

Before the
Hon'ble
Odisha Electricity Regulatory Commission
Bhubaneswar



Application for Determination of Aggregate Revenue
Requirement (ARR) and Bulk Supply Price (BSP) for
FY 2025-26

November 2024

Notes:

In this Application:

- **Year is defined as Financial Year 2025-26**
- **All currency figures used in this Application, unless specifically stated otherwise, are in Rs. Crore.**
- **All energy unit figures used in this Application, unless specifically stated otherwise, are in Million Units (MU).**

List of Abbreviations

AEC	Auxiliary Energy Consumption
APGENCO	Andhra Pradesh Power Generation Corporation
APTEL	Appellate Tribunal for Electricity
ARR	Aggregate Revenue Requirement
BSP	Bulk Supply Price
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGPs	Captive Generation Plants
CGSs	Central Generating Stations
CoD	Commercial Operation Date
CPSUs	Central Public Sector Undertakings
Cr.	Crore (Indian Rupees)
CTU	Central Transmission Utility
CVPF	Calorific Value of Primary Fuel
CVSF	Calorific Value of Secondary Fuel
DISCOMs	Distribution Companies
DSM	Deviation Settlement Mechanism
DSTPS	Darlipalli Super Thermal Power Station
DVC	Damodar Valley Corporation
EA 2003	Electricity Act, 2003
ECR	Energy Charge Rate
ED	Evidential Document
EHT	Extra High Tension
EPS	Electric Power Survey
FSPV	Floating Solar Photovoltaic
FSTPS	Farakka Super Thermal Power Station
FY	Financial Year
GCV	Gross Calorific Value
GEDCOL	Green Energy Development of Odisha Limited
GDP	Gross Domestic Product
GHR	Gross Station Heat Rate
GKEL	GMR Kamalanga Energy Limited
GoI	Government of India
Govt. of Odisha	Government of Odisha
GRIDCO	Grid Corporation of Odisha
GW	Giga-Watt
HEP	Hydro Electric Project
HPO	Hydro Power Obligation
IMFA	Indian Metals & Ferro Alloys Limited
IPPs	Independent Power Producers
ISTS	Inter-State Transmission System
JITPL	Jindal India Thermal Power Limited

JNNSM	Jawaharlal Nehru National Solar Mission
KBUNL	Kanti Bijli Utpadan Nigam Limited
KhSTPS	Kahalgaon Super Thermal Power Station
kVA	Kilo Volt Ampere
kW	Kilo Watt
kWh	Kilo Watt Hour or Unit
LPPF	Landed Price of Primary Fuel
LTA	Long Term Agreement
MHEP	Machhkund Hydro Electric Project
MoD	Merit Order Dispatch
MOC	Market Operation Charges
MPERC	Madhya Pradesh Electricity Regulatory Commission
MTC	Monthly Transmission Charges
MUs	Million Units
MVA	Mega Volt Ampere
MW	Mega Watt
NALCO	National Aluminium Company
NCLT	National Company Law Tribunal
NHPC	National Hydro Power Corporation
NTPC	National Thermal Power Corporation
NVVNL	NTPC Vidyut Vyapar Nigam Limited
NKSTPS	North Karnapura Super Thermal Power Stations
OERC	Odisha Electricity Regulatory Commission
OHPC	Odisha Hydro Power Corporation
OPGC	Odisha Power Generation Corporation
OPTCL	Odisha Power Transmission Corporation Limited
OREDA	Odisha Renewable Energy Development Agency
OSEB	Odisha State Electricity Board
PGCIL	Power Grid Corporation India Limited
PLF	Plant Load Factor
POSOCO	Power System Operation Corporation
PPAs	Power Purchase Agreements
PSA	Power Sale Agreement
P/U	Paise/Unit
Rs.	Indian Rupees
REA	Regional Energy Account
RIL	Reliance Infrastructure Limited
RENA	Renewable Energy Nodal Agency
RPO	Renewable Purchase Obligation
RPSSGP	Rooftop PV Small Solar Generation Program
RST	Retail Supply Tariff
RTS	Roof Top Solar
SDE	State Designated Entity
SECI	Solar Energy Corporation of India

SERC	State Electricity Regulatory Commission
SFC	Specific Fuel Consumption
SHEP	Small Hydro Electric Plants
SLDC	State Load Despatch Centre
SMD	Simultaneous Maximum Demand
SOC	System Operation Charges
SPO	Solar Power Obligation
The Petitioner/ Petitioner	GRIDCO
TPCODL	Tata Power Central Odisha Distribution Limited
TPNODL	Tata Power Northern Odisha Distribution Limited
TPSODL	Tata Power Southern Odisha Distribution Limited
TPWODL	Tata Power Western Odisha Distribution Limited
TSTPS	Talcher Super Thermal Power Station
UIHEP	Upper Indravati Hydro Electric Project
VGf	Viable Gap Funding
YoY	Year on Year

**BEFORE THE ODISHA ELECTRICITY REGULATORY COMMISSION
PLOT NO.4, CHUNUKOLI, SHAILASHREEVIHAR, CHANDRASEKHARPUR
BHUBANESWAR – 751021**

IN THE MATTER OF: Application for approval of Aggregate Revenue Requirement (ARR) and Determination of Bulk Supply Price (BSP) for FY: 2025-26 for GRIDCO Limited under Section 86 (1) (a) & (b) and all other applicable provisions of the Electricity Act, 2003 read with relevant provisions of OERC (Conduct of Business) Regulations, 2004, OERC (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations, 2022 and other related Rules and Regulations.

PETITIONER: GRIDCO Limited, Janapath Bhubaneswar-22, Odisha

The humble Petitioner GRIDCO Limited, **MOST RESPECTFULLY SHEWETH:**

GRIDCO Limited (hereinafter called as “GRIDCO”) is a Deemed Trading Licensee under 5th proviso to Section 14 of the Electricity Act, 2003 (hereinafter called as “the Act”). GRIDCO, a wholly State-owned Undertaking, is engaged in the business of purchase of electricity in bulk from various generators located inside & outside the State of Odisha and the State share of power from the Central Sector Generators for supply of power in bulk to the four Electricity Distribution Utilities in the State of Odisha and also performs trading of surplus power (if any) as per the directives of the Hon’ble Commission.

1. The Petitioner GRIDCO has been notified as the “State Designated Entity” by the Government of Odisha for execution of Power Purchase Agreements (PPAs) with various developers generating energy from various sources such as Hydro Power, Wind Power, Power from Agricultural Waste etc. along with Thermal Power vide Government of Odisha Notification No. PPD-II-2/05 (pt.) 7947, dated 17th August 2006. A true copy of the said Notification is filed herewith as Evidential Document **(ED-1)**. The petitioner GRIDCO has statutory obligations to make comprehensive planning & accordingly responsible for

procurement of power for ensuring energy security in the State and acts as the bulk supplier to supply power to DISCOMs for meeting the electricity demand in the State on Round The Clock (RTC) basis.

2. The Petitioner GRIDCO shall be required to meet the projected demand of **38,914 MU** during FY 2025-26 based on projections submitted by the four DISCOMs of the State and the requirement of two embedded CGPs for availing emergency supply of power. Considering the Intra-State transmission loss of 3% for FY 2025-26 as approved by the Hon'ble Commission for OPTCL for FY 2024-25, the gross energy requirement of GRIDCO for FY 2025-26 works out to be **40,117.06MU** to meet the State demand.
3. In order to fulfil the statutory obligations, the Petitioner GRIDCO has executed various long term PPAs with various public and private sector generators to cater the energy demand of the State. The long term PPAs were signed with NTPC plants under State allocation and with the IPPs towards State share as per the State Thermal Policy'2008 for availing power to meet the State requirement. Apart from this, PPA with various RE Generators were signed by GRIDCO to include RE power in the power portfolio of the State.
4. With a view to ensuring energy security for the State, GRIDCO makes long-term power procurement planning to meet the long term demand by relying on the EPS published by CEA, projections submitted by DISCOMs and DISCOMs drawl pattern for the past period. GRIDCO signed several PPAs with different generators to meet the anticipated energy demand of the State from time to time. As per the subsisting contractual obligations,
 - a. GRIDCO has to pay Capacity Charges for all the tied-up generating stations based on their availability. Further, in accordance with the Central Electricity Regulatory Commission (CERC) (Indian Electricity Grid Code) Regulations, 2023, the technical minimum for operation in respect of a Central Generating Station or Inter-State Generating Station shall be 55% of MCR loading or installed capacity of the unit of the generating station. In case the scheduled generation is below the normative level, compensation charges against the same have to be paid by GRIDCO and other beneficiaries on the basis of allocation. The Hon'ble Commission is requested to allow such compensation, if any, would accrue and to be paid to the generating companies as per actual drawl of energy during the FY: 2025-26.

- b. Apart from the Capacity Charges and Energy Charges, Year-end charges including reimbursement of other related permissible expenses including taxes, levies, duties, ash transportation charges etc. need to be paid to the generators as per the applicable Tariff Regulations.
5. The total energy availability projection towards State share during FY 2025-26 is **43,949.49 MU**, considering projections for procurement from generators based on various factors including reservoir level and water availability of hydro power stations, PLF% , CUF%, Auxiliary consumption, R&M schedule of power plants, normative availability etc. of the stations wherein GRIDCO has tied-up long term contracted capacity through PPAs. However, energy availability may vary from the projections during real time operations due to contingencies including outage of power plants, poor monsoon/ hydrology failure, breakdown of large size thermal plants, shortage in Linkage Coal supply, strikes in power plants, etc. In such situations, the petitioner, GRIDCO is compelled to arrange power through banking arrangement and from costlier sources, power market, etc. to meet the State demand. Therefore, it is humbly prayed before the Hon'ble Commission to consider the additional costs as well as to accord approval in respect of the change in energy mix due to such unavoidable situations as mentioned above.

The petitioner GRIDCO has **8,857 MW** of contracted capacity as on 30.09.2024 from various generating sources as follows:

Table-1: Existing Energy Capacity of State as on 30th Sept'2024

Sl. No.	Description	Existing Capacity (MW)
1	State Thermal	1,740
2	IPPs	1,182
3	Central Thermal	2,071
4	Total Fossil	4,993
5	State Hydro	2,095
6	Central Hydro	277
7	Solar Power	1,041
8	SHEP & Biomass	129
9	Wind Power	322
10	Total Non-Fossil	3,864
11	Total	8,857
12	Fossil : Non-Fossil (%)	56% : 44%

6. The Petitioner GRIDCO submits that against the State's requirement of **40,117.06 MU**, there would be projected/ estimated availability of **43,949.49 MU** resulting in annual surplus of **3,832.43 MU** of power. However, the above estimated surplus may reduce due to outage of large size plants on real time basis. Further, a major portion of this surplus energy shall be on account of the additional quantum of solar energy expected to be available during the ensuing financial year, which may not fetch fair price in the market during solar hours. The Petitioner plans to sell the surplus energy (if any) as per Merit Order Despatch (MOD) principle through various routes to optimize the overall power procurement cost and meet the repayment obligations. It is submitted that while on annual basis, there may be surplus power on energy account, but on analyzing the monthly availability while meeting the peak demand, it is anticipated that there may be deficit for 4 months from April to July'25. During such deficit scenarios, GRIDCO may have to procure/ arrange power through banking or from the market in order to meet the State requirement. Invariably, such deficit mainly occurs during peak period due to higher demand and thus, the Petitioner is adversely impacted for the additional costs incurred. The annual surplus quantum of power as would be available with GRIDCO is mainly due to lower demand during off-peak period and influx of solar power available with GRIDCO and hardly helps in catering to the peak deficit.

7. The total power purchase cost for FY **2025-26** has been projected to be **Rs.14,916.83 Cr.** with the following break-up as mentioned below :

• Fixed Charge	: Rs. 5,300.32 Cr.
• Energy Charge	: Rs. 8,363.11 Cr.
• Transmission, SLDC, ERLDC Charges	: Rs. 866.51 Cr.
• Year End Charges	: Rs. 386.89 Cr.
TOTAL	Rs.14,916.83 Cr.

The Petitioner GRIDCO has considered the uncontrollable costs to be included in the ARR including Interest cost, Employee cost, Repair & Maintenance cost, Administrative & General Expenses, which have been projected considering the trends as per actuals incurred for the period up to September'2024 with projection towards the requirement of expenses for the ensuing FY 2025-26. Further, Return on Equity is considered as per the prescribed norms.

8. Hon'ble Commission may consider that, the Petitioner GRIDCO has faced cash deficits over the years due to non-cost reflective tariff in Bulk Supply Price (BSP), revenue gap allowed in the ARR, disallowance of carrying cost on Regulatory Assets, outstanding BSP dues & other receivables from the erstwhile DISCOMs, etc. The Petitioner has met these cash deficits over the years through working capital loans and also long-term borrowings. The Petitioner has total outstanding loans with principal obligations of **Rs.5,969.89 Cr.** as on 30th Sept, 2024. The repayment liability for FY: 2025-26 is **Rs.1,001.78 Cr.** towards loans taken from Commercial Banks & securitized dues of OHPC.

By the Petitioner Through

Place: Bhubaneswar

Date: 30.11.2024

(Bijay Kumar Das)

CGM (PP) I/c, GRIDCO Ltd.

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I Background

1. Odisha was the pioneer State to adopt the reforms in the power sector during 1994. The Orissa Electricity Reform Act, 1995 led to unbundling of the erstwhile Orissa State Electricity Board (“OSEB”) into Odisha Hydro Power Corporation (“OHPC”), which was vested with the hydro generating assets of the State and the Grid Corporation of Orissa Limited (“GRIDCO”) which, was vested with the transmission and distribution functions of the erstwhile OSEB.
2. Subsequently, the distribution business of GRIDCO was segregated and vested into four distribution companies (viz., WESCO, NESCO, CESCO and SOUTHCO) on 25th November’1998, each incorporated as a separate legal entity under the Companies Act, 1956. Thereafter, these distribution companies were privatized. After separation of distribution business, GRIDCO was engaged with functions including transmission, bulk procurement and supply of electricity and trading activities.
3. In order to comply with the statutory requirement of the Electricity Act, 2003 for separation of trading and transmission functions with two separate entities, the State Government incorporated Odisha Power Transmission Corporation Limited (OPTCL) in June , 2005 to take over the transmission activity and SLDC functions from GRIDCO. The Petitioner GRIDCO is currently mandated with the business of bulk purchase of State share of power for onward bulk supply of electricity to the four Distribution companies (DISCOMs) and also undertakes trading of surplus power (if any) after meeting the state demand.
4. As per provision of the Orissa Electricity Reforms Act 1995, GRIDCO at present is vested with the following residual functions:
 - i. Procurement and Bulk supply of Power to DISCOMs;
 - ii. Undertakes long-term power planning in coordination with State DISCOMs to determine the energy requirement of the State;
 - iii. Procurement of power in an economical manner with a transparent power purchase procurement process;

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- iv. Establish a tariff or to calculate its charges from time to time in accordance with the requirements prescribed by the Commission;
 5. The Government of Odisha has notified GRIDCO as the “State Designated Entity” (SDE) for execution of Power Purchase Agreements (PPAs) with the various Developers engaged in generation of various generating energy sources like Hydro Power, Wind Power, and Power from Agricultural Waste etc. along with Thermal Power vide Government of Odisha Notification No. PPD-II-2/05 (pt.) 7947, dated 17th August 2006. A copy of the said Notification is attached herewith as Evidential Document (**ED-1**) for reference.
 6. GRIDCO is empowered to source the State’s share of power from the approved Power Developers / Generators in order to make reliable and quality power available on 24 X 7 basis to the Distribution Companies for onward retail sale to the consumers at the tariff approved by the Hon’ble Commission.
 7. GRIDCO’s existence as the “State Designated Entity” to procure power on behalf of the State of Odisha for bulk supply to the DISCOMs of the State for onward retail sale to the end consumers of the State, is consistent with the provisions under section 14 of the Electricity Act, 2003 (hereinafter referred to as “Act”).
 8. The aforementioned bulk supply function of GRIDCO in the State Power Sector has been duly acknowledged and endorsed by the Hon’ble Odisha Electricity Regulatory Commission (In short, “OERC” or the “Commission”).
 9. In fact, the Hon’ble Commission has recognized GRIDCO as a State-owned organization whose principal objective is to undertake bulk procurement of power from the State’s entitled sources (located inside & outside Odisha) and other sources as may be necessary and supply the same to the four DISCOMs for onward retail sale to meet the State’s power demand in the larger public interest.
 10. The Hon’ble Commission has extensively considered the various issues pertaining to the “Legal Status” of GRIDCO in the Aggregate Revenue Requirement (ARR) & Bulk Supply Price (BSP) Order dated 18th March 2011 for FY 2011-12 & 23rd March 2012 for FY 2012-13 respectively.

Hon'ble Commission held, the continuance of GRIDCO is in line with the applicable Law in force and is quite inevitable and essential in the overall interest of the consumers of Odisha and the State Power Sector in particular.

11. The Govt. of Odisha vide Notification dated 15.12.2022 has designated the Petitioner GRIDCO as the State Nodal Agency (SNA)/ Renewable Energy Nodal Agency (RENA) for the development of the renewable energy sector in the State in large scale. The aforesaid notification dated 15.12.2022 is enclosed as **ED-2**.
12. The petitioner GRIDCO, being assigned with the additional responsibility of promoting and ensuring the development of RE sector in the State, shoulders the onus for complying to the State RE Policy, 2022 under supervision of Govt. of Odisha.
13. The Petitioner GRIDCO is taking all-out efforts and endeavours to invite the investors with credibility & intent and invites expression of interests for establishing new projects for the development of RE Projects in the State. The State Renewable Policy, 2022 is quite developer friendly and remunerative with foresightedness for the genuine investors to locate and develop the RE projects in the State.
14. The Hon'ble Commission have notified necessary stipulations in the OERC (Distribution and Retail Supply Tariff) Regulation, 2022 of the bulk power procurement functions by GRIDCO through the DISCOMs to meet the state demand.

II Legal framework

15. GRIDCO has statutory obligation to procure power and act as the bulk supplier to supply power to DISCOMs and meet electricity demand of the State. The Petitioner being the Designated Entity for procurement of State's share of power from various sources from inside and outside of the State at the regulated price approved by Hon'ble CERC/ SERC. The petitioner is obligated to file the Aggregate Revenue Requirement Application before the Hon'ble Commission for the every financial year considering the State's energy entitlement along with corresponding approved cost from the various approved sources.

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16. The petitioner adheres to the MOD principles and endeavours to function within the Cost approved in the ARR by the Hon'ble Commission every year. It functions with close monitoring and coordination with SLDC by scheduling power from the approved Generators /sources , based on the demand schedule of the DISCOMs on 24X7 basis. Further, after completion of the financial year, the petitioner files the Truing up Application before the Hon'ble Commission towards finalisation of tariff on the basis of actual expenses as per audited accounts.
 17. Under the existing Single Buyer Model and the Bulk Supply Agreements between the DISCOMs and the GRIDCO, the DISCOMs are obligated to purchase power from GRIDCO at the regulated price to be determined and approved by the Hon'ble Commission.
 18. The Hon'ble Commission is empowered to determine the power purchase quantum and cost for the DISCOMs under Section 86 (1) (a) and (b) of the Electricity Act, 2003. The Bulk Supply Price is the procurement price of DISCOMs at which GRIDCO supplies power in bulk to the DISCOMs.
 19. Sub Section 5 (k) of Section 15 of the Orissa Electricity Reform Act, 1995 prescribes GRIDCO to file tariff/ Annual/Aggregate Revenue Requirement (ARR) petition in accordance with the statutory requirements for due approval by the Hon'ble Commission.
 20. As per OERC (Conduct of Business) Regulations, 2004, GRIDCO is required to submit its Aggregate Revenue Requirement (ARR)/ Tariff Petition before the Hon'ble Commission on or before 30th November of each year for determination of tariff for the ensuing year.
 21. Therefore, it is a statutory duty/responsibility of the Petitioner GRIDCO to submit its Aggregate Revenue Requirement (ARR)/ Tariff Petition/Application before the Hon'ble Commission for determination and approval of the procurement price of the DISCOMs.

III Business relationship with Distribution Companies

22. It is pertinent to mention that Hon'ble Commission had revoked the Retail Supply Licenses U/s 19 of the Act of the Reliance Infrastructure Ltd (RIL) managed 3 (three) Distribution Companies (WESCO, NESCO & SOUTHCO) vide Order Dated 04.03.2015 in Case No. 55 of 2013, which was also upheld by the Hon'ble APTEL and Supreme Court of India. The management and control of these distribution companies along with all the assets, interests, liabilities and rights were vested with the Chairman, GRIDCO in the capacity as the Administrator of these three distribution companies as per the directives issued by the Hon'ble Commission from time to time.
23. The utilities of CESU, WESCO, SOUTHCO and NESCO were privatised with effect from 01.06.2020, 01.01.2021, 01.01.2021 and 01.04.2021 respectively being vested with Tata Power DISCOMs, with clean opening Balance Sheet to the successor entity by Hon'ble Commission.
24. It is submitted that as per Para 25.2 of the Odisha RE Policy, 2022 vide Notification No.12284 dated 15.12.2022 of Department of Energy, Government of Odisha, the petitioner GRIDCO has also been designated as the Nodal Agency for implementation of the provisions of the RE Policy and facilitation of RE projects in the State. The policy envisions an ambitious RE capacity addition of ~10,000 MW in the State by 2030. The policy mainly focuses on enabling "Just Transition" in the State and developing a pipeline of RE projects so that the energy needs of the State can be met from non- fossil sources within the State in a sustainable manner.
25. It is submitted that in order to implement the State RE Policy 2022 and accelerate the renewable energy in the State, the Petitioner, as the State Nodal Agency, promotes and facilitates the developers to institute projects in the State to meet the RPO of the State and moreover to facilitate the industries to procure RE/ Green Power towards meeting their statutory obligations.

IV. Outstanding dues of erstwhile DISCOMs/Utilities:

26. The Petitioner submits that with sale of the utilities under Section 20 of the Electricity Act 2003, consequent to revocation of licenses of the erstwhile DISCOMs, the successor

entities are assigned with clean balance sheet. GRIDCO has significant past dues to be recovered for the pre vesting period. Thus, there is a negative impact of this huge outstanding on the financial health of the Petitioner.

27. The outstanding from the four erstwhile distribution companies in the books of GRIDCO is **Rs.6,587.51 Cr.** as on 30.09.2024.

Table: 2 Dues Receivable from DISCOM Utilities as on 30.09.2024

DUES RECEIVABLE FROM DISCOM UTILITIES AS ON 30TH SEPTEMBER, 2024 (INCL.DPS)						
(Rs in Crore)						
Sl. No.	Particulars (Rs Cr)	CESU	WESCO	SOUTHCO	NESCO	Total
1	BSP dues	1,174.34	647.61	787.30	560.57	3,169.82
2	Converted to Equity	-299.95	-299.95	-199.95	-249.95	-1,049.80
3	Net BSP Dues (1-2)	874.39	347.66	587.35	310.62	2,120.02
4	Securitize Dues (incl. DPS)	1,219.91	239.27	196.12	208.51	1,863.81
5	NTPC Power Bond	-		146.45	48.91	195.36
6	Tr. Scheme dues	118.85	12.10	29.91	6.74	167.60
7	Cash Support	174.00	-	-	-	174.00
8	Total as on Vesting Date (3 to 7)	2,387.15	599.03	959.83	574.78	4,520.79
9	Less paid/ settled post vesting:					
I	Balance BSP of FY 20-21	-225.16	-	-98.88	-	-324.04
Ii	Paid/adjusted till 30.09.2024	-289.86	-276.67	-180.35	-415.59	-1,162.47
Iii	Settled under OTS by DISCOMs	-21.60	-36.53	-20.26	-75.48	-153.87
Iv	Settled under OTS directly by GoO	-18.32	-25.38	-7.59	-10.63	-61.92
	Total Settled	-554.94	-338.58	-307.08	-501.70	-1,702.30
10	Total Receivable excl. DPS	1,832.21	260.45	652.75	73.08	2,818.49
11	DPS on BSP	819.49	1,417.23	647.31	884.99	3,769.02
12	Total receivable incl. DPS	2,651.70	1,677.68	1,300.06	958.07	6,587.51

** BSP dues after adjustment of equity and credit/debit bills.*

***The receivable excludes the receivable on account of CAPEX dues.*

It is submitted that the Petitioner GRIDCO has filed petition before the Hon'ble Commission, registered vide Case No. 56 of 2024 for framing of appropriate mechanism to accelerate the arrear collection process and settle the amount beyond the minimum target, prescribed by the Hon'ble Commission in the vesting Orders.

V. True-Up Order for Past Years:

28. The Hon'ble Commission has carried out the True-Up for the period from FY 2015-16 to FY 2019-20 vide order dated 22.10.2021 in Case No. 67/2018, 62/2020 and 27/2021 respectively and with subsequent truing up order dated 13.09.2022 in Case No.12/2022 for FY 2020-21. The Petitioner GRIDCO has preferred Appeals before Hon'ble APTEL registered as Appeal No. 79, 80, 81 of 2023 and 612 of 2023 respectively. It is respectfully submitted before the Hon'ble Commission that the financial impact/outcome of the Order of the Hon'ble Tribunal in above Appeals may be considered to be given effect appropriately in the ensuing Tariff year i.e., FY 2025-26, in case the Hon'ble APTEL disposes off the matter prior to disposal of the instant tariff application.

VI. Capacity Planning and Fixed Charges

29. As per Orissa Electricity Reforms Act 1995, GRIDCO is required to plan energy requirement for the State to meet the energy demand. GRIDCO had planned energy requirement of the state based on demand projections from time to time.
30. CEA, has published the 20th EPS Report during November-2022 in respect of the energy projections and Peak demand for all States. The DISCOMs wise projections considered for the State of Odisha, envisaged therein are extracted below:

Table 3: DISCOMs Wise Energy Demand from FY 2021-22 to 2031-32 (20th EPS (MU))

Extract of 20 th Electric Power Survey of India											
Table 2.14 (contd.) – Discom Wise Electrical Energy Requirement (in MU) (Pg. 47)											
State/ Discom	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32
TPCODL	9126	9788	10320	10955	11637	12354	13107	13886	14795	15454	16027
TPNODL	7470	7996	8418	8959	9550	10172	10830	11510	12360	12784	13166
TPSODL	4052	4191	4354	4555	4773	4999	5236	5480	5778	5940	6055
TPWODL	10274	11331	11949	12788	13734	14761	15881	17075	18617	19376	20086
State DISCOMs	30922	33306	35041	37257	39694	42286	45054	47951	51550	53554	55334
State Demand incl. Open Access	38344	43060	43582	44985	46689	48627	50810	53180	56316	57891	59286

Extract of 20th Electric Power Survey of India											
Table 2.15 (contd.) – Discom Wise Peak Electrical Demand (in MW) (Pg. 50)											
State/ Discom	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32
TPCODL	1664	1789	1887	2005	2131	2263	2403	2547	2715	2838	2945
TPNODL	1082	1157	1219	1298	1384	1475	1571	1670	1794	1857	1913
TPSODL	698	725	754	789	828	868	910	952	1005	1034	1055
TPWODL	1806	1999	2110	2260	2429	2613	2813	3027	3304	3441	3570
State DISCOMs	5250	5670	5970	6352	6772	7219	7697	8196	8818	9170	9483
State Demand incl. Open Access	5645	6490	6635	6918	7252	7630	8053	8514	9107	9456	9782

31. Section 13 of Orissa Electricity Reforms Act 1995, requires GRIDCO to plan and coordinate energy requirement for the State in coordination with Generating companies, State Government by following the guidelines issued by CEA, etc. It is the responsibility of the sole State Designated Entity, GRIDCO to meet the power purchase requirement of the State.
32. Considering the functioning of four distribution companies in the State and the implementation of the uniform retail supply tariff in the State, GRIDCO has been discharging a significant role in the State power sector for ensuring overall planning and energy security for the State by supplying power to the State DISCOMs. Hence, the financial stability and sustainability of GRIDCO need to be ensured by the Hon'ble Commission for ensuring uninterrupted power supply in the State.
33. Hon'ble Commission vide order dated 14.09.2023 in Case no. 43, 44, 45 and 46 of 2023, while approving the Business Plan of DISCOMs for the period up to FY: 2027-28, have observed as follows:

“30. Sales/Demand Forecast

(f) The Commission in view of the submissions made by the DISCOMs observes that DISCOMs have projected their sales growth during the control period based on the present trend of rising consumers strength and sales growth under various categories of consumer. On the basis of the 5-year CAGR most of the DISCOMs have projected an overall growth ranging from 5% to 6% during the control period. All four DISCOMs have followed different methodology for assessing future sales projection. We approve in principle the sales projected by the DISCOMs as follows:

Energy Sales approved by the Commission for FY 2025-28 (MU)

DISCOMs	OERC Approved in ARR Order for	Approved for FY 2025-28			
	<i>FY 2023-24</i>	<i>FY 2024-25</i>	<i>FY 2025-26</i>	<i>FY 2026-27</i>	<i>FY 2027-28</i>
<i>TPCODL</i>	<i>8,868.41</i>	<i>9,147.00</i>	<i>9,644.00</i>	<i>10,171.00</i>	<i>10,728.00</i>
<i>TPWODL</i>	<i>10,883.72</i>	<i>9,398.58</i>	<i>9,962.50</i>	<i>10,460.62</i>	<i>10,983.65</i>
<i>TPNODL</i>	<i>6,287.99</i>	<i>6,731.12</i>	<i>7,300.76</i>	<i>7,822.85</i>	<i>8,153.47</i>
<i>TPSODL</i>	<i>3,690.14</i>	<i>3,947.00</i>	<i>4,222.00</i>	<i>4,518.00</i>	<i>4,837.00</i>
Total	29,730.26	29,223.70	31,129.26	32,972.47	34,702.12

However, there may be some variation in a particular year due to change in load mix. The Commission during the tariff exercise of relevant year will scrutinize the projection for the next year and shall approve the same in the respective years tariff order. GRIDCO being the shareholder in the DISCOMs may be consulted by DISCOMs before filing the sales projection with the Commission during the annual tariff proceeding”.

34. In order to meet the growing demand of power in the State in view of accelerating economic development and expected huge industrial investments through restructured policies, urbanisation of small towns over the period, the capacity planning has to be done well ahead of time for timely addition of capacities. Further, the capacity planning is being done considering the growing State’s demand for electricity as well as meeting the RPO requirement, resource adequacy requirement, while optimising the cost of energy procured in the overall energy portfolio of the State.
35. It is submitted that, the petitioner GRIDCO has executed PPAs with various RE Developers, Agencies for procuring power inside the State from various sources including SHEP, solar and wind power through PSAs/ PPAs signed with SECI/ NTPC under various schemes of MNRE, Govt. of India. Such procurement/ sourcing of power facilitates for complying Renewable Power Purchase Obligations (RPO) for the State in the long-run.

VII. Forced Outage Situations:

36. The Petitioner GRIDCO has tied up with different power generating stations comprising varied sources, including thermal, hydro, solar and wind, etc. to cater the demand of the State consumers. It is pertinent to mention here that, GRIDCO’s supply portfolio comprises of large size thermal power plants like OPGC U#3 & U#4 (660 MW each),

NTPC Darlipali U#1 & U#2 (800 MW each), Vedanta IPP U#2 (600 MW), etc. Sometimes, major imbalance is witnessed between the power supply from these stations and demand due to forced outages of thermal generating plants especially the large capacity plants, unprecedented rise in demand, variability of RE/ hydro sources, etc. In such scarcity situations, power is sourced from the open market, mainly power exchanges, usually during the peak hours. At times, under such circumstances, there may be over-drawls of power from the Central Grids at very steep prices, unintentionally affecting the grid stability, consequently receiving strictures from the ERLDC. Therefore, it is quite imperative to frame necessary Demand Side Management with suitable regulatory measures to manage the aforesaid power deficit situations. Such measures will not only ensure grid stability but also help to reduce burden on the GRIDCO.

VIII. Contingency Planning:

37. It is humbly submitted that GRIDCO has contracted sufficient capacity to avail power from different generating stations to meet the demand growth of the State. Nevertheless, it may kindly be appreciated that, the power availability position is highly dynamic in nature and is influenced by multiple reasons like, availability of Generating unit, hydro reservoir levels, climatic conditions, hours of the day, etc. It is a well-known fact, during the summer months, the State demand is higher than the annual average demand. Hence, it has always been endeavoured by GRIDCO to arrange adequate power to meet the summer demand. Even though, adequate capacity has been tied-up, during contingency situations like, outage of generating stations, restriction on state hydro power generation, unprecedented surge in power demand, etc., there have been instances when the power availability from tied up capacities fails to meet the State demand, mainly the peak hours demand. It is also observed at multiple instances that during the peak hours energy rates in the collective markets of Power Exchanges is remaining around Rs.10/ kWh (current capped rate as approved by Hon'ble CERC for Power Exchange platforms excluding HP-DAM & HP-TAM), which indicates that adequate power is also not available across the country to meet the demand during these hours. Notwithstanding the aforesaid, GRIDCO as always shall strive to meet the demand supply gap by exploring various avenues like power banking arrangement, short term power purchase, etc. Therefore, it

is humbly submitted before the Hon'ble Commission to kindly consider to allow any additional costs that may be borne by GRIDCO to meet the State demand.

IX . Other Issues:

38. It is humbly submitted before the Hon'ble Commission that, regarding cost of power to be incurred by the petitioner GRIDCO during FY 2025-26, there are anticipated pertinent issues which ought to be considered while allowing the ARR of GRIDCO as elaborated in following sections:

a) Usage of Contract Demand by the Industries:

39. An unforeseen trend has been observed where some industries are utilizing their Contract Demand (CD) to draw power from the DISCOMs only during peak hours when market rates are exceptionally high. There have been numerous instances where power is unavailable on the power exchanges even at the capped price of ₹10 per kWh. During off-peak periods or solar hours, these industries do not utilize their contract demand but instead purchase power from the power market through open access when rates are lower than the energy tariff of their contract demand.

40. This unhealthy practice often results in increased off-peak surplus, which may lead to surrender of power from GRIDCO's contracted stations and consequential financial impact on GRIDCO. Therefore, it is proposed to consider introducing regulations that mandate the utilization of an acceptable percentage of the contract demand by such industries during off-peak hours if they have drawn power during peak hours or introduce separate tariffs for peak and off-peak periods. Such a measure will be beneficial for the DISCOMs and consequently for GRIDCO as well by preventing unjustified selective utilization of contract demand by these industries.

b) Sale of Power through Specialised Tariff Scheme for industries having CD less than 20 MVA

41. Hon'ble OERC has approved Special Scheme in the RST Order for FY 2024-25 stipulated as follows;

“229. Any industry having CGP with CD up to 20 MW willing to avail power from DISCOMs upto double the CD shall be allowed to draw power without payment of overdrawal penalty. For this purpose, the industry has to operate at minimum CD of 80% for the entire month. The applicable charges for incremental energy drawl (kVAh) beyond CD shall be Rs.5.00 per kVAh. Industries availing this benefit shall not be permitted to avail benefit under other scheme. However, the DISCOMs shall not exceed their approved SMD during that period. The DISCOM must ensure that for such overdrawal, the distribution system is not overloaded and no load shedding is imposed during that period.”

42. It is humbly submitted that the State usually experiences high demand during the summer season months, i.e. from April to July. Further, in FY 2025-26, it is anticipated that sufficient contingency reserve may not be available from the contracted generators during the summer months to meet the exigency situations and power may have to be arranged on short-term basis through power banking, purchase through power exchanges, etc. to manage such exigency situations. In view of the above, the Hon’ble Commission may kindly consider for approval of the existing scheme with suitable modifications for implementation of the special scheme only during the period from August to March instead of the entire financial year.

c) Time of the Day Tariff (ToD):

43. ToD Tariff is recognized globally across electricity industries, as an important Demand Side Management (DSM) measure, which is used as a tool for incentivizing consumers to shift a portion of their loads from peak times to off-peak times with differential tariff, thereby improving the system load factor by reducing the demand on the system during peak period. Various statutory provisions already exist to enable and promote implementation of ToD tariff (i.e., Electricity Act, 2003, National Electricity Policy, 2005 and Tariff Policy, 2016) in the country.

- i. The Government of India has introduced the concept of Time of Day (ToD) Tariff in Amendment of Electricity Rules 2020. Under the ToD Tariff system, Tariff during solar hours (duration of eight hours in a day) of the day shall be 10%-20% less than the normal tariff, while the tariff during peak hours would be 10%-20% higher. ToD tariff would be applicable for Commercial and Industrial consumers having Maximum demand of 10 KW and above, from 1st April 2024 and for all other consumers except agricultural consumers, latest from 1st April 2025.

