

DAKSHINANCHAL VIDYUT VITRAN NIGAM LIMITED

TRUE-UP PETITION FOR FY 2021-22, APR
PETITION FOR FY 2022-23 AND ARR &
TARIFF PETITION FOR FY 2023-24 OF THE
CONTROL PERIOD FROM FY 2020-21 TO FY
2024-25



DAKSHINANCHAL VIDYUT VITRAN NIGAM LIMITED

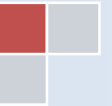


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List of Abbreviations

Abbreviation	Full Form
A&G	Administration & General
ACoS	Average Cost of Supply
Act	The Electricity Act, 2003
APR	Annual Performance Review
ARR	Aggregate Revenue Requirement
ATE	Appellate Tribunal of Electricity
BPL	Below Poverty Line
BST	Bulk Supply Tariff
CAGR	Compound Annualized Growth rate
Capex	Capital Expenditure
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGRF	Consumer Grievance Redressal Forum
CGS	Central Generating Stations
COD	Commercial Operation Date
Commission	Uttar Pradesh Electricity Regulatory Commission
Cr	Crore
DBST	Differential Bulk Supply Tariff
Discom/DisCom	Distribution Company
DSM	Deviation Settlement Mechanism
EA 2003	The Electricity Act, 2003
EHT	Extra High Tension
ERP	Enterprise Resource Planning
FPPCA	Fuel and Power Purchase Cost Adjustment
FSA	Fuel Surcharge Adjustment
FY	Financial Year
GFA	Gross Fixed Assets
GoUP	Government of Uttar Pradesh
HP	Horsepower
HT	High Tension
IEX	Indian Energy Exchange Limited
IPDS	Integrated Power Development Scheme
IPP	Independent Power Producer
ISTS	Inter-State Transmission System

Abbreviation	Full Form
KVA	Kilo Volt Ampere
kWh	Kilo Watt Hour
LT	Low Tension
MOD	Merit Order Dispatch
MU	Million Units
MW	Mega Watt
MYT	Multi-Year Tariff
NFA	Net Fixed Assets
NTPC	National Thermal Power Corporation
O&M	Operation and Maintenance
PGCIL	Power Grid Corporation of India Ltd.
PLF	Plant Load Factor
PLR	Prime Lending Rate
POSOCO	Power System Operation Corporation Limited
PPA	Power Purchase Agreement
R&M	Repair and Maintenance
R-APDRP	Restructured Accelerated Power Development and Reforms Programme
REC	Renewable Energy Certificate
RLDC	Regional Load Dispatch Centre
RoE	Return on Equity
RPO	Renewable Purchase Obligation
SBI PLR	SBI Prime Lending Rate
SERC	State Electricity Regulatory Commission
SLDC	State Load Dispatch Centre
SLM	Straight Line Method
SOP	Standard of Performance
T&D	Transmission & Distribution
UI	Unscheduled Interchange
UPERC	Uttar Pradesh Electricity Regulatory Commission
WDV	Written Down Value

1. **Background and Procedural History**

1.1. **Background**

- 1.1.1. Dakshinanchal Vidyut Vitaran Nigam Limited (hereinafter referred as 'Agra Discom' or 'DVVNL') came in to existence in 2003 as a subsidiary company of UPPCL and is responsible for power distribution in Discom covering its jurisdiction area of the following districts: Agra, Mathura, Mainpuri, Aligarh, Hathras, Etawah, Etah, Farrukhabad, Firozabad, Kanpur City, Kanpur rural, Banda, Jhansi, Kannauj, Auraiya, Jalaun Urai, Hamirpur, Mahoba, Lalitpur, Chitrakoot and Kanshiram Nagar.

1.2. **Distribution Tariff Regulations**

- 1.2.1. The Hon'ble Commission notified the UPERC (Multi Year Tariff for Distribution and Transmission) Regulations, 2019 (hereinafter referred to as "MYT Regulations 2019") which will be applicable for determination of tariff from April 1, 2020 and onwards up to FY 2024-25 [i.e., till March 31, 2025] unless extended by the Order of the Hon'ble Commission. These Regulations were signed on 23rd September 2019, however, were finally published on Hon'ble Commission's website on 21st November 2019, after gazette notification.
- 1.2.2. This regulation is applicable for the purposes of Multi-Year Annual Revenue Requirement (ARR) filing and Tariff determination of all the distribution licensees within the State of Uttar Pradesh.

1.3. **Petitions and Orders till now during the CP from FY 2020-21 to FY 2024-25**

- 1.3.1. The Petitioner had submitted its Business Plan Petition for the Control Period from FY 2020-21 to FY 2024-25 on February 28, 2020 and ARR and Tariff Petition for FY 2020-21 (including True-up for FY 2018-19 and APR for FY 2019-20) on June 30, 2020. In response to the same, the Hon'ble Commission has issued Business Plan Order on October 27, 2020 and Order for True-up for FY 2018-19, APR for FY 2019-20 and ARR & Tariff for FY 2020-21 on 11 November 2020.

The Petitioner submitted its ARR and Tariff Petition for FY 2021-22 (including True-up for FY 2019-20, APR for FY 2020-21) on Feb 22, 2021. In response to the same, the Hon'ble Commission issued its Order for True-up for FY 2019-20, APR for FY 2020-21 and ARR & Tariff for FY 2021-22 on July 29, 2021.

The Petitioner submitted its ARR and Tariff Petition for FY 2022-23 (including True-up for FY 2020-21, APR for FY 2021-22) on March 08, 2022.

- 1.3.2. Hon'ble Commission has issued Order for True-up for FY 2020-21, APR for FY 2021-22 and ARR & Tariff for FY 2022-23 on July 20, 2022.

1.4. ARR Petition for FY 2023-24, APR for FY 2022-23 & True-up for FY 2021-22

- 1.4.1. The Petitioner is hereby submitting the audited True-up for FY 2021-22, APR Petition for FY 2022-23 and ARR Petition for FY 2023-24 under UPERC MYT Regulations, 2019 along with the prescribed tariff formats.

2. True Up for FY 2021-22

2.1. Consumption Parameters: Consumer Numbers, Connected Load and Sales

2.1.1. The actual overall consumption parameters for FY 2021-22 is in the range of the numbers approved by the Hon'ble Commission vide its Tariff Order dated 29.07.2021. Further some differences are observed in the actual consumption parameters vis-à-vis consumption parameters approved by the Hon'ble Commission in some categories due to unavoidable circumstances of Covid pandemic and lockdown across the state of Uttar Pradesh. Further, Sales is derivative of demand which is also uncontrollable in nature due to which Variation in Sales has been noticed in LMV-1. The Category-wise approved consumption parameters vis-à-vis actual consumption parameters for FY 2021-22 is shown in the Table below:

TABLE 2-1: ACTUAL CONSUMPTION PARAMETERS FOR FY 2021-22

Category	Approved			Actual		
	Consumer s (Nos)	Load (kW)	Sales (MU)	Consumers (Nos)	Load (kW)	Sales (MU)
LMV-1 Domestic Light Fan & Power	48,11,625	61,71,395	7,288	50,74,171	67,91,940	6,755
LMV-2-Non Domestic Light Fan & Power	2,44,084	6,11,059	1,034	2,64,755	7,13,995	973
LMV-3 Public Lamps	635	11,951	40	2,312	30,847	79
LMV-4 Light, Fan & Power for Public/Private Institution	23,037	99,070	291	41,251	1,49,235	238
LMV-5 Private Tube Well/Pumping Sets	2,83,257	20,97,297	3,613	2,98,985	24,11,573	4,344
LMV-6 Small & Medium Power upto 100 hp/75kw	38,299	3,44,880	729	43,266	4,36,849	537
LMV-7 Public Water Works	9,616	97,829	362	11,559	1,24,630	392
LMV-8 State Tube Wells & Pumps Canal upto 100HP	7,321	1,50,531	642	7,554	1,77,000	656
LMV-9 Temporary Supply	2,072	3,947	6	3,278	11,155	34
LMV- 10 Departmental Employees	18,741	88,865	140	17,195	81,534	163
LMV -11 Electrical Vehicles	-	-	-	4	1,409	1
HV-1 Non Industrial Bulk Load	556	1,29,897	300	596	1,51,921	283
HV-2 Large & Heavy Power above 100 BHP (75 kW)	3,164	10,69,837	3,425	3,145	10,03,412	2,552
HV-3 Railway Traction	-	-	-	-	-	-
HV-4 Lift Irrigation & P. Canal above 100BHP (75kW)	55	39,865	137	44	45,330	94
Bulk Supply	4,92,198	11,78,779	1,870	1	11,89,958	2,030
Extra State Consumer	-	-	-	-	-	-
Total	59,34,661	1,20,95,202	19,879	57,68,116	1,33,20,788	19,129

- 2.1.2. Further, as directed by the Hon'ble Commission in its Tariff Order dated 20.07.2022, the Petitioner has taken care about booking of Sales under unmetered categories. The Sales booked under the unmetered categories are as per the norms approved by the Hon'ble Commission in its order dated 09.12.2016.
- 2.1.3. The Hon'ble Commission is requested to approve the actual consumption parameters as submitted in the above table.

2.2. Distribution Losses

- 2.2.1. UP State owned Distribution Licensee are in process of formulation of Revamp Distribution Sector Scheme in the State. Accordingly, based on the actual distribution loss of the Discom, DVVNL has estimated the Loss trajectories for the Coming years for the implementation of the Scheme, same is as under:

TABLE 2-2 DISCOM WISE DISTRIBUTION LOSS TRAJECTORY AS PER ACTION PLAN

Distribution Loss	FY 2021-22	FY 2022-23	FY 2023-24
DVVNL	25.64%	20.05%	17.10%

- 2.2.2. In this regard it is noteworthy that, Ministry of Power after considering the ground realities which have impacted UP Discom's efforts towards achieving the loss trajectory agreed under the MoU by its letter No.06/01(01)/2020 NEF(U) dated 06.03.2020 had sought for a revised action plan for reduction in distribution losses including AT&C loss trajectory from the Government of U.P. This evinces that the loss trajectory agreed under the UDAY MoU is not sacrosanct, since the same was based on then existing facts and circumstances, which have substantially changed presently.
- 2.2.3. It is further submitted that the distribution loss trajectory for the period FY 2020-21 to FY 2024-25 was approved by the Hon'ble Commission in its Business Plan Order dated 27.10.2020. The Hon'ble Commission has not deliberated upon the same in the Tariff Order for FY 2021-22 and merely held that distribution loss trajectory as approved in Order dated 27.10.2020 will be applicable for FY 2021-22.
- 2.2.4. Moreover, the primary objective of UDAY scheme was to reduce AT&C losses which includes distribution loss as well as collection efficiency. While reduction in AT&C losses may be possible to the extent mentioned in UDAY scheme due to factors like improvement in collection efficiency, reduction in distribution losses are not feasible to that extent. It is also submitted that while the Hon'ble Commission has approved the Distribution losses in accordance with the trajectory as per the UDAY MoU, the Hon'ble Commission has not adopted the

collection efficiency as per the UDAY agreement and has been issuing Tariff Orders on 100% collection efficiency, thereby partially adopting the UDAY agreement. In view of the above, the approved trajectory of distribution losses in Business Plan Order dated 27.10.2020 is neither achievable nor based on the adoption of UDAY agreement in totality. Even the MYT Regulations, 2014 provision related to sharing of difference of AT&C loss, was also not allowed by Hon'ble Commission in the True-Up Orders despite Licensee request. Therefore, considering only selected parameters of UDAY Scheme has caused huge financial loss to the Discom. Therefore, Hon'ble Commission was also requested to delink the distribution losses for new control period from the normative losses approved for previous control period. This request of the Licensee is supported by the fact that MYT Regulations of the Hon'ble Commission are also changed at the start of new control period on the change of facts and circumstances experienced during the previous control period. Many provisions related to Financial Impact have been changed by the Hon'ble Commission in MYT Regulations, 2019 as compared to previous MYT Regulations. Accordingly, the changed facts and circumstances related to distribution loss trajectory should be considered.

