

**ODISHA ELECTRICITY REGULATORY COMMISSION**  
**BIDYUT NIYAMAK BHAWAN**  
**PLOT NO. 4, CHUNOKOLI, SHAILASHREE VIHAR,**  
**BHUBANESWAR-751021**

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**Present:       Shri G. Mohapatra, Member**  
**Shri S. K. Ray Mohapatra, Member**

**CASE NO. 77 OF 2022**

**DATE OF HEARING       :       14.02.2023(3.00 PM)**

**DATE OF ORDER         :       23.03.2023**

**IN THE MATTER OF:** An application for approval of Annual Revenue Requirement and Determination of Fees & Operating Charges for State Load Despatch Centre (SLDC) functions for FY 2023-24.

**ORDER**

**A.    PROCEDURAL HISTORY: (Para 1 to 12)**

1.    The Odisha Power Transmission Corporation Limited, Bhubaneswar (OPTCL), a Govt. Company registered on 29<sup>th</sup> March, 2004 under the Companies Act, 1956 has been carrying out the business of transmission of electricity within the State of Odisha. It has also been notified as the State Transmission Utility (STU) under Section 39 (1) of the Electricity Act, 2003 hereinafter referred to as “the Act”. By virtue of the 2nd Proviso to Section 14 of the Act, OPTCL is a deemed Transmission Licensee, so far as transmission functions are concerned. OPTCL is now governed by License Conditions set forth in OERC (Conditions of Business) Regulations, 2004, at Appendix 4B issued under Section 16 of the Act, as modified by the Commission’s Order dated 27th October, 2006. By Clause 10(2) & (3) of the said Orissa Electricity Reforms (Transfer of Transmission and Related Activities) Scheme, 2005, the State Govt. has expressly notified OPTCL, a Govt. Company created for taking over transmission function of GRIDCO, as the State Transmission Utility with effect from 01.04.2005. Moreover, even though by the said Scheme, vide Clause 10(2), OPTCL was ‘notified’ as STU; it was also empowered to discharge the State Load Despatch functions till further orders of the State Govt. This provision as regards “discharge of State Load Despatch functions” was obviously intended to be an interim, temporary and stop-gap measure pending establishment/Notification of a State Load Despatch Centre (SLDC) under Section 31(1) and the substantive part of Section 31(2) of the Act.

2. Sections 31 & 32 of the Electricity Act, 2003 contemplate SLDC as an independent apex body to ensure integrated operation of the power system in the State. SLDC has been empowered by Section 33 of the Act to give such directions and exercise such supervision & control as may be required for ensuring integrated operation of grid and for achieving maximum economy and efficiency in the operation of power system in the State. These are all highly responsible, technical, and noncommercial statutory functions conceived by the Electricity Act, 2003 and are entrusted to SLDC to be carried out as an independent apex body. Every Licensee including OPTCL, generating companies, generating stations and sub-stations are to comply with such directions, vide Section 33 (2) and Section 40 (b) of the Act. At present SLDC has not been completely separated from OPTCL which is a regulated entity. In this context it is noteworthy that under Section 31(2) of the Act; a government body is supposed to operate SLDC and directions of the State Govt. to such a body are to be confined within the ambit of Section 37 of the Act. The State Govt. has been advised accordingly from time to time to remove this anomaly and the latest reminder has been issued by the Commission, vide DO Letter No. OERC/Tariff/Case No.56/2015/1646 dated 26.11.2015.
3. The Act has also provided financial independence of SLDC under Sub-section 3 of Section 32 by way of levy and collection of fees and charges from generating companies and the distribution licensees engaged in Intra-State Transmission of electricity. Sub-section under Section 2 of the electricity (Removal of Difficulty) Sixth Order, 2005 issued by Ministry of Power (MoP) Govt. of India on 08.06.2005 provides that the SLDC may levy and collect such fee and charges from the Licensees and generating companies using the intra-State transmission system as may be specified by the State Commission.
4. So far the State Government has not exercised its power under Section 31 (1) and (2) of the Act to establish a separate and independent entity for operation of SLDC. Hence, by virtue of the 1st Proviso to Section 31 (2) of the Act, OPTCL as STU has to “operate” the SLDC for the time being. As such it is fit and proper that SLDC shall collect Annual Fees and Charges for SLDC functions from the various stakeholders as per Section 32 (3) of the Act and other sources permissible under law from various stakeholders. Accordingly, OPTCL has filed an application on 29.11.2022 for approval of Annual Fees and Charges for SLDC functions for FY 2023-24.
5. In exercise of powers conferred under Section 181 (2)(g) of the Act read with Section 32(3) and all other enabling powers, the Commission has framed OERC (Fees and Charges for SLDC and other related matters) Regulations, 2010, which has been

published in Odisha Gazette No.1924 dated 18.11.2010 and has come into force with effect from 18.11.2010.

6. As per Regulation 3 of OERC (Fees and Charges for SLDC & other related matters) Regulations, 2010 as well as in conformity with OERC (Conduct of Business) Regulations, 2004, SLDC is to submit the full details of its calculations of estimated Annual Revenue Requirement (ARR) and other related information in the prescribed formats for determination of Annual Fees and Charges for the ensuing financial year by 30th November before commencement of the said financial year. Accordingly, SLDC has filed this application for approval of ARR & Annual Fees and Charges for its functions in Odisha for FY 2023-24.
7. The said application dated 29.11.2022 was duly scrutinized, registered as Case No. 77 of 2022 and was taken up for hearing. Objections were invited after wide publication of the application in English & Odia daily newspaper and in website of Commission as well as OPTCL. In response to the aforesaid public notice of the applicant, the Commission received three objections/suggestion, i.e. from (a) Shri R P Mahapatra, Retired Chief Engineer & Member (Gen), erstwhile OSEB, Plot No-775(P) Lane-3, JayadevVihar Bhubaneswar-751013,(b) Shri Soumya Ranjan Patnaik, MLA, Khandapada,S/O. Late Brajabandhu Patnaik, Plot No.185, VIP Colony, Nayapalli, Bhubaneswar – 751015 and (c) Shri Ramesh Ch. Satpathy, Plot No. 302(B), Beherasahi, Nayapally, Bhubaneswar-751012. The Commission has appointed World Institute of Sustainable Energy (WISE), Pune as consumer counsel for objective analysis of ARR and annual fees and charges proposal of SLDC for FY 2023-24.
8. The Commission also issued individual notice to the objector and the Department of Energy, Government of Odisha informing them about the date and time of hearing through hybrid mode (by physical presence at Commission's office and virtual) and requested the objectors and the Government's authorized representative, who want to participate virtually, to furnish their e-mail ID to facilitate and for providing links for hearing. Accordingly, the applicant, objectors and the representative of DoE, GoO had participated in the proceedings and have offered their valuable views/suggestion/proposal during the hearing on hybrid mode on the date and time fixed by the Commission.
9. After due notice to the Applicant, Government of Odisha and the Objectors to participate in the consultative process, the Commission heard the applicant, objectors and representative of the State Government on 14.02.2023 at 3:00 P.M. The consumer

counsel presented its views in the hearing. The above named objectors except Shri Ramesh Chandra Satpathy along with Ms. Nibedita Mishra, Addl. Secretary to Govt., Department of Energy, Govt. of Odisha Bhubaneswar, Shri R. P. Mohapatra, Sri Anand Kumar Mohapatra, the authorized representative of Shri Soumya Ranjan Patnaik, MLA, Khandapada were present during tariff hearing through hybrid mode and their submissions were taken on record for consideration by the Commission.

10. During the hearing, objection was raised by the Learned Objector Shri R. P. Mahapatra, stating that this Commission, presently functioning with two Members, one of whom is the Acting Chairperson, is incompetent to embark upon hearing of SLDC for ARR & Levy of Annual Fee & Operating Charges for its SLDC Functions the Financial Year 2023-24.
11. Similar objection was rejected by this Commission vide the speaking orders dated 13.02.2023 in Case No.74 of 2022 and Case No.75 of 2022. The present objection is nothing but ad infinitum. In other words, a party cannot be permitted to raise similar objections time and again before this Commission during course of hearing. We would like to quote here the provisions under which the aforesaid orders dated 13.02.2023 have been passed.

Section 93 of the Electricity Act, 2003 states as follows:

*“Vacancies, etc., not to invalidate proceedings. – No act or proceeding of the Appropriate Commission shall be questioned or shall be invalidated merely on the ground of existence of any vacancy or defect in the constitution of the Appropriate Commission.”*

Section 9(4) of the Orissa Electricity Reform Act, 1995 states as follows:

*“(4) The quorum for the meeting of the Commission shall be two, but in the case of a meeting of the Commission to review any previous decision taken by the Commission or for consideration of any issue which could not be decided on account of equality of votes in favour of or against the resolution proposed or where the issue considered at a meeting in which only two members of the Commission were present, the quorum for the meeting shall be all the three:*

*Provided that, in case of emergency, the Commission may decide any matter by circulation to member or members.”*

Further, Regulation 8(1)(b) of the OERC (Conduct of Business) Regulations, 2004 states as follows:

“Subject to the provision of the Act, Rules and Regulations framed thereunder, the quorum for meeting of the Commission shall ordinarily be two but the Commission may determine by order in writing, the matters which can be heard by a single Member.”

12. In view of the above, this Commission, functioning with the Acting Chairperson and another Member during the time of hearing, was vested with the required quorum for hearing of the petition at hand. Hence, the objection raised on behalf of the above objectors was untenable in the eyes of law and hence rejected. Consequently, the hearing of the present petition was taken up.