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- ii. The TOD tariff comprises separate tariffs for peak hours, off-peak/ Solar hours and normal hours. Since over the years, the solar power rate has been following a downward trend & has become cheaper than other conventional sources, the tariff during the solar hours will be less, whereas, during non-solar hours costlier thermal and hydro power capacity are used. Such cost variations are required to be reflected while framing the ToD Tariff. Accordingly, the consumers can plan and manage their electricity consumptions prudently in order to reduce their power costs. Also, it shall help the aggregator GRIDCO to meet the State consumer's demand effectively and make sale of balance surplus power in the power market to optimise its power purchase costs.
 - iii. Most of the State Electricity Regulatory Commissions (SERCs) of various States including National Capital Delhi, Andhra Pradesh Madhya Pradesh, Karnataka, Goa have already implemented ToD tariffs, for large Commercial and Industrial (C&I) category of consumers and also LT consumers (Goa, Karnataka, Maharastra) in the country. The ToD Tariff has been further classified based on consumer category, time, season, etc.
 - iv. Presently, the Hon'ble Commission has provided the following ToD Tariff in the Tariff orders of DISCOMs as summarised below:

Table 4 : Hon'ble Commission's approved ToD Tariff for FY 2024-25

Consumer Category	Time Interval	ToD Discount
Three phase consumers with static meters excluding Public Lighting, emergency supply to CGP, LT Domestic and LT General Purpose categories	2 PM to 6 PM & 12 AM to 6 AM	20 Paise/Unit

- v. It is pertinent to submit that, "Time of Day Tariff" concept is an inevitable recourse in the present power demand vis-à-vis availability scenario prevalent in the State and also for strategizing the future power requirement and demand side management. It enables all categories of consumers to be a smart and prudent

user of electricity at optimum tariff and consequently, helps in proper implementation of Demand Side Management by the DISCOMs. It is expected that over next couple of years, the trend of demand for power by the consumers at different hours of the day will help to further improvise the assessment of power planning to cater the State demand. Further, planning is required to maximise the sale of surplus power in power market which faces shortage of power leading to shooting up of price of power close to the capping rate fixed by CERC from time to time, leading to unavailability during peak season. Thus, Hon'ble Commission may kindly consider to bring in all categories of consumers except agricultural consumers under the ambit of ToD Tariff mechanism in line with the Amendment of Electricity Rules 2020 with prudent TOD policy.

- vi. In our country, static ToD tariff model approach is prevalent in various States. In this approach, differential tariff is pre-determined for different time blocks, which is independent of real-time market prices of electricity.

Proposed Suggestions:

- 44. ToD Tariff may be considered to be applied by segregating the 24 hours of the day into normal, peak and off-peak hours and incentivising/penalising the consumers across all categories uniformly excluding agricultural consumers, emergency supply to CGP categories. Hon'ble Commission may authorize SLDC to declare the hours pertaining to the aforesaid TOD periods on monthly/ seasonal basis from time to time on realistic power situation. Implementation of such TOD tariff may result in flattening the State load curve, thereby helping in managing demand - supply position during the peak hours and exhausting the off peak surplus. Therefore, the Petitioner GRIDCO proposes the following Time of Day Tariff for kind consideration of the Hon'ble Commission.

Table 5 : Proposal of GRIDCO for ToD Tariff for FY 2025-26

Time of the Day	Suggested Energy Charges
Normal Hours	Normal rate of Energy Charges
Peak Hours	120% of normal rate of energy charges
Off-Peak Hours	90% of normal rate of Energy charges

d) Energy Demand Management:

45. DISCOMs have projected the Simultaneous Maximum Demand (SMD) for the balance period of current FY 2024-25 and for the ensuing FY 2025-26. The month wise SMD of the DISCOMs for the FY 2024-25 are in consonance with the actual trend occurred during the summer period from April to June'2024 and from July to September'2024 as per the report of SLDC. However, the increased SMD as projected by the DISCOMs for FY 2025-26 seems to be at a higher side, which would require higher capacities to meet the demand as compared to the corresponding period of the previous year. It is submitted before the Hon'ble Commission that the Petitioner has long term tied up capacities with the Generators so as to avail power based on the availability of plant on MW basis.
46. The Petitioner avails power supply from State hydro stations, which mostly cater to the requirements in the peak hours subject to limiting the generation for irrigation. It is quite pertinent that in the recent couple of years, the solar power available at lower rates seems to be the cheapest across all sources of energy catering to the requirements, thereby creating surplus capacities during the off peak hours. As a consequence, there is lower RTC rate in the power exchange. Thus, the state remains surplus with the solar power during the daytime due to decrease in domestic demand as well the industrial demand.
47. The State RE Policy'2022 encourages procurement from RE sources which may lead to creation of surplus in the daytime/off peak hours as compared to the evening and night peak hours in the ensuing year.
48. It is submitted that during the off season months, the solar offtake price remains quite low as compared to the summer months because of lower demand and thus, the Petitioner shall have surplus capacity during the day time, which also poses constraint to sell the surplus power as the rate of RTC power during lean/low demand months remain low, even lower than the variable charges of the costly thermal stations, thereby preventing the Petitioner to sell the surplus power prudently. The said changing pattern of availability in the peak and off peak hours is due to seasonal variations mainly due to the impact of climate change. From trends witnessed during preceding years, it is observed that, there is abnormal increase in the demand during the peak hours of summer

months. However, to combat such situations, special tariff would be beneficial for the industries to source power from the State pool during the daytime to meet the requirements through suitable tariff mechanism.

49. It is pertinent to submit that, due to demand-supply mismatch during the summer months, DISCOMs' drawal varied significantly vis-à-vis the approved quantum as experienced during April to June 2023 and also April to June 2024 and summary of drawal pattern is shown in the following Table:

Table - 6 : Quarterly Drawal pattern of DISCOMs

(Figure in MU)

DISCOMs	Apr to June'2023		Apr to June'2024	
	Prorated approval	Actual	Prorated approval	Actual
TPWODL	3,321	2,931	2,985	3,014
TPCODL	2,814	3,202	3,128	3,635
TPNODL	1,877	1,908	2,041	2,142
TPSODL	1,230	1,170	1,231	1,286
TOTAL	9,242	9,211	9,385	10,078

50. It is inferred from the above table that, there is decrease in the energy drawal of 0.33% over the average approved drawal during the 1st qtr. of FY 2023-24. During the FY 2024-25 there is overall incremental growth of 7.37% as compared to approved quantum for the 1st Quarter of FY 2024-25 with highest growth recorded @16% in case of TPCODL. Such situation demands higher cost beyond the scope of recovery through BSP from aforesaid period of 1st quarter. Hon'ble Commission is kindly requested to consider the surge in demand in summer month as submitted in the above table.

51. Hon'ble Commission is requested to approve the month-wise drawal for each DISCOM and allow the petitioner to recover additional cost, in case the DISCOM's drawal exceeds over the approved quantum in the ARR for ensuing FY 2025-26.

X. Aggregate Revenue Requirement (ARR) of GRIDCO for FY 2025-26

(1) Energy Demand of DISCOMs:

52. It is submitted that, based on request of the petitioner GRIDCO to the four DISCOMs to submit month wise requirement of energy along with Simultaneous Maximum Demand

(SMD) for FY 2025-26 , the DISCOMs have submitted their monthly energy projection along with SMD (MVA) for the ensuing FY: 2025-26 (**ED-3**). The energy projection provided by the DISCOMs is summarized in the table below.

Table 7: Projection of Monthly Demand for FY 2025-26 (MU)

Month	TPCODL	TPNODL	TPSODL	TPWODL	Total
Apr-25	1285.00	738.39	457.44	1050.00	3530.82
May-25	1420.00	751.56	482.97	1065.00	3719.53
Jun-25	1400.00	749.86	453.37	1050.00	3653.23
Jul-25	1235.00	728.12	438.29	1010.00	3411.40
Aug-25	1209.00	705.52	442.99	1020.00	3377.50
Sep-25	1185.00	684.99	413.59	1010.00	3293.58
Oct-25	1195.00	687.35	439.98	935.00	3257.33
Nov-25	1000.00	652.04	376.08	885.00	2913.13
Dec-25	926.00	641.08	361.45	815.00	2743.53
Jan-26	968.00	655.21	377.57	875.00	2875.78
Feb-26	922.00	634.46	355.49	855.00	2766.94
Mar-26	1078.00	749.82	462.95	980.00	3270.77
Total	13823.00	8378.40	5062.15	11550.00	38813.55

53. It is submitted that the historical values of the sales to the DISCOMs during FY 2024-25 are compared with the projected sales to DISCOMs for FY:2025-26 based on the projections shared by each DISCOM. The DISCOMs have projected the sales for balance period of FY 2024-25 considering actual energy drawal made during the first 6 months period of the current FY 2024-25. The details are shown in the table below:

Table- 8: Historical Actual Sales to DISCOMs Vs. Projection for FY 2025-26

DISCOM	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2024-25			2025-26	Discom YOY
	(Actual)	(Actual)	(Actual)	(Actual)	Actual	(Approval)	Apr'24 to Sept'24	Oct'24 to March '25	Revised Projection	(Projection)	Growth (%)
TPCODL	8,160	8,370	8,814	9,899	11,306	12,513	6833	5,622	12454	13,823	10.99%
TPNODL	5,439	4,941	5,327	6,476	7,047	8,163	4087	3,729	7816	8,378	7.20%
TPSODL	3,504	3,616	3,942	4,204	4,347	4,924	2447	2,253	4700	5,062	7.70%
TPWODL	7,512	7,619	8,967	11,176	11,006	11940	5765	5323	11088	11,550	4.17%
TOTAL	24,615	24,546	27,050	31,754	33,707	37,540	19,131	16,927	36,058	38,814	7.64%

DISCOM	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2024-25			2025-26	Discom YOY
	(Actual)	(Actual)	(Actual)	(Actual)	Actual	(Approval)	Apr'24 to Sept'24	Oct'24 to March '25	Revised Projection	(Projection)	Growth (%)
IMFA	9	16	34	51	29	30	15		15	30	100.00%
NALCO	36	66	39	55	155	70	96.45		96	70	-27.42%
Total including Emergency Sale	24,660	24,628	27,123	31,860	33,890	37,640	19,243	16,927	36,170	38,914	7.59%
YoY Sales growth	-3.40%	-0.13%	10.13%	17.47%	6.37%	11.06%			6.73%	7.59%	

Note:- TPWODL has TPA sale of **611 MU** from Apr'24 to Oct'24. TPWODL has not projected any quantum towards TPA sale from Nov'24 to Mar'25 for FY 2024-25 and FY 2025-26.

54. It is submitted that from the above Table, it is evident that the energy demand of DISCOMs for the ensuing FY: 2025-26 is projected with growth of 7.64%. It is submitted that the demand projections made by TPWODL does not include any quantum towards TPA sales for FY 2025-26. Moreover, there has been increase in growth towards consumption in the ensuing FY 2025-26 for TPCODL, TPNODL, TPSODL and TPWODL over the revised projection for FY 2024-25 by 10.99 %, 7.20 %, 7.70% and 4.17% respectively.
55. It is submitted that the trend of energy sales to DISCOMs by the petitioner GRIDCO during the period from Apr-Sep' 2023 to Apr-Sep'2024 vis-a-vis is summarized below:

Table -9: Comparison of 6 months sales to DISCOMs (MU)

DISCOM	Apr-Sep 2023	Apr-Sep 2024	Growth
TPCODL	6,298	6,833	8.49%
TPNODL	3,844	4,087	6.31%
TPSODL	2,298	2,447	6.47%
TPWODL	5,839	5,765	-1.27%
DISCOM TOTAL	18,280	19,131	4.66%
IMFA	16	15	-0.08%
NALCO	112	96.45	-96.45%
Total including Emergency Sale	18,408	19,243	4.54%

It is submitted that from the actual energy sales for 1st half year of FY: 2024-25, it is observed that there is a trend of upward growth of 4.54% vis-a-vis corresponding period of FY: 2023-24. However, DISCOM's proposal for FY 2025-26 shows growth by 7.59% on YOY basis.

56. The Petitioner GRIDCO submits before the Hon'ble Commission to approve the projected energy requirement to the tune of **40,117.06** MU including transmission loss approved for the FY: 2024-25, based on demand projections by DISCOMs and the projected sale of Emergency and backup Power to NALCO & IMFA during FY 2025-26.
57. It is submitted that for a comprehensive energy planning during the ensuing FY: 2025-26, the Petitioner GRIDCO requested DISCOMs to furnish the projections for demand during Evening Peak, Off Peak, Morning Peak, Solar Hours along with avg. demand in MW of peak seasons and off peak seasons. The summary of projections furnished by DISCOMs for different time periods during the ensuing year comprising evening peak, morning peak, solar hours, off peak hours, are submitted herewith **(ED-4)** for kind consideration of Hon'ble commission for approval of TOD tariff for curbing the over demand situations during peak hours.

(2) Simultaneous Maximum Demand (SMD) of DISCOMs:

58. The DISCOM wise SMD projections for FY 2025-26 are submitted as follows:

Table-10: SMD Projections by DISCOMs for FY 2025-26 (MVA/month)

DISCOMs	OERC approval for 2024-25	Highest SMD recorded during FY 2024-25	DISCOMs Projection of SMD for
		(Apr.'24 to Sept'24)	FY 2025-26
	MVA	MVA	MVA
TPCODL	2349.00	2451.93	2795.00
TPNODL	1478.00	1397.56	1546.00
TPWODL	1893.00	1780.34	1855.00
TPSODL	833.00	791.31	870.00

It is evident from the Table above that, the projected SMD seems to be higher as compared to the actual SMD occurred in the summer months of the current FY 2024-25. Moreover, the % of increase in the SMD is much higher to the energy requirement of the State DISCOMs for FY: 2025-26. It is found that there is increase in SMD with growth rate of **22%**, which appears to be unrealistic. The petitioner GRIDCO submits for prudent determination of SMD in respect of each DISCOM for FY 2025-26 on realistic basis, so as to optimize the cost.

59. It is respectfully submitted before the Hon'ble Commission that, for meeting the maximum demand in the State at any point of time during the ensuing financial year, it is necessary to have adequate contractual capacity that would be available at the respective point of time i.e., each time block period, for ensuring energy security for the State. During the course of the year, there are occasions when some of the plants are shutdown to carry out maintenance. Further, the availability of solar/non-solar energy may not coincide with the time of maximum demand at various time intervals. In such occasions, the Petitioner GRIDCO is required to schedule power from all the approved thermal stations, having long term tied up capacities. Thermal Stations operating in the States at times are out of operation due to technical problems resulting non-supply of the contracted quantum of power. Such instances have taken place in the past which continues for substantial number of days even in some cases for a fortnight or for months. These unavoidable situations create challenges for arranging power mainly during the peak hours. Thus, the thermal power stations having subsisting contracts with GRIDCO are quite essential to meet the maximum demand of the State at all times of the year without resorting to load shedding/ power regulation. The Petitioner humbly prays before the Hon'ble Commission to give due and appropriate consideration to this aspect while determining the Power Purchase Cost. It is submitted that, beyond the quantum approved by the Hon'ble Commission, it has become an inevitable exercise to schedule power as per the merit order to meet the State demand while conducting power management during real time operation. As such during pan India power crisis/ acute shortage of power, situation becomes so alarming and precarious that there is dearth of power in the power exchange even at the capped rate. Therefore, it is humbly prayed before the Hon'ble Commission to consider for allowing recovery of full capacity

charges of all tied up thermal stations to ensure reliable and uninterrupted power to the state consumers.

60. The energy forecast for the State carries higher importance for the energy planning for meeting the Maximum Demand, as the primary objective of energy planning contributes significantly, the data for the preceding four and half years along with the projection for the ensuing year are analysed herewith for kind consideration of the Hon'ble Commission.

Table -11 : SMD Approval, Actual & Projection

DISCOMs	SMD Approval, Actual & Projection							
	FY 2020-21(Actual)	FY 2021-22 (Actual)	FY 2022-23 (Actual)	FY2023-24 (Actual)	FY 2024-25 (Approval)	FY 2024-25 (Actual)	FY 2024-25 (Oct'24 to Mar'25)	FY 2025-26 (Projected)
						(Apr'24 to Sept'24)	(Projected)	
TPCODL	1,532	1697 (11%)	1895 (12%)	2,244 (18%)	2,853 (27%)	2,482 (11%)	2,323	2,795 (13%)
TPNODL	909	991 (9%)	1155 (17%)	1,267 (10%)	1,394 (10%)	1,405 (11%)	1,374	1,546 (10%)
TPSODL	610	663 (9%)	722 (9%)	711 (-2%)	863 (21%)	791 (11%)	702	870 (10%)
TPWODL	1,423	1528 (7%)	1796 (18%)	1,702 (-5%)	1,900 (12%)	1,780 (5%)	1,701	1,855 (4%)
Total DISCOMs	4,474	4,879 (9%)	5,568 (14%)	5,924 (6%)	7,010 (18%)	5,783 (-2%)	6,100	7,066 (22%)

61. It is humbly prayed before Hon'ble Commission to approve the SMD on monthly basis considering the actual load pattern of the DISCOMs for the balance period of FY: 2024-25 and FY: 2025-26 so that State's share of power are optimally utilised within the permissible costs as being approved in the ARR. Moreover, the approval of month wise SMD shall help to avoid procurement of high cost power in the event of spurt in demand by any DISCOM on real time basis. It is to mention here that any kind of surge in demand

would attract additional costs through Deviation Settlement Mechanism (DSM) and may invite strictures from the statutory bodies if it affects the grid stability.

62. The Petitioner humbly prays before the Hon'ble Commission to kindly consider that the quantum of surplus power is estimated to reduce significantly in FY 2025-26. While on annual basis, there may be surplus power on energy account, but on analysing the monthly availability while meeting the peak demand, it is anticipated that there may be deficit during summer months. During such period of deficit, GRIDCO may have to procure/arrange power through banking or from the market in order to meet the State requirement. Invariably, such deficit occurs during peak period when the exchange price is quite high and thus, the Petitioner may be adversely impacted due to the additional costs incurred (if any).

Table -12: Peak Demand of DISCOMs (MW)

Summary of projections furnished by DISCOMs for different time periods during the ensuing FY: 2025-26													
PEAK DEMAND (MW)							PEAK DEMAND (MW)						
	FY 2024-25	TPCOD L	TPNO DL	TPW ODL	TPS ODL	DISCOMS		FY 2025-26	TPC ODL	TPNOD L	TPWO DL	TPS ODL	DISCOMS
SUMMER	APRIL	2153	1302	1721	736	5912	SUMMER	APRIL	2454	1432	1770	802	6458
	MAY	2170	1313	1670	760	5913		MAY	2474	1444	1770	844	6532
	JUNE	2234	1237	1554	713	5738		JUNE	2516	1385	1750	731	6382
	JULY	1964	1125	1586	706	5381		JULY	2239	1260	1750	739	5988
	AUG	1626	1133	1722	664	5145		AUG	1854	1269	1740	671	5534
	SEP	1889	1173	1687	657	5406		SEP	2154	1314	1710	669	5846
	OCT	2062	1108	1750	654	5574		OCT	2350	1241	1710	658	5960
	Max.	2234	1313	1750	760	5913		Max.	2516	1444	1770	844	6532
	Min.	1626	1108	1554	654	5145		Min.	1854	1241	1710	658	5534
	Average	2014	1199	1670	699	5581		Average	2292	1335	1743	731	6100
WINTER	NOV	1651	1070	1620	628	4969	WINTER	NOV	1883	1177	1650	660	5370
	DEC	1651	902	1550	638	4741		DEC	1882	1010	1600	671	5163
	JAN	1526	1016	1520	659	4721		JAN	1740	1118	1580	692	5130
	FEB	1560	1011	1630	665	4866		FEB	1779	1112	1650	698	5239
	MAR	2091	1240	1680	692	5703		MAR	2384	1364	1750	727	6225
	Max.	2091	1240	1680	692	5703		Max.	2384	1364	1750	727	6225
	Min.	1526	902	1520	628	4721		Min.	1740	1010	1580	660	5130
	Average	1696	1048	1600	657	5000		Average	1934	1156	1646	690	5425
OVERALL	MAX.	2234	1313	1750	760	5913	OVERALL	MAX.	2516	1444	1770	844	6532
	AVG.	1881	1136	1641	681	5339		AVG.	2142	1261	1703	714	5819
	20th EPS	2005	1298	2260	789	6352		20th EPS	2131	1384	2429	828	6772

63. Hon'ble Commission may also kindly consider the fact that due to higher drawl by the DISCOMs during the peak seasons, the Petitioner has to incur higher costs with higher tariff due to over drawl penalty under Deviation Settlement Mechanism (DSM), at price prevailing at the time of such over drawl. In such situations, GRIDCO is obligated to pay at a higher rate and suffers huge deficit due to additional costs as such costs are unforeseen and therefore could not adequately get compensated through the approved BSP. It is submitted that, the Petitioner takes necessary steps in coordination with SLDC to restrict any kind of over-drawal from the grid, so as to avoid any kind of strictures from ERLDC / ERPC but at times such over-drawl happens beyond the control of the petitioner unintentionally due to the continuous demand surge. Hon'ble Commission is therefore requested to approve the monthly SMD of DISCOMs on prudent basis considering the State's availability of power which would facilitate for avoiding high cost power as well as with approved mechanism towards cost differentials and deviation in drawal affecting grid stability by a suitable tariff mechanism in BSP for such deviation.

64. In view of the above, the Petitioner prays before the Hon'ble Commission to kindly approve SMD on monthly basis considering the actual SMD of the DISCOMs as per SLDC data for the FY 2025 and the additional increase proportionate to the increase in energy demand on monthly basis during FY 2025-26. This shall enable the Petitioner GRIDCO for optimizing the generation plan in advance. The Petitioner also requests the Hon'ble Commission to allow for recovery of charges on account of any excess drawl of energy by a Distribution Supply Licensee (DISCOM) during a month over and above the monthly approved energy quantum and the SMD at actual power purchase cost incurred for such excess drawl (including transmission, deviation charges, transmission losses etc.) or at approved BSP rate applicable for respective DISCOMs, whichever is higher on a monthly basis as the drawl pattern in the peak hours exceeds the state's availability commensurate with higher rate in the market/ UI Pool.

(3) STU/OPTCL Transmission Losses (%):

65. Hon'ble Commission approved the transmission loss of STU/ OPTCL @ 3.00% for FY 2024-25. The same figure of 3% is provisionally considered to project Intra State

transmission loss for FY: 2025-26. The Petitioner submits before the Hon'ble Commission to consider the losses as per the figure to be approved based on ARR order in respect of OPTCL for the FY 2025-26.

(4) Quantum of Energy Requirement for State Consumption:

66. It is submitted that ,the Petitioner GRIDCO submits the energy requirement based on the projected demand by DISCOMs and estimated/provisional transmission loss as follows:

Table 13: Summary of Energy Requirement by GRIDCO for FY 2025-26 (MU)

Sl. No.	Particulars	Projection for FY 2025-26 (MU)
1	Energy Demand of DISCOMs to meet state demand	38,813.55
2	Energy Demand towards emergency sales to NALCO & IMFA	100.00
3	Transmission Loss @ 3% as approved for FY 2024-25	1,203.51
4	Energy requirements for FY:2025-26	40,117.06

67. The Petitioner GRIDCO submits that the power procurement planning is carried out by considering the demand estimates provided by the DISCOMs and the BSP is accordingly computed considering the estimated demand of DISCOMs with corresponding estimated procurement cost from various approved sources for the entire financial year. Accordingly, the Petitioner respectfully submits before the Hon'ble Commission that DISCOM's drawal projections are required to be maintained on monthly basis failing which the petitioner shall incur additional costs in the event of excess drawal by any of the DISCOMs beyond the monthly-approved quantum. It is submitted that, in absence of Intra-State DSM., Hon'ble Commission may kindly consider to approve a suitable mechanism to recover the additional cost on account of over-drawal by DISCOMs (if any) during the ensuing FY 2025-26.

(5) Estimated Availability and Cost of Power from different Generating Stations

5.1 State Hydro Stations:

68. Odisha Hydro Power Corporation (OHPC), a wholly owned Undertaking of the Government of Odisha, owns & operates six Hydro Power Stations namely, Hirakud, Chiplima, Rengali, Upper Kolab, Balimela and Upper Indravati Hydro Electric Project (UIHEP). These Hydro Power Stations are Multi-Purpose Projects intended to fulfil manifold objectives such as; (i) Drinking Water, (ii) Irrigation, (iii) Flood Control and (iv) Power Generation. As per the Government of Odisha Letter No.1430 dated 19.02.2010 **(ED-5)**, Power Generation ranks 4th (fourth) in order of priority after fulfilling the requirement of water for the purposes of Drinking, Irrigation and Flood Control. Therefore, generation of hydropower is not directly related to the grid demand but is dependent upon other factors like requirement of water for Drinking, Irrigation and Flood Control on priority basis.
69. It is submitted that, in addition to the above six nos. of Hydro Electric Power Stations of the State, Machhkund Hydro Electric Project is a Joint Scheme of the Government of Andhra Pradesh and the Government of Odisha as per the Inter-State Supplementary Agreement signed in the year 1978 between both the State Governments.
70. The Petitioner submits that as per the original Inter-State Agreement, 1945 signed between the two States, Machhkund Hydro Electric Project (MHEP) is a joint scheme of Government of Andhra Pradesh and Government of Odisha with 70% and 30% share respectively with option of Government of Odisha to draw an additional 20% power.
71. The revised inter-state Power Purchase Agreement dated 23.10.2020 executed between Govt. of Odisha , OHPC & State of Andhra Pradesh / APGENCO for acquiring additional 20% share of the Joint Scheme by OHPC from APGENCO on payment of Rs 27.42 Crores towards present depreciated cost of the Project. Accordingly, GRIDCO is availing State's share of power to the tune of 50% in the project as per the sharing ratio of 50: 50 stipulated in the said PPA towards drawal of power on payment of the differential fixed cost, which has been paid by OHPC and subsequently reimbursed by the Petitioner.

72. Annual Rainfall is a natural phenomenon and has a direct bearing on the Reservoir levels of Hydro Power Plants and affects the quantum of hydro power generation in any given financial year. The comparative Reservoir levels along with availability of various units of the Hydro power plants of OHPC as on 22.11.2024 are given below

Table:14 OHPC Hydro Plants: Reservoir Level & Availability of Units (As on 24.11.2024)

22-Nov-24	RESERVOIR LEVEL			Previous Day's					22-Nov-24			
NAME OF P.H	FRL	MDDL	Previous day	Today	This day of Previous year	AVG.G EN.	Equivalent	PEAK. (MW)	Water Utilized for Gen	Units available (Today)	Remarks	
						(MW)	Energy (MU)					
BHEP,BALIMELA	1516 Ft	1440 Ft	1505.10	1505.00	1487.30	225.0417	5.4010	432 (19 Hr.)	294.6177 MCft. / 3409.9268 Cusecs	2,3,4,5,6,7,8	# #1:F.O. (Heavy water leakage from discharge ring).	
HHEP,BURLA	630 Ft	590 Ft	626.35	626.43	628.19	0.0000	0.0000	0 (Hr.)	0.0000 MCft. / 0.0000 Cusecs	All	No generation due to drying of the Power Channel for repairing & rehabilitation work.	
CHEP,CHIPILMA	*****	*****	****	***	*****	0.0000	0.0000	0 (Hr.)	0.0000 MCft. / 0.0000 Cusecs	2.3	No generation due to drying of the Power Channel for repairing & rehabilitation work. #1:P.O. (Capital Maintenance).	
RHEP,RENGALI	123.5 M	109.72 M	120.49	120.50	122.60	70.0583	1.6814	249 (19 Hr.)	16.9000 MCM / 195.6006 Cumecs	All	*****	
UIHEP,MUKHIGUDA	642 M	625 M	634.43	634.44	636.09	31.5208	0.87565	295.5 (08 Hr.)	0.9078 MCM / 10.5069 Cumecs	All	*****	
UKHEP,BARINIPUT	858 M	844 M	855.23	855.18	855.73	93.4167	2.2420	259 (18 Hr.)	4.2642 MCM / 49.3538 Cumecs	All	*****	
MHEP,MACHKUND	2750 Ft	2685 Ft	2747.65	2747.50	2727.00	42.6250	1.0230	59 (05 Hr.)	*****	1,3,4,6	Under APGENCO control machines available.	

73. It is submitted that OHPC in its Anticipated Generation Plan for FY 2025-26 has submitted the major outage plan of its different units during the FY:2025-26 as follows:

Table-15: Outage Plan of various OHPC Stations

Units Under Outage	Installed Capacity (in MW)	Tentative Outage Period (Days)	Remarks
Balimela-V	60	334	R & M Work
Balimela-VI	60	334	R & M Work
Chipilima-II	24	198	Capital Maintenance
Upper Kolab-II	80	183	Capital Maintenance
Balimela-VII	75	90	Capital Maintenance
Balimela-VIII	75	90	Capital Maintenance

74. It is pertinent that the major capital maintenance plan is proposed for the entire year for BHEP Unit # 5 & 6,(installed capacity of 60MW each). Further, there is capital maintenance plans for CHEP Unit #2 UKHEP Unit #2 with installed capacity of 24 MW & 80 MW respectively. The above outages of different hydro units for the Financial Year 2025-26 would impact considerably on the energy availability in peak hours in case of outage of other units of the respective stations. It is highly essential for proper maintenance and running of all units of OHPC Stations, as the Petitioner primarily relies on the hydro power because of lower cost and the instant generation ability as per the requirement in the peak hours and during the contingent situations.
75. It is pertinent to mention that the State Hydro stations play a pivotal role to meet the State's peak demand during the situations of steep rise in demand especially during the evening hours and these plants run at the optimum capacity. Thus, the upkeep of all the hydro stations are quite crucial and essential. Thus, OHPC needs to undertake its best endeavours and efforts for early renovation of the plants under shut down for a longer period in order to generate low cost power during evening peak of summer months and moreover during the rainy season for optimal generation.
76. It is submitted that, OHPC is supplying its entire power to GRIDCO, excluding corresponding generation of 5 MW (Five MW) share of Chhatisgarh State Power Distribution Corporation Limited (CSPDCL) from Hirakud (as per the Minutes of Meeting dated 24.12.2004 signed between Dept. of Energy, Govt. of Odisha, GRIDCO, OHPC, MPSEB and CSEB under the chairmanship of the Chief Secretary, Govt. of Odisha in pursuance to the interim judgment passed by Hon'ble High Court of Madhya Pradesh in Writ Petition No.1241/2002 Dtd. 16.12.2004 and as per Order dtd.

17.08.2006 of the Ministry of Power, Govt. of India regarding transfer of above 5 MW Share from erstwhile MPSEB to erstwhile CSEB (presently CSPDCL).

77. It is submitted that the Energy Generation Plan has been submitted by OHPC vide letter dated 21.10.2024 for the ensuing FY-2025-26 (**ED-6**). OHPC has projected anticipated generation of **5456 MU** in the FY:2025-26 from its different stations except Machhkund HEP .However, it is observed that during last three years actual drawl of energy from OHPC Stations (except Machhkund HEP) is less than the anticipated generation projected by OHPC.

Table-16 : Projected vis-à-vis Actual Drawal of Power by GRIDCO

FY	Projected Anticipated Generation by OHPC (MU)	Actual Drawl by GRIDCO (MU)
2021-22	5631	4352.21
2022-23	5225	4786.14
2023-24	5639	5147.48

78. In view of above, the Petitioner GRIDCO has considered average of last three years actual drawal of power from various hydro stations of OHPC for approval by the Hon’ble Commission in the ARR of GRIDCO for FY:2025-26 in place of Design Energy as considered by OHPC. Accordingly, the Hon’ble Commission may kindly consider to approve **4762 MU** of hydro power to be procured by GRIDCO from OHPC Stations (except Machhkund) in the FY:2025-26. It is humbly prayed before the Hon’ble Commission to consider the energy drawal as approved in the ARR of the OHPC for FY 2025-26 in the ARR order of GRIDCO for FY 2025-26.

Table-17: 3 years Actual Energy drawal of OHPC Stations (MU)

OHPC	FY 2021-22	FY 2022-23	FY 2023-24	3 Years Avg. of OHPC Stations	GRIDCO Projection for FY 2025-26 (Based on 3 years Avg. Drawal)
HHEP	684.28	869.91	833.60	795.93	795.93
CHEP	263.24	319.53	294.70	292.49	292.49
Rengali	837.91	732.53	754.79	775.08	775.08

OHPC	FY 2021-22	FY 2022-23	FY 2023-24	3 Years Avg. of OHPC Stations	GRIDCO Projection for FY 2025-26 (Based on 3 years Avg. Drawal)
Upper Kolab	440.01	531.95	565.33	512.43	512.43
Balimela	1001.96	980.72	1012.07	998.25	998.25
Sub-Total	3227.41	3434.65	3460.48	3374.18	3374.18
Upper Indravati	1124.80	1351.49	1687.00	1387.76	1387.76
Total	4352.21	4786.14	5147.48	4761.94	4761.94

It is further submitted that, the average of three years actual energy drawal of power from the OHPC Stations have been considered as per Clause 5.5.3 of OERC(Terms and conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulation,2022.

79. The Petitioner makes estimation of hydropower to the tune of **4,761.94 MU for FY 2025-26**. Details of projected drawal, design energy along with other requisite details are provided in the Table below for kind consideration of the Hon'ble Commission:

Table 18 : Power Purchase Projections of State Hydro stations (MUs)

Power House	Design Energy (MU)	GRIDCO Share %	Actual Drawal during FY 2023-24	OERC Approval for FY 2024-25	Actual Drawal during 1st Six Months (April'24 to Sept.,24)	Generation Plan submitted by OHPC for FY 2025-26	OHPC Projection for FY 2025-26 (After 0.5% Trans. Loss, 0.5% Aux. Cons.)	GRIDCO Projection for FY 2025-26 (Based on 3 years Avg. Drawal)
	(Including loss)		(After Loss)	(After Loss)	(Including Loss of 1%)			
HHEP	684.00	100	833.60	660.52	529.78	827.00	802.13	795.93
CHEP	490.00	100	294.70	485.10	138.28	297.00	294.03	292.49
Rengali	525.00	100	754.79	519.75	519.83	820.00	811.80	775.08
Upper Kolab	832.00	100	565.33	823.68	357.84	726.00	718.74	512.43
Balimela	1183.00	100	1012.07	1171.17	835.12	1186.00	1174.14	998.25
Sub-Total	3714.00	100	3460.48	3660.22	2380.86	3856.00	3800.84	3374.18
Upper Indravati	1962.00	100	1687.00	1942.38	663.64	1600.00	1584.00	1387.76
Sub-Total	5676.00		5147.48	5602.60	3044.49	5456.00	5384.84	4761.94

Note: There is 5 MW allocation from Hirakud HPS i.e. 16.60 MU in favour of CSEB. Drawal from the OHPC stations have been projected considering the avg. drawl for the preceding three years

OHPC & Machhkund Stations – Power Procurement Costs:

80. The Petitioner submits herewith the projected power purchase cost of various OHPC stations based on the Tariff for FY 2024-25 as approved by the Hon'ble Commission in Case No. 111 of 2023 vide Order dated.13.02.2024.
81. The Petitioner submits that SLDC charges in respect of OHPC stations have been forecasted based on the average available capacity of OHPC Power Stations as intimated by OHPC for FY 2024-25. It is submitted that , SOC & MOC Charges for FY: 2024-25 projected by GRIDCO for FY: 2025-26 shall be revised based on consequential change based on ARR order of OHPC for FY 2025-26 to be approved by Hon'ble Commission.
82. It is submitted that , Odisha Gazette Notification dated 01.10.2010 and amendment made in Rule-23-A(f) of Odisha Irrigation Rules, stipulated for the licence fees for drawal or allocation of water shall be enhanced @ 10% per annum w.e.f. 1st day of April. Thus, Water Cess has been calculated to be 2.057 P/U. Further, the Electricity Duty has been considered at the rate of 55 Paisa /Unit towards auxiliary energy consumption of the respective stations.
83. The Petitioner submits that the power purchase cost of Machhkund station for FY 2025-26 is computed by applying the annual escalation factor of 5.72% on 50% of the total O&M Expenses of Rs.63.59 Cr. as reflected in the audited accounts of FY 2023-24, which works out to be **Rs.35.54 Cr.** and the same forms the projected share of O&M expense for Govt. of Odisha / OHPC becoming payable to State of Andhra Pradesh / APGENCO during FY 2025-26.
84. The Petitioner prays before the Hon'ble Commission to kindly consider to approve Rs.35.54Cr. to be paid to OHPC towards 50% O&M Expenses for purchase of the State share of power from Machkund Hydro Electric Project for the FY: 2025-26.. The Auditors' Certificate and Final Bill for share of O&M expenditure is attached herewith (**ED-7**).