- 2.2.5. In addition to the above it is pertinent to mention that provisions relating to sharing of distribution loss and AT&C loss does not exist in the UPERC MYT Regulations, 2019. Hence, the Petitioner would not be able to claim any sharing on account of distribution losses during the control period FY 2020-21 to FY 2024-25. Therefore, the Petitioner has to propose the distribution loss trajectory on the basis of actual loss level of FY 2021-22, and which the Petitioner can possibly achieve, otherwise it will result in significant under recovery of power purchase cost.
- 2.2.6. It is submitted that considering the above mentioned ground realities and the significant impact of Covid-19 pandemic and further reduction in C&I category consumption and subsequent increase in the consumption at LT network such as Domestic consumer categorises has adversely impacted on the overall distribution loss of the Petitioner. Therefore, considering the actual Covid-19 scenarios and its impact on the distribution loss of subsequent years, the Petitioner further requests the Hon'ble Commission to approve the Distribution loss trajectory as proposed in the Petition.
- 2.2.7. It is a settled position that normative parameters under the MYT Order and Tariff Regulations ought to be fixed considering past performance (i.e., it should be relatable to past performance), actuals of the previous control period and it should be capable of achievement.

- 2.2.8. The Hon'ble Supreme Court in the matter of civil appeal no. 1933 of 2022 dated 23.11.2022 has directed all the SERCs as under: -

*“131. We direct all State Regulatory Commissions to frame Regulations under Section 181 of the Act on the terms and conditions for determination of tariff within three months from the date of this judgment. **While framing these guidelines on determination of tariff, the Appropriate Commission shall be guided by the principles prescribed in Section 61, which also includes the NEP and NTP.** Where the Appropriate Commission(s) has already framed regulations, they shall be amended to include provisions on the criteria for choosing the modalities to determine the tariff, in case they have not been already included. The Commissions while being guided by the principles contained in Section 61 shall effectuate a balance that would create a sustainable model of electricity regulation in the States. The Regulatory Commission shall curate to the specific needs of the State while framing these regulations. Further, the regulations framed must be in consonance with the objective of the Electricity Act 2003, which is to enhance the investment of private stakeholders in the electricity regulatory sector so as to create a sustainable and effective system of tariff determination that is cost efficient so that such benefits percolate to the end consumers.”*

It can be perceived from the above direction of Hon'ble APEX court that the Regulation shall be framed considering the provisions of National Tariff Policy. Further, clause 5.11(f) of National Tariff Policy 2016 lays down the framework for determination of operating norms for distribution tariff: -

“5.11 Tariff policy lays down the following framework for performance based cost of service regulation in respect of aspects common to generation, transmission as well as distribution. These shall not apply to competitively bid projects as referred to in para 6.1 and para 7.1 (6). Sector specific aspects are dealt with in subsequent sections.

f) Operating Norms

*Suitable performance norms of operations together with incentives and disincentives would need to be evolved along with appropriate arrangement for sharing the gains of efficient operations with the consumers. Except for the cases referred to in para 5.11(h)(2), the operating parameters in tariffs should be **at “normative levels” only and not at “lower of normative and actuals”**. This is essential to encourage better operating performance. The norms should be efficient, relatable to past performance, capable of achievement and progressively reflecting increased efficiencies*

and may also take into consideration the latest technological advancements, fuel, vintage of equipments, nature of operations, level of service to be provided to consumers etc. Continued and proven inefficiency must be controlled and penalized.”

In terms of Clause 8.2 of the Tariff Policy 2016 The Hon’ble Commission is mandated to set an achievable distribution loss trajectory: -

“8.2 Framework for revenue requirements and costs 8.2.1 The following aspects would need to be considered in determining tariffs:

.....

(2) AT&C loss reduction should be incentivised by linking returns in a MYT framework to an achievable trajectory. Greater transparency and nurturing of consumer groups would be efficacious.”

.....

- 2.2.9. In view of the above, it is submitted that the distribution loss trajectory is also a normative parameter for determination of distribution tariff and hence for FY 2021-22 the same ought to have been relatable to past performance of the Discoms and capable of achievement. A table evincing the actual distribution losses of the Petitioner in the previous years (i.e. FY 2019-21) vis-à-vis the loss trajectory approved by the Hon’ble Commission is as below: -

TABLE 2-3 ACTUAL DISCOM LOSSES IN PREVIOUS YEARS

Discom	FY 2018-19			FY 2019-20			FY 2020-21		
	As per UDAY Scheme	As per MYT Order	Actual	As per UDAY Scheme	As per MYT Order	Actual	As per MYT Order	As per RDSS Scheme	Actual
DVVNL	16.25%	16.25%	20.96%	12.10%	12.10%	21.27%	11.80%	25.90%	25.90%

- 2.2.10. In view of the above it is evident that in the past years (i.e. FY 2019-21) the actual distribution loss of the Petitioner was in the range of 20.96% to 25.90%. However, the Hon’ble Commission for FY 2021-22 has fixed a stringent and practically unachievable distribution loss trajectory for the Discoms, which is approximately 50% less than the actuals of the last fiscal year (i.e. FY 2020-21) and what was claimed by the Petitioner. There is no possible way that the Petitioner can achieve the loss trajectory approved by the Hon’ble Commission. It is pertinent to note that even the Hon’ble Commission in the True-up

Order for FY 2020-21 has itself accepted that it approves a stringent distribution loss trajectory for the Petitioner, which is much lower than the actual losses of the Discoms: -

“6.7.40. In past, the Commission has approved several schemes for theft reduction and power quality improved like replacement of LT lines with ABC conductor, whose CAPEX was allowed in the ARR considering the merit of the schemes and benefits to both Discoms and also considering the fact that the Commission approves a stringent Distribution Loss trajectory in the ARR, which is much lower than the actual losses of the Discoms and such schemes like ABC cables should be allowed to encourage and support the Discoms/utilities efforts to reduce the losses and meet the Commission target.”

2.2.11. Hence, an impossible and impractical distribution loss trajectory would further impact the financial situation of the Licensees as it has a huge long-term impact on the Discoms and would result in severe under recovery of power purchase cost. Hence, it is requested to the Hon’ble Commission to approve the actual distribution loss as claimed by the Petitioner.

2.2.12. The actual voltage-wise distribution losses are submitted below for kind perusal of the Hon’ble Commission.

TABLE 2-4 ACTUAL DISCOM LOSSES IN LT & HT SYSTEM FOR CONTROL PERIOD FY 2021-2022

S.No.	Voltage Level	Actual (MUs)
A	System Losses At 220 kV	
1	Energy received into the system	25725.44
2	Energy sold at this voltage level	396.84
3	Energy transmitted to the next (lower) voltage level	25325.83
4	Energy Lost	2.77
5	Total Loss in the system (4/1)*100%	0.01%
B	System Losses At 132 kV	
1	Energy received into the system	25325.83
2	Energy sold at this voltage level	89.51
3	Energy transmitted to the next (lower) voltage level	25236.24
4	Energy Lost	0.08
5	Total Loss in the system (4/1)*100%	0.0003%
C	System Losses At 33 kV	
1	Energy received into the system	25236.24
2	Energy sold at this voltage level	883.32
3	Energy transmitted to the next (lower) voltage level	24348.95
4	Energy Lost	3.97

S.No.	Voltage Level	Actual (MUs)
5	Total Loss in the system (4/1)*100%	0.02%
D	System Losses at 11 kV & LT	
1	Energy received into the system	24348.95
2	Energy sold at this voltage level	17752.76
3	Energy Lost	6596.19
4	Total Loss in the system (4/1)*100%	27.09%
E	Overall Losses	
1	Energy In (A1+B1+C1)	25725.44
2	Energy Out (A2+B2+C2+D2))	19129.25
3	Total T&D Loss ((1-2)/1)*100%	25.64%

2.3. Energy Balance

- 2.3.1. It is pertinent to mention that provisions relating to sharing of gains/losses on account of distribution losses and AT&C losses does not exist in the UPERC MYT Regulations, 2019 which were existing in the erstwhile UPERC MYT Distribution Tariff Regulations, 2014. Due to this the Petitioner would not be able to claim sharing of gains/losses on account of variation in distribution losses during the control period from FY 2020-21 to FY 2024-25. Thus, the Petitioner is compelled to claim the actual distribution losses for FY 2021-22. The Hon'ble Commission is requested to consider the submission of the Petitioner and allow actual losses for FY 2021-22.
- 2.3.2. The Energy Balance approved by the Hon'ble Commission vis-à-vis actual/claimed Energy Balance for FY 2021-22 is shown in the Table below:

TABLE 2-5 : ENERGY BALANCE FOR FY 2021-22

Particulars	Approved in T.O. dt. 29.07.2021	Actual / Claimed
Retail Sales	19,879	19,129
Distribution Losses	11.33%	25.64%
Energy at Discom Periphery for Retail Sales	22,418	25,725
Intra-State Transmission Losses	3.33%	3.33%
Energy Available at State periphery for Transmission	23,190	26,611
Energy Purchase from Stations connected to Intra-State Transmission network (UPPTCL)	14,142	16,885
Energy Purchase from Stations connected to Inter-State Transmission network (PGCIL)	9,048	9,726
Inter-State Transmission Loss	2.94%	5.34%
Net Energy Received from Stations connected to Inter-State Transmission network at UPPTCL Periphery (Ex-Bus)	9,322	10,275
Power Purchase Required & Billed Energy (MU) (Ex-Bus)	23,464	27,160

2.4. Power Purchase Expenses

2.4.1. Generating Station wise breakup of quantum and power purchase cost for FY 2021-22 is as follows:

TABLE 2-6 GENERATING STATION-WISE POWER PURCHASE COST FOR FY 2021-22

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
A	Long term Sources										
a	Power procured from own Generating Stations (if any)	-									
		-									
b	From State Generating Stations Thermal										
1	ANPARA-A	2,520.04	0.94	236.56	2.29	577.93	0.03	6.50	-	3.26	820.99
2	ANPARA-B	5,183.42	0.54	282.22	2.02	1,045.19	0.15	75.22	-	2.71	1,402.63
3	ANPARA-D	4,139.45	1.99	824.76	1.83	758.25	0.31	127.27	-	4.13	1,710.28
4	HARDUAGANJ	64.41	11.24	72.40	5.52	35.58	0.08	0.49	-	16.84	108.46
5	HARDUAGANJ EXT.	901.00	4.91	442.19	3.46	311.36	0.62	56.16	-	8.99	809.71
6	OBRA-A	-	-	-	-	-	-	-	-	-	-
7	OBRA-B	2,981.06	0.99	294.84	2.22	660.41	0.65	195.09	-	3.86	1,150.34
8	PANKI	-	-	-	-	-	-	-	-	-	-
9	PARICHHA	-	-	-	-	-	-	-	-	-	-
10	PARICHHA EXT.	992.14	3.08	305.86	4.41	437.11	0.21	20.50	-	7.70	763.47
11	PARICHHA EXT. STAGE-II	1,349.79	3.39	457.22	4.34	586.35	0.19	26.16	-	7.93	1,069.73
12	UPRVUNL CONSOLIDATED	6,893.41	-	-	1.06	732.56	0.45	312.80	-	1.52	1,045.36
13		-	-	-	-	-	-	-	-	-	-
14		-	-	-	-	-	-	-	-	-	-
	Sub-Total	25,024.71	1.17	2,916.06	2.06	5,144.74	0.33	820.18	-	3.55	8,880.98

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
			-		-		-			-	
c	From State Generating Stations Hydro		-		-		-			-	
1	RIHAND	487.24	0.40	19.44	0.72	35.32	-	-	-	1.12	54.77
2	OBRA (H)	286.56	0.29	8.17	0.41	11.83	-	-	-	0.70	20.00
3	MATATILA	52.07	0.39	2.02	0.57	2.96	-	-	-	0.96	4.97
4	KHARA	265.68	0.46	12.19	0.44	11.62	-0.00	-0.01	-	0.90	23.80
5	UGC	24.55	-	-	2.83	6.95	-	-	-	2.83	6.95
6	SHEETLA	0.94	-	-	1.54	0.15	-	-	-	1.54	0.15
7	BELKA	3.01	-	-	2.17	0.65	-	-	-	2.17	0.65
8	BABAIL	4.30	-	-	2.79	1.20	-	-	-	2.79	1.20
	UPJVNL CONSOLIDATED	92.93	-	-	-	-	1.04	9.70	-0.00	1.04	9.70
		-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-
	Sub-Total	1,217.27	0.34	41.82	0.58	70.69	0.08	9.69	-0.00	1.00	122.20
			-		-		-			-	
d	From Central Sector Generating Stations		-		-		-			-	
a	Thermal (NTPC)		-		-		-			-	
1	ANTA GPS	16.38	28.61	46.88	6.71	10.99	-0.39	-0.64	-	34.93	57.24
2	AURAIYA GPS	88.82	10.44	92.71	4.38	38.95	-0.09	-0.83	-	14.73	130.82
3	DADRI GPS	296.69	3.17	94.03	9.01	267.37	0.88	26.07	-	13.06	387.48
4	FGUTPS-I	633.87	2.42	153.11	3.04	192.76	0.27	17.05	-	5.73	362.91
5	FGUTPS-II	349.00	2.08	72.52	3.37	117.73	0.69	24.21	-	6.14	214.45
6	FGUTPS-III	200.03	2.62	52.46	3.42	68.42	0.42	8.45	-	6.47	129.33
7	FGUTPS-IV	789.08	2.68	211.81	2.98	234.97	0.21	16.19	-	5.87	462.97
8	FSTPS	127.99	1.25	15.98	2.93	37.51	0.29	3.75	-	4.47	57.23