**B. PROPOSAL FOR ARR & LEVYING OF ANNUAL FEES & CHARGES FOR SLDC FUNCTIONS FOR THE FY 2023-24 (Para 13 to 19)**

**Item-wise Annual Revenue Requirement for SLDC operation**

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

- i) Return on Equity
- ii) Interest on Loan Capital
- iii) Depreciation
- iv) Operation & Maintenance Expenses Excluding Human Resource expenses
- v) Human Resource Expenses
- vi) Interest on Working Capital

**i) Return on Equity**

Since no equity has been invested by SLDC, item (i) is not proposed in the ARR

**ii) Interest on loan capital:**

Since there is no outstanding loan on SLDC, item (ii) is not proposed in the ARR.

**iii) Depreciation**

Depreciation for the assets in the Unified Load Despatch Center and offices in SLDC has been computed as **Rs. 80.689 lakh** as per CERC Regulation. The major amount of depreciation charges is for recovering the depreciation cost for the upgraded & enhanced VPS (costing Rs 166.53 lakh) amounting Rs 24.979 lakh. Further, depreciation charges for recovering the depreciation cost of laptops, computers & peripherals for SLDC data centre and office amounting Rs. 44.239 lakh. Total depreciation amount is provided in table below.

**Table - 1  
Statement of Depreciation (in Rs. Lakh)**

<b>Financial Year</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
<b>Recovery of Capital Cost (Amount to be recovered during the year)</b>	0.000	0.000	0.000
Depreciation on existing assets	71.298	81.183	80.689
<b>TOTAL</b>	<b>71.298</b>	<b>81.183</b>	<b>80.689</b>

iv) **Operation and Maintenance Expenses:**

Operation and maintenance expenses excluding human resources expenses for FY 2023-24 has been computed as **Rs. 356.455 lakh** considering the R&M expenditure proposed to be incurred for Facility Management Services (FMS), Website charges, IT equipment and Electrical maintenance of office building and colony quarters etc and A&G expenses. The O & M expenses have been projected considering actual expenditure to be incurred during FY 2023-24. The details on it is given in table below:

**Table - 2**

**Statement of O&M Expenses Excluding Human Resource Expenses (Rs. Lakh)**

SL. No.	ITEMS	Form No	FY 2021-22 (Actual)	FY 2022-23 (Approved)	FY 2022-23 (Actual up to Sept.-22)	FY 2023-24 (Proposed)
1	Repairs and maintenance expenses	7-C	72.919	89.311	18.528	140.290
2	Administrative and general expenses, etc	7-D	113.811	104.637	56.627	216.165
	<b>Total</b>		<b>186.730</b>	<b>193.948</b>	<b>75.155</b>	<b>356.455</b>

v) **Human Resources Expenses:**

Human resources expenses have been computed as **Rs. 974.545 lakh** considering the existing employees including 4 numbers of Telecommunication personnel working at SLDC control centre. In addition, salary for 13 contractual/outsourcing staffs to be engaged at SLDC in the FY 2023-24 has been considered.

vi) **Interest on Working Capital:**

The interest on working capital (amounting Rs 353.083 lakh) is computed as **Rs. 41.311 lakh** as per OERC Regulation considering 11.70 % rate of interest (SBI base rate 8.70 % plus 300 basis points). 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 user for two months from the commencement of financial year. The loss of interest for the above amount is being recovered as interest on working capital. The details on working capital requirement and interest on it is given in table below:

**Table - 3**  
**Statement of Interest on Working Capital (Rs. Lakh)**

Sl. No.	Particulars	Amount
1	O & M expenses for one month excluding human resource expenses(7-A)	29.705
2	Human resource expenses for one month (7-B4)	81.212
3	Receivables (2 months of SOC & MOC)	<b>242.167</b>
<b>4</b>	<b>Total Working Capital</b>	<b>353.083</b>
5	Rate of Interest	11.70%
<b>6</b>	<b>Interest on Working Capital</b>	<b>41.311</b>

14. Considering the aforesaid proposals, the ARR of **Rs. 1453.00 lakh** has been proposed by SLDC for FY 2023-24, the details of which is given in table below.

**Table - 4**  
**ARR Proposed for FY 2023-24 (Rs. Lakh)**

Sl. No.	Particulars	Amount
1	Return on Equity	0.000
2	Interest on Loan Capital	0.000
3	Depreciation	80.689
4.	O&M Expenses excluding human resource expenses	356.455
5.	Human Resource expenses	974.545
6.	Interest on Working Capital	41.311
	<b>Total expenses</b>	<b>1453.000</b>

**Certification of LDC Personnel:**

15. The committee on “Manpower, Certification and Incentives for System Operation and Ring-Fencing Load Despatch Centres” has recommended suitable compensation structure, innovative incentive schemes for higher learning and monetary incentives to the employees based on the ratings. For imparting training to the executives, the expenditure for Training & Certification of LDC personnel has been projected as **Rs 30.0 lakh** for FY 2023-24.

**Determination of Annual Charges for SLDC:**

16. The Annual Charges for SLDC have 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
- **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 and Buyers - 45% on the basis of allocation

- **Market Operation Charges (MOC)** shall be collected from the users in the following ratio
  - Generating Company & Seller - 50% on the basis of installed capacity
  - Distribution Licensee and Buyers - 50% on the basis of allocation

**Table - 5**

**Abstract of Collection of SLDC Charges Proposed for FY 2023-24 (Rs. lakh)**

<b>Annual charges (AFC)</b>	<b>1453.000</b>
<b>System Operation Charges (SOC) (80% of the AFC)</b>	<b>1162.400</b>
Intra State Transmission Licensee @10% of SOC	116.240
Generating Station & Sellers @45% of SOC	523.080
Distribution Licensees & Buyers@45% of SOC	523.080
<b>Market Operation Charges (MOC) (20% of the AFC)</b>	<b>290.600</b>
Generating Station & Sellers @50% of MOC	145.300
Distribution Licensees & Buyers@50% of MOC	145.300

**Registration Fee:**

17. Besides the above charges, provision for collection of registration fee @ Rs1.00 lacs from all users has been made as per OERC Regulation.

**Application Fee and Scheduling Charges:**

18. Application Fee and Scheduling Charges: SLDC submitted that application fee and scheduling charges shall be paid by the short-term open access customers as per the OERC (Terms and Conditions of Intra-State Open Access) Regulations, 2020.

**Annual charges, SOC and MOC:**

19. Details of Annual charges, SOC and MOC as proposed by SLDC are given in the table below:

**Table - 6**

**Annual Charges for 2023-24 (Rs. in Lakh)**

<b>Particulars</b>	<b>Amounts</b>
Annual Charges of SLDC	1453.000
Total Annual Fixed Cost	1453.000
System Operation Charges (SOC) (80% of the AFC)	1162.400
Market Operation Charges (MOC) (20% of the AFC)	290.600

**Table - 7**

**System Operation Charges (SOC) (Rs. in Lakh)**

<b>System Operation Charges (SOC)</b>	<b>1162.400</b>
(a) Intra State Transmission Licensee @10% of SOC	116.240
(b) Generating Station & Sellers @45% of SOC	523.080
(c) Distribution Licensees & Buyers@45% of SOC	523.080

(a) **Intra State Transmission Licensee 10% of SOC (Rs.116.240 Lakh) =**

**Rs. 9.687 lakh/per month**



**(b) Generating Station & Sellers @45% of SOC =Rs. 523.080 Lakh****Table – 8**

Sl. No	Generating Company / Sellers	Installed Capacity (MW)	Total Amounts (Rs. Lakh)	
			(Annual)	(Monthly)
<b>A</b>	<b>State Generating Station</b>			
1	OHPC	1681.00	141.376	11.781
2	OPGC Stage-I	420.00	35.323	2.944
3	OPGC Stage-II	1320.00	111.015	9.251
<b>B</b>	<b>Small Hydro &amp; Bio-mass</b>			
4	OPCL (Small Hydro)	20.00	1682	0.140
5	Meenakshi Power Ltd. (Small Hydro)	37.00	3112	0.259
6	Shalivahana Green Energy Ltd	20.00	1682	0.140
7	Baitarani Power Project Pvt. Ltd.(Small Hydro)	24.00	2018	0.168
8	Sri.Avantika Power Projects Private Limited Saptadhara SHEP	18.00	1514	0.126
9	Kakatiya Industried Pvt. Ltd. Bargarh	9.00	0.757	0.063
<b>C</b>	<b>IPP</b>			
10	GMR, Kamalanga	350.00	29.436	2.453
11	Vedanta Limited (IPP)	600.00	50.461	4.205
12	NBVL (IPP)	60.00	5.046	0.421
<b>D</b>	<b>CGPs</b>	<b>Maximum Scheduled (MW) (up to end of October-2022)</b>		
13	Aarti Steel Ltd	50.00	4.205	0.350
14	Aditya Aluminium Limited	30.00	2.523	0.210
15	Aryan Ispat & Power Pvt. Ltd.	11.60	0.976	0.081
16	Bhubaneswar Power Pvt. Ltd.	120.00	10.092	0.841
17	Tata Steel BSL Limited, Meramundali	90.00	7.569	0.631
18	ESSAR Power (Orissa) Ltd.	27.00	2.271	0.189
19	FACOR Power Ltd.	30.36	2.553	0.213
20	IMFA	45.87	3.858	0.321
21	Jindal Stainless Limited, Duburi	24.00	2.018	0.168
22	Jindal Steel & Power Ltd., Angul	269.44	22.661	1.888
23	Maithan Ispat Ltd. Kalinganagar	12.00	1.009	0.084
24	MGM Minerals Ltd.	4.50	0.378	0.032
25	NALCO, Angul	37.00	3.112	0.259
26	Narbheram Power & Steel (P) Ltd	2.00	0.168	0.014
27	Nava Bharat Ventures Limited	55.00	4.626	0.385
28	Dalmia Cement (Bharat) Ltd. [OCL], Rajgangpur	22.00	1.850	0.154
29	Rungta Mines Ltd. DSP Dhenkanal	19.50	1.640	0.137
30	Rungta Mines Ltd. SID, Karakolha	4.00	0.336	0.028
31	Shree Ganesh Metalicks Limited	12.00	1.009	0.084
32	SMC Power generation	18.00	1.514	0.126

