATERIAL MANAGEMENT		
28	DGM (Electrical)	01
D. HRM		
29	General Manager (HR)	01
30	DGM (HR)	01
31	Deputy Manager (HR)	01
E. FINANCE		

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Sl. No.	Category of Posts	Total Nos.
32	DGM (Finance)	01
33	Deputy Manager (Finance)	01
34	Junior Manager (Finance)	01
F. SECRETARIAL		
35	Sr. PS to Director	01
36	PA / PS	01
	TOTAL EXECUTIVES	59

2. Non-Executive Staff Requirement:

Sl. No.	Category of Posts	Total Nos.
1	Steno / Comp. Asst.	04
2	Office Assistant	04
	TOTAL NON-EXECUTIVES	8

Total Staff Requirement proposed for SLDC=1 + 2 = 59 + 8= 67 Nos.

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ଫୋନ୍: ୯୧-୦୬୭୪-୨୫୪୨୯୮୩, ୨୫୪୨୮୦୨, ୨୫୪୫୫୨୬, ୨୫୪୨୮୨୬, ଫାକ୍ସ: ୨୫୪୨୧୦୨

ODISHA HYDRO POWER CORPORATION LTD.

(A GOVT. OF ODISHA UNDERTAKING)

CIN: U40101OR1995SGC003963

REGD. OFFICE : ODISHA STATE POLICE HOUSING & WELFARE CORPORATION BUILDING, VANIVIHAR CHOUK, JANPATH, BHUBANESWAR-751 022

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By Fax/E-mail

File No.: OHPC-190/05(Vol-VII) 10278 Dt. 1-11-2019

To

The Chief Load Despatcher,
SLDC, OPTCL, Bhubaneswar-17.

Sub: Proposed Installed Capacity of OHPC Stations for the FY 2020-21 for computation of SoC & MoC - Regarding.

Ref: Your Letter No. 3073 Dtd. 26.09.2019.

Sir,

With reference to the letter under reference on the captioned subject, the tentative daily average MW availability from OHPC Power Stations during the FY 2020-21 is furnished in the table below for sharing of SLDC Charges (SoC & MoC) by OHPC / GRIDCO.

Tentative daily average MW availability from OHPC Power Stations during the FY 2020-21

Power Station	Generating Units	Capacity (MW)	Zero Date of Shutdown for R&M	Tentative Date of Commercial Operation Date	Days Unavailable	Days Available	Per Day Average MW Availability
BHEP	#1 (Under R&M)	60	05.08.2016	24.06.2020	85	280	46
	#2 (Under R&M)	60	20.11.2017	30.04.2020	30	335	55
	#3 (Programming for R&M)	60	31.03.2020	26.04.2021	365	0	0
	#4 (Programming for R&M)	60	31.03.2020	26.04.2021	365	0	0
	#5	60	Annual Maintenance		23	342	56
	#6	60	Annual Maintenance		26	339	55
	#7	75	Annual Maintenance		23	342	70
	#8	75	Annual Maintenance		26	339	69
Per Day Average MW Availability of BHEP							351
HHEP	#1	49.5	-	-	0	365	49.5
	#2	49.5	Annual Maintenance		28	337	45
	#3	32	Annual Maintenance		30	335	29
	#4	32	Annual Maintenance		31	334	29
	#5 (Under R&M)	43.65	25.10.2016	19.06.2020	80	285	34

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	#6 (Under R&M)	43.65	16.10.2015	28.03.2020	0	365	43.65
	#7	37.5	Annual Maintenance		30	335	34
	Per Day Average MW Availability of HHHP						264
CHEP	#1	24	Capital Maintenance		120	245	16
	#2	24	Annual Maintenance		30	335	22
	#3 (Under R&M)	24	15.10.2015	31.10.2019	0	365	24
	Per Day Average MW Availability of CHEP						62
RHEP	#1	50	Annual Maintenance		31	334	45
	#2	50	Annual Maintenance		31	334	45
	#3	50	Annual Maintenance		28	337	46
	#4	50	Annual Maintenance		30	335	45
	#5	50	Annual Maintenance Installation of DVR / PSDF work		46	319	43
	Per Day Average MW Availability of RHEP						224
UKHEP	#1	80	Annual Maintenance		30	335	73
	#2	80	Annual Maintenance		30	335	73
	#3	80	Annual Maintenance		30	335	73
	#4	80	Annual Maintenance		30	335	73
	Per Day Average MW Availability of UKHEP						292
UIHEP	#1	150	Annual Maintenance		30	335	137
	#2	150	Capital Maintenance		136	229	94
	#3	150	Annual Maintenance		30	335	137
	#4	150	Annual Maintenance Installation of DVR / PSDF		30	335	137
	Per Day Average MW Availability of UIHEP						505
Total OHPC	Per Day Average MW Availability of OHPC						1698 Or Say 1700

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In view of the above the proposed available MW capacity of OHPC power stations may be considered as 1700 MW during the FY 2020-21 for calculation & sharing of SLDC Charges (SoC & MoC) by OHPC.

Yours faithfully,

Gyan Ranjan Das
01-11-2019
Chief General Manager (EL)
OHPC Ltd, BBSR

- CC: 1) Secretary, OERC, Bidyut Niyamak Bhawan, Plot No.4 Chunukoli, Sailashree Vihar, Bhubaneswar-21 for kind information.
2) CGM (PP), GRIDCO, Bhubaneswar for information & necessary action.

Prabodha Kumar Mishra