

**ARR & FEES AND CHARGES APPLICATION
OF
ODISHA POWER TRANSMISSION CORPORATION LIMITED
FOR
STATE LOAD DESPATCH CENTER, ODISHA
FOR THE YEAR 2022-23
(CASE NO. 106 / 2021)**



**OERC PUBLIC HEARING THROUGH VC ON DATE -
17.02.2022 AT 03:00 P.M.**

PROFILE OF SLDC



State Load Dispatch Center (SLDC) is

- The Power System Operator for the State.
- Financially separated since 01.04.2009.
- Filing a separate ARR for its function since FY 2009-10.
- Maintaining separate books of accounts and meeting its expenses out of the revenue generated.

Manpower Position:

- | | | |
|---|----|----|
| • Sanctioned Strength | -- | 67 |
| • Total no. of existing Employees | -- | 51 |
| • Supporting staff (office attendant & data entry operator on contractual basis) | -- | 14 |

PERFORMANCE OF SLDC



- SLDC efficiently manages the State's requirement maintaining the merit order by optimum scheduling and vigilant monitoring of grid condition.
- Successfully optimized the State's share of energy drawl from Machhakund Power Station by continuous monitoring at SLDC and Jayanagar Substation through RVDU.
- Accorded consent / disposed 3661 nos. of Inter / Intra State Open Access applications during FY 2020-21 and 6472 applications (up to Jan' 22) in the current Financial Year.
- Conducting mock black start exercises successfully for State Hydro stations with formation of islands in every six months.

PERFORMANCE OF SLDC Contd...



- Successfully managed the load and generation balancing during the **YAAS** cyclone on 26th May 2021. Further for uninterrupted Grid Operation during **YAAS** cyclone, the Back Up SLDC at Meramundali was activated and made functional successfully.
- Successfully monitored the drawl schedule of the Distribution Companies of the State to minimize the deviation from ISGS schedule.
- Processing of meter data of all interface energy meters and prepares State Energy Accounting for Distribution Licensees and IPPs.

PERFORMANCE OF SLDC Contd...

- Successfully carried out reactive power management to reduce penalty arising through reactive energy billing.
- Processed 3724 Nos. outage planning requests of Generators, Intra & Inter State transmission elements during FY 2021-22 (upto January 22).
- Processed 52 Nos. First Time Charging requests of Generators and Transmission elements during FY 2021-22 (upto January 22).
- Preparation of data (Forecast Injection / Withdrawal data at all nodes up to 132 kV) on quarterly basis in the prescribed format for Validation Committee for PoC Charge Determination.
- Computation of ATC/TTC for the State Transmission System.

PERFORMANCE OF SLDC Contd...



- Implementation of Advance Metering Infrastructure (AMI) scheme is under progress.
- Implementation of Automatic Demand Management Scheme (ADMS) is under progress in the State for maintaining Grid Stability.
- The approval process at PSDF for implementation of SAMAST (Scheduling, Accounting, Metering and Settlement of Transactions in Electricity) as per the recommendations of Forum of Regulators (FOR) in all the activities of SLDC in an automated manner through integrated Software Modules is in the final stage.

PROJECTED REVENUE REQUIREMENT



The revenue requirement is projected under the following heads as per the provisions under OERC (Fees & Charges of SLDC & other related matters) Regulations 2010.

1. Return on equity
2. Interest on loan capital
3. Depreciation
4. O&M expenses excluding HR expenses
5. Human Resource expenses
6. Interest on working capital

DEPRECIATION



Depreciation for the assets in the Unified Load Despatch Centre and offices in SLDC has been computed as **Rs. 81.183 lacs** as per CERC Regulation.

Major contribution of depreciation charges are towards

- Computers & peripherals for SLDC Data Centre - Rs. 38.719 lacs
- Video Projection System - Rs. 24.979 lacs
- RVDU at Jayanagar S/S - Rs. 2.293 lacs
- Computers & peripherals for SLDC Control room and office - Rs. 5.520 lacs
- Firewall - Rs. 2.751 lacs
- Electrical installations - Rs. 1.143 lacs

OPERATION & MAINTENANCE EXPENSES



Operation and Maintenance expenses comprising of R&M and A&G expenses (As per provision in CERC and OERC Regulations) have been proposed as **Rs 341.65 lacs.**