33	SMC Power generation Ltd(UNIT-II) Budhipadar	29.00	2.439	0.203
34	Tata Steel Long Product Limited (TSIL)	19.00	1.598	0.133
35	Vedanta Limited (Jharsuguda)	255.00	21.446	1.787
36	Viraj Steel and Energy Pvt. Ltd	10.70	0.900	0.075
<b>E</b>	<b>Solar Projects</b>	<b>Installed Capacity (MW)</b>		
37	ACME, Odisha	25.00	2.103	0.175
38	AFTAB Solar	5.00	0.421	0.035
39	BEL SOLAR	7.50	0.631	0.053
40	GEDCOL	23.00	1.934	0.161
41	M/s Raajratna Energy Holdings Pvt. Ltd	1.00	0.084	0.007
42	M/s. S. N. Mohanty	1.00	0.084	0.007
43	MGM Green Energy Ltd.	1.00	0.084	0.007
44	M/s Molisati Vinimay Pvt.Ltd.	1.00	0.084	0.007
45	M/s Jay Iron and Steel Ltd.	1.00	0.084	0.007
46	M/s Abacus Holdings Pvt. Ltd	1.00	0.084	0.007
47	M/s Shri Mahavir Ferro Alloys Pvt. Ltd.	1.00	0.084	0.007
48	M/s Vivacity Renewable Energy Pvt. Ltd.	1.00	0.084	0.007
49	Alex Green Energy Ltd.	5.00	0.421	0.035
50	M/s Jyoti Solar Solutions Pvt.Ltd.	10.00	0.841	0.070
51	M/s Sadipali IBP solar Pvt.Ltd.	20.00	1.682	0.140
52	M/s Dakshin Odisha Urja Pvt.Ltd.	40.00	3.364	0.280
53	M/s Vento Power & Energy Ltd. KESHINGA1	40.00	3.364	0.280
54	M/s Vento Power Pvt. Ltd. KESHINGA-2	40.00	3.364	0.280
55	M/s Vento Power Infra Pvt.Ltd. TUSURA -1	40.00	3.364	0.280
56	M/s Vento Energy Infra Pvt.Ltd. TUSURA-2	40.00	3.364	0.280
57	M/s Vento Power Projects Pvt.Ltd. TENTULIKHUNT	40.00	3.364	0.280
58	ABRL, Sainitala	25.00	2.103	0.175
59	ABRL, Bouda	25.00	2.103	0.175
60	ABRL, Bargarh New	25.00	2.103	0.175
61	MCL, Burla	2.00	0.168	0.014
62	KCMW, A unit of Dalmia cement Bharat Ltd. Salepur	17.10	1.438	0.120
63	J K PAPER, Theruvali	25.00	2.103	0.175
<b>F</b>	<b>Total (A+B+C+D+E)</b>	<b>6219.57</b>	<b>523.080</b>	<b>43.590</b>

(c) Distribution Licensees & Buyers @45% of SOC

Table - 9

SL No	DISCOMs	% share	Total Amounts (Rs. Lakh)	
			(Annual)	(Monthly)
1	TPCODL	33.08	173.035	14.420
2	TPNODL	21.86	114.345	9.529
3	TPWODL	31.37	164.090	13.674
4	TPSODL	13.69	71.610	5.967
	<b>Total</b>	<b>100.00</b>	<b>523.080</b>	<b>43.590</b>

Table - 10

Market Operation Charges (MOC) (Rs. in Lakh)

Particulars	Amounts
<b>Market Operation Charges (MOC)</b>	<b>290.600</b>
(a) Generating Station & Sellers @50% of MOC	145.300
(b) Distribution Licensees & Buyers@50% of MOC	145.300

(a) Generating Station & Sellers @ 50% of SOC = Rs. 145.300 Lakh

Table - 11

Sl No.	Generating Company / Sellers	Installed Capacity (MW)	Total amount	
			(Annual)	(Monthly)
<b>A</b>	<b>State Generating Station</b>			
1	OHPC	1681.00	39.271	3.273
2	OPGC Stage-I	420.00	9.812	0.818
3	OPGC Stage-II	1320.00	30.837	2.570
<b>B</b>	<b>Small Hydro &amp; Bio-mass</b>			
4	OPCL (Small Hydro)	20.00	0.467	0.039
5	Meenakshi Power Ltd. (Small Hydro)	37.00	0.864	0.072
6	Shalivahana Green Energy Ltd	20.00	0.467	0.039
7	Baitarani Power Project Pvt. Ltd(Small Hydro)	24.00	0.561	0.047
8	Sri.Avantika Power Projects Private Limited Saptadhara SHEP	18.00	0.421	0.035
9	Kakatiya Industried Pvt. Ltd. Bargarh	9.00	0.210	0.018
<b>C</b>	<b>IPP</b>			
10	GMR, Kamalanga	350.00	8.177	0.681
11	Vedanta Limited (IPP)	600.00	14.017	1.168
12	NBVL (IPP)	60.00	1.402	0.117
<b>D</b>	<b>CGPs</b>	<b>Maximum Scheduled (MW) (up to end of October-2022)</b>		
13	Aarti Steel Ltd	50.00	1.168	0.097
14	Aditya Aluminium Limited	30.00	0.701	0.058
15	Aryan Ispat & Power Pvt. Ltd.	11.60	0.271	0.023
16	Bhubaneshwar Power Pvt. Ltd.	120.00	2.803	0.234
17	Tata Steel Limited, Meramundali	90.00	2.103	0.175

Sl No.	Generating Company / Sellers	Installed Capacity (MW)	Total amount	
			(Annual)	(Monthly)
18	AMNSIL, Paradeep	27.00	0.631	0.053
19	FACOR Power Ltd.	30.36	0.709	0.059
20	IMFA	45.87	1.072	0.089
21	Jindal Stainless Limited, Duburi	24.00	0.561	0.047
22	Jindal Steel & Power Ltd., Angul	269.44	6.295	0.525
23	Maithan Ispat Ltd. Kalinganagar	12.00	0.280	0.023
24	MGM Minerals Ltd.	4.50	0.105	0.009
25	NALCO, Angul	37.00	0.864	0.072
26	Narbheram Power & Steel (P) Ltd	2.00	0.047	0.004
27	Nava Bharat Ventures Limited	55.00	1.285	0.107
28	Dalmia Cement (Bharat) Ltd., Rajgangpur	22.00	0.514	0.043
29	Rungta Mines Ltd. DSP Dhenkanal	19.50	0.456	0.038
30	Rungta Mines Ltd. SID, Karakolha	4.00	0.093	0.008
31	Shree Ganesh Metalicks Limited	12.00	0.280	0.023
32	SMC Power generation	18.00	0.421	0.035
33	SMC Power generation Ltd (UNIT-II) Budhipadar	29.00	0.677	0.056
34	Tata Steel Long Product Limited (TSIL)	19.00	0.444	0.037
35	Vedanta Limited (Jharsuguda)	255.00	5.957	0.496
36	Viraj Steel and Energy Pvt. Ltd	10.70	0.250	0.021
<b>E</b>	<b>Solar Projects</b>	<b>Installed Capacity (MW)</b>		
37	ACME, Odisha	25.00	0.584	0.049
38	AFTAB Solar	5.00	0.117	0.010
39	BEL SOLAR	7.50	0.175	0.015
40	GEDCOL	23.00	0.537	0.045
41	M/s Raajratna Energy Holdings Pvt. Ltd	1.00	0.023	0.002
42	M/s. S. N. Mohanty	1.00	0.023	0.002
43	MGM Green Energy Ltd.	1.00	0.023	0.002
44	M/s Molisati Vinimay Pvt. Ltd.	1.00	0.023	0.002
45	M/s Jay Iron and Steel Ltd.	1.00	0.023	0.002
46	M/s Abacus Holdings Pvt. Ltd	1.00	0.023	0.002
47	M/s Shri Mahavir Ferro Alloys Pvt. Ltd.	1.00	0.023	0.002
48	M/s Vivacity Renewable Energy Pvt. Ltd.	1.00	0.023	0.002
49	Alex Green Energy Ltd.	5.00	0.117	0.010
50	M/s Jyoti Solar Solutions Pvt. Ltd.	10.00	0.234	0.019
51	M/s Sadipali IBP solar Pvt. Ltd.	20.00	0.467	0.039
52	M/s Dakshin Odisha Urja Pvt. Ltd.	40.00	0.934	0.078
53	M/s Vento Power & Energy Ltd. KESHINGA1	40.00	0.934	0.078
54	M/s Vento Power Pvt. Ltd. KESHINGA-2	40.00	0.934	0.078