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
9	GODARWARA STPS-I	12.22	4.14	5.06	2.53	3.08	-0.05	-0.06	-	6.62	8.09
10	JHANOR GPS	0.01	17.23	0.01	5.37	0.00	0.00	0.00	-	22.60	0.01
11	KAWAS GPS	0.00	30.88	0.01	9.69	0.00	-0.12	-0.00	-	40.45	0.01
12	KHARGONE STPS	13.68	3.12	4.27	2.43	3.32	-0.02	-0.03	-	5.52	7.56
13	KHTPS-I	279.14	1.62	45.33	2.43	67.93	-0.00	-0.11	-	4.05	113.15
14	KHTPS-II	1,051.97	1.51	158.99	2.29	240.48	0.00	0.00	-	3.80	399.46
15	KORBA-I STPS	16.51	0.59	0.97	1.25	2.06	0.02	0.04	-	1.86	3.07
16	KORBA-III STPS	8.01	1.15	0.92	1.23	0.98	0.04	0.03	-	2.42	1.94
17	LARA STPS-I	20.97	1.91	4.01	1.95	4.08	-0.01	-0.03	-	3.85	8.07
18	MAUDA-I STPS	19.31	2.45	4.73	3.09	5.97	0.15	0.28	-	5.69	10.98
19	MAUDA-II STPS	50.00	1.58	7.89	3.30	16.50	0.01	0.05	-	4.89	24.44
20	NCTPS-I	983.93	0.54	53.41	2.84	279.69	-	-	-	3.39	333.10
21	NCTPS-II	301.07	3.27	98.47	3.12	93.91	0.07	2.03	-	6.46	194.41
22	RIHAND-I	1,968.42	0.83	163.70	1.39	274.38	0.01	1.60	-	2.23	439.68
23	RIHAND-II	1,529.09	0.81	123.65	1.44	220.91	-	-	-	2.25	344.57
24	RIHAND-III	1,992.59	1.44	286.74	1.39	276.86	0.00	0.48	-	2.83	564.07
25	SINGRAULI	3,938.48	0.72	284.44	1.48	582.91	-0.00	-0.28	-	2.20	867.07
26	SIPAT-I STPS	25.06	1.31	3.29	1.33	3.34	-0.00	-0.01	-	2.64	6.63
27	SIPAT-II STPS	10.64	1.07	1.14	1.38	1.47	0.02	0.02	-	2.48	2.64
28	SOLAPUR TPS	16.14	3.08	4.96	3.43	5.53	0.00	0.01	-	6.51	10.50
29	TANDA -II-TPS	3,297.66	2.28	751.55	2.64	870.80	0.06	20.28	-	4.98	1,642.62
30	TANDA -TPS	913.98	3.34	305.42	3.54	323.46	0.15	14.01	-	7.03	642.88
31	VINDHYANCHAL-I STPS	14.81	0.84	1.24	1.50	2.22	-0.01	-0.01	-	2.33	3.45
32	VINDHYANCHAL-II STPS	8.99	0.73	0.66	1.38	1.25	-0.01	-0.01	-	2.11	1.90
33	VINDHYANCHAL-III STPS	9.73	1.06	1.03	1.40	1.36	-0.00	-0.00	-	2.46	2.39
34	VINDHYANCHAL-IV STPS	13.61	1.53	2.08	1.37	1.87	-0.00	-0.00	-	2.90	3.95
35	VINDHYANCHAL-V STPS	7.87	1.54	1.21	1.44	1.14	0.00	0.00	-	2.98	2.35

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
36	NTPC CONSOLIDATED	3,880.82	-	-	0.04	16.29	4.40	1,707.49	-7.67	4.42	1,716.11
37		-	-	-	-	-	-	-	-	-	-
38		-	-	-	-	-	-	-	-	-	-
	Sub-total	22,886.58	1.33	3,054.69	1.87	4,270.49	0.80	1,840.01	-7.67	4.00	9,157.52
			-	-	-	-	-	-	-	-	-
e	NPCIL		-	-	-	-	-	-	-	-	-
1	KAPS	3.43	0.27	0.09	2.01	0.69	0.03	0.01	-	2.32	0.80
2	NAPP	1,046.22	0.28	29.33	2.72	285.08	0.03	3.25	-	3.04	317.65
3	TAPP-3 & 4	12.91	0.18	0.24	3.20	4.13	0.00	0.00	-	3.38	4.36
4	RAPP-3 & 4	442.87	-	-	3.32	146.96	0.00	0.06	-	3.32	147.01
5	RAPP-5 & 6	777.72	-	-	3.88	301.78	-	-	-	3.88	301.78
6	NPCIL CONSOLIDATED	209.17	-	-	0.00	0.09	3.55	74.15	-0.00	3.55	74.25
		-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-
	Sub-Total	2,492.32	0.12	29.66	2.96	738.73	0.31	77.47	-0.00	3.39	845.85
			-	-	-	-	-	-	-	-	-
f	Hydro (NHPC)		-	-	-	-	-	-	-	-	-
1	SALAL	213.37	0.79	16.78	0.62	13.14	0.18	3.77	-	1.58	33.69
2	TANAKPUR	92.43	1.99	18.36	1.63	15.09	0.00	0.01	-	3.62	33.46
3	CHAMERA-I	350.67	0.98	34.25	1.14	40.01	-0.00	-0.04	-	2.12	74.23
4	URI	510.08	0.97	49.35	0.82	41.93	0.06	3.05	-	1.85	94.33
5	CHAMERA-II	352.03	1.10	38.57	1.01	35.38	0.00	0.05	-	2.10	74.00
6	DHAULIGANGA	294.02	1.36	39.92	1.21	35.72	-0.00	-0.07	-	2.57	75.57
7	DULHASTI	548.18	2.59	141.91	2.68	146.86	0.08	4.13	-	5.34	292.89
8	SEWA-II	0.46	3.05	0.14	2.65	0.12	0.41	0.02	-	6.11	0.28
9	CHAMERA-III	244.09	2.29	55.86	1.97	48.09	0.00	0.03	-	4.26	103.98
10	URI-II	361.45	2.05	74.19	1.98	71.57	0.11	3.85	-	4.14	149.61

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
11	PARBATI-III HEP	151.84	3.93	59.70	1.54	23.37	0.00	0.07	-	5.48	83.14
12	KISHANGANGA	627.67	2.12	133.04	1.97	123.59	0.02	1.18	-	4.11	257.81
13	NHPC CONSOLIDATED	292.32	-	-	0.20	5.97	8.26	241.54	-12.09	8.05	235.41
14		-	-	-	-	-	-	-	-	-	-
15		-	-	-	-	-	-	-	-	-	-
	Sub-Total	4,038.61	1.64	662.07	1.49	600.82	0.64	257.59	-12.09	3.73	1,508.39
			-		-		-			-	
g	HYDRO (NTPC)		-		-		-			-	
1	KOLDAM HPS	595.69	2.63	156.44	2.54	151.09	-	-	24.82	5.58	332.36
2	SINGRAULI SHPS	9.03	-	-	9.09	8.21	-6.89	-6.22	22.23	26.81	24.21
3		-	-	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-	-	-
5		-	-	-	-	-	-	-	-	-	-
	Sub-Total	604.72	2.59	156.44	2.63	159.30	-0.10	-6.22	47.05	5.90	356.57
			-		-		-			-	
h	THDC		-		-		-			-	
	HYDRO		-		-		-			-	
1	TEHRI	1,135.94	1.96	223.16	2.07	235.56	0.00	0.24	-	4.04	458.96
2	KOTESHWAR	442.11	2.28	100.70	2.31	102.30	0.00	0.10	-27.10	3.98	176.00
3	DHUKWAN	56.94	-	-	4.32	24.63	0.60	3.39	39.40	11.84	67.41
4	THDC Consolidated	140.38	-	-	-	-	3.44	48.29	61.40	7.81	109.70
5		-	-	-	-	-	-	-	-	-	-
	Sub-Total	1,775.38	1.82	323.86	2.04	362.49	0.29	52.02	73.70	4.57	812.07
			-		-		-			-	
i	SJVN		-		-		-			-	
1	RAMPUR	316.69	2.43	76.86	2.15	68.11	-0.56	-17.69	1.12	4.05	128.40
2	NATHPA JHAKRI	1,241.70	1.19	147.41	1.15	142.51	0.00	0.23	-1.12	2.33	289.03

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
3	SJVNL Consolidated	52.19	-	-	-	-	15.85	82.70	1.08	16.05	83.78
4		-	-	-	-	-	-	-	-	-	-
5		-	-	-	-	-	-	-	-	-	-
	Sub-Total	1,610.58	1.39	224.28	1.31	210.62	0.41	65.23	1.08	3.11	501.21
			-	-	-	-	-	-	-	-	-
j	NEEPCO		-	-	-	-	-	-	-	-	-
1	Kameng HEP	232.75	-	-	3.76	87.59	0.24	5.67	-0.00	4.01	93.26
		-	-	-	-	-	-	-	-	-	-
	Sub-Total	232.75	-	-	3.76	87.59	0.24	5.67	-0.00	4.01	93.26
			-	-	-	-	-	-	-	-	-
k	IPP/JV		-	-	-	-	-	-	-	-	-
	HYDRO		-	-	-	-	-	-	-	-	-
1	TALA	122.09	-	-	2.16	26.38	-	-	-	2.16	26.38
2	SRI NAGAR HEP	1,249.01	1.64	205.07	4.91	613.04	0.32	40.56	-	6.87	858.67
3	VISHNU PRAYAG	1,563.24	0.14	22.44	0.98	153.29	-0.26	-40.07	-0.00	0.87	135.66
4	KARCHAM	820.12	1.90	155.66	1.48	121.63	-0.03	-2.47	-	3.35	274.82
5	TEESTA-III	913.44	3.12	284.79	2.67	243.60	0.00	0.30	-	5.79	528.69
6	TEESTA URJA LTD	65.93	2.30	15.16	2.89	19.04	-	-	0.37	5.24	34.57
7	GMR BAJOLI HOLI	-	-	-	-	-	-	-	-	-	-
8	TIDONG POWER GENERATION	0.60	2.30	0.14	2.46	0.15	-	-	-	4.76	0.29
	Sub-Total	4,734.42	1.44	683.26	2.49	1,177.13	-0.00	-1.68	0.37	3.93	1,859.08
			-	-	-	-	-	-	-	-	-
	Thermal		-	-	-	-	-	-	-	-	-
1	APCPL	89.59	4.09	36.63	3.37	30.21	0.92	8.21	0.00	8.38	75.05
2	BEPL BARKHERA	179.25	6.18	110.70	4.64	83.25	-1.01	-18.17	-	9.81	175.78
3	BEPL KHAMBAKHERA	177.76	6.29	111.87	4.65	82.62	-1.29	-22.86	3.45	9.85	175.07
4	BEPL KUNDRAKHI	253.93	4.39	111.37	4.18	106.13	-0.99	-25.10	-	7.58	192.40