REPAIR & MAINTENANCE EXPENSES



- R&M expenses of **Rs 153.45 lacs** has been proposed. The major items are:

	Rs in Lacs
Electrical maintenance of Office Building, Colony quarters including Street light.	9.000
Civil works repair and maintenance (construction of dilapidated rooms, leak proof treatment of roofs, colouring & maintenance of residential buildings of SLDC colony)	45.000
MPLS connectivity for ADMS signal communication with 20 nos. of substations.	6.580
AMC for FMS	29.870
AMC of Computers & Peripherals and Software	47.000
AMC for Website services	3.500
AMC for FAX , Photo copier, Air Conditioners etc	3.000
Bandwidth charges for WAN	2.000

A&G EXPENSES



- Administrative and General Expenses of **Rs 188.200** lacs has been proposed. The major items are:

Rs. in lacs

Certification and training of operational staff as per the recommendation of MoP Committee Report	20.00
Traveling allowances of SLDC personnel	15.00
Telephone charges	1.00
Payment of Electricity charges	50.00
Watch & ward	30.00
Legal expenses, advertisement & stationary printing	10.00
Office Up-keeping, meetings & gardening	19.00
Vehicle hire charges	25.80

SLDC Development Fund



The available balance in SLDC Development Fund as on **30.11.2021** is Rs. **6876.683** lacs. The following expenditure is proposed to be incurred from SLDC Development Fund.

Sl. No.	Description of item/work	Estimated amount (Rs. in Lakhs)
1	Construction of new SLDC Building	3435.16
2	Implementation of SAMAST	1845.72
3	Implementation of ADMS	24.70
4	20 nos. Air Conditioners	12.00
5	New Furniture for SLDC	15.00
TOTAL		5332.58

CERTIFICATION FOR LDC PERSONNEL

The committee set up by the Govt. of India under the Chairmanship of Shri. G.B. Pradhan, recommended setting up of a system of certification of System Operators by an independent Central body. The National Power Training Institute has been entrusted with the responsibility of conducting the certification exams. The combined committee for training and certification under the Chairmanship of Shri S. M. Dhiman, suggested three levels of certification viz. 'BASIC LEVEL', 'SPECIALIST LEVEL' and 'MANAGEMENT LEVEL'. The certification authority i.e. National Power Training Institute is conducting the online examination for all the three levels of certification on periodic basis for certification of personnel working in Load Despatch Centres in India.

90% of the executives of SLDC are certified System Operators. For imparting training to the executives, the expenditure for Training & Certification of LDC personnel has been projected as ₹20.0 lacs for FY 2022-23.

HUMAN RESOURCE EXPENSES



The Human Resource expenses has been estimated based on the salaries disbursed to the existing staff for the month of September'21 which has been apportioned for the FY 2022-23 amounting Rs. **974.107** lacs.

INTEREST ON WORKING CAPITAL

The interest on working capital is computed as Rs. **35.89** lacs as per OERC Regulation considering 10.3% rate of interest (SBI base rate) plus 300 basis points.

[Towards compensation of loss in interest for the amount utilized to meet the expenses for the month of April & May which could have been deposited in SLDC Development fund.]