Sl No.	Generating Company / Sellers	Installed Capacity (MW)	Total amount	
			(Annual)	(Monthly)
55	M/s Vento Power Infra Pvt. Ltd. TUSURA -1	40.00	0.934	0.078
56	M/s Vento Energy Infra Pvt. Ltd. TUSURA-2	40.00	0.934	0.078
57	M/s Vento Power Projects Pvt. Ltd. TENTULIKHUNT	40.00	0.934	0.078
58	ABRL, Saintala	25.00	0.584	0.049
59	ABRL, Bouda	25.00	0.584	0.049
60	ABRL, Bargarh New	25.00	0.584	0.049
61	MCL, Burla	2.00	0.047	0.004
62	KCMW, A unit of Dalmia cement Bharat Ltd, Salepur	17.10	0.399	0.033
63	J K PAPER, Theruvali	25.00	0.584	0.049
F	<b>Total (A+B+C+D+E)</b>	<b>6219.57</b>	<b>145.300</b>	<b>12.108</b>

**(b) Distribution Licensees & Buyers @50% of MOC= Rs.145.300 Lakh**

**Table - 12**

SL No	DISCOMs	% share	Total Amounts (Rs. Lakh)	
			(Annual)	(Monthly)
1	TPCODL	33.08	48.065	4.005
2	TPNODL	21.86	31.763	2.647
3	TPWODL	31.37	45.581	3.798
4	TPSODL	13.69	19.892	1.658
	<b>Total</b>	<b>100.00</b>	<b>145.300</b>	<b>12.108</b>

**C. VIEWS OF CONSUMER COUNSEL (Para 20)**

20. World Institute of Sustainable Energy (WISE), Pune - the Consumer Counsel has analyzed the ARR application of SLDC and some of their important observations are as under which were presented during the hearing:

**Observations on Annual Revenue Requirement**

- SLDC has given the proposal for revenue requirement of **Rs.1453.00** lakh for FY 2023-24 which is 26.39% high over Rs. 1149.604 lakh approved by the Commission for FY 2022-23. This would be recovered through Annual Fees and Charges. The Revenue Requirement includes Employee Cost of Rs. 974.545 lakh on account of salary and considering the existing employees including 4 numbers of Telecommunication personnel working at SLDC control centre & salary for 13 contractual/outsourcing staffs to be engaged at SLDC for FY 2023-24.

- The projected O&M expenses of Rs. 356.455 lakh considering the expenditure to be incurred in FY 2023-24 is not as per OERC Regulation (83.78% escalation on FY 2022-23 expenses). The proposed O&M expenses of Rs 356.455 lakh seems to be on higher side and should not be approved.
- Under A&G expenses, projected electricity charges and watch & ward charges are significant (around 40% of projected A&G charges). SLDC has also proposed a significant increase in its conveyance and travel. These expenses need to be reviewed. Further, SLDC has spent very less amount of Rs.75.155 lakh on O&M expenses till September 22 during FY 2022-23, which is about 38.75% of the amount (Rs. 193.948 lakhs) approved for FY 2022-23. SLDC has projected a high O&M related expenses during Oct 22–March 2023 period amounting 201.305 lakh. The O&M expenses, therefore, should be computed as per OERC Regulation, i.e. 5.72% escalation over actual prorated O&M expenditure of FY 2022-23.
- With respect to HR expenses, Basic Pay & GP for 2023-24 may calculated on the basis actual expenses of last 10 months (up to Jan-23) which can be prorated for whole of FY 2022-23 and the same may be escalated with appropriate rate. Applicable DA rate can be considered. Proposed HRA is significantly higher than approved amount for FY 2022-23. The same may be reviewed. Further, SLDC has proposed terminal benefits of Rs 41.136 lakh for FY 2023-24. The same may be allowed based on actual payment made by SLDC.
- SLDC has claimed Rs. **80.689** lakh as depreciation for assets in ULDC and offices in SLDC, out of which an amount of Rs. **24.979** lakh is claimed on account of Video Projection Screen (VPS) and Rs. **44.24** lakh is claimed for computer & peripherals for SLDC data centre. Depreciation on enhanced VPS and IT equipment may be reviewed for the FY 2023-24 on the basis of capital cost approval given by the Commission. Therefore, the depreciation should be reviewed on the basis of approved cost of assets, rate of depreciation as per Regulations, and depreciation claimed till date.
- Proposed working capital of Rs. **353.083** lakh may not be approved separately and the same may be allowed to be incurred from SLDC Development Fund, as per the earlier directive of the Commission.

- Regarding Commission’s directions on transfer of assets to SLDC, SLDC submitted that as per the recommendation of 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. 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 the Commission.
- 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 expenditure for Training & Certification of LDC personnel has been projected by SLDC as Rs 30.0 lacs for FY 2023-24. However, actual expenses in FY 21-22 is Rs 1.307 lakh only and projected expenses for FY 2022-23 is Rs 6.28 lakh. So, SLDC may submit the details regarding the staff trained and benefits from the training.
- SLDC is entitled to utilize the money from SLDC Development Fund in creation of assets and margin money for raising loan from FIs for assets creation & funding of R&D Projects, if any, relating to Odisha Power System with the necessary approval of the Commission. SLDC has utilized the SLDC Development fund for the capex addition of Rs 208 lakh, Rs 14.5 lakh and Rs 22.91 lakh for FY 2019-20, FY 2020-21 and FY 2021-22 respectively. Also, surplus amount (i.e. income minus expenditure from operation) has been transferred to SLDC fund. Considering all, the accumulated cash balance in SLDC Development Fund, as submitted by SLDC, is Rs.69.08 Crore as on 31.03.2022. As directed by the Commission in earlier order, any asset created by SLDC out of money available in SLDC Development Fund shall not be allowed for computation of Return on Equity & Interest on Loan.

**D. ISSUES RAISED BY OBJECTORS AND RESPONSE BY SLDC (Para 21 to 30)**

**21. Appointment of the Chairperson of the Commission**

Shri R P Mahapatra submitted that the Commission is not properly constituted, at present, to hear the ARR and Tariff Applications of the different constituents in the power sector. As per the provisions in Sections 85(2) and 85(3) of the Electricity Act, 2003, the

Selection Committee should have finalized the selection of the Chairperson by 16.10.2021, i.e. three months before the completion of term of the Chairperson, OERC. Accordingly, the State Government should have issued the Order appointing the successor of the chairperson before he demitted office on 15.01 2022. The objector submitted that in contravention of the provisions in the Electricity Act 2003, appointment of the Chairperson has not been made even though more than 12 (twelve) months have been elapsed. He further submitted that the determination of the Tariff through public hearing is one of the most important functions of the Commission and accordingly all the three Members should hear the Tariff Petitions. The provisions in Section 93 of the Electricity Act 2003 cannot be considered as applicable, when there is inordinate delay in filling up the vacancy of the post of Chairperson without any justification. The Objector requested that the Commission may direct that the existing Tariff determined for the FY 2022-23 be continued till determination of Tariff for the FY 2023-24 through public hearing, after the appointment of the Chairperson of the Commission.

**Response of SLDC**

SLDC has not submitted any comments on this issue.

**22. Power supply**

An Objector submitted that the Commission had directed to OPTCL (Controlling SLDC) that all consumer of the state should get reliable power supply but OPTCL has not yet implemented the order from 2007 to till date. SLDC to furnish the quantum of power SLDC has received during last 10 years i.e. 01/04/2010 to 31/12/2022 from different CGPs.

**Response of SLDC**

SLDC submitted that the details of installed capacity of the CGP's in the State and the contribution by them for meeting the State demand has been consolidated in the Annual performance report of Transmission system of OPTCL and available in the public domain of SLDC Website for the FY 2010-11 up to FY 2021-22. Further, the details of scheduled energy wheeled by the CGP's through open access or third-party transactions are also displayed in the day wise final Schedule for the aforesaid period whereas the consolidated monthly scheduled energy wheeled by the CGP's through open access or third-party transactions are also uploaded in the SLDC website for information of all concerned.



23. **Directives by the Commission**

The Commission has directed in their past ARR for 2009-10, 2010-11, 2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2019-20 & 2020-21 issued directive regarding appointment of directors, creation of SLDC Development Fund, Energy Accounting & Settlement System Centre (EASSC), preparation & issuance of the monthly Energy Account, provide weekly reactive energy account to all the stakeholders, submit monthly report on STOA transactions, submit quarterly performance of SLDC, information on exact no. of Technical and support Executives required at par with ERLDC etc.

**Response of SLDC**

SLDC has submitted that the major points are of observations only. However, the details of installed capacity of the CGPs in the state and the contribution by them for meeting the state demand has been consolidated in the annual performance report of transmission system of OPTCL and available in the public domain of SLDC website for FY 2010-11 upto FY 2021-2022. The details of scheduled energy wheeled by the CGPs through open access or third-party transactions are also displayed in the day wise final schedule for the aforesaid period whereas the consolidated monthly scheduled energy wheeled by CGPS through open access or third-party transactions is also uploaded in the SLDC website.

24. **SLDC functioning a unit under OPTCL**

An Objector urged that the Commission should reject the SLDC's application since of SLDC is still functioning as a unit under OPTCL. Further, SLDC has to furnish the details of units under it in the State at different places & their functioning.

**Response of SLDC**

SLDC has not submitted any comments on the above issue.

25. **Open Access:**

An Objector submitted that SLDC and OPTCL do not submit the details of the STOA and MTOA Customers connected to the State grid. Therefore, the Commission may direct SLDC to submit the relevant data, such as capacity, wheeling and revenue earned in respect to the STOA and MTOA Customers. Further, as per clause no. 8.2 of OERC's (Procurement of Energy from Renewable Sources and its Compliances) Regulations, 2021, SLDC is required to certify the RPO applicable for Captive Users and Open Access Customers. Therefore, SLDC is requested to submit the details of RPO certification done for the captive users and open access customers during previous year.