Table-19 : Power Purchase Cost of Machhkund for FY 2025-26

Particulars	Unit	FY: 2025-26
Present Installed Capacity of MHEP (Jt.) Scheme (MW)	MW	120
(50%) Odisha Share as per revised Agreement dated 23.10.2020 (MW)	MW	60
Design Energy of MHEP for Generation (MU)	MU	525
Normative Auxiliary Energy Consumption (AUX) (%)	%	1%
Normative Auxiliary Energy Consumption (AUX) (MU)	MU	5.25
Saleable Design Energy for sharing between Andhra Pradesh & Odisha (MU)	MU	519.75
(50%) Saleable Design Energy Share of Odisha (MU)	MU	259.875
Drawal of Total Share of Odisha Energy by GRIDCO (MU)	MU	259.875
O&M Escalation factor @ 5.72 % for two years over the O&M Bill of MHEP for FY 2023-24.	-	1.11767
Total Audited Cost of O&M Bill of MHEP (Jt.) for the FY-2023-24	Rs. Cr.	(Rs. Cr.)
50% O&M Expenditure share (Orissa share of Actual O&M Expenditure for 2023-24)	Rs. Cr.	63.599
O&M Expenditure for FY 2025-26 applying the escalation factor	Rs. Cr.	35.541
Tariff per Unit	(P/U)	136.763

85. It is submitted that the estimated power purchase costs from OHPC stations to be incurred during FY 2025-26 are summarized below:

Table 20: Projected Power Purchase Cost of Hydro stations of OHPC and Machhkund for FY 2025-26

Name of the Power Stations	OHPC Projection for FY 2025-26	GRIDCO Projection for FY 2025-26	Annual Fixed Cost approved for FY 2024-25	Projection of annual Fixed Cost for FY2025-26 (As approved for FY2024-25)	ED on Aux. Consumption	Water Cess Paid /payable to Govt.	SLDC Charges (SOC & MOC)	Total Projected Cost for FY 2025-26	Unit Rate for FY-2025-26
	(MU)	(MU)	(Rs. Cr.)	(Rs. Cr.)	(Rs. Cr.)	(Rs. Cr.)	(Rs. Cr.)	(Rs. Cr.)	(P/U)
HHEP	827.00	795.93	95.34	95.34	0.44	1.64	0.30	97.72	122.78
CHEP	297.00	292.49	40.35	40.35	0.16	0.60	0.06	41.18	140.78
Rengali	820.00	775.08	68.17	68.17	0.43	1.60	0.27	70.46	90.91
Upper Kolab	726.00	512.43	63.02	63.02	0.28	1.06	0.30	64.66	126.18

Name of the Power Stations	OHPC Projection for FY 2025-26	GRIDCO Projection for FY 2025-26	Annual Fixed Cost approved for FY 2024-25	Projection of annual Fixed Cost for FY2025-26 (As approved for FY2024-25)	ED on Aux. Consumption	Water Cess Paid /payable to Govt.	SLDC Charges (SOC & MOC)	Total Projected Cost for FY 2025-26	Unit Rate for FY-2025-26
Balimela	1186.00	998.25	96.04	96.04	0.55	2.06	0.40	99.04	99.22
Sub-Total	3856.00	3374.18	362.92	362.92	1.86	6.95	1.33	373.06	110.56
Upper Indravati	1600.00	1387.76	161.90	161.90	0.76	2.86	0.56	166.09	119.68
Total	5456.00	4761.94	524.82	524.82	2.62	9.81	1.90	539.15	113.22
Machkund		259.88	30.40	35.54				35.54	136.76
Total		5021.82	555.22	560.36	2.62	9.81	1.90	574.69	114.44

86. The Hon'ble Commission may therefore kindly consider to approve power purchase cost for OHPC stations to the tune of **Rs.574.69 Crore** as per the computations in the table above including reimbursement and all other allowable costs for FY 2025-26 while approving ARR of the Petitioner for FY 2025-26.

5.2 Odisha Power Generation Corporation Limited (OPGC):

87. Odisha Power Generation Corporation (OPGC) owns IB Thermal Power Station at Banharpalli in Dist. Jharsuguda with an installed capacity of 2x210 MW (Unit I & II) for Stage-I from which GRIDCO is entitled to draw 100% power. The petitioner GRIDCO is having 100% share with effect from 01.04.2023 from expansion project of OPGC i.e. Stage-II (Unit-III & IV) having installed capacity of 1320 MW (2X660 MW).The Supplementary PPA executed between OPGC and GRIDCO dated 24.01.2019 was accorded in principle approval by Hon'ble Commission vide order dated 22.06.2021 in Case No.67 of 2019.and shall be valid for 25 years from 1st April, 2023 i.e. up to FY 2048.

88. OPGC has submitted the Generation Plan of Unit I & II for FY 2025-26 vide email dated 09.10.2024 (**ED-8**). As per the said Generation Plan, net drawl from OPGC Stage-I during FY 2025-26 is estimated to be **2764.07 MU** at a PLF of **83%**. The Generator has

also mentioned that there shall be planned outage for R&M (1st Phase) for a period of 40 days from 01.12.2025 up to 09.01.2026.

89. The Petitioner submits that OPGC Stage-I has operated at **66.158%** PLF during FY 2023-24. Considering , the said actual PLF% for calculation of projected energy to be made available to GRIDCO during FY 2025-26 , the quantum of power works out to be **2202.847 MU** against **2764.07 MU** as projected by the generator. It is therefore humbly prayed before the Hon'ble Commission to kindly consider the projected quantum of **2202.85 MU** of power to be available from OPGC Stage I during FY 2025-26 for meeting the State demand.
90. For Expansion Project i.e. Stage-II, (Unit#3 & #4), OPGC has furnished Generation Plan for FY 2025-26 by its E-Mail dated 09.10.2024. As per the said generation plan, the gross generation has been projected by OPGC to be **10,178.15 MU**. The generator has projected the PLF to be 88.66% during FY 2025-26 and accordingly calculated the Ex-Bus quantum of export of power to be **9,610.98 MU**. However, the Petitioner GRIDCO has considered **9,214.43 MU** to be made available by the OPGC from its Stage II plants during FY 2025-26 considering 85% availability. In view of the approval of Supplementary PPA dated 24.01.2019 of OPGC Stage II vide order dated 22.06.2021, GRIDCO humbly prays before the Hon'ble Commission to approve **9,214.43 MU** of power to be procured by GRIDCO from OPGC Stage II during FY 2025-26.

Table-21: Projected Power Purchase quantum from OPGC Stage I & II for FY 2025-26 (MU)

Station	Installed Capacity	Aux Consumption	PLF	Energy Available to GRIDCO
Unit	(MW)	(%)	(%)	(MU)
Unit I & II	420	9.50	66.16	2202.85
Unit III & IV	1320	6.25	85	9214.43

OPGC Stations – Power Procurement Cost

91. It is submitted that, OPGC in its Email message dated 09.10.2024, has projected the Annual Fixed Charges (AFC) to be **Rs. 328.07Cr** and the Energy Charge Rate (ECR) has been projected to be **165.10 P/U** for Stage-I. The Petitioner GRIDCO submits that the proposal of OPGC in respect of Annual Fixed Charge (AFC) and Energy Charge

Rate (ECR) of OPGC Stage-I (Unit I & II) has been provisionally considered in this application. However, Hon'ble Commission may kindly consider the Annual Fixed Charges (AFC) and the Energy Charge Rate (ECR) as determined in the Tariff order of Stage I of OPGC in the ARR order of GRIDCO for FY 2025-26.

92. It is submitted that vide its order dated 07.01.2023 passed in Case No.96 of 2021, the tariff for OPGC Stage II i.e. Unit -III & IV for FY 2023-24 has already been determined by the Hon'ble Commission. Vide said Order, Hon'ble OERC have already determined the Annual Fixed Charges for FY 2023-24 to be **Rs. 1904.70 Cr** and the Energy Charge Rate to be **126.15 P/U**. It is submitted that, OPGC is yet to file its tariff application in respect of Stage-II for the block period 2024-29 before the Hon'ble Commission. Therefore, the Annual Fixed Charges (AFC) and ECR as fixed for FY 2023-24 by Hon'ble Commission vide Tariff order dated 07.01.2023 in Case No. 96 of 2021 has been provisionally considered for calculation of power purchase cost for OPGC Stage-II for FY 2025-26 subject to tariff approval by Hon'ble Commission. It is submitted that the average Energy Charge Rate (ECR) of first six month's of FY 2024-25 works out to be **141.56 Paise /kWh** and this has been provisionally considered as ECR for FY 2025-26 to determine the energy charges of the station.
93. It is to be mentioned here that, as per the remand order by Hon'ble High Court of Orissa in WP(C) 34663 of 2021., Case No. 67 of 2019 was reheard and final order was pronounced by Hon'ble Commission on 12.01.2024 and directed that since 100% share of power is being procured by GRIDCO, the tariff shall be as per the norms and parameters of OERC's Generation Tariff Regulations, 2020 as amended from time to time. The said order has once again been challenged by OPGC before Hon'ble High Court of Odisha in Writ Petition WP(C) 13495 of 2024.
94. It is submitted that, the AFC and Energy Charge Rate (ECR) has been provisionally considered by the Petitioner for calculation of Power Purchase Cost from OPGC Stage-I and it is humbly prayed before the Hon'ble Commission to kindly consider the Power Purchase Cost and quantum as per the Tariff Order for OPGC Stage-I for FY 2025-26.
95. It is humbly submitted that in case of OPGC Stage II, Hon'ble Commission has already determined tariff in the MYT application for block period 2019-24 in Case No. 96 of

2021. Therefore, the Annual Fixed Charges of OPGC Stage II fixed by Hon'ble Commission for FY: 2023-24 may be provisionally considered for Stage-II and the ECR as submitted / proposed above by GRIDCO while approving the ARR of GRIDCO for FY: 2025-26 subject to adjustment as per the tariff order for the said year.

Year End Charges (YEA):

96. It is submitted that the Year-End Charges mainly comprise of reimbursement of Electricity Duty, Water Charges/Cess, SOC & MOC and DSM charges, etc. Electricity Duty (ED) has been calculated and projected by considering Auxiliary Energy Consumption @9.50 % for Stage-I and 6.25% for Stage-II. Further, the Year-End Charges has been projected by prorating the actual Year End Charges as admitted by GRIDCO during the 1st half of the FY 2024-25 i.e. from April to September, 2024. It is submitted that the petitioner GRIDCO prays before the Hon'ble Commission to kindly consider to allow the same figures of statutory dues to be approved in the Tariff order of OPGC (Stage I), in the ARR of GRIDCO for FY: 2025-26.
97. Details of Year End Charges are humbly submitted for FY 2024-25 up to September 2024 in respect of OPGC Stage I and II plants herein below:

Table- 22 : Details of Year End charges for OPGC Stage-I for FY 2024-25

Year End Charges for FY 2024-25(Apr-Sep'24) for OPGC Stage-I (2 X210MW)			
Sl. No.	Item	Amount Claimed by OPGC (Rs.)	Amount Paid by GRIDCO (Rs.)
1	Electricity Duty	70,005,778	70,005,778
2	SOC & MOC charges	2,411,358	2,411,358
3	Water Charges	55,632,364	55,632,364
4	Electrical Inspection Fees for FY 2023-24 and FY 2024-25	4,356,000	4,356,000
5	Publication of public notice for tariff for FY 2024-25	1,31,436	1,31,436
6	OERC ARR Tariff Filing Fees for 2024-25	21,00,000	21,00,000
	Total	134,636,936	134,636,936

Table- 23: Actual Year End Charges for FY 2024-25(Apr-Sep'24) for OPGC Stage-II

Year End Charges for FY 2024-25(Apr-Sep'24) for OPGC Stage-II (2 X660MW)			
Sl. No.	Item	Amount Claimed by OPGC (Rs.)	Amount Paid by GRIDCO (Rs.)
1	Electricity Duty	14,49,04,271	14,48,13,257
2	DSM Charges	-21,90,818	-26,07,001
3	SOC & MOC charges	75,78,558	75,78,558
4	Electrical Inspection Charges FY 2023-24 and FY 2024-25	68,88,000	68,88,000
5	Tax & Cess on Land for FY 2023-24 & FY 2024-25	2,24,19,901	2,24,19,901
	Total	17,95,99,912	17,90,92,715

98. The annualised pro-rated amount of the above expenses works out to **Rs.26,92,73,872/-** and **Rs.35,81,85,430/-** as being derived by considering actual payment during the first six-months of FY 2024-25 for OPGC Stage-I and Stage-II respectively towards Year End Charges in the ARR of the Petitioner for FY :2025-26.
99. It is further submitted that, vide invoice dated 11.11.2024 OPGC has raised the invoice of **Rs.77, 65, 402/- and Rs.4,08,87,627/-** towards reimbursement of Ash Transportation Charges for FY:2023-24 of Unit I and Unit II respectively, which shall be paid in FY 2024-25. It is submitted that, Ash Transportation Charges for FY 2024-25 is yet to be claimed for FY:2024-25 by OPGC and therefore, **Rs.77, 65, 402/- and Rs.4,08,87,627/-** have been provisionally considered as estimated Ash Transportation Charges and have been included in the Year End Charges projected for FY2025-26.
100. It is therefore humbly prayed before the Hon'ble Commission to kindly consider the total amount of **Rs.27,70,39,274/- and Rs.39,90,73,057/-** for OPGC Stage-I and Stage-II (including the Ash Transportation Charges) respectively towards Year End Charges in the ARR of the Petitioner for FY:2025-26.
101. In view of the aforesaid submissions, total Power Purchase Cost payable to OPGC is summarized below:

Table -24: Projected Power Purchase Cost from OPGC plants for FY 2025-26

Name of the Power Stations	Energy (MU)	Fixed charges (Rs. Cr.)	Variable charges (Rs. Cr.)	Year End charges (Rs Cr.)	Total Projected Cost (Rs. Cr.)	Total Unit Rate (P/U)
OPGC I&II	2202.85	328.07	363.69	27.70	719.46	326.61
OPGC III&IV	9214.43	1904.70	1304.39	39.91	3249.00	352.60
Total	11417.27	2232.77	1668.08	67.61	3968.47	347.58

5.3 Captive Generating Plants (CGPs):

102. The Petitioner respectfully submits that with commissioning and availing full entitlement of power from OPGC Unit # 3 & 4, NTPC-Darlipalli (1600 MW) , Barh-I and Renewable capacity additions , there would not be any requirement for procurement of power from CGP sources during the ensuing FY 2025-26. However, procurement of power from CGPs and Co-Generation Plants may be resorted to as per the Order dated 09.04.2019 of the Hon’ble OERC in Case No.62 of 2017, if any unprecedented acute power shortage situations arises in the State. In such scenario, the petitioner GRIDCO may resort to procurement of power from CGPs provided the economics of power procurement works out in its favour vis-a-vis power supply and demand situation of the State and exigency/force majeure conditions (if any). It is to mention that CGP power is not a firm source of power since the CGPs are essentially meant for the captive consumption by their own industries.

5.4 Renewable Energy Sources:

103. Ministry of Power, Government of India vide Notification dated 20.10.2023(**ED-9**), exercising the powers conferred by Clauses (n) and (x) of the Energy Conservation Act,2001 (52 of 2001) in consultation with the Bureau of Energy Efficiency has specified the minimum share of consumption of non-fossil sources by the designated consumers, which came into force on 01.04.2024. In line with the same, Hon’ble Commission has also issued draft OERC (Procurement of energy from Renewable Sources & its Compliance) Regulation , 2024 and invited views/suggestions from other stakeholders for finalisation of the same.

104. Hon'ble OERC have notified the OERC (Procurement of Energy from Renewable Sources and its Compliance) Regulations, 2021 with span of RPO target from 13.25 % in FY 2021-22 to 18 % by FY 2024-25 of the total consumption of energy from all sources excluding the consumption met from hydro (State & Central) as quoted below:

Table 25 : Minimum quantum of electricity to be procured from RE Sources by Obligated Entity as % of Total Consumption in kWh

FY	RPO Percentage (%)				Total RPO (%)
	Solar	Non-Solar			
		HPO	Other Non-solar RPO	Total Non-solar RPO	
2021-22	7.25	0.18	5.82	6.00	13.25
2022-23	8.00	0.35	6.15	6.50	14.50
2023-24	8.75	0.66	6.59	7.25	16.00
2024-25	9.75	1.08	7.17	8.25	18.00

Clause 4.10 of the existing OERC RPO Regulations, 2021 states that;

“ If the RPO for any of the year is not specified by the Commission, the RPO specified for the previous year shall be continued beyond the specified period till any revision is effected by the Commission in this regard.”

105. It is submitted that, in line with the above and as no RPO target is notified for FY 2025-26 till date, the petitioner GRIDCO has considered to purchase renewable energy @ 18 % RPO target specified for FY 2024-25 (consisting of 9.75 % Solar target, 1.08 % HPO & 7.17 % Non-Solar target) of the total projected energy requirement in the State for sale through the DISCOM Utilities. The Petitioner submits the proposed procurement of Solar & Non-Solar energy by GRIDCO for FY 2025-26 as indicated below:

Table -26 : Proposed Procurement of Renewable Energy during FY 2025-26

Particulars	RPO Target		Renewable Energy proposed by GRIDCO for FY 2025-26
	(On Proposed Sale of 38,914 MU to DISCOMs)		
	Percentage	Quantum	Quantum
	(%)	(MU)	(MU)
Solar Energy	9.75	3794	3267
Non-Solar Energy (HPO & Other Non-solar)	8.25	3210	1461
Total	18.00	7004	4728

Note: The RPO estimation has been calculated excluding the Hydro Generation (State + Central)

❖ **Solar Energy:**

106. It is submitted that presently, GRIDCO is procuring 991 MW of solar capacity from the projects commissioned both in State (416 MW) and Outside the State (575 MW). The Petitioner submits that it has estimated to procure around **3267MU** of Solar energy during FY 2025-26 from the following stations:

Existing Projects:

- 8 Nos. of Solar PV Projects of 1 MW each commissioned in the State under 'Rooftop PV and Small Solar Power Generation Programme (RPSSGP) guidelines of MNRE, Government of India (**13 MU**);
- 20 MW Solar capacity under 'New Projects Scheme' in Phase-1 of Jawaharlal Nehru National Solar Mission (JNNSM) where Solar capacity bundled with equal capacity of thermal capacity from the unallocated quota of the NTPC Coal Based Stations is available to GRIDCO (**28 MU**), and;
- 10 MW Solar capacity through NTPC from each of the 5 MW Dadri Solar PV project at U.P. & 5 MW Faridabad Solar PV Project at Haryana (**14 MU**);
- **7 MU** will be made available to GRIDCO from the 5 MW Solar PV Project developed by M/s Alex Green Energy Ltd. under OREDA State Scheme at Patnagarh, Balangir District;

-
- **44 MU** will be made available to GRIDCO from the 25 MW SPV Project developed by M/s. ACME Odisha Solar Power Private Ltd. at Balangir District under OREDA State Scheme, Phase-2;
 - 70 MW Solar Capacity is allocated to GRIDCO through SECI under Viable Gap Funding (VGF) Scheme under JNNSM Phase-II. Around **123 MU** is expected to be made available to GRIDCO during FY 2025-26.
 - From the 270 MW Solar power allocated to GRIDCO through SECI VGF Scheme under JNNSM Phase-II, Batch – IV, around **401 MU** power is expected to be available to GRIDCO during FY 2025-26 as per the PSA executed with SECI Ltd.;
 - From the 75 MW Solar PV project developed by M/s Aditya Birla Renewables Limited, selected under GRIDCO e-bidding Scheme, it is expected to get around **138 MU** Solar Energy during the ensuing FY 2025-26.
 - Around **657 MU** from the 300 MW Solar Power project through SECI under ISTS-connected Solar power Projects Scheme is expected to be available during the FY 2025-26.
 - From the 200 MW Solar capacity allocated to GRIDCO through SECI under ISTS-connected Solar power Projects Scheme, around **438 MU** power is expected to be available during FY 2025-26.
 - **12 MU** solar power is expected to be made available to GRIDCO from the **8 MW** Solar PV Projects developed by GEDCOL in 5 nos. of location (3 nos. of OPTCL sub-stations such as Baripada, New Balangir & Jayanagar, at Mukhiguda Powerhouse & GEDCOL Manamunda Solar Project premises) in the un-utilized surplus land.

Up Coming Projects:

- GRIDCO has executed Power Sale Agreement on 22.07.2021 with SECI towards procurement of power from 500 MW Solar Projects under ISTS-connected Manufacturing Linked Scheme. Out of the total contracted solar capacity of 500 MW, 333 MW of solar capacity will be available from M/s Adani Green Energy Twenty Six Ltd. and balance 167 MW was supposed to be available to GRIDCO through SECI from M/s Azure Power Fifty Two Pvt. Ltd. However, as per the latest intimation received from SECI, the Solar Developer, M/s Azure Power Fifty Two Pvt. Ltd. has expressed its inability to execute the project. Hence, GRIDCO issued

consent to SECI towards availing the balance 167 MW of solar capacity from other Developer under the same tariff of Rs.2.61/kWh and same terms and conditions of the Power Sale Agreement.

Therefore, out of the 500 MW of solar capacity, GRIDCO is expected to avail around **607 MU** from the 333 MW solar project, which may achieve CoD during May 2025.

- Under ISTS Solar Projects Scheme, GRIDCO has executed two nos. of PSAs (18.04.2022 & 30.09.2022) with NTPC towards procurement of total 400 MW with 200 MW each at the applicable tariff of Rs.2.50/kWh including trading margin of Rs.0.07/kWh. GRIDCO is expected avail around **730 MU** during FY 2025-26 from these solar projects through NTPC.
- Earlier GRIDCO executed PPA with NHPC towards procurement of power from the 40 MW solar project to be set up at Landeihil in Ganjam and the power was expected to be available by June'2022. However, due to some issues with the EPC contractor, the project could not be executed in the Scheduled time line. Hence, re-tendering was conducted by NHPC and a supplementary PPA was executed by both the parties on 29.06.2024 following the revision of Scheduled commissioning date and contracted energy. GRIDCO is expected to avail around **55 MU** of solar energy from this project during FY 2025-26.
- Based on the entitlement, the petitioner GRIDCO proposes to procure around **3,267 MU** of Solar power during FY 2025-26 as summarised in the Table below:

Table-27: Proposed Drawl of Solar Power during FY 2025-26

Sl. No.	Solar RE Sources	Energy Proposed for FY 2025-26 (MU)
1.	8 Nos. of Solar PV projects of 1 MW each under RPSSGP	13.00
2.	20 MW from NVVN through 'New Projects scheme' under JNNSM, Phase-1	28.00
3.	10 MW through NTPC from 5 MW Solar PV project at Dadri & Faridabad	14.00
4.	5 MW from M/s Alex Green Energy Ltd. through OREDA State Scheme	7.00
5.	25 MW from M/s. ACME Odisha Solar Power Private Limited	44.00
6.	70MW through Solar Energy Corporation of India (SECI) under JNNSM, Phase –II, Batch-I	123.00
7.	270MW through Solar Energy Corporation of India (SECI) VGF Scheme under JNNSM, Phase –II, Batch-IV	401.00
9.	75 MW from M/s Aditya Birla Renewables Ltd. procured through GRIDCO e-bidding process	138.00

Sl. No.	Solar RE Sources	Energy Proposed for FY 2025-26 (MU)
10.	300 MW Solar power through SECI under ISTS-Connected Solar Power projects scheme	657.00
11.	200 MW Solar power through SECI under ISTS-Connected Solar Power projects scheme	438.00
12.	8 MW from GEDCOL implemented in un-utilized surplus land	12.00
13	500 MW through SECI under manufacturing linked Scheme 333 MW from June'2025 onwards.	607.39
14	400 MW through NTPC under ISTS Solar from June'2025 onwards	729.60
15	40 MW from NHPC from July'2025 onwards	55.00
	Total	3266.99

107. It is submitted that GRIDCO is taking best effort to explore the possibilities for procurement of more Solar Power inside the State in view of the waiver of ISTS charges valid up to 30th June 2025 by attracting the Developer to instal solar projects in the State in order to increase the share of renewable energy in the overall energy mix of the State. It is submitted that, GRIDCO plans to procure **3266.99 MU** of Solar energy against the Solar Power Obligation (SPO) of **3794 MU @ 9.75 %** of the projected State Energy Consumption of **38,914 MU** for FY 2025-26. It is submitted that, the Solar power rates mentioned in the respective agreements executed with the Developers/Agencies and duly approved by the Hon'ble Commission and the same have been considered for estimation of energy costs from the Solar projects during FY: 2025-26 as detailed below.

Solar Power Cost:

108. The petitioner GRIDCO proposes to procure following quantum of solar power at provisional rates as submitted below:

- i. **13 MU @ 628 P/U** from 8 Nos. of 1 MW SPV Projects under RPSSGP Scheme;
- ii. **28 MU @ 1065 P/U** through NVVN Ltd. under the New Project Scheme;
- iii. **7 MU Solar Power @ 700 P/U** from M/s Alex Green Energy Pvt. Ltd;
- iv. **44 MU of Solar Power @ 728 P/U** from M/s ACME Odisha Solar Power Pvt. Ltd. under OREDA State Scheme, I & II respectively;
- v. **123 MU @ 550 P/U** of Solar Power through Solar Energy Corporation of India Ltd. (SECI) under VGF Scheme, Phase-II, Batch-1;

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- vi. **401 MU @ 450 P/U** of Solar Power has been taken through SECI under VGF Scheme Phase-IV;
 - vii. **7 MU @ 935 P/U** from 5 MW Faridabad SPV Project;
 - viii. **7 MU @1294 P/U** from 5 MW Dadri SPV Project has been considered;
 - ix. **138 MU** of Solar Power **@ 306 P/U** including the Safe Guard Duty (SGD) impact from 3 nos. of SPV projects of M/s Aditya Birla Renewables Ltd. under GRIDCO e- bidding scheme at Boudh (Rs. 3.06/ kWh), Bargarh (Rs. 3.06/ kwh) & Bolangir (Rs. 2.99/ kWh) and
 - x. **657 MU & 438 MU** of Solar Power **@ 260 P/U and @ 265 P/U** respectively being procured through SECI under ISTS- connected Solar power projects Tranche-I & III scheme have been proposed.
109. It is submitted that, 8 MW solar PV projects of GEDCOL in 5 nos. of different locations (3 nos. of OPTCL sub-stations viz. Baripada, Jayanagar & New Bolangir, OHPC Mukhiguda Power House & GEDCOL Manamunda Solar plant premises) in the un-utilized available surplus land, has already been commissioned in the State during May 2023. Around **12 MU** energy export is expected during FY 2025–26. The mutual agreed tariff between GEDCOL & GRIDCO is **Rs. 2.84 / kWh**, which is also approved by Hon’ble OERC vide Order dated 20.07.2021 in Case No. 15/ 2021 while approving the PPA dated 01.09.2020.
110. It is submitted that through SECI 500 MW Solar Power projects under ISTS-connected Solar Tranche-1 under Manufacturing Linked Scheme of MNRE, around **607.39 MU @ 261 P/U** is expected to be procured during FY 2025-26 in the 1st phase with the total cost of **Rs.158.53Crores**. There is a waiver of ISTS charges for availing this solar power though losses will be applicable.
111. Similarly, under ISTS Solar Projects through NTPC, around **729.60 MU @ 250 P/U** is expected to be procured by GRIDCO during FY 2025-26 with total cost of **Rs.182.40 Crores**. No ISTS charges and losses will be applicable for the said solar project.
112. The petitioner GRIDCO also expects to buy around **55 MU energy@ 275 P/U** at the total cost of **Rs.15.13 Crores** from NHPC 40 MW solar project.

113. Accordingly, the estimated procurement of **3266.99 MU** of Solar Power during FY 2025-26 is projected at around **Rs. 1028.60 Cr.** at an Average Proposed Rate of **314.85 P/U**. The details of projected procurement and cost of Solar Power by GRIDCO for FY 2025-26 is given in the Table below:

Table-28: Proposed Quantum & Power Purchase Cost of Solar Power for FY 2025-26

Solar RE Sources	Energy Proposed for FY 2025-26	Year of Commissioning	OERC Approved Rates for FY 2024-25	Proposed Rates for FY 2025-26	Estimated Total Cost for FY 2025-26
	(MU)		(P/U)	(P/U)	(Rs. Cr.)
Existing					
8 Nos. of Solar PV projects of 1MW each under RPSSGP*	13.00	FY 2011-12	628	628	8.16
20 MW through NVVN under 'New Projects scheme' under JNNSM, Ph-1	28.00	FY 2013-14	1065	1065	29.82
10 MW through NTPC from each 5 MW Solar PV projects at Dadri & Faridabad	14.00	FY 2013-14	1294 & 935	7 MU @1294 P/U & 7 MU @935 P/U	17.01
				8.50 MU @935 P/U	
5 MW from M/s Alex Green Energy Ltd. through OREDA State scheme	7.00	FY 2014-15	700	700	4.90
25 MW from ACME Odisha Solar Power Private Ltd.	44.00	FY 2015-16	728	728	32.03
70MW through Solar Energy Corporation of India (SECI) under JNNSM, Phase –II, Batch-I	123.00	FY 2015-16	550	550	67.65
270MW through SECI under JNNSM, Phase –II, Batch-IV	401.00	FY 2018-19	450	450	180.45
75 MW from M/s. Aditya Birla Renewables Ltd. under GRIDCO e-bidding.	138.00	FY 2020-21	306	306	42.23
300 MW through SECI under ISTS – Connected Solar Power Projects Scheme	657.00	FY 2020-21	260	260	170.82

Solar RE Sources	Energy Proposed for FY 2025-26	Year of Commissioning	OERC Approved Rates for FY 2024-25	Proposed Rates for FY 2025-26	Estimated Total Cost for FY 2025-26
	(MU)		(P/U)	(P/U)	(Rs. Cr.)
200 MW through SECI under ISTS – Connected Solar Power Projects Scheme	438.00	FY 2021-22	265	265	116.07
8 MW from GEDCOL implemented in un-utilized surplus land	12.00	FY 2023-24	284	284	3.41
Sub Total	1875.00				672.55
Upcoming					
333 MW through SECI under manufacturing linked Scheme in 1st Phase	607.39	SCOD during March 2025	261	261	158.53
400 MW through NTPC under ISTS Solar in 2 phases	729.60	SCOD during March 2025	250	250	182.40
40 MW from NHPC	55.00	SCOD during May 2025	275	15.13
Sub Total	1391.99				356.05
Total	3266.99			314.85	1028.60

Year End Charges of Solar Power Sources :

114. It is submitted that the Year-End Charges comprises of costs towards STU charges / SLDC & RLDC charges, Compensation towards Safe Guard Duty (SGD) as claimed to GRIDCO. The Year-End Charges has been projected considering the actual Year End Charges which are provisionally accepted and paid by GRIDCO during the current FY 2024-25. The Year End charges of **Rs.28.56 Crore** is projected to be paid by GRIDCO during FY 2025-26 and the same may be kindly considered by the Hon'ble Commission in the ARR for the FY 2025-26.. The detailed breakup of the Year End Charges in respect of Solar Power projects are submitted below:

Table-29: Proposed Year End Charges of Solar & Non Solar for FY 2025-26

Sl.No.	Name of Station	Capacity (MW)	Nature of Expenditure	Projected Expenditure for FY 2025-26
				(In Crore)
1	Rajasthan and Gujarat through SECI under VGF Scheme Ph-2, Batch-1	50	Re-imbusement towards STU Charges and SLDC charges	10.95
2	Dadri & Faridabad Solar PV stations through NTPC	10	Re-imbusement towards RLDC & SLDC charges	
3	Bundled Power through NVVN	15	Re-imbusement towards STU Charges and SLDC charges	
4	ISTS Solar Projects Tranche-1 through SECI	300	Compensation towards Safe Guard Duty claims under Change in Law provision of PSA dated 21.08.2018	13.86
5	ISTS Solar Projects Tranche-3 through SECI	200	Compensation towards Safe Guard Duty claims under Change in Law provision of PSA dated 21.08.2018	1.86
6	Bundled Power through NVVN	20	Ash Transportation charges claimed by NTPC as per CERC Order dated 28.10.2022	1.89
	Total	595		28.56

❖ **Small Hydro Electric Projects (SHEP)/ Non-Solar Energy :**

Small / Mini Hydro Electric Projects

115. It is submitted that currently, the petitioner GRIDCO is procuring **109.15 MW** of power from the Small/Mini Hydro Electric Projects commissioned within the State. Considering energy procurement of 407.98 MU during FY: 2023-24 from Small / Mini Hydro Projects, drawal of **256.49 MU** during the first six months of FY 2024-25, GRIDCO proposes to draw **444.92 MU** of Renewable Energy from different SHEPs situated within the state, during FY 2025-26.

116. Hon'ble Commission vide 'Odisha Electricity Regulatory Commission (Procurement of Energy from Renewable Sources and its Compliance) Regulations, 2021 dated 17.01.2022, allowed generation from SHEPs commissioned on and after 08.03.2019 to qualify towards HPO. Accordingly, generation from 24 MW Lower Baitarani SHEP by M/s BPPPL, 18 MW Saptadhara SHEP by M/s SAPPPL, 09 MW Bargarh Head Regulator SHEP by M/s Kakatiya Industries Pvt. Ltd are eligible to be considered under HPO category.

Table-30: Proposed Drawal from the SHE Projects during FY 2025-26

Name of the SHEPs	Installed Capacity	Energy drawal during FY 2023-24	Energy drawal during Apr.-Sept. of FY 2024-25	Proposed Energy procurement for FY 2025-26
	(MW)	(MU)	(MU)	(MU)
Lower Kolab and Middle Kolab SHEP by M/s Meenaskhi Power Ltd. through PTC	37	165.53	115.61	166.50
SAMAL Barrage SHEP by M/s OPCL through PTC	20	86.19	51.86	94.12
OPGC MHP	1.15	0.07		0.16
Lower Baitarani SHEP by M/s BPPPL	24	79.27	48.91	91.14
Saptadhara SHEP by M/s APPPL	18	44.72	26.93	57.00
Bargarh Head Regulator SHEP by M/s Kakatiya Industries Pvt. Ltd.	9	32.25	13.18	36.00
Total	109.15	408.03	256.49	444.92

It is further submitted that, the average of three years actual energy drawal of power from the Lower Kolab & Middle Kolab SHEP, Samal Barrage SHEP, MHPs of OPGC and Lower Baitarani SHEP have been considered as per the Clause 5.5.3 of RST Regulation,2022.

117. The details of the power procurement cost for the SHEPs are provided below:

- a. **Lower Kolab and Middle Kolab SHEP:** Procurement of **166.50 MU** from M/s. Meenakshi Power Pvt. Limited (M/s. MPPL) through PTC India Ltd. has been

planned at the rate of 368 P/U including PTC Trading Margin of 04 P/U. For the proposed procurement of 166.50 MU, the Cost of power shall be **Rs. 61.27 Crore**.

- b. **Samal Barrage SHEP:** As per the Order dated 09.04.2024 in Case No. 63 of 2016, the Hon'ble APTEL has approved the tariff of 480 paise/kWh for the Samal Barrage SHEP, inclusive of 4paise/unit towards trading margin by PTC. With the proposed supply of **94.12 MU**, the power cost payable to PTC India Ltd. will be Rs.45.18crore from M/s. OPCL.

Further, Hon'ble Commission vide Order dated 19.05.2011 in case nos. 17/2011 and 24/2011 has directed GRIDCO to reimburse 100% of the Water Charges and 50% of the SLDC charges paid by M/s OPCL in respect of 20 MW Samal Barrage SHEP. As per Gazette notification dated 27.09.2016, of Revenue and Disaster Management Department, Govt. Of Odisha, Water Charges of Rs. 0.018/kWh to be payable by OPCL in respect of 20 MW Samal Barrage SHEP. The total tentative amount payable to OPCL towards Water Charges against the proposed quantum of 94.12 MU is Rs. 1,694,160 and towards SoC & MoC Charges is Rs. 115,987/-.

In practice, GRIDCO reimburses these charges as year-end charges and subsequently claims them as a pass-through in the following year's ARR. This results in a one-year gap in recovering the said amounts. Therefore, it is humbly prayed before Hon'ble Commission to consider the Water Charges and SLDC charges as Year End Charges in the present ARR Application of GRIDCO in respect of M/s OPCL.

- c. **Lower Baitarani SHEP:** Procurement of **91.14 MU** of energy from 24 MW Lower Baitarani SHEP has been planned at a tariff of **565 P/kWh**. Vide interim order dated 05.02.2024 in Appeal No. 25 of 2025 & IA No. 2343 of 2023 , Hon'ble APTEL has directed to pay the tariff of 565 P/kWh during the pendency of the Appeal before APTEL. With the said tariff, the Cost of procurement of power from M/s. Baitarani Power Projects Pvt. Ltd. shall be **Rs.51.49 Crore**.

Further, as per PPA, the tentative amount payable to M/s BPPPL towards SOC & MOC Charges is Rs. 278,368/- for the FY: 2025-26. Therefore, it is requested

before Hon'ble Commission to consider the SLDC charges as year end charges in the present ARR Application of GRIDCO in respect of M/s OPCL.