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
5	BEPL MAQSOODAPUR	182.00	6.06	110.38	4.54	82.55	-1.26	-22.89	-	9.34	170.04
6	BEPL UTRAULA	243.73	4.70	114.55	4.04	98.38	1.17	28.63	-	9.91	241.56
7	KSK MAHANADI	4,583.77	2.72	1,247.60	2.26	1,037.33	0.63	289.62	-9.86	5.60	2,564.69
8	LALITPUR	9,187.50	2.89	2,652.00	3.74	3,438.43	-0.13	-120.82	102.22	6.61	6,071.83
9	LANCO	7,083.95	0.80	564.87	2.12	1,500.36	0.00	0.13	40.88	2.97	2,106.24
10	M.B.POWER (PTC)	2,354.04	2.68	630.35	2.04	479.31	0.51	120.54	62.04	5.49	1,292.24
11	Meja Thermal Power Plant	5,743.45	2.40	1,380.57	2.41	1,383.36	0.10	55.25	0.55	4.91	2,819.72
12	NABINAGAR POWER PROJECT	672.09	2.63	176.49	2.26	151.62	0.33	22.06	0.22	5.21	350.40
13	PRAYAGRAJ POWER	10,102.28	1.28	1,289.25	2.29	2,313.05	-0.01	-10.37	108.51	3.66	3,700.44
14	R.K.M.POWER	2,626.24	2.10	552.37	1.71	449.70	0.44	114.95	6.92	4.28	1,123.94
15	ROSA-1&2	5,392.49	2.16	1,163.64	2.86	1,539.70	0.52	280.81	-	5.53	2,984.15
16	SASAN	3,656.95	0.15	54.91	1.14	415.75	0.16	59.74	-	1.45	530.40
17	TRN ENERGY (PTC)	582.32	1.66	96.52	0.61	35.59	1.11	64.65	1.20	3.40	197.96
18		-	-	-	-	-	-	-	-	-	-
19		-	-	-	-	-	-	-	-	-	-
20		-	-	-	-	-	-	-	-	-	-
	Sub-Total	53,111.34	1.96	10,404.08	2.49	13,227.33	0.16	824.38	316.13	4.66	24,771.93
			-	-	-	-	-	-	-	-	-
	Total		-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-
B	Medium term Sources		-	-	-	-	-	-	-	-	-
	Station/Source 1	-	-	-	-	-	-	-	-	-	-
	Station/Source 2	-	-	-	-	-	-	-	-	-	-
	Sub-Total	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-
C	Short term Sources		-	-	-	-	-	-	-	-	-

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
	Station/Source 1	-	-	-	-	-	-	-	-	-	-
	Station/Source 2	-	-	-	-	-	-	-	-	-	-
	Sub-Total	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-
D	Cogen/ Captive	-	-	-	-	-	-	-	-	-	-
1	Aditya birla camicals (Grasim Industries)	-	-	-	-	-	-	-	-	-	-
2	Akbarpur Chini Mills Ltd.,	23.70	0.69	1.64	0.30	0.72	2.06	4.89	-	3.06	7.25
3	Avadh sugar Energy Limited, Hargaon	35.79	0.23	0.82	0.18	0.63	2.58	9.24	-	2.99	10.69
4	Avadh sugar energy ltd. Sehora Bijnor (upper ganges)	69.86	0.03	0.24	-0.33	-2.34	3.19	22.31	-	2.89	20.21
5	Bajaj Hindustan Ltd., Barkhera	8.22	0.62	0.51	-0.02	-0.01	2.00	1.64	-	2.60	2.14
6	Bajaj Hindustan Ltd., Bilai	27.12	0.72	1.95	1.14	3.09	1.22	3.32	-	3.08	8.35
7	Bajaj Hindustan Ltd., Budhana	21.73	1.09	2.38	1.32	2.86	0.71	1.55	-	3.12	6.79
8	Bajaj Hindustan Ltd., Gangnaquli	0.00	1.10	0.00	1.75	0.00	-899.42	-0.35	-	896.57	-0.35
9	Bajaj Hindustan Ltd., Khambakhera, Lakhimpur	1.22	1.23	0.15	1.51	0.18	-5.34	-0.65	-	-2.60	-0.32
10	Bajaj Hindustan Ltd., Kinauni	23.57	0.73	1.73	1.16	2.74	1.19	2.80	-	3.08	7.27
11	Bajaj Hindustan Ltd., Kundrakhi	18.69	0.96	1.79	1.22	2.28	0.99	1.86	-	3.17	5.93
12	Bajaj Hindustan Ltd., Maqsoodapur	6.93	0.51	0.35	0.78	0.54	1.21	0.84	-	2.50	1.73
13	Bajaj Hindustan Ltd., Paliaklan	2.33	0.00	0.00	0.02	0.00	-5.67	-1.32	-	-5.65	-1.32
14	Bajaj Hindustan Ltd., Thanabhawn	28.27	0.52	1.46	0.82	2.31	1.75	4.96	-	3.09	8.73
15	Bajaj Hindustan Ltd., Utraula	1.78	1.01	0.18	1.04	0.19	-0.46	-0.08	-	1.59	0.28

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
16	Balrampur Chini Mills Ltd., (Maizapur)	4.34	-	-	-	-	2.27	0.99	-	2.27	0.99
17	Balrampur Chini Mills Ltd., (Tulsipur)	2.46	0.60	0.15	0.74	0.18	1.56	0.38	-	2.90	0.71
18	Balrampur Chini Mills Ltd., Balrampur	62.27	0.72	4.50	1.10	6.84	1.52	9.44	-	3.34	20.78
19	Balrampur Chini Mills Ltd., Gonda (Babhnan)	23.96	1.00	2.39	0.85	2.03	1.70	4.07	-	3.54	8.49
20	Continental Carbon India Ltd.	36.37	1.14	4.15	2.48	9.01	-0.07	-0.27	-	3.55	12.89
21	Dalmia Chini Mills Ltd., Jawaharpur	66.70	0.59	3.91	0.88	5.86	1.69	11.25	-	3.15	21.02
22	Dalmia Chini Mills Ltd., Nigohi	54.14	0.57	3.09	0.91	4.90	1.60	8.68	-	3.08	16.68
23	Dalmia Chini Mills Ltd., Ramgarh	44.68	0.80	3.59	0.74	3.29	1.58	7.07	-	3.12	13.95
24	Daurala Sugar Works(DCM)	61.05	0.43	2.62	0.04	0.27	2.59	15.82	-	3.06	18.71
25	DCM Sriram Consdolidated Ltd, Loni,Hardoi	44.47	0.82	3.63	1.23	5.45	2.75	12.24	-	4.79	21.31
26	DCM Sriram Consolidated Ltd, Hariawan,Hardoi	105.00	0.73	7.70	1.01	10.65	1.50	15.73	-	3.25	34.08
27	DCM Sriram Consolidated Ltd., Lakhimpur Ajbapur	18.34	1.59	2.92	-5.76	-10.56	7.53	13.82	-	3.37	6.18
28	Dhampur Sugar Mills Ltd., Bareilly,Meerganj	7.83	0.11	0.09	0.06	0.05	2.81	2.20	-	2.98	2.33
29	Dhampur Sugar Mills Ltd., DHAMPUR, Bijnor	124.89	0.69	8.59	1.04	12.93	1.47	18.40	-	3.20	39.92
30	Dhampur Sugar Mills Ltd., Muzaffarnagar, Mansoorpur	64.94	0.48	3.14	2.63	17.09	0.00	0.03	-	3.12	20.26
31	Dhampur Sugar Mills Ltd., Rajpura, Sambhal	61.79	0.55	3.40	0.45	2.78	3.05	18.86	-	4.05	25.04

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
32	Dhampur Sugar Mills Ltd., Sambhal,Asmoli,Dhampur	57.96	0.31	1.80	0.49	2.85	2.32	13.44	-	3.12	18.09
33	Dwarikesh Sugar Ind. Ltd., Dhampur Bijnor	58.33	0.87	5.06	1.58	9.24	0.72	4.20	-	3.17	18.51
34	Dwarikesh Sugar Ind. Ltd., Faridpur Bareilly	71.40	0.77	5.51	1.21	8.67	1.20	8.60	-	3.19	22.78
35	Dwarikesh Sugar Ind. Ltd., Nagina Bijnor	27.89	0.81	2.26	0.85	2.37	1.42	3.95	-	3.07	8.57
36	Govind Sugar	73.37	1.23	9.01	0.32	2.38	2.99	21.94	-	4.54	33.33
37	Gularia Chini Mills Ltd.,	48.05	0.42	2.02	0.66	3.18	2.00	9.63	-	3.09	14.83
38	Haidergarh Chini Mills Ltd.,	37.88	0.65	2.45	0.31	1.17	2.11	7.98	-	3.06	11.59
39	India Glycols	9.19	1.09	1.00	2.59	2.38	2.22	2.04	-	5.90	5.42
40	K.M. Sugar Ltd.,	42.54	0.97	4.14	0.85	3.61	1.28	5.46	-	3.11	13.22
41	Kesar Enterprises Ltd.	93.13	1.13	10.52	1.06	9.83	1.62	15.10	-	3.81	35.45
42	Kisan Sahkari Chini Mill Azamgarh	1.77	2.28	0.40	1.84	0.33	-0.66	-0.12	-	3.46	0.61
43	Kumbhi Sugar Mills Ltd.,	30.38	1.01	3.05	0.42	1.27	1.95	5.93	-	3.37	10.25
44	L.H. Suagar Factories Ltd.,	70.47	0.90	6.36	1.04	7.35	1.02	7.17	-	2.96	20.88
45	Mankapur Chini Mills Ltd.,	69.01	0.80	5.50	0.56	3.84	1.91	13.19	-	3.26	22.52
46	Mawana Sugar Ltd., Meerut	26.95	0.27	0.71	-0.52	-1.39	3.16	8.53	-	2.91	7.85
47	Mawana Sugar Ltd., Naglamal	34.90	0.81	2.82	1.09	3.80	1.20	4.18	-	3.09	10.79
48	Mawana Sugar Ltd., Titawi	44.12	0.76	3.33	0.61	2.68	1.74	7.70	-	3.11	13.71
49	New India Sugar Mills., Now, Avadh Sugar Kushinagar	32.02	-	-	-	-	3.12	9.99	-	3.12	9.99
50	Novel Sugar (bajaj sugar barkhera)	3.60	0.58	0.21	1.96	0.71	0.45	0.16	-	2.98	1.08
51	OSWAL OVERSEAS	6.27	1.13	0.71	1.15	0.72	1.80	1.13	-	4.09	2.57
52	Parle Biscuits Pvt. Ltd. (Sugar Dn.),	19.60	0.71	1.38	0.26	0.51	2.10	4.11	-	3.06	6.01

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		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
53	Ramala Sahkari Chini Mills (Baghpat) UP	58.17	0.88	5.09	0.66	3.84	2.98	17.35	-	4.52	26.28
54	Rana Sugar Miis Ltd. Karimganj Rampur	23.36	0.84	1.97	1.09	2.55	1.46	3.40	-	3.39	7.92
55	Rana Sugar Miis Ltd. Belwara, Moradbad	21.82	0.83	1.81	1.05	2.29	1.54	3.36	-	3.42	7.46
56	Rana Sugar Miis Ltd. Bilari, Moradabd	52.91	1.34	7.11	1.08	5.74	1.69	8.95	-	4.12	21.80
57	Rauzagaon Chini Mills Ltd.,	42.71	0.97	4.15	0.75	3.20	1.42	6.05	-	3.14	13.40
58	SBEC Bioenergy Ltd.	37.65	0.73	2.76	0.65	2.44	1.72	6.47	-	3.10	11.67
59	Simbholi Sugar Ltd., Bahraich CHILWARIA	17.27	0.67	1.15	-0.63	-1.09	3.44	5.93	-	3.47	6.00
60	Simbholi Sugar Ltd., Hapur	84.53	1.46	12.38	0.77	6.51	1.34	11.32	-	3.57	30.21
61	SKI Hi Tech Carbon (Now Birla Carbon India Pvt. Ltd.)	55.10	1.42	7.85	1.96	10.80	0.61	3.34	-	3.99	21.99
62	Sukhbir Agro Energy Ltd.	84.07	1.20	10.11	3.79	31.86	1.10	9.27	-	6.09	51.24
63	Superior Food Grain ,Shamli	65.59	2.20	14.46	0.97	6.37	0.91	5.96	-	4.08	26.79
64	The Seksaria, Biswan	78.95	1.67	13.22	1.22	9.65	1.46	11.51	-	4.36	34.38
65	Tikaula Sugar Ltd.,	48.38	0.72	3.50	1.14	5.51	1.78	8.60	-	3.64	17.61
66	Triveni Engg. & Industries Ltd., Milak Narayanpur	7.37	0.53	0.39	0.85	0.62	1.62	1.19	-	3.00	2.21
67	Triveni Engg. & Industries Ltd., Chandpur	8.55	0.72	0.62	1.15	0.98	1.21	1.03	-	3.08	2.63
68	Triveni Engg. & Industries Ltd., Deoband Saharanpur	53.04	0.88	4.65	1.16	6.14	1.10	5.82	-	3.13	16.61
69	Triveni Engg. & Industries Ltd., Khatuali Muzaffarnagar	108.40	0.74	8.04	1.29	14.00	1.01	10.94	-	3.04	32.98