## **Response of SLDC**

SLDC submitted that 15194.076 MU of energy has been scheduled to be wheeled through the State grid in the FY 2021-22 through STOA. An amount of Rs. 13434.18 Lakh has been collected towards transmission charges of OPTCL in respect of 4703.827 MU of energy transaction through Intra-State Short term open access. The balance energy corresponds to Inter-State open access transactions and the consequential transmission charges has been directly remitted to OPTCL account. The information about the same may be furnished by OPTCL. Further, the customer-wise consolidated open access schedule for a billing month is uploaded in SLDC website during the first week of the succeeding month for information of all stake holders. SLDC is furnishing the source-wise (Conventional, Solar, Non-solar) segregation of total quantum of scheduled energy procured by the obligated entities through open access /third-party transactions every month to Odisha Renewable Energy Development Agency with intimation to OERC. SLDC has shared the information for FY 2021-22 to the objector and also has submitted that the detailed monthly report of Renewable Energy purchased by the obligated entities of the state are available in the SLDC website.

### **26. Non-Separation of SLDC from OPTCL:**

One of the Objectors submitted that despite completion of full 12 years since the notification of OERC (Fees & Charges of SLDC & other related matters) Regulations 2010, the SLDC function of the OPTCL could not be separated as per the provision of section 31 of the Act. No ring-fencing works are being done either by OPTCL or by the Govt of Odisha or GRIDCO so as to make SLDC an independent body. However, separate entity like the POSOCO has been functioning since year 2010. The Director of SLDC has been appointed by Govt of Odisha like appointment of other Directors of OPTCL to manage and control over various functions/wings of OPTCL without its separation. No Licence is issued to SLDC to carry out its functions owing to the constraints of separate entity. Under the provisions of the Act, a Govt. Company should be formed to take over the SLDC function of OPTCL. So, the separation and independent functioning of SLDC like the separation of POSOCO from PGCIL has been a myth. Further, due to the non- separation of SLDC from OPTCL, the Petition has been filed by OPTCL for determination of fees & charges for SLDC function. Moreover, the truing up of the Fees & Charges Orders for SLDC issued by the Commission has not been done since long. The Objector therefore urged the Commission to merge the two Petitions and issue a common Tariff Order for Transmission Tariff and Fees & charges for SLDC

functions till the formation of a Government Company to take over the SLDC function from OPTCL so that it would be easier for the Commission and the Transmission Licensee to true up the Tariff order.

**Response of SLDC**

SLDC has not submitted any comments on the above objection.

**27. Responsibilities of SLDC:**

An Objector submitted that in the functions of the SLDC and the STU have been well enumerated in section 31 & 39 of the Act. In view of the provisions of the Act, the objector has requested the Petitioner to furnish the following data and information for the previous year FY-2021 well in advance before the public hearing of the cases.

- Actual total energy flow in the State grid during previous year (both in MW & MUs) considering all the LTOA, MTOA & STOA Customers. Installed capacity and allocated capacity (GNA Capacity) of the State grid (both in MW & MUs)
- User-wise data (GNA) for use of the total grid capacity availed by the Grid-Users. The data may be furnished zone-wise (if possible).

**Response of SLDC**

SLDC has furnished the total as well as DISCOM-wise energy flow in the State grid during the FY 2021-22 as mentioned in the table below:

**Table - 13**

USERS	ENERGY FLOW	
	MU	AVERAGE (MW)
TPCODL	9164.893	1046.221
TPNODL	6866.893	783.891
TPSODL	3740.499	426.998
TPWODL	15308.192	1747.511
NALCO	53.919	6.155
IMFA	346.460	39.550
<b>TOTAL</b>	<b>35480.856</b>	<b>4050.326</b>

The information on energy flow may be obtained from OPTCL. However, with respect to GNA in accordance with clause (d) of CERC (Connectivity and General Network Access to the Inter-State Transmission system) Regulations 2022, 2157 MW of the GNA deemed to have been granted to STU (Odisha) has been segregated as 409 MW for each intra-state entity and 1709 MW for GRIDCO (on behalf of Distribution Licensees of

Odisha) and has been intimated to NLDC, CTU and STU (OPTCL) as per clause (e) of the said Regulations.

**28. Intra-State Open Access and Information Disclosure System**

Another Objector submitted that, the Petitioner (SLDC) has huge responsibility and obligations to disclose the required data as specified by the Commission under the Chapter-9, Regulation No.36 of OERC (Terms & Conditions of intra-State Open Access) Regulations, 2020 titled "Information System" in the website of SLDC in a separate webpage under the heading "Open Access Information" and also issue a monthly and annual report containing such information. During the last tariff proceeding, SLDC has submitted that all the above information will be declared in their website as specified in the Regulations. But, such information has been declared in a willful manner by the petitioner, which do not resemble with Regulatory information. Therefore, the Commission may issue necessary directions to the Petitioner for compliance of the above Regulations in a time bound manner.

**Response of SLDC**

SLDC submitted that SLDC website is regularly updated with the Open Access information in line with the Regulation No. 36 (Chapter-9) of the OERC (Terms & Conditions of intra-State Open Access) Regulation, 2020. The month wise open access information is available in the SLDC website and the daily reports of SLDC such as Grid Status Report & Power Status Report which contain the overview of State grid as well as daily open access information is available in public domain. Also, the peak load flow of EHV / HV lines emanating from OPTCL grids and transformer loading corresponding to the peak demand of current financial year is displayed in the SLDC website. Further, the monthly and annual system performance report containing all the above information is available in SLDC website. OPTCL may provide the information regarding average loss in transmission system and GRIDCO may provide the losses of the distribution system derived by the distribution licensees. SLDC has always operated in a neutral and transparent manner without hiding any information.

**29. Available capacity of the various segments/zones of the Transmission lines and Sub-Stations**

An Objector submitted that in addition to the public notification on Customers information for sale of the services of state grid in open market, the Petitioner was required to compute the available capacity of the various segments/zones of the

Transmission lines and Sub- Stations as per the methods specified by the Commission in the Regulation No. 41 of OERC (T&C for intra-State Open Access) Regulations, 2020, so as to promote the sale of services of the state grid in the open market. The above Regulation requires SLDC to disclose the un-utilized capacity of the state grid in the website of SLDC/STU for the necessary information of the stakeholders.

#### **Response of SLDC**

SLDC submitted that the monthly Total Transfer Capacity (TTC), Reliability Margin (RM) and Available Transfer Capacity (ATC) of the State Control area are computed using PSS/E software in line with the method adopted by the Regional Load Despatch Centres (RLDCs) & National Load Despatch Centre (NLDC) and displayed in the SLDC website to inform about the maximum import and export capability of the State Control area in a particular month. This study is carried out in advance for three months. This information is available in the public domain and all the open access customers can access this information for their use. Further, it shall be pertinent to mention that during the current year no open access application has been rejected on account of congestion in transmission corridor.

#### **30. Renewable Energy Policy**

One of the Objectors submitted that Govt of Odisha has notified the Odisha Renewable Energy Policy, 2022 on dt 30.11.2022 in which SLDC is given huge roles and responsibilities. In view of Clause No. 23.8 titled "Grid Balancing Asset", the Policy states that, SLDC shall hold consultations with all grid connected Renewable Purchase obligated entities to aggregate the total ESO (Energy Storage Obligation) requirement of the State and explore the possibility of procuring the service of developers of PSH, BESS etc. to provide storage as a service to meet the aggregate storage demand. SLDC shall claim the cost of procuring such service in its ARR.

#### **Response of SLDC**

SLDC submits that it has issued letter to all the grid connected Renewable Purchase obligated entities of the state requesting them to furnish their yearly total Projected Energy Demand starting from FY 2022-23 to 2029-30, so as to aggregate the estimated total Energy Storage Obligation (ESO) requirement of the State as mandated in the Odisha Renewable Energy policy, 2022.

**E. RESPONSE OF SLDC TO VARIOUS QUERIES RAISED DURING HEARING  
(Para 31 to 37)**

**31. Depreciation**

SLDC submits that Straight Line Method has been adopted as per Clause 13(4) of OERC (Fees and Charges of State Load Despatch Centre and other related matters) Regulations, 2010 for calculation of depreciation considering the Gross Block Value of Rs. 609.29 Lakh as on 31.03.2022, which is the initial value of the assets. SLDC has proposed Rs.80.689 lakh accordingly for depreciation. SLDC has considered the gross block value of computer and peripherals for data centre as Rs.258.13 lakhs as the initial value of the asset and proposed Rs.38.719 lakhs as depreciation for the purpose.

**32. O&M Expenses excluding HR**

SLDC has projected O&M expenses of Rs.356.455 lakh considering the expenditure to be incurred in FY 2023-24 wherein Rs.140.29 lakh has been claimed for R & M expenses and Rs.216.165 lakh for A & G expenses. The five major components are (i) Rs. 50.0 lakhs to be incurred for repair of dilapidated rooms, leak proof treatment of roofs, colouring & maintenance of residential buildings of SLDC colony (ii) Rs. 50.0 Lakhs for AMC charges of Computers, peripherals & Software, (iii) Rs. 15.0 Lakhs for electrical maintenance of Office Building, Colony quarters including Street light, (iv) Rs. 7.00 lakhs for Facility Management Service charges and (v) Rs. 5.29 Lakhs for MPLS charges for ADMS signal communication with substations which totally amount to Rs. 127.29 Lakhs. In order to execute the essential works like Civil Repair & Maintenance works of SLDC Office Buildings & Colony Quarters including Roads & Boundary walls, Water supply system & Sewerage, SLDC has proposed an amount of Rs.50.00 lakh in the ARR for FY 2023-24. SLDC has also requested OPTCL to keep provision for an amount of Rs. 25 Lakhs for minor civil R&M works to be executed through Civil wing of OPTCL for the FY 2023-24. Out of Rs.188.20 lakh projected for A&G expenses, the major components are Electricity charges, Watch & Ward, Travelling expenses, Training (including certification of System Operators), Hire charges of vehicles and Legal expenses.