- d. **Saptadhara SHEP:** Procurement of **57 MU** Energy from 18 MW Saptadhara SHEP of M/s Sri Avantika Power Projects Pvt. Ltd. has been planned at a tariff of 506 P/kWh, as approved by Hon'ble Commission vide Order dated 07.05.2022 in Case No. 100/2021. The Cost of power from M/s. SAPPPL shall be **Rs. 28.84 Crore.**
- e. **Bargarh Head Regulator SHEP:** Procurement of **36 MU** energy from 09 MW Bargarh Head Regulator SHEP of M/s Kakatiya Industries Pvt. Ltd. has been planned at a rate of 506 P/kWh, as per the PPA dated 02.12.2015. The cost of power from M/s. KIPL shall be **Rs.18.22 Crore.**
- f. **Biribati & Kendupatna MHPs of OPGC:** As per the order dated 05.01.2019 of Hon'ble OERC in case No. 35/ 2018, the tariff for procurement of power from 650 kW Biribati & 500 kW Kendupatna Mini Hydel Projects of OPGC has been fixed at Rs. 3.91 /kWh. It is proposed to procure **0.16 MU** of energy during FY 2025 - 26 @ 391 P/kWh, with a total power purchase cost of **Rs. 0.06 Crore.**

118. The details of the Proposed Power Procurement Cost of SHEP Energy during FY 2025-26 is provided below:

Table-31: Procurement & Cost of Power from SHEPs for FY 2025-26

Sl No.	Name of the SHEPs	Installed Capacity (MU)	Proposed Energy (MU)	Rate (P/kWh)	Year End Charges (Rs. Cr.)	Estimated cost (Rs Cr.)
		A	B	C	D	E=D+(B x C)/1000
1	Lower Kolab and Middle Kolab SHEP by M/s Meenaskhi Power Ltd. through PTC	37.00	166.50	368		61.27
2	SAMAL Barrage SHEP by M/s OPCL through PTC	20.00	94.12	480	0.181	45.36
3	OPGC MHP	1.15	0.16	391		0.06
4	Lower Baitarani SHEP by M/s BPPPL	24.00	91.14	565	0.028	51.52

Sl No.	Name of the SHEPs	Installed Capacity (MU)	Proposed Energy (MU)	Rate (P/kWh)	Year End Charges (Rs. Cr.)	Estimated cost (Rs Cr.)
		A	B	C	D	E=D+(B x C)/1000
5	Saptadhara SHEP by M/s APPPL	18.00	57.00	506		28.84
6	Bargarh Head Regulator SHEP by M/s Kakatiya Industries Pvt. Ltd.	9.00	36.00	506		18.22
Total		109.15	444.92	460.9	0.209	205.27

❖ Wind Power Projects:

119. The petitioner GRIDCO is procuring **321.50 MW** of Wind power from different Wind Power Projects through PTC (50 MW) and SECI (271.50 MW). Ministry of Power, Govt. of India has waived off the ISTS Charges and losses for entire lifetime of all the above wind power projects towards meeting non-solar RPO targets through ISTS-connectivity.
120. GRIDCO has executed PSA with SECI on 07.11.2022 to avail 10 MW Wind Power under ISTS Connected Wind Power Projects Scheme, Tranche-XI. Out of contracted capacity of 10 MW, 1.50MW Wind Power is expected to be available during the FY 2025-26. Accordingly, it is proposed to procure **4.80 MU** energy during the complete FY 2025-26. It is submitted that ISTS losses shall be applicable for transmission of the above Wind Power through ISTS network as per Ministry of Power, Govt. of India Order dated 23.11.2021 and 30.11.2021.
121. The details of the Power Sale Agreements executed with PTC India Limited (1 no.) & SECI (5 nos.) to procure 323 MW Wind power towards compliance of non-solar RPO is provided below:

Table-32 : PSA with PTC India & SECI

Sl. No.	Name of Trader	MNRE ISTS – Connected Wind Power Project Scheme	Contracted Capacity	Capacity Commissioned /Expected to be Commissioned	Applicable Tariff *	Date of PSA
			(MW)	(MW)	(P/kWh)	
1	PTC	Tranche – I	50	50	353	20.07.2017
2	SECI	Tranche – II	100	100	272	24.11.2017
3		Tranche – III	50	37.5	251	23.03.2018
4		Tranche – IV	100	84	258	15.06.2018
5		Tranche – VI	50	50	289	22.08.2019
6		Tranche-XI	5.25	1.5	276	07.11.2022
		4.75	Nil	277		
		TOTAL	360	323		

** The applicable tariff is inclusive of PTC/SECI trading margin of Rs.0.07/kWh.*

122. It is submitted that, considering the energy procurement of **962.77 MU** from different Wind Power Projects during FY 2023-24, drawl of **550.8 MU** during the first six months of FY 2024-25 (April'2024 to September'2024), and availability of additional 1.5 MW Wind power from Tranche-XI, GRIDCO proposes to procure **1015.69 MU** of Wind power from PTC & SECI during the FY 2025-26 at an average rate of **280.97 P/kWh**.

123. The details of the Proposed Power Procurement Cost of Wind Energy during FY 2025-26 is provided below:

Table-33: Proposed Power Procurement Cost of Wind Energy for FY 2025-26

Sl No.	Wind Project Scheme	Capacity available to GRIDCO	Proposed Energy	Rate	Estimated cost
		(MW)	(MU)	(P/kWh)	(Rs. Crore)
1	MNRE ISTS-Connected Wind Power Project Scheme, Tranche-I through PTC	50	157.68	353	55.66
2	MNRE ISTS-Connected Wind Power Project Scheme, Tranche -II through SECI	100	306.60	272	83.40

Sl No.	Wind Project Scheme	Capacity available to GRIDCO	Proposed Energy	Rate	Estimated cost
		(MW)	(MU)	(P/kWh)	(Rs. Crore)
3	MNRE ISTS-Connected Wind Power Project Scheme, Tranche -III through SECI	37.5	131.40	251	32.98
4	MNRE ISTS-Connected Wind Power Project Scheme, Tranche -IV through SECI	84	257.55	258	66.45
5	MNRE ISTS-Connected Wind Power Project Scheme, Tranche -VI through SECI	50	157.67	289	45.57
6	MNRE ISTS-Connected Wind Power Project Scheme, Tranche -XI through SECI	1.5	4.80	276	1.32
Total Wind Energy		323	1015.69	280.97	285.37

124. The proposed power availability and power purchase cost from non-solar sources for FY 2025-26 is summarized below and accordingly Hon'ble Commission is requested to approve the proposed procurement.

Table 34 : Proposed Power Procurement Cost of Non-Solar Energy Sources for FY 2025-26

Name of Project	Capacity	Rate	Proposed Energy	Total Amount
	(MW)	(Rs./kWh)	(MU)	(Rs.Cr.)
SHEP:				
Lower Kolab and Middle Kolab SHEP through PTC	37	368	166.50	61.27
SAMAL Barrage SHEP through PTC	20	480	94.12	45.18
OPGC MHPs	1.15	391	0.16	0.06

Name of Project	Capacity	Rate	Proposed Energy	Total Amount
	(MW)	(Rs./kWh)	(MU)	(Rs.Cr.)
SHEP:				
SHEP considered towards HPO				
Lower Baitarani SHEP by M/s BPPPL	24	565	91.14	51.49
Saptadhara SHEP by M/s SAPPPL	18	506	57.00	28.84
Bargarh Head Regulator SHEP by M/s Kakatiya Industries Pvt. Ltd.	9	506	36.00	18.22
Total SHEP	109.15	460.90	444.92	205.06
Wind Power				
Wind through PTC, Tranche-I	50	353	157.68	55.66
Wind through SECI, Tranche-II	100	272	306.60	83.40
Wind through SECI, Tranche-III	37.5	251	131.40	32.98
Wind through SECI, Tranche-IV	84	258	257.55	66.45
Wind through SECI, Tranche-VI	50	289	157.67	45.57
Wind through SECI, Tranche-XI	1.5	276	4.80	1.32
Total Wind	323	280.97	1015.69	285.37
Total Non-Solar	432.15	335.78	1460.61	490.44

Table-35: Proposed Procurement & Cost of Renewable Energy for FY 2025-26

Sl. No.	Renewable Energy Sources	Energy Proposed for FY 2025-26	Total Variable cost	Year End Charges	Total Cost	Proposed Rate
		(MU)	(Rs. Cr.)	(Rs. Cr.)	(Rs. Cr.)	(P/U)
A	Non-Solar	1460.61	490.44		490.44	335.78
B	Solar	3266.99	1028.60	28.56	1057.16	323.59
C	Total	4727.60	1519.04	28.56	1547.60	327.35

Therefore, Hon'ble Commission is kindly requested to approve **Rs.1,547.60 Cr.** towards procurement of **4,727.60 MU** from different RE sources at an average price of **327.35 P/U**.

5.5 Independent Power Producers (IPPs):

125. The Petitioner GRIDCO submits that power is procured from six Independent Power Plants (IPPs) in the state namely M/s. Vedanta Ltd, M/s. GKEL, M/s JITPL, M/s. NAVA

Ltd (erstwhile NBVL), M/s. JSWE (U)L (erstwhile Ind Barath Energy (Utkal) Ltd) and M/s. MTPCL. The brief summary of entitlement of power from these IPPs and their evacuation point is as mentioned below:

Table-36: Summary of PPA with IPPs

Sl. No.	Name of IPP	Location of the project	Installed capacity (MW)	Odisha Share (MW)	Odisha share Ex-Bus Normative (MU)	Network system
1.	M/s. Vedanta Ltd.	Burkhamund, Jharsuguda	2400 (4x600)	25% (@ full cost) + 7%/5% (@ variable cost) of Total Energy Sent Out from the plant or injection from Unit#2 whichever is higher. (*)	5010	STU : 400kV Lapanga Grid S/s.
2.	M/s. GMR Kamalanga Energy Ltd.	Kamalanga, Dhenkanal	1,050 (3x350)	262.5 MW (from STU connected Unit#3 (350 MW))	1832	STU: 400kV Meramundali S/s
3.	M/s. Jindal India Thermal Power Ltd	Derang, Angul	1200 (2x600)	144 MW(**)	1008	CTU: 400kV
4.	M/s. NAVA Ltd.	Kharagprasad , Dhenkanal	60 (1x60)	7.2 MW (***)	44.14	STU: 132kV Kharagprasad S/s.
5	M/s. JSWE(U)L	Sahajbahal, Jharsuguda	339.6 (1x339.6)	40.752 MW (****)	546.19	CTU: 400 kV
6	M/s. MTPCL	Tangi, Cuttack	60 (2x30)	7.2 MW (*****)	48.25	STU:132kV Chandikhole S/s.
	TOTAL		5049.6		8488.58	

Note:

* From Vedanta Ltd, State entitlement is as per Para 35 of OERC order 27-01-2016 in Case No.21 of 2015 i.e. 25% +7%/5% of total energy sent out from the power station or total ex-bus generation from Unit-II whichever is higher.

** State Entitlement from JITPL is 12% of ESO. As JITPL is having linkage coal supply against Unit #1(600MW) only for 72MW of generation as per FSA, thus 12% from U#1 has been shown.

*** State Entitlement from NBVL is 12% of ESO. Availability in MU has been worked out considering normative PLF% and Auxiliary Energy Consumption.

**** State Entitlement from JSWE(U)L is 12% of ESO. Availability in MU has been worked out considering normative PLF% and Auxiliary Energy Consumption.

*****State Entitlement from MPTCL is 12% of ESO. Availability in MU has been worked out considering normative PLF% and Auxiliary Energy Consumption.

126. It is pertinent to submit before Hon'ble Commission that actual supply of power from IPPs is varying from the State's entitlement of power provided under the subsisting Power Purchase Agreements (PPA) during the real time supply of power. Therefore,

there have been substantial difference in actual quantum of power supplied by the IPPs, mainly M/s. Vedanta Ltd. vis-à-vis the quantum of power approved by the Hon'ble Commission in the ARR of GRIDCO as summarised below:

Table -37: Actual vs Approved Power Purchase from IPPs (MU)

IPPs	FY 2020-21		FY 2021-22		FY 2022-23		FY 2023-24		Actual (Avg.)
	OERC	ACTUAL	OERC	ACTUAL	OERC	ACTUAL	OERC	ACTUAL	
M/s. Vedanta Ltd.	3,053.00	2,806.01	3,003.48	2,101.19	2,628.7	3,049.85	3,050	2,773.82	2,682.72
M/s. GKEL	2,167.28	1,769.88	1,844	1,960.32	1,670	1,899.72	1,960.09	1,811.52	1,860.36
M/s. JITPL	1,010.57	0	0	0	0	458.38	512.1	499.59	239.49
M/s. NBVL	-	-	0	3.828	39.66	39.64	40.39	46.951	30.14
M/s.JSWE(U)L	-	-	-	-	-	-	0	25.02	25.02
M/s. MTPCL	-	-	-	-	-	-	-	-	-
Total	6,230.85	4,575.89	4,847.48	4,065.34	4,338.36	5,447.59	5,562.58	5,156.90	4,818.96

127. From above Table, it is evident that, there is a significant gap between the Hon'ble Commission's approval/projection of State's share of power and the actual quantum of power exported by the IPPs to GRIDCO, thus adversely affecting the availability of power with the Petitioner to meet the state demand.

128. Such gap in availability vis-à-vis actual quantum of power supplied by the IPPs impacts the Bulk Supply Price (BSP). Further, during real time operation consequent to non-supply of the requisite quantum by the IPPs, the Petitioner is compelled to depend on high-cost energy sources to meet/cater the State demand. The Petitioner GRIDCO would therefore request the Hon'ble Commission to approve energy availability from IPPs based on realistic levels and direct the IPPs to comply/adhere to the subsisting contracts to supply contracted capacity of power to the Petitioner GRIDCO so as to smoothly manage the State demand with the approved costs.

129. It is humbly submitted that the actual drawl of power from the IPPs during the period Apr-Sept'2024 are as follows:

Table- 38: Actual Power Procurement from IPPs during Apr-Sept, 2024 (MU)

Month	Vedanta	GKEL	JITPL	NAVA	JSWE(U)L	MTPCL
Apr-24	325.66	132.97	41.66	4.32	19.45	-
May-24	271.72	170.72	81.89	4.46	22.36	-
Jun-24	228.65	174.12	83.41	4.27	5.03	-

Month	Vedanta	GKEL	JITPL	NAVA	JSWE(U)L	MTPCL
Jul-24	312.27	177.39	48.54	4.46	17.61	2.10
Aug-24	259.69	174.42	65.59	0.87	20.21	2.28
Sep-24	137.14	173.46	83.66	4.06	15.43	3.90
Total	1535.14	1003.08	404.76	22.44	100.09	8.28

130. It is submitted that, the actual power supplied by Vedanta from State dedicated IPP Unit #2(600MW) is less than the State Entitlement of power. It is submitted before Hon'ble Commission to issue appropriate directions to Vedanta Ltd. for supply of the full State's Share of power to GRIDCO during the FY 2025-26 and honour the directions of Hon'ble Commission issued from time to time.

131. The Petitioner submits that it had requested the IPPs to submit their generation plan and tentative tariff proposal for FY 2025-26 vide letter dated 20.09.2024. In reply, except M/s. MTPCL, other five IPPs have furnished their tentative Generation Plan to GRIDCO. The true copies of the said Generation Plans of M/s. Vedanta Ltd. dated 26.10.2024, GKEL dated 01.10.2024, M/s. JITPL dated 26.09.2004, M/s NAVA Ltd. dated 11.10.2024 and M/s. JSWEUL dated 23.10.2024 are attached herewith as **ED-10**.

❖ **M/s. Vedanta Ltd. (IPP: 600 MW and Conditionally converted CGP 3 x 600MW)**

132. The entitlement of State's share of power as per Hon'ble OERC Order dated 27.01.2016 in Case No. 21 of 2015 which has been confirmed vide order dated 03.05.2023 in Case No. 129 of 2021 is 25%+7%/5% of total energy sent out from the power stations or total ex-bus generation from Unit-II whichever is higher. It is pertinent to mention that in case of non-supply or short supply of power from IPP Unit #2, M/s. Vedanta Ltd. shall supply the requisite quantum of power from its conditionally converted CGP Units as per the aforesaid orders.

133. Hon'ble Commission has approved the quantum of power towards State's share of entitlement in GRIDCO's ARR orders for the respective financial years as per the existing PPA and thereafter as per the order dated 27.01.2016 in Case No. 21 of 2015 in respect of M/s. Vedanta Ltd. The Table below summarizes the quantum approved by

Hon'ble Commission vis-a-vis the actual power supplied by M/s Vedanta Ltd to GRIDCO from the State dedicated Unit#2 (600MW):

Table- 39: Quantum approved by OERC vis-a-vis the actual power supply made by M/s Vedanta Ltd.

FY	Approval of State Demand by Commission (MU)	Quantum of Power available from Vedanta-IPP as approved by OERC (MU)	% Share of Vedanta Power availability	Actual Quantum of power supplied to GRIDCO (MU)	% Share of Vedanta Power actually supplied to GRIDCO against approved quantum	Approved power purchase rate by Commission (P/U)
23-24	38185.57	3011.87	7.89	2773.82	92.10	285.39
22-23	30474.23	2628.70	8.63	3049.85	116.02	279.05
21-22	28791.96	3003.48	10.43	2101.19	69.96	251.99
20-21	29018.76	3053.00	10.52	2806.01	91.91	251.29
19-20	28731.03	5039.45	17.54	747.84	14.84	243.26
18-19	26803.81	5039.45	18.80	978.11	19.41	260.96
17-18	26051.63	5039.45	19.34	1061.52	21.06	237.78
16-17	25492.87	5039.45	19.77	3216.84	63.83	223.10
15-16	25776.23	4199.54	16.29	3414.16	81.30	212.09
14-15	25495.71	4199.54	16.47	3093.07	73.65	207.32
13-14	24058.42	3132.90	13.02	2849.67	90.96	275.00
12-13	24096.98	2612.57	10.84	3027.27	115.87	275.00
11-12	23489.18	3357.12	14.29	1964.55	58.52	275.00
10-11	21003.75	646.23	3.08	468.50	72.50	243.45
AVG.	26962.15	3571.63	13.25	2253.74	63.10	251.48

134. From the above Table, it is evident that average quantum of power availability from the IPP Unit of Vedanta as approved by the Hon'ble Commission was about 13% of total power demand of the State. However, actual supply of power by Vedanta-IPP to GRIDCO in the respective financial years was only 63.10% of availability of power from the IPP Unit as approved by Hon'ble Commission. This means there was short supply of **36.90%** vis-à-vis the approved quantum of power during the above reported period. It is humbly submitted that, in earlier years, the Hon'ble Commission had approved availability of full normative entitlement/State share of power from Vedanta's IPP Unit which has resulted in deriving lower BSP in view of lower rate of procurement from the said IPP Unit which is in operation since last 14 years. The rate/tariff of power is low on account of recovery of capital cost through Annual Fixed Charges comprising of

depreciation, interest on loan, Return on Equity etc. over these 14 years of operation and also due to Linkage Coal available under long term Fuel Supply Agreement with MCL based on long term PPA with GRIDCO (25 years validity). Hon'ble Commission has time and again directed GRIDCO in its ARR orders to avail full entitlement of power from the said IPP. Accordingly, GRIDCO always endeavours to avail the full entitlement of power from the State dedicated IPP Unit of Vedanta since its commercial operation in 2010. However, in view of compensation mechanism stipulated by Hon'ble Commission vide order dated 22.06.2020 in Case No. 68 of 2018, Vedanta prefers to pay compensation instead of supplying power to the State. It is submitted that, in case of non /short supply of power by the IPP Unit, M/s. Vedanta Ltd never schedules and supplies power from its conditionally converted CGP Units, generating power to their full-capacity unlike Unit#2. It is also submitted that, whenever there is any ash disposal difficulty faced by the generating company, it prefers to shut down State dedicated Unit#2 (600 MW) and did not supply power to the State from the conditionally converted CGP Units.

135. Vide letter dated 26.10.2024, Vedanta has intimated that on the basis of allocation of linkage coal under FSA and considering the coal grade (3000~3400 kCal/kg) supplied by MCL, it shall be able to supply net power in the range of 300~350 MW in FY 2025-26. It has further stated that, in view of GRIDCO's consent to procure additional coal and CIL norms to lift additional 20% linkage coal beyond ACQ, it will be able to supply ~ 500 MW and the tentative tariff shall be Rs. 3.11/kWh. In this regard, it is submitted that, in spite of GRIDCO's consent to Vedanta for procurement of E-auction coal during Q1 & Q2 (i.e. Apr'23 to Sep'23) of FY 2023-24 and CIL norms for lifting of additional linkage coal Vedanta has supplied only **256.17 MW RTC average (1123.10 MU)** during the said period.
136. It is submitted that, Vedanta Ltd. is getting credit/debit notes under the FSA based on the grade of GCV of Linkage coal supplied by the coal supplier i.e. MCL. Therefore, Vedanta may not be allowed to take plea of lower GCV of linkage coal to supply power lower than the entitlement of State share under the subsisting PPA and Order of the Hon'ble Commission.

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137. It is submitted that, after issue of short supply of linkage coal and grade slippage, Vedanta is raising issue of difficulties in disposal of Ash generated from the IPP Unit #2 and kept the Unit under shutdown frequently while all the three conditionally converted CGP Units were being operated at full capacity and power so generated was solely utilised to meet its captive consumption at its SEZ Smelter plant. Vedanta did not care to honour the Hon'ble Commission's Orders dated 27.01.2026 in Case No. 21 of 2015 and 03.05.2023 in Case No. 129 of 2021.
138. Hon'ble Commission may kindly consider that, in spite of all kinds of support/cooperation extended by GRIDCO as well as State Government to overcome all sort of difficulties/issues raised by Vedanta from time to time and reimbursement of ash transportation charges by GRIDCO, Vedanta is not supplying State entitlement of power to GRIDCO and unabatedly generating and consuming power from conditionally converted CGP Units at its SEZ Smelter plant.
139. Moreover, when Unit #2 comes into operation, it runs at part-load i.e. maximum at 280 MW to 300 MW. Though no stay order has been obtained by Vedanta against order dated 03.05.2023 in Case No. 129 of 2021 in their Appeal filed before Hon'ble APTEL, Vedanta is not scheduling/supplying any power from its conditionally converted CGP Units when the State dedicated IPP Unit is making short supply/not supplying the requisite quantum of power by violating Commission's Order dated 27.01.2016.
140. It is submitted that Vedanta safeguards its own interest by meeting its Captive Demand from conditionally converted CGP Units at the cost of interest of State's consumers by curbing/ adversely affecting the obligation of GRIDCO in respect of meeting State demand. If Vedanta would have supplied RTC Full Ex-Bus generated Power from Unit #2, such power could have been used to meet State demand and purchasing the high cost Power could have been avoided as the market price often hovers around Rs.10/kWh, mostly during the peak hours. As a consequence, the Petitioner GRIDCO is unable to manage its power procurement with the approved costs and also fails to comply the obligations as envisaged in ARR order by the Hon'ble Commission.
141. In case of non-supply of power by Vedanta Ltd., power will have to be scheduled from the costlier stations as per merit order and therefore there is unforeseen difficulties faced by GRIDCO in arranging power in real time situations in view of shortage of power now

being a common scenario pan India and even the Power Exchanges could not come to rescue to meet the State demand because of non-availability of requisite quantum of power and the State thus becomes exposed to deficit situations. Though compensation for such non/short -supply of power is being paid by Vedanta, but in no way it can replace/compensate the physical requirement of power during real time operation.

142. It is submitted that as per the observation of Hon'ble Commission vide order dated 22.06.2020 in Case No.68 of 2018, since M/s. Vedanta Limited has agreed to compensate GRIDCO for its actual loss/damages due to short supply of power, the opportunity loss as claimed by GRIDCO, which is very difficult to quantify, should not form part of the PPA. However, GRIDCO has the liberty to file separate petition before the Commission when GRIDCO is genuinely affected and the opportunity loss, it claims is quantified. Accordingly, the petitioner's obligation is getting affected due to opportunity loss as well in absence of supply of power by Vedanta as per contract/Hon'ble Commission's order from time to time.
143. In view of the facts stated above, it is humbly prayed before the Hon'ble Commission to direct Vedanta to supply full Ex- bus entitlement of power to the State from IPP Unit or conditionally converted CGP Units as per the terms of subsisting PPA and the subsequent Order in Case No. 21 of 2015 dated 27.01.2016 and order dated 03.05.2023 in Case No.129 of 2021.
144. In view of the above and in order to avoid any distortion in ARR & the consequential effect on the approved BSP to be computed and the differential cost need to be approved by the Hon'ble Commission, and thus, without prejudice, total quantum of supply of power to be availed from Vedanta in FY 2025-26 has been estimated to be **2,865.18 MU only**, considering the IPP's projection of supply of 350 MW of power on Round The Clock (RTC) basis. It is to mention here that, as per OERC Order dated 27.01.2016 in Case No. 21 of 2015 , the entitlement of State's share of power at normative generation (i.e., 85% PLF and 6.55% Auxiliary Energy Consumption) works out to be **5010 MU** of power for FY 2025-26 .

145. It is submitted that, there shall be shortfall to the tune of **2144.82 MU** (approx.) of power from IPP of Vedanta during FY 2025-26, as Vedanta is quite adamant in not supplying entitled quantum towards State share of power to the petitioner GRIDCO.
146. It is submitted that, without prejudice and under protest and in order to avoid over projection of power availability which may lead to distortion in ARR for FY 2025-26, the Petitioner GRIDCO has considered projection as per the projection of Vedanta as well as historical trend of supply of power by the IPP.
147. Considering the State share of entitlement as approved by the Hon'ble Commission as well as subsisting PPA in force, the Petitioner humbly prays before the Commission for approving the projected quantum of **2,865.18 MU** of power from M/s Vedanta Ltd during the FY 2025-26 for State requirement in order to optimize the power procurement cost so as to have lower BSP for the State consumers.
148. It is submitted that, vide order dated 26.12.2023 in Case No.20 of 2020, Hon'ble Commission have passed final tariff order for the IPP of M/s. Vedanta Ltd wherein the Annual Fixed Charges (AFC) for the block period 2019-24 was determined as follows:

Table-40: Annual Fixed Charges (AFC)

FY	2019-20	2020-21	2021-22	2022-23	2023-24
AFC (Rs. Crs)	1,571.65	1,555.72	1,536.39	1,517.57	1,499.51

149. It is submitted that, M/s. Vedanta Ltd is yet to file the tariff application for the current block period i.e. FY 2024-29. Therefore, the Annual Fixed Charge (AFC) for FY: 2025-26 has been considered by the petitioner GRIDCO to be **Rs. 374.8775 Crores** i.e. AFC for FY: 2023-24 provisionally, as determined by the Hon'ble Commission in the MYT Order dated 26.12.2023 in Case No. 20 of 2020. Accordingly, the provisional Fixed Cost/ Unit for FY: 2025-26 in respect of Vedanta's IPP Unit has been computed and considered as per the normative **FC of 89.79 P/kWh**. Therefore, it is humbly prayed before the Hon'ble Commission to consider the same for FY 2025-26, on provisional basis.

150. It is submitted that, as per Regulation 3(ff) of OERC (Terms and Conditions) of Determination of Tariff Regulations, 2020 of Hon’ble Commission. GCV of Coal is to be considered on “As Received” basis for the purpose of determination of Energy Charge Rate (ECR). Considering the “As Billed” GCV data provided by Vedanta in Form -15 Format along with energy bills for the month of April, 2024 to September, 2024, the “As Received” GCV has been derived . Based on “As Received” GCV of Linkage coal, the average ECR works out to be **197.98 Paise /Unit** as shown in table below. Accordingly, the petitioner GRIDCO proposes ECR of **197.98 Paise/Unit** for procurement of power from Vedanta during FY 2025-26.

Table-41 : Energy Charge Rate (ECR) of Vedanta IPP from April-24 to Sept-24

Month	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
LPPF (Rs. /kg)	2.449	2.424	2.477	2.398	2.384	2.370
CVPF (kCal /kg)	3547	3370	3457	3240	3031	2875
GHR (kCal /kwh)	2390	2390	2390	2390	2390	2390
SFC (ml/kWh)	1	1	1	1	1	1
CVSF (kCal/ml)	9.85	9.85	9.85	9.85	9.85	9.85
LPSFi (Rs. /ml)	0.076183	0.076053	0.072858	0.074125	0.074974	0.070384
AUX (%)	6.55	6.55	6.55	6.55	6.55	6.55
ECR (P/U)	184.01	191.33	190.28	196.42	208.32	217.52
Average (P/U)						197.98

Year End Charges of M/s. Vedanta Ltd:

151. The Petitioner submits that considering the total projected drawl of **2,865.18 MU** and auxiliary energy consumption of 6.55%, the estimated Electricity Duty (ED) reimbursable to Vedanta works out to be **Rs.11.05 Crores** (approx..) @55 Paise/kWh.
152. It is submitted that, as per ARR order of SLDC for the last four financial years (FY 2021-22 to FY 2024-25), the annual SOC-MOC charges in respect of Vedanta-IPP were Rs. 0.48 Cr., Rs. 0.51 Cr., Rs. 0.55 Cr. and Rs. 0.70 Cr. respectively. This indicates a year-over-year escalation of 6.42 %, 7.30% and 26.06% in SOC-MOC charges. Therefore, considering an average escalation of 13.26% over the SOC-MOC charges for FY 2024-25, the amount of SOC-MOC charges projected for FY 2025-26 comes to **Rs. 0.79 Crores** in respect of Vedanta, subject to modification as per ARR Order of SLDC for FY 2025-26.

153. It is submitted that as per Order dated 05.06.2024 in Case No. 18 of 2024 GRIDCO has made payment of **Rs. 28,19,60,581** /- towards reimbursement of Ash Transportation Charges to Vedanta for the period from Nov'23 to May'24. During the said period total supply of power to GRIDCO was **2025.176349 MU**. Hence, the average rate of Ash Transportation Charges works out to be **14 Paise/Unit**. Therefore, by considering projected drawl of **2865.18 MU**, the total provisional Ash Transportation Charges for FY 2025-26 comes to **Rs. 40.11 Cr**, subject to actual cost incurred by the IPP. It is submitted that, Vedanta prefers to be inconsistent in supplying State entitlement of power to GRIDCO as per its sweet will and also does not adhere to Hon'ble Commission's order and does not schedule power from the conditionally converted CGP Units in case of low/no supply of power from the State dedicated IPP Unit (#2:600MW). Therefore, the petitioner humbly prays before the Hon'ble Commission to kindly consider to direct the petitioner GRIDCO to reimburse the Ash Transportation Charges to Vedanta, annually instead of month to month basis. Further, M/s. Vedanta Ltd may be directed to submit status report regarding action taken for proper and optimised Ash Utilisation adhering to Ministry of Environment, Govt. of India guidelines from time to time.

154. Thus, the total projected Year End Charges works out to be **Rs. 51.95 Crores** payable to Vedanta for FY 2025-26 as summarised below:

Table-42: Year End Charges of M/s. Vedanta Ltd (IPP Unit)

Description	Amount (in Crs.)
Electricity Duty	11.05
SOC-MOC Charges	0.79
Ash Transportation Charges	40.11
Total	51.95

155. It is submitted that, as per the instant application, the average rate of power procurement from the IPP of M/s Vedanta Ltd. is projected at **305.90 Paise / kWh** i.e. FC: 89.79 P/kWh + ECR: 197.98 P/kWh+ ED & SOC-MOC: 4.13 P/kWh + Ash Transportation Charges: 14.00 P/kWh, which is well within the merit order for procurement of power to meet the State requirement, provided the IPP supplies power to GRIDCO honouring the contract and Hon'ble Commission's order from time to time.

156. The summary of power generation projections and provisional cost of procurement of such power from M/s. Vedanta is as follows:

Table-43: Power Purchase Cost of Vedanta IPP for FY 2025-26

Generator	Energy (MU)	Fixed Charges (Rs. Cr.)	Energy Charges (Rs. Cr.)	Year End Charges (Rs Cr.)	Total Projected Cost (Rs. Cr.)	Rate (P/U)
M/s. Vedanta Ltd	2,865.18	257.26	567.25	51.95	876.46	305.90

Hon'ble Commission is requested to approve the above procurement with the projected cost.

❖ **GMR Kamalanga Energy Ltd. (GKEL) (3 x 350 MW)**

157. It is submitted that, regarding procurement of power from the IPP of GKEL, as per the provision at Clause 2.2(a) of the subsisting Power Purchase Agreement (PPA) dated 04.01.2011, vide letter dated 23.11.2023 (**ED-11**), the petitioner GRIDCO has requisitioned contracted capacity of 262.5MW of power (i.e. 25% of total installed capacity of 1050MW (3 X 350MW)) from the IPP for the block period 25th March, 2024 to 24th March, 2029, as this power is availed at STU and the ECR being computed based on Firm Linkage Coal and SHAKTI Coal comfortably placed within the Merit order of procurement of power to meet the State demand.

158. GKEL submitted vide letter dated 01.10.2024 its generation plan. As per the generation plan, GKEL has considered generation of **1907 MU** during FY: 2025-26 towards State entitlement, which works out to be PLF of **88.5%**. As per the recent tariff order dated 17.05.2024 in Petition No. 407/GT/2020 (**ED-12**), the operational parameters have been fixed as follows:

Table- 44: Operational Parameters of Generating Station of GKEL

Description	Normative Parameters fixed by CERC
Plant Load Factor (%)	85
Auxiliary Energy Consumption (%)	6.25
Gross Station Heat Rate(Kcal/kWh)	2342.03
Transit Loss (%)	0.8

159. Therefore, considering the normative PLF% of 85% and Auxiliary Energy Consumption of 6.25%, the total quantum of generation for FY: 2025-26 has been computed to be 1832 MU. It is to mention here that, as per the provisions of Power Purchase Agreement dated 04.01.2011, all power generated and supplied beyond station PLF of 80% shall be supplied by GKEL at variable cost plus incentive. However, as per the CERC Tariff Regulations effective from time to time and applicable for IPP of GKEL, all power generated and supplied beyond normative PLF of 85% is to be considered at Energy Charge Rate(ECR)/Variable Cost plus incentive as applicable and for FY:2025-26, the same principle shall be followed. It is to note here that, the station PLF% for FY: 2023-24 was 82.2%.
160. In view of the aforesaid facts, GRIDCO proposes procurement/purchase of **1907 MU** of energy from GKEL during FY: 2025-26 as per the Generation Plan submitted by the IPP.
161. It is to submit that vide its order dated 17.05.2024 in Petition No. 407/GT/2020 CERC had passed the final Tariff Order for the control period 2019-24 in respect of procurement of contracted capacity of 262.5 MW of power by GRIDCO from GKEL. As per the said tariff order, the Annual Fixed Charges (AFC) approved by CERC in the above tariff order for the control period 2019-24 is given below:

**Table-45: Annual Fixed Charges of GMR approved for the Period 2019-24
(Rs. Cr.)**

Item	2019-20	2020-21	2021-22	2022-23	2023-24
AFC	1,261.42	1,238.95	1,219.79	1,197.77	1,182.65
GRIDCO's Share of AFC (25%)	315.36	309.74	304.95	299.44	295.66

162. Accordingly, GRIDCO has considered the Annual Fixed Charges (AFC) of FY: 2023-24 as provisional AFC for FY 2025-26 i.e. **Rs. 295.66 Cr./annum**.
163. It is submitted that, as per the Order dated 20.12.2019 of Hon'ble APTEL in Appeal No. 135/2018 & 54/2018, the firm linkage coal, SHAKTI coal and alternate source of coal procured by GKEL has to be apportioned on pro rata basis among all the beneficiaries of GKEL. The said Order of APTEL has been challenged by GRIDCO before Hon'ble Supreme Court of India on dated 13.10.2020 vide Civil Appeal No 3429 of 2020 and matter is sub-judice till date. Therefore, in order to comply with the Order of APTEL the petitioner has provisionally accepted the order of APTEL under protest.

164. Based on the aforesaid order of APTEL, the Petitioner GRIDCO is making payment of monthly Energy Charges to GKEL considering first the Firm Linkage Coal and SHAKTI Coal and alternate source coal (if required to meet power supply to GRIDCO, under protest). Accordingly, the average of actual monthly Energy Charge Rate (ECR) for the period April-24 to Sept-24 based on use of Firm Linkage, SHAKTI and other sources coal by GKEL, has been worked out to be **184.87 Paise /kWh** and the same is being proposed as Energy Charge Rate for FY 2025-26.