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
70	Triveni Engg. & Industries Ltd., Sabitgarh	18.21	1.32	2.41	1.23	2.23	1.32	2.41	-	3.87	7.05
71	U.P State Sugar & Cane Develop. Corp. (Munderva)	6.77	1.85	1.25	2.76	1.87	-	-	-	4.61	3.12
72	U.P State Sugar & Cane Develop. Corp. (Pipraich)	-4.49	-6.62	2.97	10.99	-4.93	-	-	-	4.37	-1.96
73	U.P State Sugar & Cane Develop. Corp. (Mohiuddinpur)	94.36	0.74	6.94	0.51	4.84	3.23	30.45	-	4.48	42.24
74	Usher Eco Power	-	-	-	-	-	-	-	-	-	-
75	Uttam Sugar Mills, Ltd. Barkatpur, Bijnor	47.48	0.82	3.90	0.89	4.23	1.29	6.11	-	3.00	14.24
76	Uttam Sugar Mills, Ltd. Khaikheri Muzaffarnagar	24.93	0.75	1.86	1.17	2.93	1.10	2.75	-	3.02	7.54
77	Uttam Sugar Mills, Ltd. Shermau Saharanpur	40.52	0.53	2.15	0.26	1.07	1.88	7.61	-	2.67	10.82
78	Wave Ind. & Engg. Ltd.,	0.01	-	-	-0.56	-0.00	-	-3.81	-	-	-3.81
79	Yadu Sugars Ltd.,	11.41	0.99	1.13	1.08	1.23	1.29	1.48	-	3.36	3.84
80	Banked energy	109.82	-	-	-	-	2.00	21.96	-	2.00	21.96
		-	-	-	-	-	-	-	-	-	-
	Sub-Total	3,108.13	0.83	257.18	0.88	274.36	1.72	533.45	-	3.43	1,064.99
			-		-		-			-	
E	Bilateral & Others (Power purchased through Trading)		-		-		-			-	
1	Power Purchase From Exchange	-	-	-	-	-	-	-	-	-	-
	IEX (Sale)/PXIL (Sale)	7,271.72	-	-	3.78	2,749.45	-	-	-	3.78	2,749.45
	IEX (Purchase)/PXIL (Purchase)	1,295.14	-	-	7.18	929.58	0.00	0.00	-	7.18	929.59
	NET-IEX	-5,976.58		-		-1,819.87		0.00	-		-1,819.87

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
2	Purchase From Open Access (OA)	830.15	-	-	4.41	366.09	-	-	8.41	4.51	374.50
i)	NHPC	-	-	-	-	-	-	-	-	-	-
ii)	TATA / MPL / PSPCL/ GTL	611.86	-	-	4.42	270.59	-	-	8.41	4.56	278.99
iii)	NVVN	-	-	-	-	-	-	-	-	-	-
iv)	PTC	218.29	-	-	4.38	95.51	-	-	-	4.38	95.51
	Sub-Total	-5,146.42	-	-	2.82	-1,453.78	-0.00	0.00	8.41	2.81	-1,445.37
			-	-	-	-	-	-	-	-	-
E 1	Unscheduled Interchange		-	-	-	-	-	-	-	-	-
i	UI (Underdrawl)	-954.01	-	-	2.12	-202.01	-	-	-	2.12	-202.01
ii	UI (Overdrawl)	445.96	-	-	-6.90	-307.79	-	-	0.05	-6.90	-307.74
	Sub-Total	-508.06	-	-	10.03	-509.80	-	-	0.05	10.03	-509.75
			-	-	-	-	-	-	-	-	-
F	Solar (Existing)		-	-	-	-	-	-	-	-	-
1	Adani Green Energy	94.02	-	-	5.06	47.56	0.01	0.11	-	5.07	47.67
2	Adani Solar Energy Chitrakoot. (50 MW)	87.13	-	-	3.03	26.41	-	-	-	3.03	26.41
3	Adani Solar Energy Four Pvt. Ltd., Bhahpur	122.64	-	-	2.90	35.61	-	-	-	2.90	35.61
4	Adani Solar Energy Four Pvt. Ltd., Sukrullapur	85.18	-	-	3.64	31.00	-	-	-	3.64	31.00
5	Agrawal Solar Power Pvt. Ltd.	8.72	-	-	6.99	6.10	0.03	0.02	-	7.02	6.12
6	Aryavaan Renewable Energy Pvt. Ltd.	6.51	-	-	6.98	4.54	0.03	0.02	-	7.01	4.56
7	Avaada Non-Conventional UP Project. Pvt. Ltd.	74.44	-	-	3.13	23.27	-	-	-	3.13	23.27
8	Azure Surya Private Limited.	15.86	-	-	10.06	15.95	0.02	0.03	-	10.08	15.98
9	Dante Energy Private Limited.	2.56	-	-	14.76	3.78	-	-	-	14.76	3.78
10	Dhruv Milkose Private Limited.	1.15	-	-	17.68	2.03	-	-	-	17.68	2.03

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
11	Essel Urja Private Limited	87.82	-	-	9.26	81.29	0.01	0.12	-	9.27	81.41
12	Green Urja Pvt. Ltd	48.16	-	-	9.23	44.43	0.01	0.07	-	9.24	44.50
13	Jakson Power Private Limited	82.28	-	-	4.30	35.41	0.00	0.03	-	4.31	35.43
14	K.M. Energy Pvt. Ltd	8.62	-	-	9.22	7.95	0.03	0.03	-	9.25	7.97
15	Lohia Developers (India) Pvt. Ltd.	8.12	-	-	7.00	5.69	0.02	0.01	-	7.02	5.70
16	Maheswari Mining & Energy Ltd	8.77	-	-	2.95	2.58	-	-	-	2.95	2.58
17	Nirosha Power Pvt. Ltd	51.89	-	-	8.90	46.19	0.03	0.15	-	8.93	46.34
18	NTPC Auraiya Solar	483.95	-	-	3.10	150.15	-	-	-	3.10	150.15
19	Pinnacle Renewable Energy	6.69	-	-	5.06	3.38	0.01	0.01	-	5.07	3.39
20	Priapus Infrastructure Limited.	2.60	-	-	14.46	3.76	-	-	-	14.46	3.76
21	PSPN Synergy Pvt. Ltd.	25.82	-	-	7.00	18.08	0.02	0.04	-	7.02	18.12
22	Refex Energy (Rajasthan) Pvt. Ltd	16.74	-	-	9.23	15.44	0.01	0.02	-	9.24	15.47
23	Sahashradhara Energy Pvt. Ltd. Kisni Mainpuri	8.95	-	-	4.83	4.32	0.02	0.02	-	4.85	4.34
24	Salasar Green Energy Pvt. Ltd.	8.31	-	-	7.00	5.82	0.02	0.02	-	7.02	5.84
25	Samavist Energy Solutions Pvt. Ltd	16.59	-	-	9.32	15.46	0.01	0.02	-	9.33	15.48
26	Solar Energy Corporation of India (SECI)	2,801.89	-	-	4.29	1,201.57	-	-	-	4.29	1,201.57
27	Spinel Energy Infrastructure Limited.	34.90	-	-	7.53	26.27	0.01	0.05	-	7.54	26.32
28	Sukhbir Agro (1) Lalitpur UP. (10 MW)	14.16	-	-	7.92	11.22	-	-	-	7.92	11.22
29	Sukhbir Agro (2) Lalitpur UP. (20 MW)	37.39	-	-	6.00	22.42	-	-	-	6.00	22.42
30	Sukhbir Agro (3) Mahoba UP. (20 MW)	34.13	-	-	7.77	26.51	-	-	-	7.77	26.51

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
31	Sukhbir Agro Energy Ltd. Chitrakoot UP (50MW)	108.83	-	-	3.20	34.82	-	-	-	3.20	34.82
32	Sun and Wind Infra Energy Pvt. Ltd.	17.58	-	-	9.26	16.27	0.01	0.03	-	9.27	16.30
33	TA Greentech Pvt. Ltd.	17.85	-	-	5.06	9.03	0.01	0.02	-	5.07	9.05
34	Talettutayi Solar Projects Five Pvt. Ltd. Distt. Budaun	87.94	-	-	3.21	28.23	-	-	-	3.21	28.23
35	Technical Associate Limited.	2.79	-	-	17.91	5.00	-	-	-	17.91	5.00
36	TN Urja Pvt. Ltd	89.68	-	-	7.01	62.84	0.01	0.12	-	7.02	62.95
37	Tata Power Renewable	33.70	-	-	3.04	10.26	-	-	-	3.04	10.26
38	Universal Saur Urja Private Limited.	53.36	-	-	9.30	49.63	0.03	0.15	-	9.33	49.78
39	UP New and Renewable Energy	41.92	-	-	5.28	22.14	-	-	-	5.28	22.14
		-	-	-	-	-	-	-	-	-	-
	Sub-Total	4,739.63	-	-	4.56	2,162.38	0.00	1.09	-	4.56	2,163.47
			-	-	-	-	-	-	-	-	-
G	Non-Solar (Renewable)		-	-	-	-	-	-	-	-	-
I	WIND		-	-	-	-	-	-	-	-	-
1	Adani Green Energy MP LTD. (PTC)	132.58	-	-	3.53	46.80	-	-	-	3.53	46.80
2	Green Infra Wind Power (PTC)	284.85	-	-	3.53	100.55	-	-	0.74	3.56	101.29
3	Mytrah Vayu (PTC)	218.35	-	-	3.53	77.08	-	-	0.52	3.55	77.60
4	Ostro Kutch Power (PTC)	308.28	-	-	3.53	108.82	-	-	0.71	3.55	109.53
5	Wind One Energy Pvt. Ltd. (PTC)	128.74	-	-	3.53	45.45	-	-	-	3.53	45.45
6	Wind Two Energy Pvt. Ltd. (PTC)	100.61	-	-	3.53	35.52	-	-	-	3.53	35.52
7	Renew Power (SECI)	256.25	-	-	2.71	69.44	-	-	-	2.71	69.44
8	Spring Renewable Energy Pvt. Ltd. (SECI)	541.43	-	-	2.41	130.66	-	-	-	2.41	130.66
9	Vivid Solaire Energy Pvt. Ltd. (SECI)	192.10	-	-	2.12	40.66	-	-	-	2.12	40.66

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
10	Adani Wind Energy Three, Kutch (SECI)	207.37	-	-	2.83	58.71	-	-	-	2.83	58.71
11		-	-	-	-	-	-	-	-	-	-
12		-	-	-	-	-	-	-	-	-	-
	Sub-Total	2,370.58	-	-	3.01	713.70	-	-	1.97	3.02	715.67
			-	-	-	-	-	-	-	-	-
II	Biomass Existing		-	-	-	-	-	-	-	-	-
1		-	-	-	-	-	-	-	-	-	-
2		-	-	-	-	-	-	-	-	-	-
	Sub-total	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-
III	MSW		-	-	-	-	-	-	-	-	-
1		-	-	-	-	-	-	-	-	-	-
2		-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-
	Sub-Total	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-
H1	NVVN + NSM (Thermal)	697.07	0.85	59.32	3.02	210.77	0.12	8.21	54.54	4.77	332.84
H2	NVVN + NSM (Solar)	417.28	1.37	57.32	3.79	158.22	0.19	8.02	15.25	5.72	238.80
I	Reactive Energy Charges	-	-	-	-	-	-	18.11	-	-	18.11
J	UI Charges	-	-	-	-	-	-	-	-	-	-
K	REC	-	-	-	-	-	-	-	-	-	-
L	Banking	-	-	-	-	-	-	9.11	0.00	-	9.11
	RUVNL	-	-	-	-	-	-	0.09	-	-	0.09
	MPPMCL	-	-	-	-	-	-	9.02	0.00	-	9.02
		-	-	-	-	-	-	-	-	-	-
	Sub-total	1,114.35	1.05	116.64	3.31	368.99	0.39	43.45	69.79	5.37	598.87