**33. Human Resources Expenses**

SLDC submits that the HR expenses of Rs. 974.545 lakh is on account of salary for FY 2023-24. SLDC has submitted that actual expenses up to January, 2023 was Rs.797.830

lakh under this head and payment of 50% arrear due to implementation of 7th pay commission report for FY 22-23.

**34. Certification of LDC personnel**

As per the recommendation of the various Committees/Task Forces constituted by the Ministry of Power/Central Electricity Authority, the National Power Training Institute (NPTI) has been entrusted with the responsibility of conducting the training with three levels of certification viz. 'BASIC LEVEL', 'SPECIALIST LEVEL' and 'MANAGEMENT LEVEL'. NPTI is presently offering training program for 'BASIC LEVEL' in Power System Operation and 'SPECIALIST LEVEL' certification of System Operation in five subjects namely i) Power System Reliability, ii) Regulatory Framework, iii) Power System Logistics, iv) Renewable Energy Sources and Grid Integration, v) Power Market Specialist. Apart from the aforesaid training programs, NPTI also conducts specialized training on Load Flow Analysis using PSS/E software and Wide Area Monitoring and Phasor Measurement Units. SLDC has submitted that out of 38 nos. technical executives of SLDC, 29 nos. of executives have been certified in BASIC LEVEL of Power System Operation. Out of them, 8 nos. of executives have also been certified in SPECIALIST LEVEL for Regulatory Framework & Power System Reliability. The certification examination has not been conducted since 2020 due to COVID-19 pandemic situation, the validity of the certificates of 18 Nos. of executives have expired and presently 11 nos. of executives of SLDC are having valid certificate in BASIC LEVEL of Power System Operation. However, NPTI is going to conduct the BASIC level certification examination shortly and the technical executives of SLDC shall appear in the examination to revalidate their Certificate.

**35. Utilization of money from the “SLDC Development Fund”**

The money utilized from SLDC Development Fund during FY 2019-20, FY 2020-21, FY 2021-22 and FY 2022-23 is mentioned in the table below:

**Table-14**

<b>Year</b>	<b>Amount spent in Rs.</b>
FY 2019-20	2,08,82,166.00
FY 2020-21	14,50,224.00
FY 2021-22	22,91,455.00
FY 2022-23(Up to January 2023)	30,82,923.00

36. **Transfer of assets of SLDC along with Sub –SLDC**

The assets pertaining to SLDC are being used for SLDC functions only. Further, major assets such as computer & peripherals, furniture & fixture, VPS screen SLDC were created by utilizing the funds from SLDC development fund with due approval of the Commission. The Commission in addition to the above has approved for construction of new building to be used by SLDC. As such, all assets have been acquired by SLDC for its own use. Therefore, transfer of the asset is not relevant in the present scenario. However, a formal ‘Transfer Scheme’ by Government of Odisha would be required for transfer of assets.

37. **Status of CAPEX**

Commission had approved Rs.450 lakh out of total approved amount of Rs.717.99 lakh for construction of new building adjacent to existing building of SLDC under CAPEX expenditure for FY 2016-17 to 2017-18. Thereafter, the Commission had approved Rs.3435.16 lakh for construction of new building for SLDC. SLDC has placed the work order for construction of its new building. Further, SLDC in response to the observation of WISE, has submitted that SLDC has procured computers and peripherals amounting to Rs.244.57 lakh with reference to the approval of the same by OERC in Case No.47 of 2016 (Rs.222.0 lakh and Case No.78 of 2017 (24.57 lakh). SLDC has spent Rs.24.55 lakh for implementation of Automatic Demand Management Scheme (ADMS) in Odisha Power System against the Commission’s approval of Rs.53.00 lakh. SLDC submitted that the ADMS project was made operational on 19.07.2022 and the balance amount will be spent after receipt of final installment from PSDF.

**F. OBSERVATIONS OF STATE ADVISORY COMMITTEE (SAC) (Para 38)**

38. The Commission convened the State Advisory Committee (SAC) meeting on 15.03.2023. The members of SAC deliberated on various issues related to power sector and the Annual Revenue Requirement of licensees and generators. However, no specific view was offered relating to the Annual Revenue Requirement and Fees & Charges of SLDC for the FY 2023-24.

**G. VIEWS OF GOVERNMENT OF ODISHA (PARA 39)**

39. Representative of Government of Odisha was present during the tariff hearing. However, no specific suggestion was given by the State Government with regard to determination of fees and charges for SLDC for the FY 2023-24.



## **H. COMMISSION'S OBSERVATIONS AND ORDER (Para 40 to 65)**

40. At the outset we want to clarify that the suggestion of the objectors regarding combining two Petitions of SLDC and OPTCL and issuing a common Order for Transmission Tariff of OPTCL and Fees & Operating charges for SLDC functions till the SLDC is separated from OPTCL and function as an independent organization is not pragmatic. This is because Transmission Tariff is being determined as per the provisions of OERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2014 which has no relationship with determination of Fees & Operating Charges of SLDC, which is governed under OERC (Fees and Charges of SLDC and Other Related Matter) Regulations, 2010. Therefore, issue of a single/common tariff order for OPTCL & SLDC is not desirable.
41. The Commission has followed the principles laid down in the Electricity Act, 2003, CERC (Fees and Charges of RLDC and Other Related Matters) Regulations, 2009 and OERC (Fees and Charges of SLDC and other Related matters) Regulations, 2010 for approval of ARR for SLDC's functions and determination of Annual Fees & Charges for the FY 2023-24. At present, SLDC is functioning independently headed by the Chief Load Despatcher and is maintaining separate financial accounts although administrative ring fencing is not fully implemented. Therefore, collection of annual fees and charges for SLDC function from various stakeholders as per section 32(3) of the Act and other sources by SLDC is permissible under law. The various components associated with determination of Revenue Requirement for SLDC functions is given hereunder:

### **Return on Equity (RoE)**

42. SLDC has not proposed any RoE in the ARR since no equity has been invested. Therefore, the Commission does not allow any RoE in the ARR of SLDC for the FY 2023-24.

### **Interest on Loan Capital**

43. SLDC has not proposed any Interest on Loan Capital in the ARR as there is no outstanding loan. Therefore, the Commission does not allow any interest on loan in the ARR of SLDC for the FY 2023-24.

## Depreciation

44. The OERC (Fees & Charges of SLDC and other related matters) Regulations, 2010 provides that the depreciation shall be calculated annually on straight line method and at the rate specified by CERC from time to time. The capital cost of the asset admitted by the Commission shall be considered for the purpose of calculation of depreciation. SLDC has proposed Depreciation of Rs.80.689 lakh for the FY 2023-24 for its assets in the following manner.

**Table –15**  
**Depreciation for the FY 2023-24 (Rs. Lakh)**

Sl. No.	Name of the Assets	Gross Block as on 31.03.2022	Rate of Depreciation as per CERC's Schedule rate of depreciation	Depreciation Amount for the year 2023-24
	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	04.93	5.28%	0.260
6.	Isolation transformer & ACDB for UPS	10.46	5.28%	0.553
7.	Underground Cables	00.81	5.28%	0.043
8.	Split type Air Conditioner			
(i)	Procured during 2012-13 (4)	01.87	5.28%	0.099
(ii)	Procured during 2014-15 (7)	03.69	5.28%	0.195
(iii)	Procured during 2016-17 (18)	08.04	5.28%	0.424
(iv)	Procured during 2019-20 (16)	07.69	5.28%	0.406
(v)	AC Stabilizer	02.31	5.28%	0.122
9.	DG Set for disaster management	09.31	5.28%	0.491
10.	3 HP water pump	00.38	6.33%	0.024
11.	Office Furnitures including new	21.21	6.33%	1.343
12.	New Furnitures for SLDC Director's office	01.69	6.33%	0.107
13.	Water purifier	00.68	6.33%	0.043
14.	Electrical Installation for SLDC building (new)	18.06	6.33%	1.143
15.	Computer tables for EASSC	01.02	6.33%	0.064
16.	Video Projection System (VPS) including upgradation and enhancement	166.53	15.00%	24.979
17.	Photo copier	04.13	6.33%	0.261
18.	Laptops, Desktop Computers & peripherals for SLDC Control room and office	36.80	15.00%	5.520
19.	Microphone Video for Video Conferencing	01.78	15.00%	0.267
20.	Computers & peripherals for data centre	258.13	15.00%	38.719
21.	RVDU at Jayanagar sub-station	15.29	15.00%	2.293
22.	Vehicle	04.77	5.28%	0.252

Sl. No.	Name of the Assets	Gross Block as on 31.03.2022	Rate of Depreciation as per CERC's Schedule rate of depreciation	Depreciation Amount for the year 2023-24
23.	Firewall	18.32	15.00%	2.115
24.	Printer	03.13	15.00%	0.469
25.	UPS	01.39	15.00%	0.209
26.	Office Equipment	02.20	6.33%	0.139
27.	CCTV Camera	00.07	6.33%	0.005
28.	LED Lights (55 Nos.)	00.63	6.33%	0.009
29.	HP All in One PC 3 Nos.	01.74	15.00%	0.100
30.	HP All in One PC 1 No.	00.58	15.00%	0.015
31.	HP LaserJet Multi-Function Printer 1 No.	00.24	15.00%	0.006
32.	GIGA 24 Port Switch (DLINK) 2 Nos.	00.35	15.00%	0.004
33.	One Plus Nord CE Mobile (1 No.)	00.25	6.33%	0.004
34.	Motorola T-82 License Fee Walkie Talkie (4 Nos.)	00.31	6.33%	0.002
35.	Fire Extinguisher (CO2) Base 4.5 Kg 10 Nos. & 6Kg 6 Nos.	00.50	6.33%	0.00208
	<b>TOTAL</b>	<b>609.29</b>		<b>80.689</b>
	<b>Weighted Average Rate of Depreciation (%)</b>		<b>13.24</b>	

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

45. The depreciation amounting to Rs.80.689 lakhs proposed above is inclusive of depreciation for the assets in the Unified Load Despatch Centre (ULDC) and offices in SLDC which has been computed in line with CERC's norm as per above mentioned OERC's Regulation. The depreciation claimed by SLDC is for the assets such as computers and peripherals for SLDC data Centre & for the Video Projection System (VPS) including its up-gradation and enhancement. The Commission after prudence check approves Rs. 80.689 lakh towards depreciation of assets for the FY 2023-24 as proposed by the SLDC.