Year End Charges of M/s. GKEL:

165. Year End Charges (YEA) accrue towards reimbursement of Electricity Duty (ED), SOC & MOC Charges of SLDC and Ash Transportation Charges, payable to GKEL. The proposed Year End Charges (YEA) for FY: 2025-26 are as follows:

Table-46: Projected Year End Charges (YEA) of GKEL for FY: 2025-26

Description	Approx. Figures (Rs. Crs)
Electricity Duty	6.99
SOC & MOC Charges	0.30
Ash Transportation Charges	16.75
Total	24.05

166. Accordingly, the total provisional power purchase cost towards procurement of power from GKEL has been estimated as follows:

Table-47: Power purchase cost of GKEL (IPP) for FY 2025-26

Generator	Energy (MU)	Annual Fixed charges (AFC) (Rs. Cr)	Energy Charges (Rs. Cr.)	Year End Charges (Rs Cr.)	Total Projected Cost (Rs. Cr.)	Rate (P/U)
GKEL	1907	295.66	352.55	24.05	672.26	352.52

❖ Jindal India Thermal Power Ltd (JITPL) (2 x 600 MW)

167. As per the subsisting Power Purchase Agreement dated 05.01.2011 and as because no Coal Block has been allocated within the State, JITPL is required to supply contracted

energy of 12% of Energy Sent Out (ESO) and all infirm power from its power plant at Energy Charge Rate (ECR) to GRIDCO.

168. It is submitted that JITPL started supplying power to GRIDCO with effect from 29.04.2022 as per interim order dated 29.04.2022 of Hon'ble High Court of Orissa in WPC No. 18150 of 2018. It is submitted that, GRIDCO filed Contempt Petition No. 6451 of 2023 before the High Court due to violation of Interim Order dated 29.04.2022 as JITPL was supplying 60MW of power only instead of 120MW as directed by Hon'ble High Court in the said interim order dated 29.04.2022. Subsequently, JITPL commenced supply of 120MW Power to GRIDCO w.e.f. 01.05.2024 based on the Interim Orders dated 29.04.2022 and 03.05.2024 passed by Hon'ble High Court of Orissa and GRIDCO is getting 116 MW on RTC basis after Central Sector Loss.
169. Vide interim order dated 29.04.2022, the Hon'ble High Court of Odisha has fixed a provisional Tariff of Rs.3.36/ kWh, on the further condition of payment of 50% of the transmission cost of the demand raised by the CTU subject to the cap of Rs.5 (Five) Crore payable by GRIDCO. The transmission cost of Rs.5 Crore was exhausted in September' 2022. However, after payment of Rs.5 Crore towards transmission charges, GRIDCO is now making payment of energy charges only at provisional tariff of Rs.3.36/ kWh. Further, based on extension of Interim order dated 29.04.2022 by the Hon'ble High Court, GRIDCO is requesting MCL to continue supply of Linkage Coal to JITPL till next date of hearing.
170. Vide letter dated 20.09.2024, GRIDCO requested JITPL to furnish their Generation Plan for FY: 2025-26. Vide letter dated 26.09.2024, JITPL submitted that, it shall supply 120 MW of power at Rs.3.36/Unit on provisional and interim basis as per the order dated 29.04.2022 and 03.05.2024 passed by Hon'ble High Court of Orissa in W.P.(C) No. 18150 of 2018. Further, JITPL has informed that one of its Unit (i.e. Unit#1) will be out of operation for Annual Overhauling for a period of 31 days.
171. Accordingly, considering supply of 120MW power on Round The Clock (RTC) basis to GRIDCO, Annual Overhauling of one Unit for 31 days and average ISTS loss of 3.46% (from Apr'2024 to Oct'2024), the estimated quantum of power has been worked out to be **972MU** , is to be supplied by JITPL during FY:2025-26.

172. Considering the provisional tariff of Rs.3.36/Unit as per the interim direction of the Hon'ble Orissa High Court vide Order dated 29.04.2022 (continuing till date), the power purchase cost for **972 MU** of power to be availed from JITPL has been calculated to be **Rs.326.59 Crores** (provisional) as mentioned below:

Table-48: Power purchase cost of JITPL for FY 2025-26

Generator	Energy (MU)	Energy Charge Rate (P/U)	Projected Cost (Rs. Cr.)
JITPL	972.00	336.00	326.59

173. It is submitted that, the above projection of power from JITPL and cost thereof is subject to extension of interim order dated 29.04.2022 of Hon'ble Orissa High Court which has been extended up to 24.01.2025 vide interim order dated 04.10.2024 in W.P.(C) No. 18150 of 2018.

❖ **M/s. NAVA Limited (1 X 60 MW):**

174. It is submitted that, the Petitioner GRIDCO has entitlement of 12% of Energy Sent Out from 1 X 60 MW generating station of M/s. NAVA Ltd as per the subsisting long term PPA, to be procured at Energy Charge Rate (ECR) only. Further, based on the consent of the petitioner GRIDCO, M/s. NAVA Ltd has been allocated SHAKTI Linkage Coal by Ministry of Coal, Govt. of India under Clause B (ii) of SHAKTI Policy, 2017. In this regard, required agreement dated 04.04.2024 was executed with M/s. NAVA Ltd, duly approved by Hon'ble Commission vide order dated 06.06.2024 in Case No.32 of 2024. Subsequently, M/s. NAVA Ltd has signed Fuel Supply Agreement (FSA) dated 19.08.2024 with MCL and is availing SHAKTI Coal since August, 2024.
175. Vide E-mail dated 11.10.2024 the M/s. NAVA Ltd submitted its generation plan and tariff to be considered for FY 2025-26, filed herewith as **ED-13**. As per the generation plan submitted, M/s. NAVA LTD has considered generation of **38.74 MU** towards State entitlement. It is submitted that, considering the Auxiliary Energy Consumption (AEC) as 10%, as fixed in the Tariff order of the IPP, the quantum of State entitlement of power i.e. 12% of Energy Sent Out works out to be **39.18 MU**. The Petitioner GRIDCO intends

to procure the entire entitled quantum of **39.18 MU** of power from M/s. NAVA Ltd during FY 2025-26.

176. It is submitted that, M/s. NAVA Ltd is utilising various types of domestic coal for supply of power to the petitioner. However, from August, 2024, supply of SHAKTI linkage coal has been commenced under the FSA signed with MCL which shall be utilised for supply of a major percentage of power to GRIDCO. The average 1st six months provisional Energy Charge Rate (ECR) of FY 2024-25 works out to be **228.05 P/kWh** and this ECR has been considered for projecting the power purchase cost for FY 2025-26 in respect of the IPP. Accordingly, the approximate power purchase cost has been calculated and projected to be **Rs. 8.93 Crores** as summarised below:

Table-49: Power purchase cost of NAVA Ltd IPP for FY 2025-26

Name of the Power Stations	Energy (MU)	AEC at 10% (MU)	Net Generation (MU)	Odisha Share (12%) (MU)	Total Cost (Rs. Cr.)
NAVA LTD	362.74	36.274	326.46	39.18	8.93

❖ **M/s. JSW Energy (Utkal) Limited: (2 X 350 MW)**

177. It is submitted that, erstwhile M/s. Ind-Barath Energy (Utkal) Limited (IBEUL) having installed capacity of (2 X 350MW) of thermal power plant (IPP) at Sahajbahal, Odisha. The Commercial Operation Date (COD) of the 1st Unit (350MW) was declared with effect from 20.07.2016 with a de-rated capacity of 339.6MW.
178. However, the plant could not be operational and could not commence supply of 12% of energy sent out i.e. entitled quantum of power (as coal block has not been allocated within the State) to GRIDCO due to financial stress and the company went into Corporate Insolvency Resolution process under the Insolvency and Bankruptcy Code, 2016 at National Company Law Tribunal, Hyderabad (NCLT). M/s. JSW Energy Limited (JSWEL) had submitted a Resolution Plan which was approved by NCLT vide order dated 25.07.2022 and finally JSWEL has completed the acquisition of IBEUL on 28.12.2022. Now erstwhile IBEUL is a subsidiary of JSWEL. Subsequently, a Supplemental MOU dated 24.11.2023 was signed between Govt. of Odisha and IBEUL. It is submitted that, the name of the IPP has been changed from M/s. Ind Barath Energy

(Utkal) Limited to M/s. JSW Energy (Utkal) Limited with effect from 20.05.2024. The revival of the dedicated transmission line upto CTU connectivity is in progress and the Unit#1(339.6 MW) of JSWEUL was synchronised with the grid on 23.01.2024.

179. As an interim arrangement, the IPP is supplying 12% of Energy Sent Out to GRIDCO since 21.02.2024 as per entitlement in the PPA , delivered at CTU bearing all transmission losses and charges (i.e. GNA Charges & Losses) as stipulated in the Supplementary PPA dated 07.06.2017 executed between the IPP and GRIDCO.
180. It is submitted that, the IPP has filed Case No.43 of 2024 before Hon'ble OERC for determination of tariff in respect of 12% power supply to GRIDCO. Pending final tariff order, the provisional tariff of **Rs.3.14/Unit** has been mutually agreed by GRIDCO and M/s. JSWEUL subject to adjustment as per the final tariff order for supply of contracted energy to GRIDCO. It is submitted that, the petitioner is making payment on verification of the actual ECR claimed in monthly basis by the IPP and coal fuel data provided in prescribed format. Accordingly, the proportionate GNA Charges and Losses are adjusted from the cost of power payable to the IPP in a month.
181. JSWEUL Vide mail dated 23.10.2024 furnished their Generation Plan filed herewith as **ED-14**. The IPP has indicated the shutdown period of 15 days during July'2025 in respect of Unit#1 and has projected generation from its 2nd Unit (350MW) during FY 2025-26. It is submitted that, M/s. JSWEUL has considered projection of **565.97 MU** towards State entitlement @12% of Energy Sent Out from their generating station at 85% PLF and AEC% of 6.25% (as per tariff order dated 30.07.2016 in Case No.21 of 2016) whereas sales to GRIDCO has been projected to be **524.29MU** after transmission loss. It is submitted that, considering the Contracted Energy i.e.12% of Energy Sent Out from both the Units of JSWEUL, outage period of 15 days of Unit#1, Auxiliary Energy Consumption (AEC%) of 6.25% , 85% PLF and Central Sector Loss of 3.46% , the available quantum of power works out to be **546.159 MU**. The Petitioner GRIDCO therefore intends to procure the entire quantum of **546.159 MU** of power during FY 2025-26 from the IPP.
182. It is submitted that, determination of tariff i.e. indicative Energy Charge Rate (ECR) in respect of JSWEUL is sub-judice before Hon'ble Commission in Case No.43 of 2024

filed by JSWEUL and shall be finalised shortly. It is to submit that, the IPP has not been allocated any concessional coal. In view of the fact that, erstwhile IBEUL went to NCLT, the old Fuel Supply Agreement (FSA) has been terminated and as per intimation by CEA, the said FSA cannot be revived anymore. Considering the average of actual ECR i.e. **290 Paise/Unit** (provisional) during the period from April'24 to September'24, the projected power purchase cost for FY2025-26 has been worked out to be **Rs.158.39 Crores**.

Table-50: Power Purchase Cost of JSWEUL IPP for FY 2025-26

Name of the Power Stations	Energy (MU)	AEC at 6.25% (MU)	Net Generation (MU)	Projected Sales @85%	Odisha Share (12%)after Central Sector Loss of 3.46% (MU)	Total Cost (Rs. Cr.)
JSWEUL	6041	492	5549	4716.65	546.159	158.39

❖ **M/s. Maadurga Thermal Power Company Limited (MTPCL) (2x30MW)**

183. It is submitted that as per Power Purchase Agreement (PPA) dated 30.12.2010 between GRIDCO and M/s. MTPCL, the Petitioner has the entire share of “infirm power” as well as 12% of firm power sent out from the 2x30 (60) MW generating station of M/s. MTPCL at Energy Charge Rate (ECR) only. The Petitioner-GRIDCO shall procure the entire entitled quantum of power available from the IPP Unit of M/s. MTPCL. The Petitioner GRIDCO vide letter dated 20.09.2024, requested the IPP, MTPCL to furnish their Generation Plan for the FY 2025-26, and the response is not received. Therefore, considering Aux. Energy Consumption of 10% and normative PLF of 85%, net drawal from the said IPP of M/s. MTPCL for FY 2025-26 is projected to be **48.25 MU**.

184. It is to submit that, GRIDCO has been procuring 12% of Energy Sent Out from the IPP Unit at single part provisional tariff i.e. ECR of **304.60 Paise /kWh** (based on information/data provided by the IPP in respect of landed cost and GCV of coal and oil),

subject to finalisation after determination of tariff by Hon'ble OERC. Accordingly, the power purchase cost has been computed and estimated to be **Rs. 14.70 Crore.**

Table-51: Power purchase cost of MTPCL- IPP for FY 2025-26

Generator	Gross Generation @85% PLF (MU)	AEC at 10% (MU)	Net Generation (MU)	Odisha Share (12%) (MU)	ECR (P/U)	Total Cost (Rs. Cr.)
M/s. MTPCL	446.76	44.68	402.08	48.25	304.60	14.70

185. The summary of projected energy availability and costs of power from all the IPPs is as follows:

Table-52: Energy availability from IPPs for FY 2025-26

Name of the Power Stations	Energy (MU)	Fixed Charges (Rs. Cr.)	Energy Charges (Rs. Cr.)	Year End Charges (Rs Cr.)	Total Projected Cost (Rs. Cr.)	Unit Rate (P/U)
M/s. GKEL	1907.00	295.66	352.55	24.05	672.26	352.52
M/s.Vedanta Ltd.	2865.18	257.26	567.25	51.95	876.46	305.90
M/s. NAVA Ltd	39.18		8.93		8.93	228.05
M/s. JITPL	972.00		326.59		326.59	336.00
M/s JSWE(U)L	546.159		158.39		158.39	290.00
M/s. MTPCL	48.25		14.70		14.70	304.60
Total	6377.76	552.93	1428.40	76.00	2057.33	322.58

5.6 Central Hydro Stations:

❖ Chukha HEP- Bhutan

186. GRIDCO has a share of 14.61% (Firm Allocation: 12.96% & Unallocated Share percentage: 1.65 %) in the Chukha Hydro Electric Project as per latest ERPC allocation Order dtd.29.09.2024 (**ED-15**) which is effective from 01.10.2024. It is observed that the drawl pattern of power from Chukha HEP is decreasing from FY :2020-21 onwards . Clarification in this regard is being sought by the Petitioner from PTC vide letter dtd. 02.11.2024. It is ascertained that the decrease in the drawl pattern of power from above

Stations is mainly due to the increase in the internal demand of Bhutan. In view of shortfall in supply. Thus, the Petitioner projects **142 MU** from Chukha HEP considering the drawl pattern of Chukha in the FY-2024-25 by segregating the drawl in two parts.(from April to September and from October to March). The Petitioner submits the detailed calculation of power generation from Chukha is as below:

Table-53 : Drawl from Chukha HEP (in MU)

FY	April-Sept	Oct-Mar	Total
2021-22	194.340	81.961	276.301
2022-23	192.092	47.930	240.023
2023-24	119.895	21.414	141.309
Avg Drawal of last 3 years	168.776	50.435	219.211
2024-25	125.207	22.363	147.569
2025-26			147.569
Central Transmission Loss@3.46%. (MU)			142.46
Proposed Drawl (MU)			142

187. The drawl of power from Chukha HEP from April'24 to Sept'24 is **125.207 MU**. The anticipated energy drawl from Oct'24 to Mar'25 is **22.63MU** ($(21.414/119.895)*125.207$). Accordingly, GRIDCO proposes to draw **142MU** during **FY 2025-26** considering the drawal of FY: 2024-25 and Central Transmission Loss of **3.46%**.
188. The petitioner has considered the rate of **314.90 P/U** (including Trading Margin @4 P/U) as per Office Memorandum dtd. 08.03.2018, issued by Ministry of External Affairs, Government of India. Copy of the same along with the PTC letter No. C/PTC/Chukha/7388 dtd.13.03.2018 to this effect respectively, are enclosed as **ED-16**.
189. Considering Central Transmission Loss of @ 3.46%, the effective power purchase cost from Chukha Hydro Station for projected drawal of **142 MU** works out to **Rs.44.72 Crore@ 314.90 P/U** for **FY 2025-26** as shown in the table below:

**Table-54: Proposed Power Purchase Quantum & Cost for Chukha HEP during
FY 2025-26**

Particulars	Unit	Amount
Proposed Energy Drawal	MU	142.00
Energy Charge including PTC INDIA charge P/U	P/U	304
Effective Energy Charge rate considering CTU Loss @3.46%	P/U	314.90
Power Purchase Cost	Rs. Crore	44.72

It is humbly submitted before the Hon'ble Commission to kindly consider to approve the above procurement for FY 2025-26.

❖ **Tala HEP:**

190. It is submitted that GRIDCO has a share of 4.25% from the installed capacity of 1020 MW of the Tala Hydro Electric Project as per latest ERPC allocation Order dtd.29.09.2024 (**ED-17**) which is effective from 01.10.2024. It is observed that the drawl pattern of energy from Tala HEP is decreasing from FY: 2020-21 onwards . PTC vide letter dtd.02.11.2024 has been requested for clarification in this regard. It is ascertained that the decrease in the drawl pattern is primarily due to the increase in the internal demand of Bhutan. In view of the lower drawal pattern, the Petitioner projects **31 MU** from Tala HEP considering the drawl pattern of Tala in the FY-2024-25 by segregating the drawl in two parts.(from April to September and from October to March).The Petitioner submits the detailed calculation of power generation from Tala is as below:

Table-55 : Drawl from Tala HEP (in MU)

FY	April-Sept	Oct-Mar	Total
2021-22	93.93	23.73	117.6613
2022-23	87.40	13.55	100.9481
2023-24	49.75	2.75	52.51
Avg Drawal of last 3 years	77.03	13.34	90.37
2024-25	30.07	1.66	31.74
2025-26			31.74
Central Transmission Loss @3.46%			30.64
Proposed Drawl			31

191. The drawl from Tala HEP in the FY: 2024-25 from the month of April'24-Sept'24 is 30.0732551 MU. The anticipated energy drawl from Oct'24 to Mar'25 is 1.664920 MU $((2.75/49.75)*30.7)$. GRIDCO proposes to draw **31 MU** during **FY 2025-26** considering drawl of FY: 2024-25 and Central Transmission Loss of **3.46%**.
192. GRIDCO has considered the power purchase rate of **227 P/U** (including Trading Margin @4 P/U) for drawl of power based vide PTC letter No. C/PTC/Tala/14169 dated 11th November 2021, enclosed as **ED-18**.
193. Considering Central Sector Transmission Loss @ 3.46 %, the effective power purchase cost from Tala HEP for **31 MU @ 234.14 P/U** comes to **Rs.7.29 Crore** for the ensuing year. The detailed calculation is provided in the table below:

Table- 56: Proposed Power Purchase & Cost from Tala HEP during FY 2025-26

Particulars	Unit	Amount
Proposed Energy Drawl	MU	31.00
Energy Charge including PTC charge	P/U	227.00
Effective Energy Charge rate considering CTU Loss of @ 3.46%	P/U	235.14
Power Purchase Cost	Rs. Crore	7.29

Therefore, Hon'ble Commission may kindly consider to approve the above procurement for FY 2025-26.

❖ **Mangdechu HEP:**

194. GRIDCO has a share of 10.796 % (Firm Allocation: 9.33% & Unallocated Share percentage: 1.47 %) of installed capacity of 720MW equivalent to share of 77.736 MW as per latest ERPC allocation vide Order dtd.29.09.2024 (**ED-19**) which is effective from 01.10.2024. It is observed that the drawl pattern of power from the Mangdechu HEP is in decreasing trend since FY: 2020-21. PTC has been requested vide letter dtd.02.11.2024 seeking clarification towards lower supply to the state. It is ascertained that there is increase in the internal demand of Bhutan resulted in decrease in supply to the beneficiary entities. The detailed drawal pattern with anticipated projection from Mangdechu HEP is furnished below:

Table-57: Drawl from Mangdechu HEP (in MU)

FY	April-Sept	Oct-Mar	Total
2021-22	235.15	71.78	306.93
2022-23	236.46	59.40	295.87
2023-24	229.27	34.09	263.36
Avg Drawal of last 3 years	233.63	55.09	288.72
2024-25	224.28	33.35	257.63
2025-26			257.63
Central Transmission Loss @3.46%			248.72
Proposed Drawl			249

195. In view of the above, the Petitioner projects **249 MU** of power from the Mangdechu HEP considering the drawl pattern during the FY-2024-25 by segregating the drawl in two parts.(from April to September and from October to March). The drawl from Mangdechu HEP in the FY: 2024-25 from the month of April'24-Sept'24 is 224.28 MU. The anticipated energy drawl from Oct'24 to Mar'25 is 33.35 MU $((34.095/229.27)*224.28)$. GRIDCO proposes to draw **249 MU during FY 2025-26** considering the drawl of FY:2024-25 and Central Transmission Loss of 3.46%.
196. It is submitted that approved rate of 461 P/U has been considered for power to be availed from Mangdechu HEP. Copies of the protocol to the Agreement dtd.23rd April 2019 between the Govt. of the Republic of India & the Royal Govt. of Bhutan regarding Mangdechu HEP & the Power Sale Agreement GRIDCO, dtd. 30.08.2019 executed with PTC & enclosed herewith as **ED-20**.
197. Considering the Central Sector Transmission Loss @ 3.46%, the effective power purchase cost from Mangdechu HEP for **249 MU @ 477.52 P/U** works out to be **Rs.118.90Crore** for FY 2025-26. The cost projection is shown in the Table below:

Table-58: Proposed Power Purchase & Cost from Mangdechu HEP for FY 2025-26

Particulars	Unit	Amount
Proposed Energy Drawl	MU	249.00
Energy Charge including PTC INDIA charge P/U	P/U	461
Effective Energy Charge rate including CTU Loss of 3.46%	P/U	477.52
Power Purchase Cost	Rs. Crore	118.90

Therefore, Hon'ble Commission may kindly consider to approve the above procurement for FY 2025-26.

❖ **Kurichu HEP:**

198. ERPC vide letter dtd. 15.02.2023 have re-allocated the power of Central Generating Stations of Eastern Region and Bhutan HPS upon Uniform allocation of unallocated power among ER beneficiaries from Eastern Region pool. The same has been considered as per the directives of CEA and Ministry of Power. The revised allocation has been implemented with effect from 00:00 Hrs of 17.02.2023. Accordingly, GRIDCO does not having any earlier firm allocation. Further, GRIDCO has been allocated with unallocated share allocation of 1.02% corresponding to 0.611 MW. As per the latest ERPC allocation Order dtd.29.09.2024, effective from 01.10.2024, from Kurichu Hydro Electric Project, Bhutan .However , it is quite pertinent to submit that there is no supply of power by Kurichhu HEP during FY:2024-25 i.e., up to Oct'24.However, considering the allocation, the Petitioner proposes **1 MU** drawl from Kurichu as per last year approval of Hon'ble OERC.Considering Central Sector Transmission Loss @ 3.46%, the effective power purchase cost from Kurichu HEP for 1 MU @ 236.17P/U works out to be **Rs.0.236 Crore** for FY 2025-26 as mentioned in the Table below:

Table- 59: Proposed Power Purchase & Cost from Kurichu HEP in FY 2025-26

Particulars	Unit	Amount
Proposed Energy Drawl	MU	1.00
Energy Charge including PTC INDIA charge P/U	P/U	228.00
Energy Charge including CTU Loss of 3.46%	P/U	236.17
Total Rate	P/U	236.17
Power Purchase Cost	Rs. Crore	0.236

❖ **Teesta – V HEP:**

199. It is pertinent to submit that due to heavy rainfall on 4th & 5th October 2023, the power station was completely damaged. It is difficult to predict the total revival period & the time by which the Teesta-V station will become operational during the ensuing FY: 2025-26. Therefore, the Hon'ble Commission may kindly consider that, the petitioner

has not considered any drawal of power during FY: 2025-26 from Teesta-V. However, regarding claim of fixed charges by the generator, it is uncertain at present in absence of any correspondence in this regard from the NHPC. GRIDCO has requested NHPC seeking information regarding expected revival date of the power plant and after receipt of the same, the Commission shall be duly apprised of the projections for the ensuing tariff year.

❖ **Rangit HEP:**

200. ERPC vide letter dtd. 15.02.2023 have re-allocated the power from Rangit Hydro Power Station of NHPC Ltd. from where GRIDCO does not have any earlier firm allocation of power. As per the latest ERPC allocation Order dtd.29.09.2024, effective from 01.10.2024, GRIDCO has an unallocated share allocation by ERPC w.e.f 17.02.2023 of 2.08% including State share @12% towards free power corresponding to 1.10 MW from Rangit Hydro Electric Project of NHPC. The Petitioner proposes for drawl of around **6 MU** during the **FY: 2025-26** considering the design energy, 12% free power to the home state, CTU Losses of 3.46% & latest share allocation made by ERPC. The projected drawl from the HEP is as below:

Table -60 : Proposed Drawl from Rangit HEP for FY 2025-26

Particulars	MU
Design Energy	338.61
Annual saleable Energy available considering 1.20% Auxiliary energy consumption and 12% free energy for home State	294.40
GRIDCO Share (%)	2.08%
Availability	6.123542
Proposal drawl after deducting Central Transmission Loss @ 3.46%	5.91
Proposed drawl (MU)	6.00

201. The CERC vide Order dtd.22.06.2023 have approved AFC of Rangit Hydro Electric Project for the Control Period 2019-24. NHPC have not filed the Tariff Petition for the Control Period 2024-29. The Petitioner proposes the AFC for FY-2025-26 as per the AFC approved for Rangit for the FY: 2024-25 i.e. Rs.118.5011Cr. With GRIDCO's share of 2.08% (including State share of 1.833% and Free power @ 12% of Sikkim & considering **3.46%** CTU Loss), procurement of energy from the Station is calculated to

be around 6 MU at a cost of Rs.2.46 Crore (50% considered as fixed cost/capacity charges and balance 50% considered as variable cost) during FY 2025-26.

Table -61: Power purchase cost of Rangit for FY:2025-26

Station	Energy (MU)	Fixed charges (Rs. Cr.)	Variable charges (Rs. Cr.)	Total Cost (Rs. Cr.)	Rate (P/U)
Rangit	6.00	1.23	1.23	2.46	410

202. The summary of estimated power procurement & cost the central hydro stations of NHPC & Bhutan are as follows:

Table-62: Summary of Purchase cost from Central Hydro station for FY 2025-26

Station	Energy (MU)	Fixed charges (Rs Cr.)	Variable charges (Rs Cr.)	Total projected cost (Rs. Cr.)	Rate (P/U)
Chukha	142		44.72	44.72	314.90
Tala	31		7.29	7.29	235.14
Mangdechhu	249		118.90	118.90	477.52
Kurichu	1		0.24	0.24	236.17
Rangit	6	1.23	1.23	2.46	410.00
Total	429	1.23	172.37	173.60	404.67

The Hon'ble Commission may kindly consider the above and approve the procurement from the above hydro stations at the projected cost.

5.7 Central Thermal Generating Stations (CGS):

203. It is submitted that , the State is allocated power from the various thermal Generating Stations of NTPC to meet the State demand. GRIDCO submits herewith before the Hon'ble Commission the details of proposed energy drawl, proposed costs from the Central Thermal Generating Stations (CGS) of NTPC along with the issues that would pertinently affect the ARR determination process for kind consideration while approving ARR for the ensuing FY: 2025-26.

204. It is submitted that, the Auxiliary Energy Consumption (AEC), Specific Fuel Oil Consumption (SFC), Gross Station Heat Rate (SHR), Normative availability, etc. have been considered based on Hon'ble Central Electricity Regulatory Commission (hereinafter called as the "CERC") (Terms & Conditions of Tariff) Regulations, 2024 effective from 01.04.2024 to 31.03.2029. The details of the above parameters are submitted in the prescribed TRT-10 for approval of the Hon'ble Commission. It is to mention here that, the Norms of Operation for Normative Annual Plant Availability Factor % (NAPAF%) for all the Thermal Generating Stations have been considered as 85% as per CERC (Terms & Conditions of Tariff) Regulations, 2024.
205. All India Transmission Losses have been considered as per the CERC (ISTS Charges and Losses), Regulation 2020 implemented with effect from 01.11.2020. Accordingly, average month wise Transmission Loss for the period from April'2024 to September'2024 has been derived based on the weekly transmission losses uploaded by NLDC as tabulated below:

Table-63: Six Month (April-24 to Sept-24) Average Transmission Loss (%)

Month	CTU Loss (%)
Apr-24	3.55%
May-24	3.34%
Jun-24	3.46%
Jul-24	3.70%
Aug-24	3.55%
Sep-24	3.17%
Average Loss (%)	3.46%

The detailed calculation sheet towards month wise transmission loss from April'24 to Sept'24 is submitted as enclosure at **ED-21**.

206. Further, the present percentage (%) of share allocation of GRIDCO from various NTPC Stations has been considered as per the latest share allocation vide letter dated. 29.09.2024 w.e.f 00:00Hrs of 01.10.2024, of ERPC (enclosed as **ED-22**) is tabulated below for reference.

Table-64: Share allocation of Power based on ERPC notification dt.29.09.2024

Sl. No.	Name of the Generator	Installed Capacity (in MW)	Firm Share	Bundled Share	Unallocated Share	Total Share	Firm Share	Bundled Share	Unallocated Share	Total Share
			(in %age)				(in MW)			
1	FSTPS-I & II (3x200+2x500)	1600	0.00%	0.55%	1.21%	1.762%	0.00	8.86	19.33	28.18
2	FSTPS-III (1x500)	500	16.62%	0.53%	1.50%	18.650%	83.10	2.65	7.50	93.25
3	KHSTPS-I (4x210)	840	0.00%	0.54%	1.10%	1.636%	0.00	4.50	9.24	13.74
4	KHSTPS-II (3x500)	1500	2.05%	0.57%	0.76%	3.38%	30.75	8.56	11.42	50.73
5	TSTPS-I (2x500)	1000	31.80%	0.54%	1.08%	33.43%	318.00	5.44	10.83	334.28
6	TSTPS - II (4x500)	2000	10.00%	0.00%	0.00%	10.00%	200.00	0.00	0.00	200.00
7	DSTPS -I (2x800)	1600	50.00%	0.00%	1.82%	51.82%	800.00	0.00	29.08	829.08
8	Barh-I (2x660)	1320	10.56%	0.00%	1.61%	12.16%	139.33	0.00	21.20	160.52
9	Barh-II, Patna, Bihar (2x660)	1320	0.00%	0.00%	1.74%	1.74%	0.00	0.00	22.92	22.92
10	MTPS (2x195)	390	7.70%	0.00%	1.15%	8.85%	30.03	0.00	4.49	34.52
11	Nabinagar STPP -I (3x660)	1980	0.00%	0.00%	0.79%	0.79%	0.00	0.00	15.62	15.62
12	North Karanpura (1X660)	1320	20.00%	0.00%	1.83%	21.83%	264.00	0.00	24.20	288.20
Total Central Thermal							1865.21	30.01	175.84	2071.05

207. In the instant Petition, the normative energy availability from the Central Thermal Generating Stations (CGS) of NTPC for GRIDCO during FY 2025-26 have been estimated by considering the existing share allocation of GRIDCO from the respective stations with Normative Plant Load Factor at 85%, Auxiliary Consumptions as per the CERC Generation Tariff Regulations, 2024 along with Central Transmission Loss level @ 3.46% respectively. Accordingly, projected normative energy availability for the FY: 2025-26 have been calculated and tabulated herewith below for kind reference of the Hon'ble Commission.

Table-65: Projected Normative Availability of CGS for the FY:2025-26							
Name of the Station	Installed Capacity (MW)	GRIDCO's Share (%)	Auxiliary Consumption (%)	NAPAF M (%)	Net availability before Loss (MU)	Transmission Loss (%)	Net availability after Loss (MU)
FSTPS-I&II	1600	1.76%	6.47	85	196.28	3.46	189.49
Farakka STPS-III	500	18.65%	5.75	85	654.43	3.46	631.79
KhSTPS-I	840	1.64%	9.00	85	93.12	3.46	89.90
KhSTPS-II	1500	3.38%	5.75	85	356.01	3.46	343.69
TSTPS-I	1000	33.43%	6.55	85	2,325.98	3.46	2,245.50
TSTPS-II	2000	10.00%	5.75	85	1,403.57	3.46	1,355.01
DSTPS-I	1600	51.82%	5.75	85	5,818.38	3.46	5,617.06
Barh-I	1320	12.16%	5.75	85	1,126.53	3.46	1,087.55
Barh-II	1320	1.74%	5.75	85	160.88	3.46	155.31
MTPS-II (Kanti Bijli)	390	8.85%	9.00	85	233.91	3.46	225.82
Nabinagar STPS-I	1980	0.79%	5.75	85	109.60	3.46	105.81
North Karanpura STPS-I	1320	21.83%	6.25	85	2,011.83	3.46	1,942.22
Upcoming NTPC stations							
NKSTPS-I (Unit-3)	660	21.83%	6.25	85	1,005.75	3.46	970.96
BARH-I (Unit-3)	660	22.72%	5.75	85	1,052.34	3.46	1,015.93
Total					16,548.62		15,976.04

208. According to the LGBR Report published by CEA for FY 2024-25, Unit #3 of Barh-I and Unit #3 of North Karanpura STPS-I were scheduled for commissioning during August 2024 and September 2024, respectively. The Minutes of the Meeting dated 13th June 2024 of MoP, indicates that both units are to be commissioned during November 2024. GRIDCO holds a 22.72% share in Barh-I and 21.83% in North Karanpura STPS-I, and it is expected the plants will achieve COD as per the schedule and the Petitioner shall draw power from these units during FY:2025-26.

209. It is submitted that, currently, GRIDCO receives 288.20 MW (264 MW firm and 24.20 MW unallocated share) from Units #1 and #2 of NKSTPS-I and 160.52 MW (139.33 MW firm and 21.20 MW unallocated) from Barh-I. With the commissioning of Unit #3

of both plants, additional firm power of 132 MW from NKSTPS-I and 139.326 MW from Barh-I, along with unallocated share of power of 12.078 MW and 10.626 MW respectively, will be available during FY: 2025-26. Thus, a total of 294.034 MW will be available for GRIDCO from these upcoming NTPC units.

210. It is submitted that, considering GRIDCO's share of 432.278 MW from NKSTPS-I and 310.472 MW from Barh-I, with auxiliary consumption rates of 6.75% and 5.75% respectively & Plant Load Factor of 85%, and Central Transmission Loss of 3.46%, the estimated total energy availability for FY: 2025-26 is 5016.66 MU.

Table-66: Projected availability from NKSTPS-I and BARH-I for FY 2025-26

Name of the Station	Installed Capacity (MW)	GRIDCO's Share (%)	Auxiliary Consumption (%)	NAPAFM (%)	Net availability before Loss (MU)	Transmission Loss (%)	Net availability after Loss (MU)
NKSTPS-I (Unit-3)	660	21.83%	6.25	85	1,005.75	3.46	970.96
BARH-I (Unit-3)	660	22.72%	5.75	85	1,052.34	3.46	1,015.93

PPA Approval for NTPC Stations:

211. Hon'ble Commission may kindly consider that the reallocation proposal has been filed before the Hon'ble Commission towards approval of PPA of KBUNL & BSTPS-I stations of NTPC registered vide Case No. 135 of 2023 & 136 of 2023 respectively. The petitioner GRIDCO has State's share of 8.85% in the installed Capacity of 390 MW and 22.72% of 1980MW in the above stations. Meanwhile, Hon'ble Commission concluded the hearing on 19.11.2024 and reserved for Orders. It is pertinent to emphasize that the energy from the above stations are being utilized to cater the State demands especially during peak hours. It may be considered that the thermal power is quite necessitated to meet the growing demand of the State along with adequate measures towards provision to meet the growing demand in order to avoid variability in the of availability of power along with wide price fluctuations in the energy market to reduce over drawl from the grids and moreover to maintain energy security for the State.
212. It is pertinent to mention that, the petitioner GRIDCO in consultation with SLDC, Odisha endeavours to follow Merit Order Despatch (MOD) principle on 24X7 basis in order to draw power from the Central Generating Stations, State Thermal stations and

from the IPPs. Hon'ble Commission may appreciate that, at times, the power from these stations are necessarily drawn in order to meet the State demand especially during peak hours and also during some off peak hours to meet the shortage of power due to outage of high capacity plants /higher State demand. In normal course of operations during the peak hours, the market rate remains high and also remains more than the variable charges of these stations. Further, during the situations, when market rate remains higher than the variable charge during off peak hours and the State has adequate power supply in meeting the demand, GRIDCO prefers to schedule such power to sell in the energy market to earn additional revenue towards settlement of past liabilities and repayment obligations. Therefore, the petitioner GRIDCO humbly prays before Hon'ble Commission to kindly consider to approve the projected drawl of power from these Central Generating Stations for the ensuing FY: 2025-26.