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
			-		-		-			-	
	Transmission Charges		-		-		-			-	
M	PGCIL Charges + POSCO	-	-	-	-	-	3,206.51	-4.61	-	3,201.91	
N	WUPPTCL Charges	-	-	-	-	-	825.89	-557.84	-	268.05	
O	SEUPPTCL Charges	-	-	-	-	-	295.32	-	-	295.32	
i	POWER GRID TRANSMISSION	-	-	-	-	-	51.71	-	-	51.71	
ii	GHATAMPUR TRANSMISSION LTD.	-	-	-	-	-	122.50	-	-	122.50	
	OBRA BADAUN TRANSMISSION LTD.	-	-	-	-	-	57.07	3.58	-	60.65	
	UP SLDC CHARGES	-	-	-	-	-	0.00	-	-	0.00	
	MPPTCL	-	-	-	-	-	0.00	-	-	0.00	
	UPPTCL	-	-	-	-	-	-1.92	-	-	-1.92	
	Sub-total	-	-	-	-	-	4,557.09	-558.87	-	3,998.22	
			-		-		-		-		
iii	Transmission Charges for Competitive Bidding Stations		-		-		-		-		
a.	KSK Mahaanadi	-	-	-	-	-	-	-	-	-	
b	MB Power	-	-	-	-	-	-	-	-	-	
c	TRN	-	-	-	-	-	-	-	-	-	
d	RKM Power	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	
	Sub-total	-	-	-	-	-	-	-	-	-	
			-		-		-		-		
	Other Charges		-		-		-	-	-	-343.04	
P	RRAS	-	-	-	-	-	-	-	-	-	

S.No	Source of Power (Station wise)	FY 2021-22									
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable charge		Annual Other Cost		Late payment Surcharge	Total cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
	Less	-	-	-	-	-	-	-	-	-	-
	Late Payment Surcharge	-	-	-	-	-	-	-	-	-	-
	Grand Total	1,23,406.88	1.53	18,870.02	2.24	27,605.79	0.74	9,079.44	-60.08	4.47	55,152.13

2.4.2. The Petitioner requests the Hon'ble Commission to kindly approve the power purchase cost and quantum as shown in the table above.

- 2.4.3. The Petitioner has claimed the power purchase cost for FY 2021-22 based on actual payables as per the books of account for FY 2021-22. The allowable power purchase quantum for FY 2021-22 is shown in the table below:

TABLE 2-7 POWER PURCHASE COST FOR FY 2021-22

Particulars	Approved in T.O. dtd. 29.07.2021	Claimed
Allowable Power Purchase (MU)	22,418	25,725
Average Rate (Rs./kWh)/ DBST	4.95	3.97
Power Purchase Cost (Rs. Cr.)	11,104	10,208

- 2.4.4. The Petitioner requests the Hon'ble Commission to allow the Power Purchase quantum and power purchase cost for FY 2021-22 as claimed in the table above.

2.5. Intra-State Transmission Charges

- 2.5.1. The actual Transmission charges (including SLDC charges) is shown in the Table below:

TABLE 2-8 INTRA-STATE TRANSMISSION CHARGES FOR FY 2021-22

Particulars	Unit	Approved in T.O. dtd. 29.07.2021	Claimed
Units Wheeled (Energy Input into Transmission- Distribution Interface)	MU	22,418	25,725
Transmission Charges	Rs Crore	542.78	698.78

- 2.5.2. It is submitted that Transmission Charges are fixed in nature and depend upon the ARR approved by the Hon'ble Commission for UPPTCL. In all the past Trued-up's (prior to FY 2018-19) the Hon'ble Commission has been approving the Intra-State Transmission Charges for the Petitioner based on the actual amount booked in the Audited Balance Sheet for the respective year. The same is evident from the UPERC Tariff Order dated 03.09.2019 (i.e., True-up of FY 2017 – 18), abstract of the same is reproduced below:

“4.4.3 Accordingly, the Table below provides the details of transmission charges as approved in Tariff Order for FY 2017-18, Audited accounts and as trued Up by the Commission:

TABLE 2-9 TRANSMISSION CHARGES AS PER TARIFF ORDER FOR FY 2017-18

Particulars	Approved in MYT order			Claimed			Approved upon Truing Up		
	Units Wheelled (MU)	Transmission Charges (Rs./kWh)	Transmission Charges (Rs. Cr.)	Units Wheelled (MU)	Transmission Charges (Rs./kWh)	Transmission Charges (Rs. Cr.)	Units Wheelled (MU)	Transmission Charges (Rs./kWh)	Transmission Charges (Rs. Cr.)
DVVNL	24014.62	0.23	559.51	23440.25	0.19	488.48	23439.98	0.19	488.47
MVVNL	22819.62	0.23	531.67	21038.26	0.19	388.28	21038.26	0.19	388.28
PVVNL	33504.20	0.23	780.60	34438.67	0.18	610.28	34438.67	0.18	610.28
PuVVNL	28994.21	0.23	675.53	25860.66	0.19	482.50	25860.96	0.19	482.51
KESCO	4442.74	0.23	103.51	3677.86	0.18	64.56	3677.92	0.18	64.56
Total	113775.4	0.23	2650.82	108455.69	0.18	1994.10	108455.79	0.18	1994.10

2.5.3. In view of the above, it is evident that the Hon'ble Commission in the earlier Tariff Order dated 03.09.2019 itself allowed the actual transmission charges as incurred by the Discoms. However, in the True-up Order for FY 2018-19 onwards, the Hon'ble Commission disallowance by ignoring the amount booked in the Balance Sheet is contrary to the practice/approach followed by the Hon'ble Commission in the past. Such approach followed by the Hon'ble Commission evinces lack of regulatory certainty.

2.5.4. Hence the disallowance towards Transmission Charges in the True-up Orders by the Hon'ble Commission is contrary to the tariff principles envisaged under Section 61 of the Act, which mandates the Commission to ensure that: -

- (a) Recovery of the cost of electricity is done in a reasonable manner; and
- (b) Tariff determined is a reflection of the actual cost of supply

2.5.5. The Petitioner requests the Hon'ble Commission to allow transmission charges for FY 2021-22 as claimed in the above table based on Audited Accounts for FY 2021-22.

2.6. Operation and Maintenance Expenses

2.6.1. The Operation & Maintenance (O&M) Expenses comprises of Employee Expenses, Repair & Maintenance (R&M) Expenses and Administrative and General (A&G) Expenses.

- 2.6.2. Regulation 45 of UPERC MYT Regulations, 2019, stipulates the detailed methodology for determination of Operation & Maintenance (O&M) Expenses for the Control Period from FY 2020-21 to FY 2024-25.

The detailed methodology as stated in Regulation 45 is reproduced as under:

Quote

“45 Operation and Maintenance Expenses

- a) *The Operation and Maintenance expenses for the Distribution Business shall be computed as stipulated in with these Regulations.*
- b) *The Operation and Maintenance expenses shall be derived on the basis of the average of the Trued-Up values (without efficiency gain / loss) for the last five (5) financial years ending March 31, 2019 subject to prudence check by the Commission. However, if Trued-Up values (without efficiency gain / loss) are not available for FY 2018-19, then last five (5) available Trued-Up values (without efficiency gain / loss) will be considered and subsequently when the same are available the base year value (i.e. FY 2019-20) will be recomputed*
- c) *The average of such operation and maintenance expenses shall be considered as Operation and Maintenance expenses for the middle year and shall be escalated years-on-year with the escalation factor considering CPI and WPI of respective years in the ratio of 60:40, for subsequent years up to FY 2019-20.*
- d) *The One-time expenses such as expense due to change in accounting policy, arrears paid due to Pay Commissions, etc., and the expenses beyond the control of the Distribution Licensee such as dearness allowance, terminal benefits, etc., in Employee cost, shall be allowed by the Commission over and above normative Operation & Maintenance Expenses after prudence check.*
- e) *At the time of Truing-up of the O&M expenses, the actual point to point inflation over Wholesale Price Index numbers as per Office of Economic Advisor of Government of India and the actual Consumer Price Index for Industrial Workers (all India) as per Labour Bureau, Government of India, in the concerned year shall be considered.*

45.1 Employee Cost

Employee cost shall be computed as per the following formula escalated by consumer price index (CPI), adjusted by provisions for expenses beyond the control of the Licensee and one-time expected expenses, such as recovery / adjustment of terminal benefits, implications of Pay Commission, arrears, Interim Relief, etc.:

$$EMP_n = EMP_{n-1} \times (1 + \text{CPI inflation})$$

Where:

EMP_n : Employee expense for the n th year;

EMP_{n-1} : Employee expense for the $(n-1)$ th year;

CPI inflation is the average of Consumer Price Index (CPI) for immediately preceding three Financial Years.

45.2 Repairs and Maintenance Expense

Repairs and Maintenance expense shall be calculated by following formula:

$$R\&M_n = R\&M_{n-1} (1 + \text{WPI inflation})$$

Where:

$R\&M_n$: Repairs & Maintenance expense for the n th year;

$R\&M_{n-1}$: Repairs & Maintenance expense for the $(n-1)$ th year;

WPI inflation is the average of Wholesale Price Index (WPI) for immediately preceding three Financial Years.

45.3 Administrative and General Expense

A&G expense shall be computed as per the following formula escalated by wholesale price index (WPI) and adjusted by provisions for confirmed initiatives (IT etc. initiatives as proposed by the Distribution Licensee and validated by the Commission) or other expected one-time expenses:

$$A\&G_n = A\&G_{n-1} (1 + \text{WPI inflation})$$

Where:

$A\&G_n$: A&G expense for the n th year;

$A\&G_{n-1}$: A&G expense for the $(n-1)$ th year;

WPI inflation is the average of Wholesale Price Index (WPI) for immediately preceding three Financial Years: Provided that Interest and Finance charges such as Credit Rating charges, collection facilitation charges, financing cost of Delayed Payment Surcharge and other finance charges shall be a part of A&G expenses.

Illustration: For FY 2020-21, $(n-1)$ th year will be FY 2019-20 which is also the base year.

Unquote

2.6.3. It is submitted that the Hon'ble Commission has disallowed the O&M expenses claimed by the Petitioner in Tariff Order dated 29.07.2021 for ARR of FY 2021-22 owing to the following: -

- (a) The Hon'ble Commission has arrived at the mid-year (FY 2016-17) value of each component of O&M expenses based on the average of last 5 years trued-up values of FY 2014-15 to FY 2018-19. The mid-year value of each component of O&M expenses has been escalated year on year with the escalation factor considering Consumer Price Index (CPI) and Whole-sale Price Index (WPI) of respective years in the ratio 60:40, for subsequent years up to FY 2019-20.
- (b) Accordingly, the Hon'ble Commission has computed the O&M expenses of the base year which shall be escalated at Inflation/Escalation rate notified by Labour Bureau, Govt. of India (http://labourbureau.gov.in/LBO_indexes.htm) and Economic Advisor Govt. of India (<https://eaindustry.nic.in/>) respectively for different years.

Accordingly, the Hon'ble Commission has computed the average WPI and CPI inflation of the last 3 years (average) at 2.42% and 6.00%, respectively.

- (c) In terms of this methodology: -
 - (i) Employee Expenses for FY 2021-22 have been computed by escalating the base year (FY 2019-20) employee expenses by average CPI inflation of last 3 years.
 - (ii) The A&G Expenses (including Finance Charges) and R&M Expenses for FY 2021-22 have been computed by escalating the base year (FY 2019-20) by average WPI inflation of last 3 years.

2.6.4. At the outset, it is submitted that O&M expenses comprise of employee related costs, A&G expenses and R&M expenditure. Further, Petitioner intend to recover their legitimate actual O&M Expenses and do not intend to get any additional benefit out of the same.