#### **Employee Cost (Human Resource Expenses)**

46. SLDC has projected Rs. 974.545 lakhs as the total Employee Cost for the ensuing FY 2023-24 considering the existing employees including 4 numbers of Telecommunication personnel working at SLDC control Centre. In addition to the above, salary for 13 numbers of contractual / outsourced staff, engaged at SLDC has also been considered.
47. The Commission has examined the elements linked to employees cost proposed by SLDC. In past tariff exercise, the Commission has always considered the basic pay on prorated basis of actual basic pay of previous year. The Commission observes that the

prorated basic pay calculated for the FY 2023-24, considering the actual basic pay for first 8 months of the FY 2022-23, is found to be more than that proposed by SLDC. The Commission considers the basic pay/salary of Rs.528.492 lakh as proposed by SLDC and has allowed Dearness Allowances @ 45% and Medical Allowance @ 5% of basic pay. House Rent Allowance @14% of basic pay is allowed on the basis of actual HRA paid to employees. Other employees related cost and allowances has been considered by the Commission appropriately. Accordingly, the Commission approves Rs.954.611 lakh towards employee cost for FY 2023-24 against Rs.974.545 lakh as proposed by SLDC. The details of proposed and approved employee's cost (Human resource expenses) is shown in the table below:

**Table - 16**  
**SLDC Employees Cost for FY 2023-24 (Rs. Lakh)**

<b>Sl. No</b>	<b>Particulars</b>	<b>Proposed for 2023-24</b>	<b>Approved for FY 2023-24</b>
1.	Salaries	528.492	528.492
2.	Dearness Allowance	232.536	237.820
3.	Other Allowance such as shift, Conveyance, ABT, green card washing etc.	18.744	17.580
4.	Contractual Staff Payment	26.901	15.560
5.	Reimbursement of Medical Expenses	26.425	26.425
6.	Leave Travel Concession	3.000	2.000
7.	Reimbursement of House Rent	82.161	74.000
8.	Ex-gratia	12.250	9.048
9.	Staff Welfare Expenses	0.050	0.050
10.	Terminal Benefits (Employer's Share)	41.136	41.136
11.	Others (Specify) (Uniform & Liveries)	2.850	2.500
12.	<b>Total (1 to 11)</b>	<b>974.545</b>	<b>954.611</b>
13.	Revenue recovered, if any	-	-
14.	<b>Net Total (12-13)</b>	<b>974.545</b>	<b>954.611</b>

**Operation and Maintenance (O&M) Expenses (Excluding Human Resource Expenses)**

48. SLDC has proposed Rs.356.455 lakh in its ARR for FY 2023-24 towards Operation and Maintenance (O&M) Expenses excluding employees' cost. As per OERC (Fees & Charges of SLDC and other related matters) Regulations, 2010, Operation and Maintenance (O&M) Expenses includes Repair & Maintenance and A&G expenses and excludes Human Resources Expenses. The permissible operation and maintenance expenses for the subsequent years of the tariff period shall be escalated at the rate of 5.72% per annum.

49. The Commission has scrutinized the actual expenditure made by SLDC for R&M and A&G expenses during FY 2021-22. Accordingly, the Commission has evaluated O&M expenses for the FY 2023-24 considering the annual escalation @5.72% per annum and approves Rs.208.701 lakh towards Operation and Maintenance (O&M) Expenses (Excluding Human Resource Expenses) which includes R&M expenses of Rs.77.16 lakh and A&G expenses of Rs.131.54 lakh. The details are shown in the table below:

**Table – 17**  
**SLDC R&M and A&G Expenses for FY 2023-24 (Rs. Lakh)**

Sl. No.	Particulars	Actual for FY 2021-22	Approved for FY 2022-23	Proposed for FY 2023-24	Approved for FY 2023-24
1.	R& M Expenses	69.035	89.311	140.290	77.158
2.	A&G Expenses	117.694	104.637	216.165	131.543
	<b>Total (1+2)</b>	<b>186.729</b>	<b>193.948</b>	<b>356.455</b>	<b>208.700</b>

**Interest on Working Capital**

50. SLDC has estimated that its working capital requirement is Rs.353.083 lakh and accordingly has proposed Rs.41.311 lakh as interest on working capital considering @ 11.70 % as rate of interest (SBI base Rate 8.70 % plus 300 basis point). However, the OERC (Fees & Charges of SLDC and other related matters) Regulations, 2010 provides that rate of Interest on working capital shall be on normative basis and shall be equal to the short-term Prime lending rate of State Bank of India. The Commission observes that since SLDC has adequate fund in the SLDC Development Fund and this fund is being used for the purpose of working capital considering the amount spent as deemed loan, therefore no interest on working capital for FY 2023-24 is allowed.

**Summary of ARR of SLDC for FY 2023-24**

51. The details of expenses proposed by SLDC in its ARR and approved by the Commission for FY 2023-24 has been summarized in the Table below:

**Table – 18**  
**Summary of ARR of SLDC for FY 2023-24 (Rs. in Lakh)**

SL No.	Items	Commission Approval for FY 2022-23	Proposal for FY 2023-24	Approved for FY 2023-24
1	Human Resource Expenses	874.473	974.545	954.611
2	O & M (Excluding Human Resources Expenses)	193.948	356.455	208.700
3	Depreciation	81.183	80.689	80.689
5	Interest on Working Capital	0.000	41.311	0.000
	<b>Total</b>	<b>1149.604</b>	<b>1453.000</b>	<b>1244.000</b>

52. **Determination of Annual Charges of SLDC**

- (a) The Commission approves Rs.1244.00 lakhs (Rs.103.667 lakhs/month) as the Annual Charges for SLDC Operation during FY 2023-24 and the same is to be recovered from the users of the Intra-State Transmission Network and avail the services of SLDC during the ensuing year.
- (b) As per the above mentioned Regulations of OERC, the Commission has considered Annual Fixed Charges (AFC) of SLDC Operations for FY 2023-24, which is to be recovered through SOC & MOC, the details of which is given in the table below:

**Table - 19**  
**SLDC Charges approved for the FY 2023-24 (Rs. in Lakh)**

Sl No	Particulars	Total for FY 2023-24	Monthly Charges
<b>1</b>	<b>Annual charges (AFC)</b>	<b>1,244.000</b>	<b>103.667</b>
A	System Operation Charges (SOC) (80% of the AFC)	995.200	82.933
B	Market Operation Charges (MOC) (20% of the AFC)	248.800	20.734
	<b>Total (A+B)</b>	<b>1,244.000</b>	<b>103.667</b>
<b>A</b>	<b>System Operation Charges (SOC) (80% of the AFC)</b>	<b>995.200</b>	<b>82.933</b>
a)	Intra State Transmission Licensee @10% of SOC	99.520	8.293
b)	Generating Station & Sellers @45% of SOC	447.840	37.320
c)	Distribution Licensees & Buyers@45% of SOC	447.840	37.320
	<b>Total of A (a+b+c)</b>	<b>995.200</b>	<b>82.933</b>
<b>B</b>	<b>Market Operation Charges (MOC) (20% of the AFC)</b>	<b>248.800</b>	<b>20.734</b>
d)	Generating Station & Sellers @50% of MOC	124.400	10.367
e)	Distribution Licensees & Buyers@50% of MOC	124.400	10.367
	<b>Total of B (d+e)</b>	<b>248.800</b>	<b>20.734</b>

53. **Recovery of System Operation Charges (SOC)**

- i) The recovery of SOC from Intra-State Transmission Licensee shall be Rs.99.520 lakhs/annum or Rs.8.293 lakhs/month (i.e.10% of annual SOC of Rs.995.20 lakhs).
- ii) The SOC shall be recovered @ Rs.7200.498/MW/annum or @Rs.600.042/MW/month from the Generating Stations & Sellers based on installed capacity of all generators including CGPs as assessed by SLDC (6219.57 MW).
- iii) The recovery of SOC from the Distribution Licensees & Buyers shall be based on the percentage of Energy Consumption for FY 2023-24 & shall be as shown in table below:

**Table - 20**  
**Apportionment of Annual & Monthly SOC amongst**  
**Distribution Companies for FY the 2023-24**

<b>Name of DISCOMs</b>	<b>Energy Consumption approved by OERC for FY 2023-24 (MU)</b>	<b>% Share of Energy Consumption</b>	<b>Annual Charge (In lakh)</b>	<b>Monthly Charge (In lakh)</b>
TPCODL	11,256	30.44	136.351	11.363
TPNODL	7,508	20.31	90.949	7.579
TPWODL	13,286	35.94	160.941	13.412
TPSODL	4,920	13.31	59.599	4.967
<b>Total</b>	<b>36,970</b>	<b>100.00</b>	<b>447.840</b>	<b>37.320</b>