Capacity Charges of Central Generating Stations:

213. It is submitted that, CERC Tariff Regulation for the control period FY: 2024-29 has been pronounced by Hon'ble CERC vide notification dated 15.03.2024. NTPC has not filed any Tariff Petitions before CERC for the aforementioned control period in respect of the CGSs from whom GRIDCO procures power. In absence of the above, GRIDCO has provisionally considered the Capacity Charge (Fixed Cost) of the respective Stations of NTPC following the existing Tariff Orders in force (FY:2019-24) issued by CERC, considering the capacity charges with applicable tax rate which is billed by NTPC at present all the NTPC Station except BARH-I and North Karanpura STPS-I. The capacity charges for the upcoming unit #3 for Barh-I and North Karanpura STPS-I are considered as per Tariff Petitions filed by NTPC before Hon'ble CERC for the control period FY: 2019-24.
214. According to the LGBR Report of CEA for FY 2024-25, Unit #3 of North Karanpura STPS-I and Unit #3 of Barh-I are expected to be commissioned during November, 2024. GRIDCO has a 20% firm share from each unit of North Karanpura STPS-I and considering the present unallocated share of 1.83% from the station, the total share allocation from NKSTPS would be 21.83%.

215. It is submitted that share from one unit of Barh-I allocated to GRIDCO earlier has been reallocated in favour of Gujarat effective from July 1, 2022, for five years. The weighted average share allocation from the three units from the Barh STPS-I has been calculated at 14.07% $((660*0\%(\#1) + 660*21.11\%(\#2) + 660*21.11\%(\#3))/1980)$. Thus, the total share allocation from Barh-I STPS is 15.68% including unallocated share of 1.61%. Accordingly, the proportionate fixed cost/capacity charges has been considered for determination of power purchase cost in the ARR of GRIDCO for FY 2025-26.

216. The apportionment of Capacity Charge/ Fixed cost of the respective CGSs has been made as per the present capacity charges with applicable tax rate which is billed by NTPC and for Barh-I and North Karanpura STPS-I are considered as per Tariff Petitions filed by NTPC before Hon'ble CERC with share allocation of GRIDCO. Summary sheet of Fixed Cost attached as **ED-23 & 24**. Accordingly, the Projected Fixed Cost applicable for the FY: 2025-26 has been calculated and shown in table below:

Table-67: Projected Annual Fixed Cost for NTPC Stations for the FY: 2025-26

Central Generating Stations	Installed Capacity	AFC of the Station	% of Share allocation	Proportionate AFC for GRIDCO
	(MW)	(Rs. Cr.)	(%)	(Rs. Cr.)
FSTPS-I & II	1,600	1,007.77	1.76%	17.75
FSTPS-III	500	516.00	18.65%	96.24
KHSTPS-I	840	608.31	1.64%	9.95
KHSTPS-II	1,500	968.64	3.38%	32.76
TSTPS-I	1,000	630.98	33.43%	210.92
TSTPS-II	2,000	1,144.55	10.00%	114.46
Darlipali STPS-I	1,600	1,892.47	51.82%	980.63
BSTPS-I (including upcoming #3)	1,320	3,044.78	15.68%	477.42
BSTPS-II	1,320	1,695.83	1.74%	29.45
MTPS-II	390	670.33	8.85%	59.33
NSTPS-I	1,980	2,900.01	0.79%	22.87
NKSTPS-I (including upcoming #3)	1,320	2,114.55	21.83%	461.61
Total		17,194.23		2,513.40
In case of Barh-I, GRIDCO's share of firm allocation from one unit is allocated to Gujarat with effect from 01.07.2022 for a period of five years.				

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217. The Petitioner submits that irrespective of the drawl of power by GRIDCO from the Central Generating Stations, GRIDCO is contractually obligated to bear the capacity charges of the respective station, thus, without having any scope to avoid the share the Capacity charges/Fixed costs as per its share allocation from the respective Station. It is mandatory to share the Capacity/Fixed Charge of all Central Generating Station as per the allocated share according to the Plant Availability Factor. Hon'ble Commission have considered the above obligations and approved the Capacity charges in their previous ARR Orders for the Petitioner. Hon'ble Commission is requested to consider the above and approve the respective state's share in the capacity of all the tied up capacities with the respective stations irrespective of drawal quantum, which primarily depends on the "Demand-Supply" dynamics.
218. The Petitioner thus requests before the Hon'ble Commission to approve Capacity Charges/ fixed cost of all NTPC ER Stations for the ensuing FY: 2025-26 in line with the previous years' ARR Orders of GRIDCO.

Energy Charge Rate (ECR) of Central Thermal Stations:

219. It is submitted that, as per the recent CERC Tariff Regulations, 2024, applicable for the Tariff block period 2024-29, the Energy Charges of all CGSs include Charges towards both Primary fuel (i.e., coal) as well as Secondary Fuel Oil (SFO) & shall be borne by the Beneficiaries towards energy scheduled from the respective stations during the Calendar month on Ex-Power Plant basis.
220. It is submitted that ,as per the above Regulation in force, NTPC claims Monthly Energy Charges every month as per the ECR worked out from the landed price and GCV of Coal & Oil for the respective month, considering the operational parameters laid down in CERC Tariff Regulation, 2024. As per current practices, Energy Charges Rates are claimed by NTPC as per CERC Tariff Regulation 2024. Keeping in view the ECR billed by NTPC for the period from April'2024 to September'2024, GRIDCO has projected the Energy Charge Rate (ECR) for the FY: 2025-26 on the basis of average of actual ECR claimed during six months period from April'2024 up to September'2024 after considering Central Sector loss for the above period. The details have been tabulated below.

Name of the CGS	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Avg. ECR	CS Loss	Proposed ECR (after CS Loss)
	(P/U)							(%)	(Rs.)
FSTPS-I & II	3.221	3.174	3.111	3.180	3.095	3.229	3.168	3.46	3.282
FSTPS-III	3.144	3.178	3.050	3.169	3.076	3.136	3.126	3.46	3.238
KHSTPS-I	2.731	2.647	2.563	2.620	2.638	2.804	2.667	3.46	2.763
KHSTPS-II	2.552	2.472	2.391	2.445	2.462	2.620	2.490	3.46	2.580
TSTPS-I	1.633	1.715	1.832	1.880	1.817	1.763	1.773	3.46	1.837
TSTPS-II	1.619	1.700	1.818	1.858	1.802	1.745	1.757	3.46	1.820
DSTPS-I	1.080	1.081	1.108	1.166	1.332	1.334	1.184	3.46	1.226
BSTPS-I	3.106	3.006	2.836	2.763	3.109	2.892	2.952	3.46	3.058
BSTPS-II	3.310	3.105	2.854	2.777	2.983	2.615	2.941	3.46	3.046
MTPS-II	2.821	2.459	2.446	2.448	2.484	2.495	2.526	3.46	2.616
NSTPS-I	3.035	3.004	2.700	2.605	2.716	2.688	2.791	3.46	2.891
NKSTPS-I	1.641	1.635	1.683	1.672	1.724	1.721	1.679	3.46	1.740

221. Considering the proposed ECR along with the estimated Energy drawal from the Central Generating Stations as submitted above, the total Energy Cost is proposed to the tune of Rs. 3014.84Cr for energy drawal of 15,976.04MU for the ensuing FY: 2025-26 as mentioned below in the table.

Name of the CGS	Energy	ECR	Energy Cost
	(MU)	(Rs./kWh)	(Rs. Cr.)
FSTPS-I & II	189.49	3.282	62.19
FSTPS-III	631.79	3.238	204.54
KHSTPS-I	89.90	2.763	24.84
KHSTPS-II	343.69	2.580	88.66
TSTPS-I	2,245.50	1.837	412.47
TSTPS-II	1,355.01	1.820	246.61
DSTPS-I	5,617.06	1.226	688.60
BSTPS-I	2,103.48	3.058	643.20
BSTPS-II	155.31	3.046	47.31
MTPS-II	225.82	2.616	59.07
NSTPS-I	105.81	2.891	30.59
NKSTPS-I	2,913.18	1.740	506.75
Total	15,976.04		3,014.84

Year-End Adjustment Charges of Central Sector Generating Stations:

222. NTPC had filed application before Hon'ble CERC for recovery of additional expenditure incurred on account of Ash Transportation Charges in view of MOEF & CC Notification dated 03.11.2009 & Notification dated 25.01.2016 on a recurring basis. In exercise of the regulatory power under Section 79(1)(a) of the Act, vide order dtd. 28.10.2022 , Hon'ble CERC directed that the additional expenditure incurred by the Petitioner towards Fly Ash Transportation Cost for the period 2019-24, is admissible as additional O&M expenses, as the same is in terms of the MOEF & CC notifications dated 25.1.2016 and 31.12.2021. In this regard, CERC order dated 28.10.2022 is attached as **ED-25** for reference. It is pertinent to submit that, GRIDCO has filed an Appeal before APTEL vide Appeal No. 673 of 2023, challenging the CERC Order dated 28.10.2022 with Interim Application for stay of the above order of Hon'ble CERC along with other states including Bihar, Jharkhand, Punjab, Haryana, Himachal Pradesh, J&K, Delhi etc. As per the current status of the case, no stay has been granted by Hon'ble APTEL and the matter is sub-judice for hearing on merit.
223. It is submitted that , RLDC Charges, ED on AEC and Ash Transportation Charges for the FY: 2025-26 of the existing CGSs are considered by prorating the actual Year End Charges incurred by GRIDCO for the period from April'2024 to September'2024.
224. NTPC has not raised any invoice/claims towards Ash Transportation Charges for the period from April, 2024 to September, 2024. As the expenses is payable to NTPC based coal utilisation/ transportation of ash contents, the expense on account of the same is projected . Thus, in anticipation of the such expense for the FY:2024-25, The projection for the Ash Transportation charges for FY 2025-26 have been calculated based on approved rate in the ARR of GRIDCO for FY:2024-25 with projected energy.
225. It is submitted that ,other Year End Charges such as Compensation Charges, Incentive, Addl. O&M Charges-Wage Rev., FERV Charges, Water Charges, Deferred tax liability etc. are not projected in the present petition and the same shall be claimed in the truing up FY 2024-25 /next tariff application for the FY: 2026-27 based on actual audited figures. Details of Year End charges projected for FY 2025-26 are given in the table below:

Table-70: Projected Year End Charges for FY 2025-26

Station	RLDC Charges	ED	Ash Transportation Charges	Total
	(Apr'24 to Sept'24)			(Prorated)
FSTPS-I & II	0.00	0.00	1.17	2.35
FSTPS-III	0.00	0.00	3.92	7.84
KHSTPS-I	0.00	0.00	0.56	1.12
KHSTPS-II	0.00	0.00	2.13	4.27
TSTPS-I	0.01	0.29	13.92	28.46
TSTPS-II	0.01	0.18	8.40	17.18
DSTPS-I	0.04	0.58	34.83	70.89
BSTPS-I	0.01	0.00	13.04	26.10
BSTPS-II	0.00	0.00	0.96	1.93
MTPS-II	0.00	0.00	1.40	2.80
NSTPS-I	0.00	0.00	0.66	1.31
NKSTPS-I	0.01	0.00	18.06	36.15
Total	0.09	1.06	99.05	200.39

*Ash Transportation charges have been provisionally considered by computing the approved rate in ARR FY-2024-25.of GRIDCO and total projected quantum of power to be procured from CGS.

226. In view of the aforesaid submissions, the summary of proposed power procurement cost from Central Generating Stations for the FY: 2025-26 are given below:

Table-71 : Projected Power Procurement Cost from CGS for FY 2025-26

Sl. No.	Name of the Generating Station	Energy (MU)	Fixed Charge	Variable Charge	Year End Charge	Total	Rate (P/U)
1	FSTPS-I & II	189.49	17.75	62.19	2.35	82.29	434.28
2	FSTPS-III	631.79	96.24	204.54	7.84	308.62	488.49
3	KHSTPS-I	89.90	9.95	24.84	1.12	35.90	399.39
4	KHSTPS-II	343.69	32.76	88.66	4.27	125.68	365.68
5	TSTPS-I	2,245.50	210.92	412.47	28.46	651.85	290.29
6	TSTPS-II	1,355.01	114.46	246.61	17.18	378.25	279.15
7	DSTPS-I	5,617.06	980.63	688.60	70.89	1,740.12	309.79
8	BSTPS-I (including upcoming #3)	2,103.48	477.42	643.20	26.10	1,146.72	545.15
9	BSTPS-II	155.31	29.45	47.31	1.93	78.69	506.65
10	MTPS-II	225.82	59.33	59.07	2.80	121.21	536.77
11	NSTPS-I	105.81	22.87	30.59	1.31	54.78	517.74
12	NKSTPS-I (including upcoming #3)	2,913.18	461.61	506.75	36.15	1,004.51	344.82
Total		15,976.04	2,513.40	3,014.84	200.39	5,728.63	358.58

227. The Petitioner GRIDCO requests before the Hon'ble Commission to approve the uncontrollable Capacity /Fixed Charge and Energy Charges along with Year End charges in respect of the all Central Generating Sources (CGS) as submitted above based on station wise detailed computation provided above.

(6) Power Banking:

228. Apart from availability of energy from various tied up sources, GRIDCO also endeavours to source power through need-based power banking arrangement with different Entities / Utilities of different States for mutual benefit to optimize energy costs. Under the arrangement, the surplus energy of a Utility is banked with the Utility having power deficit situations. The arrangement is cashless transaction which helps considerably to a cash-deficit Utility like the petitioner GRIDCO without resorting to power market. The process benefits the Deficit Utility to meet its power requirement through Power Banking Arrangement without any cash outgo and when the Utility becomes surplus in power, it returns the power along with some additional quantum towards premium as agreed mutually.

229. Due to shortfall in supply of power by IPPs, multiple outages of large size thermal units, State faced deficit during peak periods of FY 2023-24. GRIDCO had availed 305 MU energy from Madhya Pradesh Power Management Company Limited (MPPMCL) & NALCO and returned 309MU power including premium under banking arrangement. During the current FY 2024-25, GRIDCO taking best of its efforts has availed 457.35MU power from MPPMCL, NALCO & APPCPL during the period Apr to July'2024, with return obligation commencing from Nov'24, under banking arrangement to meet the State demand. Hon'ble Commission may appreciate that during the deficit situation, GRIDCO always endeavours and has been prioritising the banking route with other beneficiaries for availing power during deficit months with the option of return banking options during deficit of the counter party in the greater interest of the consumers of both states. It is pertinent to mention that the State usually experiences the high demand season during the summer months and low demand season during the winter months. Therefore, in case of banking arrangements, GRIDCO generally avails power in banking arrangement during the summer months. However, the country also experiences high demand during the summer months, thus very few utilities/ entities

agree to supply power during these months. Hence, the banking options becomes very much limited, as it is difficult to find a utility / entity with load profile complementing to our State.

(7) Inter State Transmission System (ISTS) Charges /CTUIL Charges:

230. It is submitted that the Inter-State Transmission Charges Bills raised by CTUIL / PGCIL are being determined by applying the norms and principles as laid down by the Hon'ble CERC from time to time. CERC has notified the Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2022 and its subsequent amendments (GNA Regulations). The GNA regulations have replaced the Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium term Open Access to the inter-State Transmission and related matters) Regulations, 2009. CERC has also amended the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 in line with the GNA Regulations. The GNA Regulations as well as the Sharing Regulations have come into effect from 01.10.2023. The Billing, Collection and disbursement of the inter-State transmission charges and losses are being carried out in accordance with the GNA Regulations and amended Sharing Regulations, 2020, the details of which are as follows:

A. National Component (NC)

A1: NC-RE

National Component-Renewable Energy shall comprise of the YTC (Yearly Transmission Charges) for transmission systems developed for renewable energy projects as identified by the Central Transmission Utility.

A2: NC-HVDC

National Component-HVDC shall comprise of the following:

- (a) 100% of YTC for “back-to-back HVDC” transmission system;
- (b) 100% of Yearly Transmission Charges for +/- 800KV BNC-Agra HVDC Transmission System (Biswanath-Chariali/ Alipurdwara to Agra);
- (c) YTC of Mundra–Mohindergarh 2500 MW HVDC transmission system corresponding to 1005 MW capacity; and
- (d) 30% of YTC for all other HVDC transmission systems except above.

In case an inter-regional HVDC transmission system planned to supply power to a particular region is operated to carry power in the reverse direction due to system requirements, the percentage of Yearly Transmission Charges of such transmission systems to be considered in the National component shall be 30% or more in accordance with the formula outlined in the Sharing Regulations.

The Yearly Transmission Charges (YTC) for the National Component is shared among all Drawee DICs of the country in proportion to their GNA and GNA_{RE} .

B. Regional Component (RC)

B1: RC-HVDC

Regional Component of HVDC System comprising of 70% of YTC of HVDC transmission systems planned to supply power to the concerned region, except covered under A2. Since no HVDC system has been planned for ER, the RC-HVDC component is zero for all the constituents of ER including Odisha.

Further, when an inter-regional HVDC transmission system planned to supply power to a particular region is operated to carry power in the reverse direction due to system requirements, the percentage of Yearly Transmission Charges of such transmission systems to be considered in the Regional component will be the balance amount remaining after computation of National component.

B2: RC-AC

RC-AC comprises of YTC of static compensators (STATCOMs), static VAR compensators (SVCs), bus reactors, spare transformers, spare reactors etc. as identified by CTU (Central Transmission Utility) for providing stability, reliability and resilience in the grid.

The Yearly Transmission Charges (YTC) for the Regional Component is shared among all Drawee DICs of the receiving region in proportion to their GNA and GNA_{RE} .

C. Transformer Component (TC)

Transformer Component for a State shall comprise of YTC for inter-connecting transformers (ICTs) planned for drawal of power by the concerned State. Transformer

Component for a State is borne and shared by the drawee DICs located in the concerned State in proportion to their quantum of GNA and GNA_{RE}.

D. AC system component (ACC)

D1: AC-UBC

All India Base Case is prepared by the Implementing Agency (IA) corresponding to the peak block. Percentage usage of each transmission line is computed by dividing the power flow on each transmission line by its SIL (Surge Impedance Loading). Average cost of each conductor configuration per circuit kilometer is determined as per the methodology specified in the Regulations. Using Average cost and percentage usage, AC-UBC component is determined. Transmission charges at each drawal node and each injection node is calculated as per Hybrid Methodology (AP-MP), using WEB-NET-USE software developed by IIT Mumbai.

D2: AC-BC

The YTC under AC-BC shall be the balance YTC for AC System Component after apportioning the charges for AC-UBC.

It is submitted that , the Transmission charges under AC-BC is shared by all drawee DICs in proportion to their quantum of GNA and GNA_{RE}.

231. All the components and sub-components of the ISTS Charges for the Billing Months from April 2024 to October 2024 are submitted in the technical format TRT-12. The format has been modified to accommodate the components and sub-components as prescribed in the Sharing Regulations and its amendments. The total ISTS Charges include Bill #1,Bill #2,Bill #3 raised by CTUIL and Non-PoC Bills raised by PGCIL. The amount of ISTS Charges for the Billing Months April 2024 to October 2024 is Rs. 430.60 Crore, as submitted in the **TRT-12** format.
232. As per the GNA Regulations, the Deemed GNA of Odisha has been fixed as 2157 MW, granted to STU i.e., OPTCL. Such GNA is being utilised by GRIDCO for scheduling power from Generating Stations connected to ISTS. As per the provisions of the IEGC Regulations, the drawal schedule of a drawee DIC shall be limited to the sum of GNA and T-GNA. Under the GNA Regulations, the access has been delinked from PPA.

Under GNA Regime, drawee DICs can schedule power under various contracts based on their assessment of merit order on day ahead basis within their GNA.

233. It is submitted that, as per the provisions of the GNA Regulations, STU on behalf of intra-State entities including Distribution Licensee may apply for additional GNA indicating GNA within the region and from outside the region once in a financial year (starting from the financial year following the financial year in which these regulations have become effective) by the month of September each year, for additional GNA for the next 3 (three) financial years.
234. It is submitted that , the petitioner GRIDCO has requested the STU i.e., OPTCL to apply for additional GNA of 130 MW on behalf of GRIDCO from April-2025 onwards to manage the generations from upcoming Thermal power stations. Additional power from RE shall be managed through T-GNA. As the increase in schedules is primarily due to Renewable Energy Sources and are not on RTC basis, it is cost effective to manage the increase of such drawal through T-GNA.
235. It is submitted that in view of the above, the GNA of Odisha for the upcoming FY 2025-26 has been considered as 2,287 MW and the ISTS Charges for the state to be considered in the ARR of the Petitioner for FY: 2025-26 is estimated to the tune of Rs.862.88Crore with **20,573 MU** energy drawl from Central Sector Generators.
236. It is submitted that, Hon'ble Commission is requested to kindly approved that transmission charges as projected above for the FY 2025-26. Hon'ble Commission may consider that the petitioner has assumptions considered to arrive at the projections for FY 2025-26 are mentioned at TRT- 12.
237. It is submitted that , as per provisions of the Sharing Regulations, the Transmission Loss for ISTS shall be calculated on All India average basis for each week on actual basis. The Average Loss is considered at 3.46 % considering the actual loss for the first six months of FY 2024-25. Accordingly, the per unit ISTS Charge before Loss and after Loss comes out to be 41.94 P/U and 43.45 P/U respectively. As the Per Unit ISTS charges depend upon the quantum of Central Sector drawal, if the scheduling of power will be less, the average per unit ISTS charges will increase. The Proposed estimation of ISTS charge for FY: 2025-26 is calculated below:

Table-72 : Transmission charges for FY 2025-26

Particulars	Amount (Rs Cr.)
Net amount payable by GRIDCO towards Transmission Charges (Rs. Cr)	862.88
Energy Drawal by GRIDCO (MU)	20,573
ISTS Charge (P/U)	41.94
Average All India Central Sector Transmission Loss (%)	3.46%
ISTS Charge including loss (P/U)	43.45

❖ **POSOCO Fees and Charges:**

238. The Petitioner submits that as per CERC (Fees and Charges of Regional Load Despatch Centre and other related matters) Regulations 2019, the RLDC fees and charges shall comprise Regional Load Despatch Centre fees to be recovered by Grid Controller of India Ltd. (GCIL) formerly POSOCO towards registration for commencement of Grid access and scheduling and annual charges to be collected in the form of annual LDC charges from the users. The RLDC charges shall be collected equally (1/3rd of Monthly Charges) from the following users as indicated below:

- a. Distribution Licensees & Buyers
- b. Generating Stations & Sellers
- c. Transmission Licensees

239. The Petitioner has forecasted CTUIL charges for FY 2025-26 by prorating actual expenses for Apr-Sept 2024 (shown in the Table below). Thus, the Petitioner proposes Rs.3.62 Cr. as expenses for CTUIL charges for FY 2025-26.

Table-73: ERLDC Fees and Charges for FY 2024-25

Sl. No.	Month	RLDC Charges (in Rs.)
1	Apr-24	28,38,572
2	May-24	27,41,132
3	Jun-24	27,41,132
4	Jul-24	27,41,132
5	Aug-24	30,26,446
6	Sep-24	40,51,028
	Total	1,81,39,442

Table-73(a) : Projected ERLDC Fees and Charges for FY 2025-26

Particulars	Amount
Net amount payable by GRIDCO towards POSOCO Charges (Cr.)	3.62
Energy drawl by GRIDCO before Central Sector Loss (MU)	20573
ERLDC Fees and Charges (P/U)	0.18

240. In view of the aforementioned submissions made by the Petitioner GRIDCO, the Summary of Power Purchase Cost of Energy with Cost break up for FY 2025-26 are submitted as follows:

Table-74: Summary of Power Purchase Cost for FY 2025-26

Station Name	Energy Availability	VC /Unit	Total VC	Total FC	Year End charges	Total Cost	Rate
	(MU)	(P/U)	(Rs Cr.)	(Rs Cr.)	(Rs Cr.)	(Rs Cr.)	(P/U)
Must Run Plants(A)							
HHEP	795.93	119.78	95.34	0.00	2.38	97.72	122.78
CHEP	292.49	137.95	40.35	0.00	0.83	41.18	140.78
Rengali	775.08	87.95	68.17	0.00	2.29	70.46	90.91
Upper Kolab	512.43	122.98	63.02	0.00	1.64	64.66	126.18
Balimela	998.25	96.21	96.04	0.00	3.00	99.04	99.22
OHPC(Old)	3374.18	107.56	362.92	0.00	10.14	373.06	110.56
Indravati	1387.76	116.66	161.90	0.00	4.19	166.09	119.68
Machkund	259.88	136.76	35.54	0.00	0.00	35.54	136.76
Total State Hydro	5021.82	111.59	560.36	0.00	14.33	574.69	114.44
Chukha	142.00	314.90	44.72			44.72	314.90
Tala	31.00	235.14	7.29			7.29	235.14
Teesta	0.00		0.00			0.00	
Mangdechhu	249.00	477.52	118.90			118.90	477.52
Rangit	6.00	205.00	1.23	1.23		2.46	410.00
Kiruchu	1.00	236.17	0.24			0.24	236.17
Total Central Hydro	429.00		172.37	1.23	0.00	173.60	404.67
Renewables							
Solar	3266.99	314.85	1028.60	0.00	28.56	1057.16	323.59
SHEP	444.92	460.90	205.06	0.00	0.00	205.06	460.90
Wind	1015.69	280.97	285.37	0.00	0.00	285.37	280.97

Station Name	Energy Availability	VC /Unit	Total VC	Total FC	Year End charges	Total Cost	Rate
	(MU)	(P/U)	(Rs Cr.)	(Rs Cr.)	(Rs Cr.)	(Rs Cr.)	(P/U)
Total Non Solar	1460.61	335.78	490.44	0.00	0.00	490.44	335.78
Total Renewables	4727.60	321.31	1519.04	0.00	28.56	1547.60	327.35
Sub Total (A)	10178.42	221.23	2251.77	1.23	42.89	2295.89	225.56
Balance Energy Required to meet the DISCOMS Demand as per MOD Principle (B)							
OPGC - 1 & 2	2202.85	165.10	363.69	328.07	27.70	719.46	326.61
OPGC - 3 & 4	9214.43	141.56	1304.39	1904.70	39.91	3249.00	352.60
M/s. GKEL	1907.00	184.87	352.55	295.66	24.05	672.26	352.52
M/s.Vedanta Ltd.	2865.18	197.98	567.25	257.26	51.95	876.46	305.90
M/s. NAVA Ltd	39.18	228.05	8.93	0.00	0.00	8.93	228.05
M/s. JITPL	972.00	336.00	326.59	0.00	0.00	326.59	336.00
M/s JSWE(U)L	546.16	290.00	158.39	0.00	0.00	158.39	290.00
M/s.MTPCL	48.25	304.60	14.70	0.00	0.00	14.70	304.60
Darlipali STPS-I	5617.06	122.59	688.60	980.63	70.89	1740.12	309.79
NKSTPS-I	2913.18	173.95	506.75	461.61	36.15	1004.51	344.82
TSTPS-II	1355.01	182.00	246.61	114.46	17.18	378.25	279.15
TSTPS-I	2245.50	183.69	412.47	210.92	28.46	651.85	290.29
KHSTPS-II	12.86	257.96	3.32	32.76	4.27	40.34	
PGCIL Charges				862.89		862.89	
SOC & MOC Charges				3.62		3.62	
Fixed Cost/YEA Ch. of Remaining Stations							
MTPS-II				59.33	2.80	62.14	
KHSTPS-I				9.95	1.12	11.07	
NSTPS-I				22.87	1.31	24.19	
BSTPS-II				29.45	1.93	31.38	
BSTPS-I (including upcoming #3)				477.42	26.10	503.52	
FSTPS-III				96.24	7.84	104.08	
FSTPS-I & II				17.75	2.35	20.10	

Station Name	Energy Availability	VC /Unit	Total VC	Total FC	Year End charges	Total Cost	Rate
	(MU)	(P/U)	(Rs Cr.)	(Rs Cr.)	(Rs Cr.)	(Rs Cr.)	(P/U)
Sub-Total (B)	29,938.64	165.48	4,954.24	6,165.60	344.00	11,463.85	
Sub Total (A+B) (MOD applied to meet the State Demand)	40,117.06	179.62	7,206.02	6,166.83	386.89	13,759.74	342.99
Surplus Power (C)							
KHSTPS-II	330.83	257.96	85.34			85.34	257.96
MTPS-II	225.82	261.60	59.07			59.07	261.60
KHSTPS-I	89.90	276.28	24.84			24.84	276.28
NSTPS-I	105.81	289.14	30.59			30.59	289.14
BSTPS-II	155.31	304.61	47.31			47.31	304.61
BSTPS-I (including upcoming #3)	2103.48	305.78	643.20			643.20	305.78
FSTPS-III	631.79	323.75	204.54			204.54	323.75
FSTPS-I & II	189.49	328.19	62.19			62.19	328.19
Sub Total (C)	3,832.43	301.92	1,157.09	-	-	1,157.09	301.92
Total Energy Availability (A+B+C)	43,949.49	190.29	8,363.11	6,166.83	386.89	14,916.83	339.41

241. The Petitioner GRIDCO humbly submits before the Hon'ble Commission that after considering the estimated energy availability in the basket of GRIDCO based on the contracted/tied-up capacities as per the subsisting PPAs the Average Power Purchase Cost (APPC) for procurement of **43,949.49 MU** to be procured at total cost of **Rs.14,916.83 Crores** has been estimated to be **339.41 Paise/kWh**.

242. Further, it is submitted before the Hon'ble Commission that after considering the estimated energy requirement for the State as per the Merit Order Dispatch Principle, balance power has been considered as surplus power. It is pertinent to mention that the Average Power Purchase Cost (APPC) for procurement of **40,117.06 MU** with total cost of **Rs.13,759.74 Crores** at **342.99 Paise/kWh** towards meeting the gross energy requirement for meeting the DISCOMs demand of **38,813.55 MU**. This estimated APPC

has been worked out including the entire capacity charges obligations of different generating stations having long term PPAs with GRIDCO.

(8) Pass Through Cost of GRIDCO:

(A) Pass through Costs of OPGC:

243. It is submitted that, OPGC vide invoice dated 11.11.2024 has raised the invoice towards reimbursement of Ash Transportation Charges for FY:2023-24 to the tune of **Rs.77, 65, 402/- and Rs.4,08,87,627/- for St-I and St-II** respectively, The above expenses are not considered in the Truing up for FY:2023-24 and shall be paid by GRIDCO after due verification. Considering the reimbursement claim raised by OPGC, the amt. is projected to be paid during FY: 2024-25. Details of the above pass through are submitted herewith for kind consideration of the Hon'ble Commission.

Table-75: Pass Through Cost for OPGC Stage-I & Stage-II

Item	Amount Claimed by OPGC (Rs. Crs.)	Amount Paid/ To be paid (Rs. Crs.)	Remarks
Annual Fuel Price Adjustment for FY 2023-24	0.86	0.00	Bill of Rs.85,54,077/- raised by OPGC vide letter dated 13.05.2024 but not paid by GRIDCO due to non-receipt of credit/debit notes, Third party GCV Sampling Reports and GCV of coal as received basis. The price of coal is disputed and oil price is receivable , thus not paid to OPGC
Half Yearly Fuel Price Adjustment for FY 2024-25	5.16	5.16	Bill of Rs.5.16 Cr. raised by OPGC vide letter dated 11.11.2024 but not paid by GRIDCO due to non-receipt of credit/debit notes, Third party GCV Sampling Reports and GCV of coal as received basis
Ash Transportation Expenses and other expenses towards ash utilization for FY 2023-24 for OPGC Units-1 & 2	0.78	0.78	Bill for an amount of Rs.77,65,402/- raised by OPGC vide letter dated 11.11.2024, shall be paid during FY:2024-25 after due verification.

Item	Amount Claimed by OPGC (Rs. Crs.)	Amount Paid/ To be paid (Rs. Crs.)	Remarks
Ash Transportation Expenses and other expenses towards ash utilization for FY 2023-24 for OPGC Units-3 & 4	4.09	4.09	Bill for an amount of Rs.4,08,87,627/- raised by OPGC vide letter dated 11.11.2024 shall be paid during FY:2024-25 after due verification.
Electrical Inspection Fees for FY 2023-23 and FY 2024-25 for OPGC Stage-I	0.44	0.44	Amount claimed paid to OPGC on verification of supporting documents submitted along with claim by OPGC
Electrical Inspection Fees for FY 2023-24 and FY 2024-25 for OPGC Stage-II	0.41	0.41	Payment made to OPGC on verification of supporting documents submitted along with claim by OPGC.
Tax & cess on land fo	1.07	1.07	Payment made to OPGC on verification of supporting documents submitted along with claim by OPGC.
Tax and cess on land for FY 2023-24 & FY 2024-25 claimed by OPGC	2.24	2.24	Payment made to OPGC on verification of supporting documents submitted along with claim by OPGC.
TOTAL	15.05	14.19	

B. Pass through Costs of IPPs:

- ❖ **M/s. Vedanta Ltd (IPP: 600 MW and Conditionally Converted CGPs: 3 x 600MW):**

(a) Reimbursement of Water Charges:

244. It is submitted that, for the period from April 2020 to March 2024, M/s. Vedanta Ltd. has claimed an amount of Rs.67,62,20,119/- towards reimbursement of Water Charges by GRIDCO. However, as per OERC (Terms and Conditions of Determination of Tariff) Regulations, 2020, GRIDCO has provisionally accepted **Rs. 28,31,14,285** /- towards Water Charges for the period from April'2020 to March'2024 and made payment on 19.07.2024 & 20.08.2024. Therefore, it is humbly prayed before the Hon'ble

Commission to kindly consider to allow an amount of **Rs. 28,31,14,285** /- reimbursed towards water charges to Vedanta-IPP as Pass Through in the ARR for FY 2025-26 of the petitioner GRIDCO.

(b) Reimbursement of Ash Transportation Charges:

245. Hon'ble OERC vide Order dated 05.06.2024 in Case No.18 of 2024, has allowed reimbursement of Ash Transportation Charges to M/s. Vedanta Ltd. Accordingly, Vedanta Ltd. has claimed **Rs.68,86,25,408/-** towards reimbursement of ash transportation charges for the period from Nov'23 to Mar'24. However, based on the methodology formulated by Hon'ble Commission vide Order dated 05.06.2024, the claims were duly verified and worked out to be **Rs. 20,14,62,725** /- and accordingly, the above amount was released in favour of Vedanta Ltd. on 30.09.2024.
246. It is submitted that, Vedanta Ltd. has claimed **Rs.31,74,55,703/-** towards reimbursement of Ash Transportation Charges for the period from Apr'24 to Jun'24. However, after due verification as per methodology formulated by Hon'ble Commission in order dated 05.06.2024, GRIDCO has made payment of **Rs. 8,04,97,856** /- in favour of Vedanta Ltd.
247. Therefore, it is humbly prayed before the Hon'ble Commission to kindly consider to allow **Rs.28, 19,60, 581** /- , already reimbursed towards water charges to Vedanta-IPP as Pass Through in the ARR for FY 2025-26.
248. Hon'ble Commission may kindly consider that based on the provisional acceptance by GRIDCO towards ash transportation charges from Nov'2023 to Jun'2024 , the rate of ash transportation charges come to around **14 Paisa/Unit** (i.e. Rs. 28,19,60,581 /- against the supply of 2025.176349 MU). Thus, considering the approved drawl from Vedanta Ltd. for FY 2024-25 i.e. 3050 MU, the projected Ash Transportation Charges for FY 2024-25 will be around **Rs.42.70Cr.**
249. It is therefore humbly prayed before the Hon'ble Commission to kindly consider to allow **Rs. 62,84,62,725/-** (**Rs. 20,14,62,725** /- for Nov'23 to Mar'24 and **Rs.8.05Cr.** from Apr'24 to June,24 and projected cost from Oct'24 to Mar'25 : **Rs.34.65Cr.**, with cumulated total of **Rs. 42.70Cr.** for FY: 2024-25) as pass through in the ARR & BSP

Order for FY 2025-26 towards reimbursement of Ash Transportation Charges to Vedanta Ltd. It is also submitted before the Hon'ble Commission that, Vedanta Ltd. is not adhering to the orders of the Hon'ble Commission regarding undisturbed/ consistent supply of State entitlement of power to GRIDCO and also prefers to stop generation from IPP Unit#2 at its own sweet will citing one reason or the other. Moreover, Vedanta Ltd. is not scheduling any power from conditionally converted CGP Units during low/no generation from Unit#2.

(c) Reimbursement of Petition Filing Fees for block period 2019-24 vide Case No. 20 of 2020:

250. It is submitted that, GRIDCO has made reimbursed payment of Rs.25,00,000 /- to Vedanta on 20.08.2024 towards reimbursement of Petition Filing Fees for MYT application of Vedanta registered as Case No. 20 of 2020. Accordingly, the amount of **Rs. 25, 00 000/-** may kindly be considered as pass through in the ARR Order of GRIDCO for FY 2025-26.

❖ GMR Kamalanga Energy Ltd. (GKEL) (3x 350 MW):

(a) Reimbursement of Electricity Duty (ED):

251. It is submitted that, the IPP of GKEL had not raised any claim towards reimbursement of Electricity Duty since Oct'2019. The IPP has raised the claim to GRIDCO during Aug'24 to Oct'24. The petitioner GRIDCO has made the reimbursement to M/s. GKEL during Oct'2024, to the tune of **Rs.11.91 Crores** towards Electricity Duty (ED) for the period from Oct'2019 to Jun'2021 in Oct,2024 . It is therefore humbly prayed before the Hon'ble Commission to consider the afore said expense to the tune of **Rs.11.91 Cr.** towards reimbursement of ED to GKEL as pass through in the ARR of GRIDCO for FY 2025-26.