- 2.6.5. It is submitted that the O&M expenses being allowed by the Hon'ble Commission are insufficient to cover the actual cost/impact of O&M expenses likely to be incurred by the Petitioner. As such, the methodology adopted by the Hon'ble Commission will lead considerable loss to the Petitioner whose financial condition is already precarious and stressed.
- 2.6.6. O&M expenses are computed on normative basis in terms of the norms prescribed under the Tariff Regulations. It is submitted that the methodology prescribed by the Hon'ble Commission for computation of normative O&M expenses is significantly different in MYT Regulations, 2019 as compared to the methodology provided under the erstwhile regime i.e., MYT Regulations, 2014.
- 2.6.7. It is submitted that under the MYT Regulations 2014 computation of O&M expenses was based on the trajectory of norms derived on average of past five years audited figures. It is noteworthy that the draft MYT Regulations, 2019 issued by the Hon'ble Commission also had similar provisions for computation of O&M expenses. However, in the final MYT Regulations 2019, the Hon'ble Commission has completely changed the methodology and adopted a completely new methodology for computing the O&M expenses, which is based on escalation factor considering CPI and WPI based on the average of last 5 years trued-up values (that too without consideration of efficiency gain/losses on O&M expenses). Such a change was affected without giving any opportunity to the stakeholders including the Petitioner to submit their suggestions/objections on the same.
- 2.6.8. This new approach adopted by the Hon'ble Commission will result in substantial losses to the Petitioner as it is likely that the Petitioner will not be able to meet its regular expenses including employee costs, R&M expenses and A&G expenses.
- 2.6.9. It is pertinent to highlight that owing to the implementation of the Government's Saubhagya Scheme in the last three financial years (i.e., FY 2017-18 onwards), Petitioner has added a significant consumer base leading to an increase in load, extension of LT Network and backbone distribution infrastructure. Accordingly, there is resultant significant increase in the O&M expenses.
- 2.6.10. As deliberated above, computation of O&M expenses as per the methodology provided under the MYT Regulations, 2019 will cause severe financial hardship to the Petitioner.
- 2.6.11. Petitioner submits that since the Hon'ble Commission has already trued up the O&M expenses for FY 2019-20, the same shall be considered as the base value rather than deriving the base value for

FY 2019-20 as stipulated in Regulation 45 of MYT Regulations, 2019. In this context, it is submitted that, the Hon'ble Commission while truing-up for FY2019-20 has Trued-up O&M expenses and computations done by the Hon'ble Commission on the O&M expenses in the Tariff Order dated 29.07.2021 for the base year value (FY 2019-20) is as under:

TABLE 2-10 TRUED UP AND BASE YEAR O&M EXPENSES FOR FY 2019-20 (IN RS. CR)

Particulars	DVVNL	MVVNL	PVVNL	PUVVNL	KESCO	Total (in Crs.)
Trued-up O&M expenses	1193.06	1433.57	1360.66	1804.31	246.43	6038.03
Computed O&M expenses	1038.11	1256.36	1117.22	1528.79	239.36	5179.84

- 2.6.12. However, Hon'ble Commission while computing the O&M expenses in the Tariff Order dated 29.07.2021 has computed the base year value (FY 2019-20) which is less than the approved O&M Expenses and the same is shown in the table above.
- 2.6.13. It can be perceived from the above data that the Hon'ble Commission has itself estimated two different O&M Expenses for the same year. Thus, the Petitioner has considered the Trued up value for FY 2019-20 as a base value for the escalation of normative O&M Expenses for FY 2020-21 and subsequently for FY 2021-22 as per MYT Regulations.
- 2.6.14. The Petitioner request the Hon'ble Commission to allow the O&M Expenses in line with the methodology proposed in the instant petition which is based on the Trued up O&M Expenses for FY 2019-20 and considering the applicable CPI escalation factors (for Employee Expenses) and WPI escalation factors (R&M Expenses and A&G Expenses) for FY 2021-22, FY 2022-23 and FY 2023-24.
- 2.6.15. It is further noted that, the Hon'ble Commission has also issued the Uttar Pradesh Electricity Regulatory Commission (Standard of Performance) Regulation, 2019 dated 16.12.2019 wherein stringent norms for Standards of Performance are to be followed by the Distribution Licensee for providing various services to the consumers in a time bound manner failing which the Distribution Licensee is required to pay compensation.
- 2.6.16. Therefore, while the Hon'ble Commission has laid down stringent Standards of Performance which can only be complied with by enhancing the office and field workforce, implementation of various IT & Automation systems etc. entailing more expenditure on employees, R&M expenses and A&G expenses the prescribed norms for approval of O&M Expenses are such that even the existing manpower and facilities cannot be retained.

- 2.6.17. It is, therefore, submitted that these expenses are over and above the normative expense trajectory followed by the Hon'ble Commission. It is prayed before the Hon'ble Commission that a separate provision maybe allowed in order to reduce the hardship on account of the O&M expenses.

WPI and CPI Escalation Rates

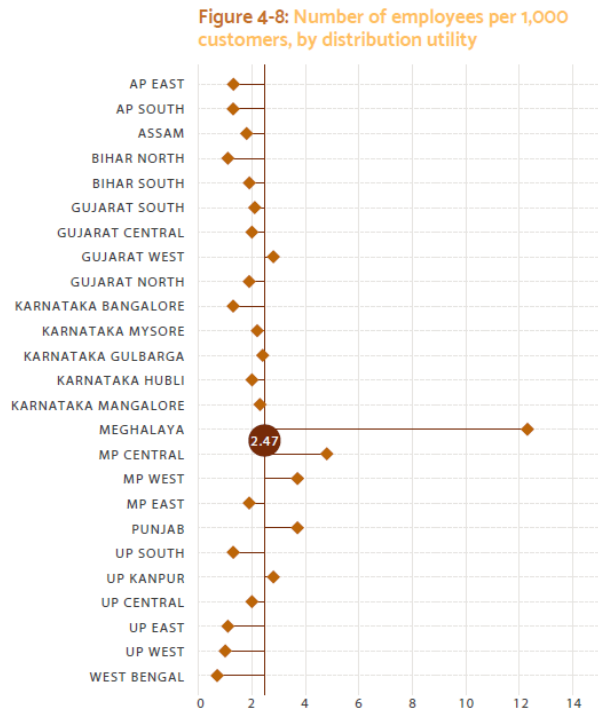
- 2.6.18. The Petitioner has considered the CPI and WPI inflation index as per Inflation/Escalation rate notified by Labour Bureau, Govt. of India (http://labourbureau.gov.in/LBO_indexes.htm) and Economic Advisor Govt. of India (<https://eaindustry.nic.in/>) respectively. The same is also mentioned below:

TABLE 2-11 INFLATION INDICES

FY	Index		Inflation rate	
	WPI	CPI	WPI	CPI
FY 2017-18	114.88	284.42	2.92%	3.08%
FY 2018-19	119.79	299.92	4.28%	5.45%
FY 2019-20	121.83	322.50	1.70%	7.53%
FY 2020-21	123.38	338.71	1.27%	5.03%
FY 2021-22	139.41	356.06	13.00%	5.12%

Employee Expenses

- 2.6.19. The Petitioner has considered the trued-up value for FY 2019-20 as approved by the Hon'ble Commission in Tariff Order for FY 2021-22. Thereafter, the Petitioner has considered same methodology and norms for the Truing-up of Employee Expenses for FY 2021-22 on the normative basis in terms of the norms prescribed under MYT Regulations, 2019.
- 2.6.20. Petitioner further submits, as per the report "Benchmarking Distribution Utilities" dated October 2020 published by Niti Aayog, the national average of employees per 1000 consumers engaged in distribution utilities comes out to be 2.47. Whereas for the Uttar Pradesh Discoms, this ratio is less than 1 for PVVNL and PuVVNL, approx. 1 for DVVNL, and around 2 for KESCO and MVVNL. The same can be seen from the graph represented below.



- 2.6.21. It is important to note that the employees available with UPPCL and its Discom are less than the national average.
- 2.6.22. Further, it is imperative to highlight that the Petitioner is striving to improve its performance and focusing heavily on billing and collection. In order to improve its performance, the Petitioner has initiated the hiring of contractual person for the activities related to metering, billing and collection. Because of this the Administrative and General Expenses (A&G) expenses increased substantially from FY 2017-18. Such expenses are recorded under the head of “Payment to Contractual Person”, “Incidental Stores Expenses (Expenses Incurred on revenue realization)” and “Expenses on Spot Billing Centre” under A&G Expenses. It is noteworthy to mention that expense recorded under these heads were very less prior to FY 2018.
- 2.6.23. It is pertinent to highlight that the Hon’ble Commission as per provision (b) of Regulation 45 of MYT Tariff Regulations, 2019 depicts the methodology to derive O&M expenses which is based on the average of the Trued-up values for last five (5) financial years ending March 31,2019.
- 2.6.24. Further, it is important to highlight that the Petitioner started incurring high A&G expenses from FY 2018 as it started hiring of contractual person. Hence, the methodology adopted by the Hon’ble Commission suppresses the base year value as the actual / trued up expenses were very less prior to FY 2018.

- 2.6.25. Since, the Hon'ble Commission is disallowing the actual A&G expense and adopts the partial approach of approving the lower of the audited/normative figures the Petitioner incurs substantial Financial loss.
- 2.6.26. Owing to such disallowance of the expenses which are in the nature of establishment expense under A&G expenses, the Petitioner has started deployment of contractual manpower for the activities like spot billing, Revenue collection to reduce its establishment nature of fixed expenditure on a long term basis and expenses recorded under such heads purely involves Man-Power, the petitioner is bound to claim such expenses under Employee Expenses.
- 2.6.27. Hence, the Petitioner requests the Hon'ble Commission to recognize the said expenses as mentioned below as separate items of expenses and allow the same separately as a part of Employee Expenses over and above calculated by normative approach.

TABLE 2-12 ADDITIONAL EMPLOYEE EXPENSES FOR FY 2021-22 (IN RS. CR)

Particulars	DVVNL
Payment to Contractual Person	160.52
Expenses on Spot Billing Centre	106.95
Total	267.47

- 2.6.28. Below mentioned table shows the computation done by the petitioner for claiming Employee Expenses

TABLE 2-13 COMPUTED EMPLOYEE EXPENSES FOR FY 2021-22 (IN RS. CR)

Particulars	Trued-Up (FY 2020-21) (Rs. Cr)	Average CPI Escalation of last 3 years.	Computed (Rs. Cr)
Employee Expenses	552.17	6.00%	585.31

- 2.6.29. The Normative Employee expenses approved by the Hon'ble Commission and Employee Expenses claimed including the additional Employee Expenses for FY 2021-22 are shown in the Table below:

TABLE 2-14 GROSS EMPLOYEE EXPENSES FOR FY 2021-22 (IN RS. CR)

Sl No.	Particular	Approved in T.O. dtd. 29.07.2021	Claimed
A	Gross Employee Expenses after escalation	538.72	852.78
B	Less: Employee Expenses capitalized	220.38	222.50

Sl No.	Particular	Approved in T.O. dtd. 29.07.2021	Claimed
C	Net Employee Expenses	318.34	630.28

Repairs & Maintenance Expenses (R&M)

2.6.30. The Petitioner has considered the trued-up value for FY 2019-20 as approved by the Hon'ble Commission is in Tariff order as base number. Thereafter, the Petitioner has considered same methodology and norms for the Truing-up of Repairs & Maintenance Expenses for FY 2021-22 on the normative basis in terms of the norms prescribed under the Tariff Regulations shown in the Table below:

TABLE 2-15 COMPUTED R&M EXPENSES FOR FY 2021-22 (IN RS. CR)

Particulars	Trued-Up Value (FY 2020-21) (Rs. Cr)	Average WPI Escalation of last 3 years.	Computed (Rs. Cr)
R&M Expenses	561.68	2.42%	575.25

2.6.31. The Normative R&M expenses approved by the Hon'ble Commission and Net R&M Expenses claimed for FY 2021-22 are shown in the Table below:

TABLE 2-16 NORMATIVE R&M EXPENSES FOR FY 2021-22 (IN RS. CR)

Sl No.	Particulars	Approved in T.O. dtd. 29.07.2021	Normative
1	Gross R&M Expenses after escalation	716.41	575.25
2	Less: R&M Expenses capitalized	-	-
3	Special R&M approved vide T.O. dated 29.07.2021	238.80	238.80
4	Net R&M Expenses	955.21	814.05

Administrative and General Expense (A&G)

2.6.32. The Petitioner has considered the trued-up value for FY 2019-20 as approved by the Hon'ble Commission in Tariff Order as base number. Thereafter, the Petitioner has considered same methodology and norms for the Truing-up of Administrative and General Expense for FY 2021-22 on the normative basis in terms of the norms prescribed under the Tariff Regulations shown in the Table below:

TABLE 2-17 COMPUTED A&G EXPENSES FOR FY 2021-22 (IN RS. CR)

Particulars	Trued-Up Value (FY 2020-21) (Rs. Cr)	Average WPI Escalation of last 3 years.	Computed (Rs. Cr)
A&G Expenses	123.95	2.42%	126.95

2.6.33. The Normative A&G expenses approved by the Hon'ble Commission and Net A&G Expenses claimed for FY 2021-22 are shown in the Table below:

TABLE 2-18 NORMATIVE A&G EXPENSES FOR FY 2021-22 (IN RS. CR)

Sl No.	Particulars	Approved in T.O. dtd. 29.07.2021	Normative
1	Gross A&G Expenses after escalation	108.18	126.95
2	Less: A&G expenses capitalized	-	-
3	Net A&G expenses	108.18	126.95

2.6.34. Based on the above submission, the summary of the Operation & Maintenance expenses (O&M) approved in the Tariff Order for FY 2021-22 vis-a-vis the actual O&M expenses as per Audited Accounts and computed as normative are shown in the table below:

TABLE 2-19 OPERATION & MAINTENANCE EXPENSES CLAIMED FOR FY 2021-22 (IN RS. CR)

Particulars	Approved in T.O. dtd. 29.07.2021	Actual (A)	Claimed (B)
Repair & Maintenance expenses	716.41	716.41	575.25
Employee expenses	538.72	538.72	852.78
Administrative and General expenses	108.18	108.18	126.95
Gross O&M Expenses	1,363.31	1,363.31	1,554.98
Less:			
Employee expenses capitalized	220.38	222.50	222.50
Administrative and General expenses capitalized	-	-	-
Gross expenses Capitalized*	220.38	222.50	222.50
Smart Meter Opex			46.11
Net O&M Expenses	1,142.93	1,140.81	1,378.59

*Gross expenses Capitalized is claimed as per the book of account for FY 2021-22.