**54. Market Operation Charges (MOC)**

The Market Operation Charges (MOC) of Rs.248.800 lakh/annum or Rs.20.734 lakh/month shall be apportioned for collection from the following stakeholders as under:

- Generating Stations & Sellers @ 50% of MOC - Rs.124.400 lakh/annum or Rs.10.367 lakh/month
- DISCOM Utilities & Buyers @ 50% of MOC - Rs. 124.400 lakh/annum or Rs. 10.367 lakh/month

**55. Recovery of Market Operation Charges (MOC)**

- The recovery of MOC from the Generating Stations & Sellers based on installed capacity of all generators including CGPs as assessed by SLDC (6219.57 MW) shall be @ Rs.2000.138/MW/annum or @ Rs.166.678/MW/month.
- The recovery of MOC from the Distribution Licensees is based on the percentage of Energy Consumption for FY 2023-24 as shown in Table below:

**Table - 21**  
**Apportionment of Annual & Monthly MOC amongst**  
**Distribution Companies for the FY 2023-24**

<b>Name of DISCOMs</b>	<b>Energy Consumption approved by OERC for FY 2023-24 (MU)</b>	<b>% Share of Energy Consumption</b>	<b>Annual MOC (Rs. lakh)</b>	<b>Monthly MOC (Rs. lakh)</b>
TPCODL	11,256	30.44	37.875	3.156
TPNODL	7,508	20.31	25.264	2.105
TPWODL	13,286	35.94	44.706	3.726
TPSODL	4,920	13.31	16.555	1.380
<b>Total</b>	<b>36,970</b>	<b>100.00</b>	<b>124.400</b>	<b>10.367</b>

**56. Registration Fee**

SLDC has proposed collection of one-time Registration Fee of Rs.1.00 lakh as per OERC Regulation from all users whose Scheduling, Metering & Energy Accounting are

coordinated by SLDC. It has also proposed to collect one-time registration fee from the industries who are importing power through Inter-state open access. The Commission approves the proposal of SLDC for collection of one-time Registration Fee of Rs.1.00 lakh each from all users, which may be deposited in SLDC Development Fund as per Regulation 8 of OERC's Regulations, 2010 relating to SLDC Fees & Charges.

**57. Application Fee and Scheduling Charges**

SLDC in its ARR application has proposed that the Application Fee and Scheduling Charges shall be paid by the Open Access Customers as per OERC (Terms and Conditions of Intra-State Open Access) Regulations, 2020. The Commission approves the proposed Application Fee and Scheduling Charges for Open Access Customers payable to SLDC during FY 2023-24 as per above Regulations of OERC.

**58. ARR and Annual & Monthly Charges for the FY 2023-24**

The details of ARR and Annual & Monthly Charges of SLDC for the FY 2023-24 for collection from different stakeholders approved by the Commission are summarized in Table below:

**Table - 22  
ARR & Annual and Monthly Charges for FY 2023-24**

Sl. No.	Particulars	Approved for 2023-24 (Rs. in Lakh)	
		Per annum	Per month
1	ARR of SLDC	1244.000	103.667
2	Intra-State transmission licensee to pay SOC to SLDC	99.520	8.293
3	Generating Stations & Sellers to pay SOC & MOC to SLDC (Rs. per MW calculated considering generation capacity of 6219.57 MW)	572.240 (Rs.9200.636 per MW)	47.687 (Rs.766.720 per MW)
4	Distribution Licensees & Buyers to pay SOC & MOC to SLDC	572.240	47.687
5	(i) TPCODL	174.226	14.519
	(ii) TPNODL	116.213	9.684
	(iii) TPWODL	205.647	17.138
	(iv) TPSODL	76.154	6.347

**59. Payment Mechanism of Annual Charges to SLDC**

(a) The LC arrangement has been created between SLDC and DISCOMs for securing payment of SLDC charges. The Customers other than DISCOMs shall pay the Monthly Charges to SLDC directly based on the bills served upon them from time to time by SLDC. The Customers other than DISCOMs shall pay an amount



equivalent to two months monthly SOC & MOC as the case may be in advance as security against default in payment of SOC & MOC of SLDC.

- (b) SLDC shall raise the bill both for SOC & MOC to Generating Stations & Sellers on monthly basis against total contracted capacity of 6219.57 MW for the FY 2023-24 at the rates approved by the Commission. Similarly, SLDC shall raise the bill to OPTCL & Distribution Licensees on monthly basis at the rates approved by the Commission for the FY 2023-24.
- (c) For payment of bills on monthly basis through Letter of Credit (LC) mechanism, a rebate of 2% shall be allowed. Other than Letter of Credit mechanism, if payment is made within a period of one month of presentation of bills, a rebate of 1% shall be allowed.
- (d) In case the payment of any bill for SLDC charges is delayed by any user beyond a period of 60 days from the date of billing, a late payment surcharge at the rate of 1.25% per month shall be levied by the SLDC.
- (e) The SOC & MOC Charges of SLDC shall be paid on monthly basis by the Customers based on the monthly bills served upon them by SLDC following the payment mechanism mentioned above.

**60. SLDC Development Fund**

- (a) Based on the provisions in CERC Regulation, 2009 & Regulation-8 of OERC (Fees & Charges of SLDC and other related Matters) Regulation, 2010, the Commission vide Para-213 of the Order dated 20.03.2010 had approved for creation of a separate fund by SLDC namely “SLDC Development Fund” under a separate head of account. SLDC Development Fund has already been created by SLDC with effect from 01.04.2010.
- (b) The accumulated cash balance in SLDC Development Fund has been shown by SLDC as Rs.69.080 Crore (as on 31.03.2022).
- (c) The miscellaneous income of SLDC such as Registration Fee, Application Fee, Short Term Open Access Charges, etc. during FY 2023-24 shall be deposited in the SLDC Development Fund as per Regulation 8 of OERC (Fees & Charges of SLDC and other related matters) Regulation, 2010.
- (d) SLDC shall be entitled to utilize the SLDC Development Fund as usual in creation of assets, payment of margin money for raising loan from FIs for assets creation

and funding of R&D Projects, if any, relating to development of Odisha Power System with the necessary approval of the Commission.

- (e) Any asset created by SLDC out of SLDC Development Fund shall not be considered for Return on Equity (RoE) & payment towards Interest on Loan.
61. SLDC need to ensure the availability of required information from substations through SCADA/ RTU and share it with OPTCL for billing and smooth operation of the system. Further, efficient operation of the transmission system is very much required because of expected large scale integration of renewable generation with variability in injection of power in coming years. SLDC should provide operation feedback to OPTCL regularly regarding overloading of transmission lines and transformers, over/ under voltage at various substations and need of reactive compensation etc., so that remedial action can be taken through proper planning of transmission system for future and for strengthening/augmentation of existing system for mitigation of constraints in transmission system for smooth operation of the power system of the state.
  62. At present, people of the State are considering solar energy as a feasible option for powering their homes and businesses because of increase in their own electricity consumption as well as energy costs day by day. Further, due to the formulation/ introduction of Renewable Energy Policy 2022 by the Government of Odisha, many industries/firms in Odisha are now interested to go for generation of power from Renewable Energy Sources like Solar or Wind in Odisha. We therefore expect a large-scale integration of Solar generation in the State Power System in near future. It is fact that in absence of a proper storage system, the generation of Solar power can only be best utilized during the day time. Therefore, SLDC shall make use of the flexibility provided by conventional hydro generation plants and the capacity of inter-Grid tie-lines to accommodate Solar energy generation to the largest extent possible subject to Grid security.
  63. SLDC as an Independent System Operator (ISO) has an important role to play to ensure integrated operation of Power System of the State. The transmission system of OPTCL includes about 800 numbers of transmission lines and 190 numbers of grid substations, which are in operation at 132 kV, 220 kV and 400 kV level, to cater to present peak demand of about 5000-6000 MW of the State. However, some of the substations and transmission lines are under loaded resulting in under-utilization of the transmission system assets.

As an ISO, SLDC is directed:

- (a) To assess the Power flow in different lines at different voltage levels (132 kV, 220 kV & 400 kV) in last three years to understand the utilization level of the transmission assets (10-30%, 30-40%, 40-50%, 50-60%, >60%) so that future planning for addition of transmission assets can be done properly for optimum utilization of assets.
  - (b) To provide details on System Protection Scheme (SPS) in operation/any future planning for implementation such system in the intra-state transmission system.
  - (c) To undertake planning & implementation of back up SLDC to avoid any unexpected cyber-attack.
  - (d) To carryout study for planning and development of Islanding Scheme for major cities like Bhubaneswar, Cuttack & Berhampur etc. separately and combinedly.
  - (e) To undertake planning to collect meter data and other relevant information online relating to RE generation (about 20-25 GW) in the state, which is likely to be injected to the Grid at 33 kV level.
  - (f) To list out Automatic Generation Control (AGC) enabled generators.
  - (g) To intimate the measures being taken to prevent cyber-attack to ensure safe, secure and efficient operation of the State Power System.
64. The System Operation & Market Operation Charges approved in respect of SLDC will become effective from 1<sup>st</sup> April, 2023 and shall continue until further orders.
65. The application of SLDC in Case No. 77 of 2022 for approval of Annual Revenue Requirement and Fees and Charges for State Load Despatch Centre (SLDC) functions is disposed of accordingly.

Sd/-

**(S.K. RAY MOHAPATRA)**  
**MEMBER**

Sd/-

**(G. MOHAPATRA)**  
**MEMBER**