(b) Reimbursement of SOC and MOC Charges:

252. It is further submitted that, the petitioner GRIDCO has made payment of **Rs.1.57Cr.** towards reimbursement of SOC (System Operation Charges) & MOC (Market Operation Charges) Fees of SLDC, for the period from Apr'2017 to Jul'2024 during Nov'2024 against the invoices raised by the IPP of M/s. GKEL during May'24. It is therefore humbly prayed before the Hon'ble Commission to consider the afore said amount of

Rs.1.57 Crore towards reimbursement of SOC & MOC charges to GKEL as pass through in the ARR order of GRIDCO for FY 2025-26.

(c) Reimbursement of Ash Transportation Charges:

253. Hon'ble CERC vide its order dated 17.05.2024 in Petition No. 407/GT/2020, has determined the tariff of M/s GKEL for the block period 2019-24 along with Truing-up of tariff for the block period 2014-19. In the said order, CERC has directed and allowed for reimbursement of Fly Ash Transportation Cost for the period 2014 to 2024 to the IPP of M/s GKEL towards supply of power to GRIDCO. The IPP has been directed to recover 100% and 90% of the cost incurred on actual basis for the period 2014-19 and 2019-24 respectively subject to truing up. Accordingly, GKEL has raised the invoice towards reimbursement of Fly Ash Transportation Charges of **Rs. 87.69Cr.** On verification of the invoice along with supporting documents, the Petitioner GRIDCO has provisionally accepted an amount of **Rs.86.96 Cr.** i.e. **Rs.2.04 Cr.** for FY 2014-19 and **Rs.84.92 Cr.** for block period 2019-24. As per direction of CERC, the provisionally accepted amounts are being paid in six equal monthly instalments to M/s GKEL. It is submitted that, as on 02.11.2024 an amount of **Rs.15,17,38, 079/-** has already been paid to GKEL i.e. 3 instalments (Rs.34,04,734/- per Instalment) against FY: 2018-19 and 1st instalment of Rs.14,15,23,877/- against FY: 2019-24. It is submitted that, reimbursement of the entire amount of Rs.86.96Cr. towards Ash Transportation Charges shall be completed by March,2025. It is therefore humbly prayed before the Hon'ble Commission to kindly consider to allow **Rs.86,95,71,671/-** up to FY: 2023-24 as pass through in the ARR for FY 2025-26 towards reimbursement of Ash Transportation Charges to GKEL.

❖ **M/s. NAVA Ltd (1x 60 MW):**

Infirm Power Cost and Energy Charges

254. It is humbly submitted that, in compliance to Hon'ble Commission's order dated 02.09.2024 in Case No.11 of 2024, the petitioner GRIDCO has made payment of Rs. 1,32,10,653/- towards cost of infirm power supplied during the period Feb,2013, March-2013 and Dec-2014 by erstwhile M/s. NBVL and the payment of Rs. 4,97,79,710 towards differential energy charges for the period from Mar'22 to May'24 due to revised ECR based on principle laid down in the said order.

255. It is therefore humbly submitted before the Hon'ble Commission to kindly consider to allow **Rs.6,29,90,363.00** /- (i.e. Rs.1,32,10,653/- + Rs.4,97,79,710/-) paid by GRIDCO to M/s. Nava Limited on provisional basis in line with OERC directions vide order dated 02.09.2024 in Case No.11 of 2024.

❖ **M/s. JSW Energy (Utkal) Limited: (2 X 350 MW)**

Energy Charges for FY 2024-25

256. It is submitted that, the petitioner GRIDCO had not projected the quantum and cost of procurement of power from M/s. JSWEUL in its ARR application for FY: 2024-25. The IPP commenced supply of its contracted energy i.e. 12% of Energy Sent Out with effect from 21.02.2024 i.e., after submission of the ARR application by the Petitioner. GRIDCO has been procuring the State entitlement of power at provisional monthly ECR claimed by the IPP in its monthly energy bills. It is submitted that, an amount of **Rs.36,80,05,420/-** towards the energy charges was paid to M/s. JSWEUL against monthly energy bills from April'24 till Sep'24. Further, considering the trend of supply of power by the IPP, it is expected that 100.085 MU of power shall be procured by GRIDCO during the balance period of FY:2024-25 (Oct,2024 to March,2025) and the petitioner shall incur cost of such power procurement to the tune of Rs. 29,02,46,500/- (i.e. 100.085 MU X Rs.2.90/kWh).

257. It is therefore humbly submitted before the Hon'ble Commission to kindly consider to allow **Rs.65,82,51,920/-** (i.e. Rs.36,80,05,420/- + Rs. 29,02,46,500/-) provisionally paid by GRIDCO towards monthly energy bills paid and payable to JSWEUL towards power supplied to GRIDCO from Unit#1 i.e. 350 MW Unit from Apr'24 to Sep'24 and to be supplied during the period Oct'2024 to March,2025.

❖ **M/s. Maa Durga Thermal Power Company Limited (MTPCL) (2 X 30MW):**

Energy Charges for FY 2024-25

258. It is submitted that, the petitioner GRIDCO had not projected quantum and cost of power procurement from M/s. MPTCL in its ARR application for FY: 2024-25. It is submitted that, after synchronisation of Unit #2 (30 MW) and Unit #1 (30 MW) of M/s. MPTCL

on 11.07.2024 and 20.09.2024 and declaration of COD on 22.08.2024 and 25.09.2024 respectively, GRIDCO has drawn 10.966133 MU (6.341786 MU of Infirm Power and 4.624347 MU of Firm Power) power from 2 x 30 (60) MW power plant of M/s. MaaDurga Thermal Power Company Limited during the period from Jul'24 to Oct'24 incurring total cost of **Rs. 3.34 Crores** (@ Rs.3.046/kWh) and payment has already been released in favour of the IPP on due dates availing prompt rebate of 2%. Further, it is submitted that, the petitioner may draw another 15 MU (approx.) of power from the IPP during the balance period of FY 2024-25 incurring cost of about Rs.4.569 Crore. It is therefore, humbly prayed before the Hon'ble Commission to consider total amount of **Rs.7.909 Crores** (Rs.3.34 Cr for Jul'24 to Oct'24 and Rs.4.569 Cr for Nov'24 to Mar'24) towards power purchase cost from M/s. MPTCL during FY 2024-25 as pass through in the ARR & BSP Order of GRIDCO for FY 2025-26.

259. The summary of total Pass Through claimed by the petitioner GRIDCO in respect of different IPPs supplying power to GRIDCO are as follows:

Table -76 : Summary of Pass through Claims in respect of IPPs

Description	Amount Claimed (Rs.)	Amount Paid by GRIDCO (Rs.)	Remarks
VEDANTA LTD.			
Water Charges (April, 2020 to March, 2024)	67.62	28.31	Payment made to Vedanta by GRIDCO as per OERC (Terms and Conditions of Determination of Tariff) Regulations, 2020.
Ash Transportation Charges (Nov,2023 to March,2024)	68.86	20.15	Payment made by GRIDCO as per order dated 05.06.2024 in Case No. 18 of 2024.
Ash Transportation Charges (April,2024 to May,2024)	31.75	8.05	Payment made by GRIDCO as per order dated 05.06.2024 in Case No. 18 of 2024.
Ash Transportation Charges for balance period i.e. June,2024 to March,2025	0.00	34.65	Approximate amount payable by GRIDCO, if Vedanta supplies power as per approved quantum of power in the ARR of GRIDCO for FY: 2024-25.
Petition Filing Fees for block period 2019-24 vide Case No. 20 of 2020.	0.25	0.25	Payment made by GRIDCO as per provisions of OERC (Terms and Conditions of Determination of Tariff) Regulations, 2020.
Total	168.48	91.41	

Description	Amount Claimed (Rs.)	Amount Paid by GRIDCO (Rs.)	Remarks
GKEL			
Reimbursement of ED from Oct, 2019 to June, 2021.	11.91	11.91	Payment has been made by GRIDCO in Oct, 2024.
Reimbursement of SOC & MOC Charges	1.57	1.57	Payment has been made by GRIDCO in Oct, 2024.
Reimbursement of Ash Transportation Charges (FY: 2018-19 to FY: 2023-24)	87.69	86.96	Payment of Rs.29.3261956 Crs has already been made by GRIDCO to GKEL and balance amount shall be paid in instalments by March, 2025.
Total	101.17	100.44	
JSWEUL			
Provisional Energy charges paid to M/s JSWEUL against monthly energy bills from Feb'24 till Sep'24	37.53	36.80	The energy charges has already been paid on due dates to JSWEUL by GRIDCO.
Approx. Energy Chares payable to JSWEUL for the balance period from Oct,2024 to March,2024	0.000	29.03	Expected power purchase cost to be incurred for supply of power during Nov, 2024 to March, 2025 by the IPP.
Total	37.53	65.83	
NAVA Ltd			
Payment towards infirm power for the period of differential Energy Charges Feb,2013, Marc-2013 and Dec-2014	1.32	1.32	An amount of Rs.1,32,10,653/- paid to M/s. Nava Limited on 05.10.2024 in line with OERC directions vide order dated 02.09.2024 in Case No.11 of 2024
Outstanding payment of differential energy charges for the period from Mar'22 to May'24.	4.98	4.98	An amount of Rs.4,97,79,710/-paid to M/s. Nava Limited on 05.10.2024 in line with OERC directions vide order dated 02.09.2024 in Case No.11 of 2024
Total	6.30	6.30	
MPTCL			
Energy Charges (July,2024 to Oct,2024)	3.45	3.34	Payment has been made by GRIDCO to the IPP within due date.
Energy Charges for balance period of FY 2024-25(Nov,24 to March,2025)	0	4.569	Expected power purchase cost to be incurred for supply of power during Nov, 2024 to March, 2025 by the IPP.
Total	3.45	7.91	
TOTAL	316.93	271.88	

C. Additional O&M Charges due to Wage Revision and Water Charges claim of NTPC:-

260. **Wage Revision:** CERC vide Order dtd. 11.01.2024 in Petition No. 391/GT/2020 pronounced the truing up of tariff of Farakka Super Thermal Power Station-III for the Tariff block period 2014-19. CERC vide para 81 of the order, allowed wage revision for the tariff period 2014-19 and at para 96 of the Order, mentioned that the arrear payments on account of wage revision impact is payable by the beneficiaries in twelve equal monthly instalments from the date of issue of the order. Copy of the relevant extract of the Order is attached as **ED-26**. Accordingly, NTPC had started billing of the first instalment during the month of Feb'2024, which was paid during the month of Mar'2024. Similarly, during FY 2024-25, NTPC has already reimbursed 6 instalments during the period April'24-Sept'24 (**Copy of the bills attached as ED-27** and balance 5 instalments are to be reimbursed in next five months (Oct'24 to Feb'25). For the above revision, GRIDCO would have to incur and pay **Rs.4.77Cr.** during the current FY: 2024-25, which was not addressed and considered in the ARR of FY 2024-25. Hon'ble Commission is requested to approve the above pass through expense.
261. **Water Charges claim :** CERC at para 64 vide Order dt. 12.01.2024 as mentioned above allowed the arrear water charges claim of FSTPS-III pertaining to the FY 2017-18 and 2018-19 on account of revision in the rate of water charges. As directed by CERC, the petitioner i.e., NTPC is allowed to recover the same from the Respondent beneficiaries in terms of Regulation 10(7) of the 2019 Tariff Regulation, which stipulates the claim to be recovered in six equal monthly instalments. Accordingly, NTPC started billing the arrear claim during the FY: 2023-24 and FY:2024-25. It is submitted that the amount claimed during FY:2023-24 has not been considered in the Truing up for FY:2023-24. NTPC has also claimed the balance 5 instalments during the period April'24-Sept'24 and the same have been duly paid by GRIDCO as on date. Copy of the bills attached as **ED-28** .The details of the claims made by NTPC are tabulated below.

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Table-77: Wage Rev. and Water Charges claim by NTPC

Name of the Station	Addl. O&M Charges-Wage Rev. and Water Charges claim by NTPC (CERC Order 11.01.2024 in Petition No. 391/GT/2020)		
	Already Claimed by NTPC and Paid by GRIDCO during Apr'24 to Sep'24 (Rs. Cr.)	To be Claimed by NTPC and to be Paid by GRIDCO during Oct'24 to Mar'25 (Rs. Cr.)	Total (Rs. Cr.)
FSTPS-III (Wage Rev)	2.60	2.17	4.77
FSTPS-III (Water Charge)	1.33	0.00	1.33
TOTAL(A)	3.93	2.17	6.10

Hon'ble Commission is requested to approve the above uncontrollable expense as pass through for the FY:2025-26.

Recovery of Cost due to Foreign Exchange Rate Variation (FERV):

262. CERC (Terms and Conditions of Tariff Regulation), 2019, Clause 69 (1) stipulates that every generating company and the transmission licensee shall recover the cost of hedging and foreign exchange rate variation on year on year basis as income or expense in the period in which it arises. Further, Clause 69 (2) states that the recovery of cost of hedging or foreign exchange rate variation shall be made directly by the generating company or the transmission licensee, as the case may be, from the beneficiaries or the long term customers, as the case may be, without making any application before the Commission. Accordingly, NTPC has claimed an amount of **Rs 3.55 Cr.** towards cost of Foreign Exchange Rate Variation (FERV) pertaining to the period 01.03.2024 to 31.03.2024 , paid during first six months of FY 2024-25 for its generating stations including Darlipali, Barh-II, TSTPS-I and Farakka-I. Bills of NTPC in this regard claimed to GRIDCO during FY 2024-25 are attached as **ED-29**. The claim details of NTPC is tabulated below for reference:

Table-78: Foreign Exchange Rate Variation (FERV)

Name of the Station	Claim due to Foreign Exchange Rate Variation(FERV)		
	Bill Date	Claim Period	Amount (Rs. Cr.)
Darlipalli	03.06.2024	01.03.24 to 31.03.24	3.31
Barh-II	03.06.2024	01.03.24 to 31.03.24	0.16
Talcher-I	03.06.2024	01.03.24 to 31.03.24	0.06
Farakka-I	03.06.2024	01.03.24 to 31.03.24	0.02
TOTAL			3.55

Accordingly, the total claim of GRIDCO towards the pass through of NTPC claims in the present ARR application is **Rs. 9.65 Cr.** Hon'ble Commission may kindly consider to approve the same.

D. TEESTA-V of NHPC :

263. NHPC had filed a petition for truing up of tariff for the tariff block period 2014-19 and determination of tariff for the period 2019-24 in respect of Teesta-V Hydro Electric Project before CERC which was registered as Petition No.298/GT/2020.CERC vide order dtd.19.01.2024 have approved the truing up for the period 2014-19 and tariff for the period 2019-24. Consequent to the above order, the petitioner GRIDCO has incurred the following expenses:

Table : 79 Pass Through Claims in respect of Teesta

Sl. No.	Particulars	Amount (Rs.)
1	Refund of TDS to NHPC	1, 11, 43,956/
2	Publication and Filing fee	27,01, 688/-
Total		1,38,45,644/-

264. The extract of the CERC Order and Invoices raised by NHPC are enclosed as **ED-30** for kind reference of the Hon'ble Commission. In view of the above, GRIDCO prays before the Hon'ble Commission to allow the total amount of **Rs. 1,38,45,644/- towards** pass through claim in the ARR for FY-2025-26.

E. Impact due to Tariff Revision of Mangdecchu Hydro Electric Project w.e.f. 22.07.2024.

265. It is submitted that ,as per the protocol signed between Govt. of India (GoI) and Royal Govt. of Bhutan on dtd.23.04.2019, the tariff of Mangdechu Hydro Electric Project is to be enhanced by 10% every five years .The protocol dtd.23.04.2019 is enclosed herewith for kind reference. The Commercial operation date of Mangdechu Hydro Electric Project is on 22.07.2019.So, the tariff of Mangdecchu HEP has been enhanced from **Rs.4.12/kwh to Rs.4.54/kwh w.e.f 22.07.2024.**

266. It is submitted that, at present GRIDCO is paying 461P/kWh (454paise/kWh towards energy charges and 7paise/kWh towards trading margin) to PTC for procurement of power from Mangdecchu HEP through PTC. w.e.f. 22nd July,2024.The financial implication due to such tariff hike of Mangdecchu is as follows:

Table – 80: Revised Tariff Cost of Mangdechu

Period	Energy Drawal (MU)	Amount (Rs.)
22nd July'2024 to Sept'24	137.796389	5,78,74,483
Oct'24 to March'25	33.352733	1,40,08,148

267. It is submitted that , the total Energy Drawl from Mangdechu HEP from 22nd July'2024 to Sept'24: 137.796389 MU. Therefore, the differential amount to be borne by GRIDCO as against the approved rate of OERC for FY:2024-25:(**137.796389 MU * Rs.0.42/kwh**)= **Rs.5,78,74,483** /-.Anticipated drawl from Oct'24 to March'25 based on drawl pattern of FY:2023-24 : 33.352733 MU. Therefore, the estimated amount to be incurred by GRIDCO from Oct'24-Mar'25 works out to be Rs.1,40,08,148 /-. Therefore, the total pass through amount claimed by GRIDCO due to Tariff Revision of Mangdechu from 22nd July'2024 to Mar'25 is **Rs. 7,18,82,631/-**.The petitioner GRIDCO therefore prays before the Hon'ble Commission to allow **Rs.7, 18, 82,631/-** towards pass through claim in the ARR for FY-2025-26 towards Tariff Revision of Mangdechu HEP.

F. Renewable Sources :

Differential Energy Charges paid to PTC for 20 MW Samal Barrage SHEP (OPCL) for the period from FY 2009-10 to FY 2023-24.

268. Hon'ble APTEL vide order dated 09.04.2024 in Appeal No. 63 of 2016 **ED-31**, have approved the revised tariff of Rs. 4.76/kWh and PTC Trading Margin (Rs. 0.04/kWh) in respect of 20 MW Samal Barrage SHEP of M/s OPCL, applicable from the COD of the project i.e. from FY 2009-10. Hon' ble APTEL also directed to pay the differential amount i.e. difference of the tariff of Rs. 4.76 per kwh and the tariff as paid for the supply of electricity from the COD till the date of APTEL judgment, along with the delayed payment surcharge as per the PPA on compounding basis. Based on the aforesaid

Judgement of APTEL, PTC vide invoice dated 20.04.2024, claimed **Rs.124. 02Cr.** towards differential tariff and vide invoices (02 invoices) dated 10.05.2024, claimed **Rs. 291.93 Cr.** towards DPS on compounding basis. The said invoices have been attached as **ED-32.**

269. Thereafter, GRIDCO challenged the said APTEL judgement before Hon'ble Supreme Court of India (SCI) through Civil Appeal No. 7344 of 2024 along with Application for Stay. However, on hearing the matter, Hon' ble Supreme Court of India vide interim Order dated 19.07.2024 **ED-33**, directed to pay the Principal Differential amount and interest on the basis of Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2009.

270. In compliance to the direction of Hon'ble Supreme Court of India, GRIDCO has paid **Rs. 124.02 Cr.** to PTC on dated 31.08.2024 towards differential principal claim of PTC. It is therefore humbly submitted before the Hon'ble Commission to kindly approve the above uncontrollable expenses as pass through in the ARR for FY: 2025-26. However, the claim of **Rs. 291.93 Cr.** towards DPS on compounding basis has not been paid by GRIDCO based on terms and conditions of PSA dated 26.05.2009 and interpretation of Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2009. The matter regarding DPS/ interest remains pending before the Hon' ble Supreme Court, and the financial implications shall be on the outcome of the matter based on the final judgement of the Hon'ble Apex Court..

271. It is submitted that, Hon'ble Commission may kindly consider to allow the actual payment made by GRIDCO to OPCL i.e. **Rs.124.02 Cr** during FY:2024-25 as pass through in ARR FY 2025-26.

Additional Energy cost in respect of 20 MW Samal Barrage SHEP (OPCL) during FY 2024-25.

272. Hon' ble APTEL vide Order dated 09.04.2024 in Appeal No. 63 of 2016, has approved a tariff of Rs. 4.76/kWh and PTC Trading Margin (Rs. 0.04/kWh) in respect of 20 MW

Samal Barrage SHEP of M/s OPCL, applicable from the COD of the project i.e. from FY 2009-10.

273. Hon'ble Commission in the ARR Order of GRIDCO for the FY 2024-25, have approved to procure 95.38 MU energy from Samal SHEP at a tariff of Rs. 3.71/kWh with a procurement cost of Rs. 35.39 Crore. However, GRIDCO as per the above said Order of Hon' ble APTEL is paying tariff of Rs. 4.80/kWh to PTC in respect of 20 MW Samal Barrage SHEP. During the 1st half of FY 2024-25, GRIDCO has procured 51.86 MU from Samal Barrage SHEP and it is projected that 43.52 MU of energy shall be available to GRIDCO during the 2nd half of FY 2024-25. Accordingly, GRIDCO expects to receive total approved quantum of energy to the tune of 95.38 MU from the SHEP during FY: 2024-25 with total cost of Rs.45.78 Cr. at the revised tariff of Rs.4.80/kWh. Thus, the Petitioner shall have to borne additional uncontrollable cost of Rs.10.39 Cr. towards procurement of 95.38 MU energy from the SHEP on account of revision of tariff from Rs. 3.71/kWh to Rs. 4.80/kWh. In view of the above, it is prayed before the Hon'ble Commission, to allow the additional cost **of Rs. 10.39 Cr.** as submitted above.

G. Recovery of charges towards deficit in the Deviation and Ancillary Service Pool Account for the period from 16.09.2023 to 15.09.2024:

274. It is submitted that the Central Electricity Regulatory Commission (CERC) vide gazette notification dated 21.08.2024 has issued the CERC (Deviation Settlement Mechanism and Related Matters) Regulations, 2024, which was implemented from 16.09.2024 in respect of the deficit in the Deviation and Ancillary Service Pool Account.
275. Subsequently, CERC vide order dated 15.10.2024 **(ED-34)** has accorded approval to the "Detailed Procedure for recovery of charges in case of deficit in the Deviation and Ancillary Service Pool Account" under Regulation 9(7) of the CERC (Deviation Settlement Mechanism and Related Matters) Regulations, 2024. The Clause 09 (Recovery from the drawee DICs for the deficit in the pool for the period prior to 16.09.24 (Legacy dues)) of the said procedure provides as follows:

“9.1. Total shortfall towards payment of deviation, reactive, congestion charge, Ancillary charges, SCUC_BB, SCUC_CC, and interest payable, if any, for the period prior to 16.09.24 shall be recovered from the drawee DICs in the ratio of:

a. 50% of the total net shortfall in proportion to their actual drawl as per SEM at the ISTS periphery. Actual drawl shall be considered as per SEM at the ISTS for the period 16.09.2023 to 15.09.2024. The methodology of calculating the actual drawl shall be the same as per clause 7.6.1 of this procedure and;

b. The remaining 50% net shortfall shall be apportioned among the drawl DIC in proportion to their GNA. GNA, shall be considered as average GNA for the period October'23 to September'24 as per the notification of ISTS charges by NLDC in line with CERC Sharing of Inter-State Transmission Charges and Losses 2020 and its subsequent amendments, shall be considered for apportionment.

9.2. NLDC shall publish the net deficit recovery statement for the period prior to 16.09.24 as per Format_ Net shortfall Recovery_ Legacy Dues. The net shortfall shall be recovered in equal instalments on a weekly basis in such a way that the total shortfall for the period prior to 16.09.2024 shall be recovered by the end of the financial year 2024-25.

9.2.1. Provided that NLDC, on a quarterly basis, shall assess the weekly surplus available in the Deviation and Ancillary Pool Accounts on an All India basis and the amount available in the congestion amount account after payment of details mentioned in clause 5 of this procedure for the FY 2024-25 and shall offset this surplus, if any, towards the upcoming instalments of legacy dues and shall notify the revised statement and upcoming instalments on its website.

9.3. Drawee DICs are required to pay into their respective regional Deviation and Ancillary Service Pool Account within ten (10) days from the instalment due date as defined by NLDC statement as per Format_ Net shortfall Recovery_ Legacy Dues.

9.4. *If payments by the drawee DICs are delayed beyond ten (10) days from the instalment due date, the drawee DICs shall be liable to pay simple interest @ 0.04% for each day of delay from the 11th day onwards, and the interest statement for the same will be published by respective RPCs.”*

276. In line with the above regulations and approved NLDC procedure, ERLDC vide its letter dt. 11.11.2024 has furnished the Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for the period from **16.09.2023 to 15.09.2024 (Statement for Legacy Dues)**. As per the aforesaid statement, **(ED-35)**, it has been intimated that there is a shortfall of **Rs. 31,42,05,43,772/- in the Deviation and Ancillary Service Pool Accounts**. Basing upon the avg. GNA+GNA_{RE} value from Oct'23 to Sept'24 and Actual Drawl of GRIDCO (excl. injection) for the period from 16.09.2023 to 15.09.2024, GRIDCO has been assigned with **payable outstanding of Rs. 57,42,56,014/-** towards recovery of the shortfall amount as per **the said letter, ED-36**. The afore said payable amount has to be paid in **20 instalments by March,2025**. It is submitted that the petitioner GRIDCO has already started payment of instalments and two instalments have already been paid in November,2024.
277. In view of above, the Petitioner GRIDCO prays before the Hon'ble Commission to approve **Rs. 57,42,56,014/-** towards pass through claim of the above uncontrollable exp. in the ARR for FY-2025-26 towards recovery of charges towards deficit in the Deviation and Ancillary Service Pool Account.

H. PGCIL Charges as per OERC order dated 19.09.2024 in ARR and BSP review order for FY 2024-25:

278. It is pertinent to mention that, **Rs.23.26Cr.** was paid to PGCIL towards arrear DPS paid against the period from January 2012 to March, 2014 and was accounted for in the Accounts for the FY: 2021-22 under other expenses. Detailed background of the above arrear payments are submitted herewith for kind appraisal of the Hon'ble Commission.

Payment of DPS of Rs.23.26 crores made by GRIDCO to PGCIL :

279. The petitioner GRIDCO had challenged the CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010 as well as the subsequent Amendments of the

said Regulations due to anomalies and moreover due to significant increase in POC charges attributable to the State of Odisha.

280. The above matter was initially registered before Hon'ble Orissa High Court and subsequently transferred to Hon'ble Delhi High Court. As per directives of Hon'ble Delhi High Court vide order dated 30.07.2013 in W.P (C) No. 4867 of 2012 (matter is presently sub-judice before the Hon'ble Delhi High Court along with other petitions filed by State Utilities of Bihar, Maharashtra and Jharkhand).

On an application filed by PGCIL, vide affidavit dated 30.07.2013 Hon'ble Delhi High Court had directed as under:-

"15. Dealing next with the applications of the Power Grid Corporation, the claim made is for appropriate directions to the petitioners to pay the charges which they have to bear in terms of the impugned directions. This Court is of the opinion that with the dismissal of the petitioner's application, there really should be no need for such directions. Nevertheless, to put the matter beyond the pale of controversy; the writ petitioners are hereby directed to abide by the conditions in the impugned regulations, with regard to payments to the Power Grid Corporation. In case any of the Petitioners makes a request for payment of arrears of charges, the respondents should consider the same reasonably, and in the light of the applicable rules and regulations, including those pertaining to paying such amounts through installments, subject to prescribed conditions in that regard."

281. In accordance with the above directives, GRIDCO made payment of the arrear outstanding from Jan'2012 to March'2014 to the tune of Rs.152.71Cr.during FY: 2013-14. The above amount was considered by the Hon'ble Commission as pass through and subsequently trued up in the past period.
282. However, the Delayed Payment Surcharge was not paid by GRIDCO due to lack of clarity in this regard in the above order of Hon'ble Delhi High Court , as because there was no further financial implications due to deferment of such arrear towards DPS.

However, vide order dated 22.08.2019, Hon'ble High Court of Delhi observed the following:

"Direction for payment of the transmission charges and delayed payment surcharge has already been mentioned in our orders dated 30.07.2013 and 02.11.2007 passed in these writ petitions. We are informed by the learned Senior Counsel appearing for Power Grid Corporation that other petitioners are paying these transmission charges and delayed payment surcharge, if any, as the case may be, to the Power Grid Corporation except Gridco Ltd."

283. After lot of deliberations and obtaining legal opinion on above order, payment was made for an amount of **Rs.23.26 crores** towards DPS for the period from January, 2012 till March 2014 in FY 2021-22. It is to be mentioned that, inadvertently the DPS payment by the petitioner GRIDCO was booked under Administration & General expenses in the annual accounts for the FY: 2021-22 instead of under power purchase cost. However, the claim was submitted in the True up application for FY: 2021-22 by GRIDCO. The Hon'ble Commission during the truing up exercise for FY: 2021-22 did not consider the above uncontrollable expense and further while disposing the Review petition in Case No. 38/2024 vide order dated 19.09.2024 directed the Petitioner to submit the claim during the ARR submission for the FY: 2025-26. It is submitted that, complying to the above directives, the detailed facts are submitted above for kind consideration of the Hon'ble Commission towards approval of the liabilities settled by the Petitioner.

284. Hon'ble Commission may therefore kindly consider to approve the DPS payment of **Rs.23.26Cr.** paid to PGCIL to meet the contractual obligations, separately in the ARR as the aforesaid expense are already considered in the Accounts for FY: 2021-22, which cannot be further trued up based on audited accounts in the succeeding years.

I. Interest on OHPC Securitised Dues:

285. GRIDCO had filed the Petition No 35/2023 before OERC in the matter of seeking direction of the Hon'ble Commission regarding settlement of OHPC Securitised dues. In view of Interim Order of Hon'ble Commission dated 23.05.2023 in above petition, the following amicable settlement was agreed upon in the meeting held on 26.06.2023 under the Chairmanship of Additional Chief Secretary, Department of Energy, Govt. of Odisha:

- a. The outstanding interest up to 31.03.2021 amounting to Rs 152.93 crore to remain unaltered.
- b. The principal amount of Rs 619 crore shall carry simple interest @ 6% per annum w.e.f 01.04.2021.
- c. Total outstanding interest up to June'23 amounting to Rs 236.50 crore (i.e Rs 152.93 crore upto 31.03.2021 and Rs 83.57 crore from 01.04.2021 to 30.06.2023)

@6%p.a) shall be paid by GRIDCO in 18 equated monthly instalment w.e.f July'23.

d. The principal amount of Rs 619 crore along with interest shall be paid by GRIDCO in 72 equated monthly instalments from July'2023.

e. GRIDCO shall claim the amount paid to OHPC in its BSP application, the Commission would be requested to consider it favorably.

286. Hon'ble Commission the final order in Case No 35/2023 dated 11.07.2023 **(ED-37)** has observed that since, both GRIDCO and OHPC are Government of Odisha undertakings, the above terms of settlement shall be binding on the parties and for settlement of the dues, they shall adhere to those terms without making deviation.

287. **Arrear interest charges paid/payable till 31.03.2024:** The Hon'ble Commission in its ARR & BSP order for FY 2024-25 vide para 429 had allowed interest cost of Rs.144.56 crore on OHPC Securitized Dues as pass through for FY 2023-24 as detailed below:

Table-81: OHPC Securitized Dues

Sl.No	Particulars	Amount (Rs. Cr)
a.	Arrear Interest out standing dues upto 30.06.2023	236.49
b.	50% of arrear Interest o/s till 30.06.2023	118.25
c.	Current Interest payable for the period July'23 to Mar'24	26.31
d.	Pass through allowed for FY 2024-25 (b+c)	144.56

288. **Current Interest paid/payable till 31.03.2025:** GRIDCO has paid interest of Rs 15,60,39,584/- till Sept'24 (i.e., during 1st half of FY 2024-25) on outstanding principal amount. Further, interest payable on the outstanding principal amount during Oct'24 to Mar'25 comes to Rs. 14,05,64,583/-. So, total interest paid/payable on outstanding principal amount during FY 2024-25 stands at **Rs 29,66,04,167/-** (Rs.15,60,39,584/- + Rs. 14,05,64,583/-).

289. **Total pass-through claim on settlement of OHPC Securitize dues:** Considering arrear interest charges and current interest charges paid/payable for FY 2024-25, GRIDCO herewith claims Pass-Through for **Rs 147,90,75,367/-** as detailed below:

Table-82: Details of Securitize dues

Sl.No	Particulars	Amount (Rs. Cr)
a.	Arrear Interest o/s till 30.06.2023	236.49
b.	Balance 50% arrear Interest o/s till 30.06.2023	118.24
c.	Current Interest paid/payable during FY 2024-25	29.66
d.	Pass through claim for FY 2025-26 (b+c)	147.90

A detail calculation of interest cost liability in respect of OHPC securitize Dues for the period up to 31.03.2025 is given at **(ED-38)**.

290. The Petitioner GRIDCO submits the total additional costs for kind consideration and approval of the Hon'ble Commission.

Table 83: Summary of Total Pass Through Cost claimed in the ARR for FY 2025-26

Sl. No.	Name of the Station	Particulars	Amount proposed for Pass Through (Rs. Crore)
1	OPGC	Secondary Fuel Oil Cost ,Ash Transportation Expenses and other expense, Electrical Inspection Fees and Tax and Cess on land, paid by OPGC for Stage-I &II	14.19
2	M/s. Vedanta Ltd.	Water Charges for the period from April'2020 to March'2024, Ash Transportation Charges Nov'23 to Mar'25 and Filing Fees for block period 2019-24 vide Case No. 20 of 2020	91.41
3	M/s.GMR Kamalanga Energy Ltd	Electricity Duty ,SOC and MOC Charges and Ash Transportation Charges	100.44
4	M/s. NAVA Ltd	Infirm Power Cost and Energy Charges as per OERC directions vide order dated 02.09.2024 in Case No.11 of 2024	6.30
5	M/s. JSW Energy (Utkal) Limited	Monthly energy bills paid and payable to JSWEUL towards power supplied to GRIDCO from Unit#1 i.e. 350 MW Unit from Feb'24 to Sep'24 and to be supplied during the period Oct,2024 to March,2025	65.83

Sl. No.	Name of the Station	Particulars	Amount proposed for Pass Through (Rs. Crore)
6	M/s. Maadurga Thermal Power Company Limited	Energy Charges for FY 2024-25	7.91
7	NTPC	Additional O&M Charges due to Wage Revision and Water Charges claim of NTPC Station FSTPS -III	6.10
8		Recovery of Cost due to Foreign Exchange Rate Variation (FERV) claim of Darlipalli, Barh-I , TSTPS-I and FSTPS-I	3.55
9	Teesta V	TDS to NHPC and publication and filing fee (Truing up of tariff for the period 2014-19) and publication and filing fee period of FY:2019 to FY: 2023-24	1.38
10	Mangdechu	Tariff Revision of Mangdechu from 22nd July'2024 to Mar'25	7.19
11	Renewable Energy	Samal Barrage SHEP (Differential Energy Charges paid to PTC for the period from FY 2009-10 to FY 2023-24, Additional Charges for FY 2024-25 and Reimbursement of Water Charge and SLDC Charge for FY 2023-24 & FY2024-25)	134.41
12	DSM	Recovery of charges towards deficit in the Deviation and Ancillary Service Pool Account for the period from 16.09.2023 to 15.09.2024	57.43
13	PGCIL	PGCIL charges for FY 2023-24 as per OERC Review Order dated 19.09.2024 for ARR & BSP FY 2024-25 in Case No38/2024	23.26
14	Finance Cost	Additional Cost towards Interest on OHPC Securitised Dues	147.90
	Total		667.29

(9) Finance Cost:

291. The Petitioner humbly submits that the total dues receivable from the erstwhile DISCOMs as on 30.09.2024 stands at **Rs.6,588Cr** as detailed below:

Table-84:DUES RECEIVABLE FROM DISCOM UTILITIES AS ON 30TH SEPTEMBER, 2024 (INCL.DPS)

(Rs in Crore)

Sl. No	Particulars	CESU	WESCO	SOUTHCO	NESCO	Total
1	BSP dues	1,174.34	647.61	787.30	560.57	3,169.82
2	Converted to Equity	-299.95	-299.95	-199.95	-249.95	-1,049.80
3	Net BSP Dues (1-2)	874.39	347.66	587.35	310.62	2,120.02
4	Securitized Dues (incl. DPS)	1,219.91	239.27	196.12	208.51	1,863.81
5	NTPC Power Bond	-		146.45	48.91	195.36
6	Tr. Scheme dues	118.85	12.10	29.91	6.74	167.60
7	Cash Support	174.00	-	-	-	174.00
8	Total as on Vesting Date (3 to 7)	2,387.15	599.03	959.83	574.78	4,520.79
9	Less paid/ settled post vesting:					
I	Balance BSP of FY 20-21	-225.16	-	-98.88	-	-324.04
ii	Paid/adjusted till 30.09.2024	-289.86	-276.67	-180.35	-415.59	-1,162.47
iii	Settled under OTS by DISCOMs	-21.60	-36.53	-20.26	-75.48	-153.87
Iv	Settled under OTS directly by GoO	-18.32	-25.38	-7.59	-10.63	-61.92
	Total Settled	-554.94	-338.58	-307.08	-501.70	-1,702.30
10	Total Receivable excl. DPS	1,832.21	260.45	652.75	73.08	2,818.49
11	DPS on BSP	819.49	1,417.23	647.31	884.99	3,769.02
12	Total receivable incl. DPS	2,651.70	1,677.68	1,300.06	958.07	6,587.51

* **BSP dues after adjustment of equity and credit/debit bills.**

****The receivable excludes the receivable on account of CAPEX dues.**

292. The Petitioner humbly submits that due to the uncontrollable factors including non-settlement of BSP dues by the erstwhile DISCOMs, lack of cost reflective Tariff, non-amortization of approved Regulatory Asset, absence of carrying cost up to FY: 2022-23 the Petitioner had to borrow funds from external sources and now borrowing from Govt. of Odisha.