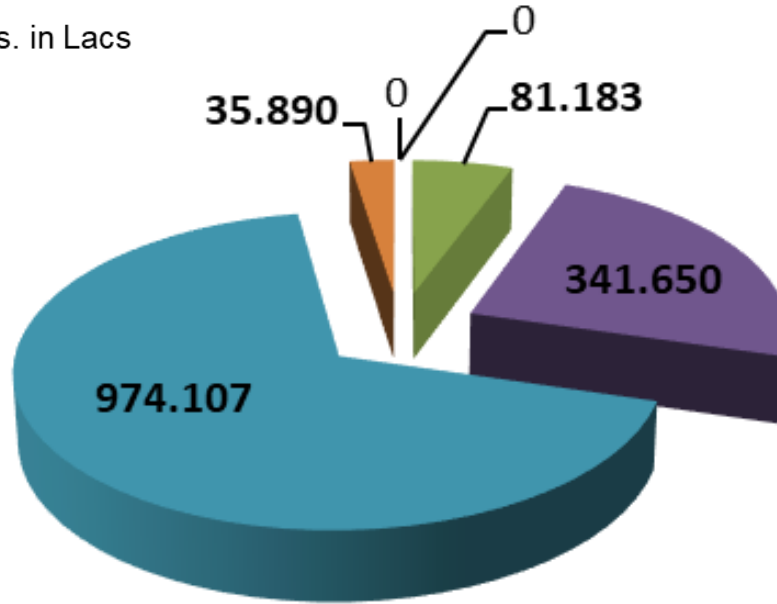
PROPOSED ARR FOR FY 2022-23



Sl. No	Item	Amount (Rs. in Lacs.)
1	Return on Equity	0.000
2	Interest on Loan Capital	0.000
3	Depreciation	81.183
4	O&M expenses excluding HR expenses	341.650
5	Human Resource Expenses	974.107
6	Interest on Working Capital	35.890
TOTAL		1432.830

ABSTRACT OF PROPOSED ARR FOR FY 2022-23

Rs. in Lacs



- Return on Equity
- Interest on Loan Capital
- Depreciation
- O&M Expenses excluding human resource expenses
- Human resource expenses
- Interest on Working Capital

SLDC CHARGES



- **Annual Charges**

- The Annual Charges for SLDC has been computed as per provision in Regulation 17, 18, 19, 20, 21 & 22 of OERC Regulations, 2010 and shall comprise of

- A. System Operation Charges (SOC) i.e. 80% of Annual Charges

- B. Market Operation Charges (MOC) i.e. 20% of Annual Charges

- **System Operation Charges (SOC)**

shall be collected from the 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)**

- **Generating Company & Seller**

50% on the basis of Installed capacity

- **Distribution Licensee & buyers**

50% on the basis of allocation

SHARING OF CHARGES



Total installed capacity of State Generating Stations, IPPs & maximum injection schedule of CGPs has been computed as **6167.44** MW.

- ❑ The total installed capacity for computation of SOC and MOC has been enumerated considering installed capacity of State Generating Stations & IPPs and maximum injection scheduled by CGPs during the FY 2021-22 up to October – 2021.

SHARING OF CHARGES, contd..



For the purpose of determination of SOC & MOC charges for CGPs, the maximum MW scheduled during April to October 2021 has been considered.

In absence of approved injection schedule for some of the CGPs during the FY 2021-22 (up to October'21), the approved schedule quantum for previous year has been considered for purpose of levying SLDC charges.

SUMMARY OF ARR & OPERATING CHARGES



1	Total Revenue Requirement	₹ Lac	1432.830
A	System Operation Charges (SOC)	₹ Lac	1146.264
B	Market Operation Charges (MOC)	₹ Lac	286.566

SUMMARY OF ARR & OPERATING CHARGES



Sl No.	Particulars	Unit	Proposal for 2022-23
A	System Operation Charges (SOC) of ₹ 1146.264 Lacs Payable by:		
a	Intra State Transmission Licensee @10% of SOC	₹ Lac	114.626
b	Generating Station & Sellers @45% of SOC	₹ Lac	515.819
c	Distribution Licensees & Buyers@45% of SOC	₹ Lac	515.819

SUMMARY OF ARR & OPERATING CHARGES



Sl No.	Particulars	Unit	Proposal for 2022-23
B	Market Operation Charges (MOC) of ₹ 286.566 Lacs Payable by:		
a	Generating Station & Sellers @50% of MOC	₹ Lac	143.283
b	Distribution Licensees & Buyers@50% of MOC	₹ Lac	143.283

OTHER CHARGES



- **Registration Fee**

Besides the above charges, provision for collection of one time registration fee @ ₹1.00 lac from all users has been made as per CERC / OERC Regulations.

- **Application Fee and Scheduling Charges for OA**

Application fee and Scheduling charges shall be paid by the open access customers as per the OERC (Terms and Conditions of Intra-State Open Access) Regulations, 2020.

ABSTRACT OF APPROVED / ACTUAL EXPENSES



₹ in lacs

YEAR----->	2020-21		2021-22 (Actual up to Sept.-21)	
	approved	actual	approved	actual
R & M expenses	45.221	83.490	56.966	13.450
A & G expenses	122.893	99.964	124.240	45.677
Human resource expenses	724.387	715.328	793.630	336.286
Depreciation	38.388	71.298	71.298	81.183
Interest on Working Capital	0.000	0.000	0.000	0.000
Total	930.889	970.080	1046.134	476.596



THANK YOU