293. With reference to interest payable on OHPC Securitized Dues, the Petitioner humbly submits that Petitioner had filed the Petition No 35/2023 before OERC in the matter of

seeking direction of the Hon'ble Commission regarding settlement of OHPC Securitized dues.

294. In view of Interim Order of Hon'ble Commission dated 23.05.2023 in above petition, the following amicable settlement was agreed upon in the meeting held on 26.06.2023 under the Chairmanship of Additional Chief Secretary, Department of Energy, Govt. of Odisha:

- The outstanding interest up to 31.03.2021 amounting to Rs.152.93crore to remain unaltered.
- The principal amount of Rs.619crore shall carry simple interest @ 6% per annum w.e.f. 01.04.2021.
- Total outstanding interest up to June'23 amounting to Rs.236.50 crore (i.e., Rs.152.93 crore up to 31.03.2021 and Rs.83.57 crore from 01.04.2021 to 30.06.2023 @6%p.a) shall be paid by GRIDCO in 18 equated monthly instalment w.e.f July'23.
- The principal amount of Rs 619 crore along with interest shall be paid by GRIDCO in 72 equated monthly instalments from July'2023.
- GRIDCO shall claim the amount paid to OHPC in its BSP application, the Commission would be requested to consider it favorably.

295. That, Hon'ble Commission vide final order dated 11.07.2023 (**ED-39**) has viewed that since, both GRIDCO and OHPC are Government of Odisha undertakings, the above terms of settlement shall be binding on the parties and for settlement of the dues, they shall adhere to those terms without making deviation.

296. Further, the Petitioner humbly submits that, the amicable settlement which was agreed upon in the meeting held on 26.06.2023 under the Chairmanship of Additional Chief Secretary, Energy Department and referred in the final order dated 11.07.2023 stipulates GRIDCO to claim the amount paid to OHPC in its BSP application and the Commission would be requested to consider it favorably.

297. Considering interest payable on OHPC Securitized Dues during F.Y 2025-26, GRIDCO claims interest cost amounting to **Rs 23,47,04,167/-** in ARR of GRIDCO for FY 2025-

26. The details of calculation of interest liability in respect of OHPC Securitised Dues for FY 2025-26 is given at **(ED-40)** for kind reference.

298. The Petitioner GRIDCO humbly submits that, Supreme Court of India vide order dated 05.10.2023 in Civil Appeal No.414 of 2007 vide Para 29 stipulates that:

“xxxxxxx. The interest cannot be equated with the principal loan amount, as the interest will amount to cost incurred by GRIDCO. However, interest burden can be passed on to the DISCOMs in proportion of their outstanding. Therefore, while passing a fresh order in terms of final order, the Commission will have to allow the interest on loan to pass through, as observed above, xxxxxxx.” (ED-41)

299. Hon’ble Supreme Court of India in the aforementioned order dated 05.10.2023 further, vide Para 34 stipulates ;

“ 34. while passing an order pursuant to the order of remand, all the contentions based on the findings of the Appellate Tribunal and the Commission for the subsequent years, as approved by this court, must be taken into consideration by the Commission. If, in subsequent orders as approved by this court, different criteria or different principle was applied, submissions based on the same can always be canvassed in the proceedings pursuant to the order of remand”.

300. Considering the above directives of Hon’ble Supreme Court, the Petitioner humbly submit before Hon’ble Commission to approve total interest obligations to the tune of **Rs.428.55 crore** in its ARR & BSP order for FY 2025-26. The table below provides the summary of Interest & Finance Charges projected for FY 2025-26:

Table -85: Interest & Finance Charge Projections for FY 2025-26

Sl. No.	Particulars	Interest (Rs. Cr.)
1	OHPC Loan 619 crore	23.47
2	Odisha GB III 25cr	0.76
3	Odisha Gramya Bank IV 40 CR	0.01
4	Odisha Gramya Bank V 35 CR	0.19
5	Andhra Bank VIII 300CR	6.36
6	Andhra Bank IX 400CR	10.23
7	Punjab National Bank 600 CR	22.40
8	Bank of Baroda TL-5	4.23
9	Bank of Baroda TL-6	6.03
10	Bank of Baroda TL-7	17.95
11	Canara Bank TL-1	3.57
12	Canara Bank TL-3	6.99

Sl. No.	Particulars	Interest (Rs. Cr.)
13	Canara Bank TL-4	2.63
14	Canara Bank TL-5	18.28
15	Canara Bank TL-7	19.70
16	Canara Bank TL-9	19.70
17	Soft Loan from GoO	111.45
18	Add: Proposed Soft Loan for FY 24-25	27.30
19	Add: Proposed Soft Loan for FY 25-26	26.25
	Total	327.50
20	Add: Financial Charges (Inc. Interest on SOD)	85.66
21	Add: Guarantee Commission	15.39
	Total	428.55

The

details of Interest & Finance Charges payable during FY: 2025-26 is furnished in format “F-2” prescribed by Hon’ble Commission.

9.1 Gross Fixed Assets:

301. The Petitioner submits herewith the details of Gross Fixed Assets (GFA), based on the audited accounts for FY:2023-24 along with proposed additions in the current FY: 2024-25 and the ensuing FY 2025-26. The table below provides the summary of Fixed Assets:

**Table-86: Projected Gross Fixed Asset for FY 2025-26
(Rs. Cr.)**

Sl. No	Particulars	FY 2023-24 Closing Balance (Audited)	FY 2024-25 Additions during the year	FY 2024-25 Deletion during the year	FY 2024-25 Closing Balance	FY 2025-26 Addition during the year	FY 2025-26 Closing Balance
1	Plant and Machinery (Air Conditioner)	0.43	0.02	-	0.45	0.02	0.47
2	Computers	5.95	0.43	0.11	6.27	0.36	6.63
3	Office Automation – ERP	0.90	3.55	-	4.45	0.52	4.97
4	Vehicles	0.39	-	-	0.39	-	0.39
5	Office Equipment	0.30	0.35	-	0.65	0.39	1.04
6	Furniture, Fixture	0.47	0.10	-	0.57	0.08	0.65
7	Building	-	0.51	-	0.51	-	0.51
8	Total	8.44	4.96	0.11	13.29	1.37	14.66

302. The Petitioner has implemented Enterprise Resource Planning (ERP) software as part of office automation initiatives for which the planned expenditure amounts to Rs. 0.52 Cr during FY 2025-26. This will help in improving the various processes for efficient management of bulk supply functions including power procurement and accounting

functions. The Petitioner humbly submits before the Hon'ble Commission to approve the additional cost in the ARR & BSP for FY 2025-26.

9.2 Depreciation:

303. The Petitioner proposes **Rs.2.40 Crore** towards depreciation on fixed assets including vehicle, furniture and office equipment, etc. for approval in the ARR & BSP for FY 2025-26. Depreciation is calculated based on rates approved by the Hon'ble Commission. The detailed calculation of depreciation is submitted in OERC Form "F-13". The Petitioner submits before Hon'ble Commission to approve the depreciation to the tune of **Rs.2.40 Crore** for the FY 2025-26.

9.3 Employee Cost:

304. Basic pay has been projected for the existing employees with 3% annual increment considering the expected manpower to be deployed from OPTCL on deputation during FY 2025-26. Further, the employees cost also includes the consolidated remuneration on CTC basis of two nos. of Directors expected to be appointed in GRIDCO.

305. Hon'ble Commission may kindly consider that, the guidelines issued by Finance Department, Govt. of Odisha vide circular no.30251 date.02.11.2024 (**ED-42**) for preparation of Budget Estimate for the FY 2025-26 have been followed for projection of Employee Cost for the ensuing FY 2025-26. Considering the same, the rate of DA has been considered @61% of Basic Pay for the FY 2025-26.

306. The petitioner humbly submits that, it proposes **Rs 22.69 crore** towards Employees Cost in its ARR & BSP application for FY 2025-26 as per the details furnished in OERC form "F-9". The petitioner prays the Hon'ble Commission for the approval of the same in the ARR & BSP order for FY 2025-26.

9.4 Repair & Maintenance (R&M):

307. The petitioner submits that, it has proposed R&M cost for the FY 2025-26 to the tune of **Rs.2.05 crore**. As SAP has been implemented w.e.f. 01.07.2023, annual maintenance

cost towards SAP and AMC of server and storage have been included in OERC format “F-10” for consideration of Hon’ble Commission.

308. The petitioner humbly submits that, it proposes Rs 2.05 crore towards Repairs & Maintenance Cost in its ARR & BSP application for FY 2025-26 as per the details furnished in OERC form”F-10”.The petitioner prays the Hon’ble Commission for the approval of the same in the ARR & BSP order for FY 2025-26.

9.5 Administration & General Expenses:

309. For current financial year 2024-25, the Hon’ble Commission has allowed Rs.11.19 crore towards A&G expenses in the ARR & BSP order for FY 2024-25 after considering the average A&G expenses of last 5 years and factoring in the annual inflation @5% for FY 2024-25, License fees of Rs.1.90 crore & ERPC Membership Fees of Rs.0.18 crore.

310. Hon’ble Commission considers the approved cost towards normal A&G of current financial year and factor the expected annual inflation of 5% for subsequent financial year. Over and above the aforesaid amount, the applicable license fees and ERPC Membership fees/Fund are also allowed by the Hon’ble Commission.

311. In line with above principles, the petitioner proposes **Rs.12.25 crore** towards A&G expenses for approval by Hon’ble Commission in the ARR & BSP order for FY 2025-26 as detailed below:

Table-87: Administrative & General Expenses

Description	Rs. (In Crore)
1.Normal A&G expenses approved for FY: 2024-25	9.11
2. Annual Inflation for FY :2025-26 @5%	0.46
3. Normal A&G Expenses for FY:2025-26 (1+2)	9.57
4. ERPC Membership Fees	0.18
5. License Fees for FY :2025-26	2.50
6. Total A&G for FY: 2025-26 (3+4+5)	12.25

The detailed calculation of A&G expenses is submitted in OERC Form “F-11”.

9.6 Return on Equity:

312. It is submitted before Hon'ble Commission that GRIDCO had paid up share capital to the tune of Rs.3002.04 crore as on 31st March'2023 with conversion of outstanding loan and bond payable to Govt. of Odisha including interest up to 31.12.2021 amounting to Rs.2039.69 crores to equity vide Govt. of Odisha Notification No 2584 dated 28.03.2022. Also there was allotment of further equity share capital of Rs.174.82 crore in favour of Govt. of Odisha during FY 2021-22 towards consideration in place of equity investment in TP-DISCOMs.
313. There is issuance of additional equity share capital of Rs.289.44 Crore in favour of Govt. of Odisha as consideration in place of equity investment in TP-DISCOMs during FY 2023-24, increasing the paid up share capital to **Rs.3,291.48 Cr. as on 31.03.2024.**
314. The Petitioner submits that, in earlier orders Hon'ble Commission referred to the Govt. of Odisha Notification of 29.01.2003, wherein it has been stated that GRIDCO and OHPC should not be entitled to any return on equity till the sector becomes viable or FY 2005-06 whichever is earlier. This was later extended up to FY 2010-11. The relevant extract from the BSP Order for FY 2023-24 is reiterated below:

“452. The Commission observed that in past years Return on Equity is not being allowed in the ARR of GRIDCO. The Commission has explained the reasons for this at Para-425 to 427 of its ARR and BSP order for the FY 2009-10 dated 20.03.2009 passed in Case No. 62/2008, which is depicted below:

“425. At the time of vesting of the transmission and distribution business with GRIDCO by the State Govt. on 01.04.1996, the Equity Share Capital was Rs.327.00 crore. During the subsequent years up to FY 2004-05, there were additional infusions of equity capital of Rs.165.98 crore by the State Govt. raising the total equity of GRIDCO to Rs.492.98 crore. At the time of de-merger of GRIDCO effective from 01.04.2005, the equity share capital of OPTCL was stated at Rs.60 crore, leaving the balance equity share capital with GRIDCO. The equity share capital issued to Govt. of Orissa was both in consideration of cash and other than cash. Therefore, the licensee claimed ROE @14% on the equity share capital of Rs.432.98 crore.

426. The Commission in earlier orders referred to the Govt. of Odisha Notification of 29.1.2003, wherein it has been stated that GRIDCO and OHPC should not be entitled to any return in equity till the sector becomes viable or FY 2005-06 whichever is earlier. Further, in partial modification of earlier notification, the Govt. of Orissa in its letter no. 5302 dtd. 6.5.2003 stated the following “GRIDCO

and OHPC shall not be entitled to any Return on Equity (ROE) except in respect of the new projects commissioned after 01.04.2006 till the sector becomes viable or end of 2005-06 whichever is earlier.” The Commission would like to clarify that correspondence has been made with Govt. of Orissa to clarify the status of the notification dtd. 29.1.2003, as it has great impact on Tariff. Government while communicating their views/comment in their letter No.1704 dtd. 17.02.2009 in response to the Commission’s letter No.2807 dtd. 31.12.2008 have stated as under:

“In the matter of extension of the moratorium period and other dispensation stipulated in Energy Department Notification No.1068/R&R-I-2/2002 dt. 29. 01. 2003 up to 2011- 12 it is stated that Finance Department has already concurred in the proposal of keeping in abeyance of up-valuation of assets of GRIDCO/OTCL & OHPC and freezing of RoE to GRIDCO & OHPC from the year, 2006-07 to 2010-11. The matter is going to be placed before the State Cabinet for a decision after which the same will be communicated.”

427. As regards infusion of capital for the new project, the Commission verified audited accounts of GRIDCO upto 2004-05. It is found that the addition of share capital shown in the balance sheet after 1996-97 includes only the grants received from DFID towards R&M expenditure and rehabilitation assistance. As per Project Memorandum signed between Govt. of India and Govt. of Orissa and DFID, the above amount has been shown under share deposit account pending allotment of shares for non-receipt of approval from Govt. of Orissa.”

315. The Petitioner humbly submits that the circumstances that formed the basis of not allowing Return on Equity to GRIDCO no longer exist. Hon’ble Commission has successfully completed the vesting of utilities under Section 20(1)(a) of the Electricity Act 2003 so as to bring in a turnaround of the Distribution Sector in the State.
316. It is submitted that the Return on Equity (@16% pre-tax) to GRIDCO is required for maintaining Reserves & Surplus as would be available to the Petitioner so as to meet the eventualities out of its own funds while discharging the function as the ‘State Designated Entity’. It is therefore humbly submitted before Hon’ble Commission to kindly consider to approve RoE of **Rs.526.64 Cr @16%** on the paid up capital of **Rs.3,291.48 Cr.** for FY 2025-26.

9.7 Other Income/ Miscellaneous Receipts

317. The Petitioner submits that it expects to earn an amount of **Rs. 74.60 Crore** during FY 2025-26 (at approved rate of Rs.7.46 /kWh for FY 2024-25) towards emergency sale of power to the tune of **100 MU** to the long term customers NALCO (70 MU) and IMFA

(30 MU) for meeting their emergency & back-up power requirements as per the MOU signed with them.

Table- 88: Historical Revenue from Emergency sales (Rs. In Cr.)

Particulars	FY 2022-23	FY 2023-24	FY 2024-25 (up to Sept,24)	Projections for FY 2025-26
Revenue from Emergency Sales	78.82	137.06	81.34	74.60

10 Aggregate Revenue Requirement (ARR) for FY2025-26:

318. The Petitioner submits herewith before the Hon'ble Commission, the projected uncontrollable costs for the ensuing Tariff period covering the FY 2025-26 under various approved heads for determination and approval of Net ARR to the tune of **Rs. 14,820.37 Cr.** with cost breakup as follows :

Table -89: Aggregate Revenue Requirement for FY 2025-26

Aggregate Revenue Requirement (ARR) for FY 2025-26	
Particulars	Amount (Rs in Cr.)
Power Purchase cost as per MOD for State requirement	13,759.74
Pass Through Cost	667.29
Finance cost	428.55
Employee cost	22.69
Repair & Maintenance	2.05
Administrative and General Expenses	12.25
Depreciation	2.40
Aggregate Revenue Requirement (ARR)	14,894.97
Less: Revenue from Emergency sales of 100MU	74.60
Net Aggregate Revenue Requirement (ARR)	14,820.37
Revenue from DISCOMs at existing BSP of respective DISCOMs including Surcharge @35P/U from TPWODL	13,092.36
Units to be sold to DISCOMs (MU)	38,814
Revenue Deficit at existing BSP of respective DISCOMs	-1,728.01

319. It is submitted before the Hon'ble Commission that the proposed Revenue of **Rs. 13,092.36 Crore** is estimated at the existing approved BSP for FY 2024-25 for the respective DISCOMs including surcharge levied on TPWODL, to be earned by the Petitioner from sale of proposed energy of **38,813.55 MU** (excl. emergency sale) to the four Distribution Companies during FY 2025-26. against the proposed Net Aggregate Revenue Requirement of **Rs.14,820.37 Crores**, with net revenue deficit of **Rs.1,728.01 Crores**.

11 BSP Proposal for FY 2025-26:

320. The Petitioner submits that, with present Bulk Supply Price structure, it cannot meet its uncontrollable estimated costs as submitted above. In order to meet the deficit, GRIDCO humbly submits the present ARR & BSP Application for FY 2025-26 before Hon'ble Commission, praying for upward revision of Bulk Supply Price to be effected from 1st April, 2025. The proposal is submitted for kind approval of the Hon'ble Commission for determination and approval of the Aggregate Revenue Requirement (ARR) & Bulk Supply Price (BSP) for the FY: 2025-26.

321. It is humbly submitted before the Hon'ble Commission that the Estimated Bulk Supply Price (BSP) to meet the proposed Aggregate Revenue Requirement (ARR) of GRIDCO for FY: 2025-26 is as summarized below:

Table-90: Proposed BSP for FY 2025-26

Sl. No	Components	Proposed ARR & BSP for FY 2025-26
A	Net ARR to be recovered through BSP (Rs. Cr.)	14,820.37
B	Units to be sold to DISCOMs Utilities (MU)	38,813.55
C	Proposed Average BSP to recover the Net Total Aggregate Revenue (P/U) [C= A*1000/B]	381.84

The petitioner humbly submits that, considering the Return on Equity (ROE) as Rs.526.64 Crores @16% on **Rs.3291.48Crores (upto 31.03.2024)** detailed at Para 316 (above), the proposed average BSP works out to **395.40 P/U**.

11.1 Demand Charge for excess SMD:

322. The Petitioner GRIDCO submits that the long term Power Purchase Agreements (PPA) are executed for availing power from various long term sources in order to meet the long term demand of the State. Hon'ble Commission may kindly consider that SMD of the DISCOMs bears higher significance in the demand supply dynamics of the State energy portfolio. The excess capacities demands additional costs while lower capacity does not meet the demand during the peak hours. Thus, the optimum capacities are of high significance which will cater the maximum demand of the State in the peak season from the long term tied up capacities based on the Simultaneous Maximum Demand (SMD) projections of DISCOMs along with the expected load growth over a longer time horizon.
323. The Petitioner submits that it is obligated to ensure adequate energy security through quality and uninterrupted power supply to the state consumers. Thus, long term energy planning is of prime importance for the Petitioner and plays a crucial role for balancing the **Demand-Supply matrix** to cater both long term, short term and particularly the unprecedented escalated demand during the summer months. As per the practice, the escalated demand is met from the availability of power from the approved stations. However, at certain times the Petitioner is compelled to avail power through Banking, procure from power exchanges or over draw from the grid. It is submitted that, execution of proper capacity planning through long term PPAs with Generators will resolve the issue to certain extent.
324. It is submitted that DISCOMs have projected the monthly SMD at a higher level which at times may be difficult to match with the supply front in case there is shortfall due to forced outage of large size thermal units. It is submitted that SMD, being the key factor in the whole "Demand Supply Dynamics", needs to be assessed prudently so as to make the requisite capacity planning by the petitioner to cater the long-term demand.
325. Therefore, Hon'ble Commission may kindly consider to allow the Petitioner to procure power from other sources during deficit situations if required and therefore may kindly consider to allow the petitioner to recover additional costs through suitable tariff mechanism.

326. The Petitioner submits before the Hon'ble Commission to establish monthly control measure, the Simultaneous Maximum Demand (SMD) at 105% and the existing annual basis may be revised to monthly basis. This adjustment will determine the monthly SMD for DISCOMs towards the recovery of charges for any excess energy drawn during a month beyond the approved monthly SMD. The 105% SMD limit will be applied and charged on a monthly basis on the annual average SMD being within the approved SMD. Hon'ble Commission may consider to levy demand charges @ Rs.250/KVA/Month from distribution companies on the excess SMD based on the following conditions:

- a. When the actual SMD of a DISCOM in a month exceeds the permitted monthly SMD (105% of the approved SMD), the respective distribution company will be billed by GRIDCO @ Rs.250/kVA/Month for the excess SMD.
- b. Such charges shall not be adjusted at the end of the year even if the actual monthly SMD remains within the permitted monthly SMD in any other month(s) of the same financial year.

11.2 Over Drawl Charges

327. The Petitioner GRIDCO submits that the energy bills are raised on the DISCOMs at approved BSP Rate(s) during a Financial Year in terms of the Hon'ble APTEL Judgement dated 07.05.2018 in Appeal No. 55 of 2015. This practice may need to continue till Deviation Settlement Mechanism (DSM) Regulation by the Hon'ble Commission (OERC) is pronounced and implemented in the State of Odisha.

328. It is pertinent to submit that, during the day to day management of power demand of the State, it is observed that, the Petitioner is forced to overdraw power from the grid when there is unplanned /forced outage of generating units within the State or Central Generating Stations. Under such scenario, when there is under drawal by a particular DISCOM having higher BSP vis-à-vis its monthly approved SMD but over drawal by other DISCOMs, the petitioner is unable to recover the cost of power as approved in the ARR through BSP, which results in under recovery of costs. It is quite pertinent that, there is restriction on over drawl of power by ERPC/ERLDC and if any utility continues, with over drawal then stringent strictures are being issued by ERPC/ERLDC from time

to time. Therefore, meeting State demand through over drawl from the grid is not a prudent proposition at any point of time, which needs to be avoided.

329. In view of the aforesaid facts and accountability for maintaining grid discipline depending on stability in the drawal pattern by the DISCOMs, it is humbly prayed before the Hon'ble Commission to issue necessary suitable guidelines to the DISCOMs to adhere to the approved drawal quantum of energy and SMD limit fixed and approved by Hon'ble Commission so as to prevent any kind of additional cost burden on the petitioner GRIDCO.

11.3 Rebate Policy:

330. It is submitted that, the following rebate policy for payment of BSP may be approved by the Hon'ble Commission in the ARR order for FY 2025-26 as proposed below:

- a. For crediting the BSP bill of the DISCOM to GRIDCO's designated current bank account through Letter of Credit on presentation or through NEFT/RTGS within a period of five (5) working days, a rebate of 1.5 % shall be allowed.
- b. Where the amount is credited on any day after five (5) working days and within a period of twenty five (25) days of presentation of bill, a rebate of 1.00% shall be allowed.
- c. The DISCOMs may pay their BSP dues for eligibility of rebate provided total current BSP dues needs to be settled by the DISCOM within 25th day of presentation of BSP bill.

11.4 Delayed Payment Surcharges (DPS):

331. The petitioner GRIDCO proposes that the surcharge for delayed payment of Bulk Power Supply bills i.e. payment after 30 days from the date of submission of bills, may be allowed by the Hon'ble Commission to be levied at 1.50% per month.

11.5 Sale of Power through Specialised Tariff Scheme

332. A special scheme was devised by the Hon'ble OERC allowing industry having CGP with CD above 20 MW who are willing to avail power from DISCOMs and operating at load factor more than 80% to draw power through Tri-partite Agreement (TPA) at a rate approved in the BSP/ RST order for the respective FY and the said scheme has been in

place since FY 2021-22. Further, the said scheme was revisited by the Hon'ble Commission in FY 2022-23 vide Case No. 25/ 2022 where the modalities of the scheme were modified so as to accommodate the sale of intermittent surplus available with GRIDCO at a fixed tariff approved by the Hon'ble Commission. Accordingly, the tariff was fixed at Rs. 4.75/ kVAh for FY 2022-23 and Rs. 5/ kVAh for FY 2023-24 as well as for FY 2024-25. In FY 2024-25 (till Oct'24), around 623.04 MU of energy has been sold through TPA earning a revenue of around Rs. 285.94 Cr. As it is anticipated that surplus power shall also be available on intermittent basis during FY 2025-26, therefore it is humbly submitted that the Hon'ble Commission may consider to approve the Special Tariff Scheme under TPA at a suitable tariff for FY 2025-26. However, it shall be the responsibility of the CGP based industries to make necessary arrangements to meet its RPO against the power scheduled under the TPA.

333. It is further submitted that in FY 2024-25, only one number of CGP based industry, i.e. M/s Vedanta Ltd. availed power under the TPA scheme through TPWODL for the months of Apr'24 to Jun'24 without extending it any further. When enquired about its unwillingness to avail power under the TPA scheme, the CGP based industry informed that it doesn't require additional power owing to its CD enhancement from Aug'24 and commencement of supply from its contracted RE power plants. During the months of Jul'24 and Aug'24, when the TPA was not in place, it was observed that Vedanta Ltd. had substantially decreased the energy drawl against its CD during the off-peak hours, thereby reducing the overall EHT consumption of TPWODL during the respective period. However, after several discussions, the CGP based industry expressed its willingness to avail power under the TPA for the period from 15th Sept'24 to 31st Oct'24 subject to day ahead flexibility of power supply and allocation of green power in the TPA.

334. The matter was discussed with TPWODL and both the pre-condition requested by the CGP based industry were agreed upon and incorporated in the TPA for the period from 15th Sept'24 to 31st Oct'24, extendable on mutual agreement basis. With regards to the allocation of green power it was left at the discretion of TPWODL to extend the green energy, allotted to it by GRIDCO on monthly basis in line with the BSP order for FY 2024-25, to the CGP based industry against its CD provided the industry is availing

power under the TPA scheme in the concerned month. However, the industry cannot claim any RPO against the aforesaid allocated green energy.

335. The CGP based industry availed power under the above arrangement till 31st Oct'24 without extending it any further. After discussion with TPWODL and Vedanta Ltd., it was understood that green power couldn't be extended to the CGP based industry by the DISCOM as there is no regulatory provision for the same and if green energy is allocated to the CGP based industry by the DISCOM then the same shall be at the rate of Rs 0.20/kWh (i.e. the Green Tariff Premium approved by the Hon'ble Commission). Since the CGP based industry cannot claim RPO against the allocated green energy, thus it didn't agree to the aforesaid condition of the DISCOM.
336. It is pertinent to mention here that in the RST order for FY 2024-25, the Hon'ble Commission has permitted the consumers of any category to get a Green Consumer Certification by DISCOMs, if 100% of their power requirement is met from renewable sources by DISCOMs, for which the consumer has to pay additional 20 paise per unit as premium over and above the normal rate of Energy Charges. The aforesaid facility was not made available to the Consumers having CGP. After discussion with TPWODL, it is understood that there is very less demand for Green Consumer Certification and the renewable energy allocated to TPWODL on monthly basis mostly remains unutilised. Thus, the renewable energy available with the DISCOMs remaining unutilised, after meeting the requirement of Green Consumer Certification, can be allotted to the CGP based industries, availing power under the TPA scheme, without any premium considering the benefits of the scheme and to make the scheme more attractive.
337. Therefore, in consideration of the above, it is humbly submitted before the Hon'ble Commission to allow the DISCOM to extend the unutilised green energy available with it, after meeting the requirement of the Green Consumer Certification program, to the CGP based industry, availing power under the TPA scheme in the respective month. The aforesaid allocation to such CGP based industries may be allowed without any premium and the said industry shall not claim any RPO against the aforesaid allocated green energy. For this purpose, it is prayed before the Hon'ble Commission to allow the surplus renewable energy with one DISCOM to be shared with the other DISCOM having deficit renewable power under intimation to GRIDCO.

12 Prayers

338. GRIDCO humbly prays before the Hon'ble Commission to consider the ARR & BSP Application for FY: 2025-26 on record and approve the ARR & BSP as proposed in the Application and kindly consider to admit the instant ARR Application/Petition with the following prayer:

1. To consider all reasonable and uncontrollable costs as proposed in the instant Petition and accordingly, approve the ARR and Bulk Supply Price (BSP) for FY 2025-26, effective from 1st April 2025;
2. To approve the proposed Net Aggregate Revenue Requirement (ARR) of Rs. **14,820.37** Crores with BSP @ **381.84 P/U** for FY 2025-26 to meet the State requirements.
3. To approve monthly Simultaneous Maximum Demand (SMD) and monthly quantum of energy for sale of power to each DISCOM on realistic basis instead of the prevailing approval on annual basis by Hon'ble Commission;
4. To approve the Capacity Charges obligations, mandatorily payable by the Petitioner GRIDCO to different generating stations i.e., for all existing and upcoming stations with whom the Petitioner has long term PPAs, notwithstanding that the energy is not fully scheduled from these stations based on Merit Order Dispatch (MoD) principles. Therefore, Hon'ble Commission may kindly consider to allow such uncontrollable Capacity costs /charges through BSP;
5. To allow recovery of additional cost(s) due to over- drawl of energy, Fuel and Power Purchase Adjustment/Surcharge Adjustment(FPPAs) , on account of any other statutory increase/s, reimbursement of Electricity Duty/ Water Cess levied by the Government of Odisha and any other Statutory Levy/ Duty/ Taxes, etc. if any, be passed on to GRIDCO;
6. To approve the proposed TOD tariff (RST) in the State so as to incentivize the industrial and commercial tariff for electricity consumption during the off peak hours and with a higher tariff during peak hours as per the guidelines issued by Govt. of India so as to manage the State peak demand without resorting to availing power from DSM pool and the Power exchanges at high cost;

-
7. To issue necessary directions to the DISCOMs to undertake proactive measures to collect the outstanding dues from the defaulting consumers for the pre vesting period and pay GRIDCO's share of past arrear collection on monthly basis along with monthly MIS reports;
 8. To formulate a suitable mechanism to recover the shortfall towards erstwhile DISCOMs' receivable of **Rs.6,587.51 Cr.** as on **30.09.2024**, arising out of sale of utilities of CESU, WESCO, NESCO and SOUTHCO through regulatory process preferably in the next two to three years;
 9. To consider the re-submission of the proposal as per the directives of Hon'ble Commission vide order dated 19.09.2024 in Case No. 38 of 2024 towards DPS on PGCIL dues of **Rs 23.26 Cr.**
 10. To consider the proposal for framing methodologies towards TPA sales to optimize the power cost.
 11. To pass such order which are necessary to meet the above prayers and the Petitioner GRIDCO craves leave to amend / modify the application as necessary and make further additional submissions if any, during the course of hearing;
 12. To kindly consider to condone any inadvertent omissions/ errors/ shortcomings/ delays and allow to make further submissions, as may be required at a future date to support this Petition in terms of modification / clarification (if any); and
 13. Pass such further orders, as the Hon'ble Commission may deem fit and proper, keeping in view of the facts and circumstances of the case.

for which, GRIDCO, as is duty bound, shall ever pray.

By the Petitioner Through

Place: Bhubaneswar

Date: 30.11.2024

(Bijay Kumar Das)

CGM (PP) I/c, GRIDCO Ltd.

**BEFORE THE ODISHA ELECTRICITY REGULATORY COMMISSION
PLOT NO.4, CHUNUKOLI, SHAILASHREEVIHAR, CHANDRASEKHARPUR
BHUBANESWAR – 751021**

IN THE MATTER OF: Application for approval of Aggregate Revenue Requirement (ARR) and determination of Bulk Supply Price (BSP) for FY: 2025-26 under Section 86 (1) (a) & (b) and all other applicable provisions of the Electricity Act, 2003 read with relevant provisions of OERC (Conduct of Business) Regulations, 2004, OERC (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations' 2022 and other related Rules and Regulations.

PETITIONER: GRIDCO Limited, Bhubaneswar, Odisha

Affidavit verifying the Application

I, Shri Bijay kumar Das, aged about 59 years, S/o Late Shri Bhupati Chandra Das , Chief General Manager (Power Purchase), I/c GRIDCO do hereby solemnly affirm and say as follows:

I am the Chief General Manager (Power Purchase) I/c of GRIDCO Ltd., the Applicant in the above matter and am duly authorized to make this affidavit on its behalf.

The statements made in the foregoing Paragraphs of this Application herein are based on information and I believe them to be true.

**Bhubaneswar
November 30, 2024**

DEPONENT

Proposed Bulk Supply Price Schedule of GRIDCO for carrying out Bulk Supply Activity for FY 2025-26

Bulk Supply Price:

This bulk Supply Price (BSP) is applicable for supply of power to Distribution and Retail Supply Licensees. The total charges shall be calculated by summation of following charges in Para (a) to (f) below as applicable:

(a) Energy charge:

GRIDCO proposes to recover its net Revenue Requirement of Rs.14,820.37Crore through Energy Charge/ BSP from the DISCOMs towards sale of 38,813.55MU. The average BSP is proposed @ 381.84 P/U only for recovery of above proposed net Revenue Requirement.

(b) Demand Charge:

The Petitioner submits before the Hon'ble Commission to establish monthly control measure, the Simultaneous Maximum Demand (SMD) at 105% and the existing annual basis may be revised to monthly basis. This adjustment will determine the monthly SMD for DISCOMs towards the recovery of charges for any excess energy drawn during a month beyond the approved monthly SMD. The 105% SMD limit will be applied and charged on a monthly basis on the annual average SMD being within the approved SMD. Hon'ble Commission may consider to levy demand charges @ Rs.250/KVA/Month from distribution companies on the excess SMD based on the following conditions:

- a) When the actual SMD of a DISCOM in a month exceeds the permitted monthly SMD (105% of the approved SMD), the respective distribution company will be billed by GRIDCO @ Rs.250/kVA/Month for the excess SMD.
- b) Such charges shall not be adjusted at the end of the year even if the actual monthly SMD remains within the permitted monthly SMD in any other month(s) of the same financial year.

(c) Over Drawl Charges

It is humbly prayed before the Hon'ble Commission to issue necessary suitable guidelines to the DISCOMs to adhere to the approved drawal quantum of energy and SMD limit fixed and approved by Hon'ble Commission so as to prevent any kind of additional cost burden on the petitioner GRIDCO.

(d) Rebate Policy:

It is submitted that, the following rebate policy for payment of BSP may be approved by the Hon'ble Commission in the ARR order for FY 2025-26 as proposed below:

- For crediting the BSP bill of the DISCOM to GRIDCO's designated current bank account through Letter of Credit on presentation or through NEFT/RTGS within a period of five (5) working days, a rebate of 1.5 % shall be allowed.
- Where the amount is credited on any day after five (5) working days and within a period of twenty five (25) days of presentation of bill, a rebate of 1.00% shall be allowed.
- The DISCOMs may pay their BSP dues for eligibility of rebate provided total current BSP dues needs to be settled by the DISCOM within 25th day of presentation of BSP bill.

(e) Delayed Payment Surcharges (DPS):

The petitioner GRIDCO proposes that the surcharge for delayed payment of Bulk Power Supply bills i.e. payment after 30 days from the date of submission of bills, may be allowed by the Hon'ble Commission to be levied at 1.50% per month.

(f) Sale of Power through Specialised Tariff Scheme under Tripartite Agreement

A special scheme was devised by the Hon'ble OERC allowing industry having CGP with CD above 20 MW who are willing to avail power from DISCOMs and operating at load factor more than 80% to draw power through Tri-Partite Agreement (TPA) at a rate approved in the BSP/ RST order for the respective FY and the said scheme has been in place since FY 2021-22.

The renewable energy available with the DISCOMs remaining unutilised, after meeting the requirement of Green Consumer Certification, can be allotted to the CGP based industries, availing power under the TPA scheme, without any premium considering the benefits of the scheme and to make the scheme more attractive .It is prayed before the Hon'ble Commission to allow the surplus renewable energy with one DISCOM to be shared with the other DISCOM having deficit renewable power under intimation to GRIDCO.