Smart Metering OPEX

2.6.35. It is hereby submitted that on 16.05.2018, the Hon'ble Commission directed UPPCL to submit the detailed roll out plan of installation of smart meters by UP Discoms for approval.

2.6.36. UPPCL submitted the smart meter roll out plan under OPEX Model to the Hon'ble Commission on 06.08.2018. In terms of the rollout plan Energy Efficiency Services Limited (EESL) will make the upfront

capital investment during the built-up phase and will recover its investment out of gains of the project on OPEX basis. Accordingly, UP Discoms are required to pay monthly fee on OPEX basis as O&M expenditure to EESL on per meter per month basis. The per meter per month cost is calculated as total project cost spread over the actual recovery period, post integration of meters on per meter basis.

- 2.6.37. On 15.11.2018, Ld. UP Commission by its Order approved the Smart Meter rollout plan for State Discoms of Uttar Pradesh: -

Quote

“DISCOM will pay EESL on OPEX basis as O&M expenditure. The assets will be in the books of EESL till the transfer of assets at the end of project at zero value.

[..]

“Since installation of Smart Meters is a national programme and has produced very encouraging financial returns in private Discoms, the Commission approves the proposed roll out plan of UPPCL and Discoms submitted before the Commission”

Unquote

- 2.6.38. Further, it is submitted that in terms of the National Tariff Policy 2016 (which has the force of law), MoP letter dated 08.09.2016 and the Hon’ble Commission’s direction in Order dated 15.11.2018, UP Discoms are mandated to implement the Smart Meter rollout plan in the State of Uttar Pradesh.
- 2.6.39. The additional O&M component against this plan was computed on the basis of per meter per month rate mentioned in the above referred order of the Commission. The amount sought as 'Additional O&M Expenses under smart metering' is payable to implementation agency to cover cost towards smart meter and box installation, AMI software cost, consumer indexing, training, integration and commissioning of AMI solution.
- 2.6.40. It may be noted that this cost has been proposed to be recovered under Opex model based on per meter per month basis and there is no additional burden of depreciation, interest and return on equity on the consumer. Such expenditure qualifies as Statutory expenses. In the regulatory framework it is a settled position that Statutory expenses are uncontrollable factors and are to be allowed as pass through in distribution tariff. As a result, thereof UP Discoms have incurred and will continue to incur substantial additional expenditure as quoted above.
- 2.6.41. It is further added that this type of expenses was not envisaged during projection of MYT O&M norms for FY 2017-18 to FY 2019-20. Further, O&M Norms approved by the Hon’ble Commission were based on five-

year Audited Accounts, which didn't have any O&M expenses towards smart metering. The amount of this additional O&M has been entered as rent in the replies of comments on roll out plan submitted to Hon'ble Commission vide MD, UPPCL letter no. 352/CE(Com-ll)/Smart Meter/18 dt. 25.09.2018.

- 2.6.42. In view of the above it is submitted that the Hon'ble Commission completely being aware of the cost implication qua implementation of Smart Metering Rollout Plan has approved/allowed the same by its Order dated 15.11.2018.
- 2.6.43. Further, the approach of compensating the Opex cost with likely savings in billing and collection efficiency is not justified for the Licensee. Presently, the tariff is already being determined based on 100% collection efficiency, despite the actual percentage being substantially lower. Therefore, even if billing and collection efficiency increases by installation of smart meters, the same will not have any impact on the tariff of the Discoms.
- 2.6.44. Moreover, the Hon'ble Commission in its Order dated 15.11.2018 has itself noted that the UP Discoms would incur substantial Opex cost (to be paid to EESL) towards implementation of Smart Metering Rollout Plans. Hence, there is no reason to now disallow the said cost, which is a Statutory expense and has to be mandatorily incurred by the Licensee.
- 2.6.45. It is pertinent to highlight that the smart meter roll-out plan on Opex model was submitted to Hon'ble Commission well before its implementation.
- 2.6.46. Further, Hon'ble Commission while approving the roll-out plan has not stated that the cost envisaged under the Opex model would not be allowed to be passed on in the ARR. Moreover, Hon'ble Commission in its Tariff Order dated 03.09.2019 stated that it will carry out detailed analysis of the additional O&M expenses (on account of implementation of smart meter roll out plan) for FY 2018-19 at the time of truing-up.
- 2.6.47. Accordingly, license has a legitimate expectation that after approval of the smart meter roll out plan (Opex model) the cost to be incurred by the licensees would be allowed to be recovered in tariff. Hence, such disallowance at this belated stage would be contrary to the principle of regulatory certainty, which is embedded in the Electricity Act and policies framed thereunder.
- 2.6.48. Therefore, this expense shall be considered under the head of A&G expenses as additional expenses.

2.6.49. The Hon'ble Commission is requested to allow the smart meter Opex estimated by the Petitioner for FY 2021-22:

TABLE 2-20 SMART METERING OPEX FOR FY 2021-22

Particulars	Smart Meters installed till Mar-21	Smart Meters installed till Mar-22	Rate (Rs./meter/month) including GST@18%	OPEX (IN RS. CR)
FY 2021-22	3,78,862	3,78,862	101.42	46.11

2.6.50. The Hon'ble Commission is requested to approve the same.

2.7. Capital Investment, Capitalisation and Financing

2.7.1. Details of the capex schemes (submitted in the MYT Formats) are shown in the Table below.

TABLE 2-21 CAPEX FOR FY 2021-22 (IN RS. CR)

Schemes	Investments	Capitalisation
OTHER SCHEMES	2,201.70	2,360.32
RGGVY 11TH PLAN AND 12TH PLAN	293.85	311.44
DDUGJY	41.52	54.07
RAPDRP	32.57	38.85
IPDS	43.75	47.56
SAUBHAGYA YOJNA	98.92	112.73
REVAMPED SCHEME (RDSS)	-	-
Total Investments (A)	2,712.30	2,924.97
Add: Employee Capitalization (B)	222.50	222.50
Add: Interest Capitalization (C)	-	-
Total (D= A+B+C)	2,934.80	3,147.47
Asset not belonging to Discoms (E)	-	-
Total (F= D-E)	2,934.80	3,147.47

2.7.2. Considering the Capital Work in Progress Balances (CWIP) and Gross Fixed Asset (GFA) balances as per audited accounts, the Petitioner has derived the actual capital investments undertaken by it during FY 2021-22. The details are provided in the table below:

TABLE 2-22 CAPITAL INVESTMENT IN FY 2020-21 (IN RS. CR)

Particulars	Derivation	Approved in T.O. 29.07.2021	Claimed
Opening WIP as on 1st April	A	2,165.66	1,584.95
Investments	B	2,152.48	1,342.10

Particulars	Derivation	Approved in T.O. 29.07.2021	Claimed
Employee Expenses capitalization	C	220.38	222.50
A&G Expenses Capitalisation	D	-	-
Interest Capitalisation on Interest on long term loans	E	105.01	-
Total Investments	F= A+B+C+D+E	4,643.53	3,149.55
Transferred to GFA (Total Capitalisation)	G	2,052.64	2,924.97
Closing WIP	H=F-G	2,590.89	224.58

2.7.3. The Table below summarises the amounts received towards consumer contributions, capital grants and subsidies in FY 2021-22:

TABLE 2-23 CONSUMER CONTRIBUTIONS, CAPITAL GRANTS AND SUBSIDIES IN FY 2021-22 (IN RS. CR)

Particulars	Approved in T.O. dtd. 29.07.2021	Claimed
Opening Balance of Consumer Contributions, Grants and Subsidies towards Cost of Capital Assets	4,843.68	4,575.29
Additions during the year includes consumer contribution and grants	1,555.77	134.80
Less: Amortisation on consumer contribution part only	84.86	150.90
Closing Balance	6,314.59	4,559.19

2.7.4. As discussed in above tables, the capital investment eligible for financing after deducting consumer contribution and grant is shown in the table below. The Petitioner has considered the same approach as in previous Orders and therefore, considered the funding of capital expenditure in the ratio of 70:30. Considering this approach, 70% of the capital expenditure undertaken during the year has been financed through loan and balance 30% has been financed through equity contributions.

TABLE 2-24 FINANCING OF THE CAPITAL INVESTMENTS IN FY 2021-22 (IN RS. CR)

Particulars	Derivation	Approved in T.O. dtd. 29.07.2021	Claimed
Total Investment during the year (Asset Put to use)	A	2,052.64	2,924.97
Less:			

Particulars	Derivation	Approved in T.O. dtd. 29.07.2021	Claimed
Consumer Contribution, Grants and De-captlizations	B	1,555.77	134.80
Investment funded by debt and equity	C=A-B	496.87	2,790.17
Debt Funded	70% of C	347.81	1,953.12
Equity Funded	30% of C	149.06	837.05

2.8. Interest & Finance Charges

Interest on Long Term Loan

- 2.8.1. The petitioner has considered the same approach for the estimation of Interest on long Term Loan as approved by the Hon'ble Commission in its previous Tariff order. Petitioner had considered a normative tariff approach with a debt equity ratio of 70:30. Considering this approach, 70% of the capitalization undertaken (after deducting consumer contributions, capital subsidies and grants) in any year was financed through loan and balance 30% has been financed through equity contributions. The portion of capital expenditure financed through consumer contributions, capital subsidies and grants are separated and the depreciation, interest and return on equity thereon was not charged to the consumers. The amounts received as consumer contributions, capital subsidies and grants were traced from the audited accounts. Subsequently, the financing of the capital investment was worked out based on the debt equity ratio of 70:30 and allowable depreciation was considered as normative loan repayment.
- 2.8.2. The Petitioner has worked-out the interest on long term loan based on the same philosophy.
- 2.8.3. The opening balance of long term loan has been considered equivalent to the closing loan balance for FY 2020-21 as approved by the Hon'ble Commission in Tariff Order for FY 2022-23 dated 20.07.2022.
- 2.8.4. Allowable depreciation for the year has been considered as normative loan repayment. The actual weighted average rate (Details are submitted in Format F 31 of the MYT Tariff Formats) as per audited accounts has been considered for computing the eligible interest expenses.
- 2.8.5. Considering the above, the interest on long term loan has been computed below. The interest capitalisation has been considered as

per audited accounts. The computations for interest on long term loan are shown in table below:

TABLE 2-25 ALLOWABLE INTEREST ON LONG TERM LOAN FOR FY 2021-22 (IN RS. CR)

Particulars	Approved in T.O. dated 29.07.2021	Claimed
Opening Loan	3506.87	3,390.38
Additions (70% of Capitalization net of Consumer Contribution and Grants)	975.28	1,470.41
Less: Repayments (Depreciation allowable for the year)	506.28	433.12
Closing Loan Balance	3,975.87	4,427.67
Weighted Average Rate of Interest	11.21%	7.57%
Interest on Long term loan	419.58	296.02
Less: Interest Capitalized	105.01	-
Net Interest on Loan term loan	314.57	296.02

2.8.6. The Petitioner requests the Hon'ble Commission to allow interest on long-term loans for FY 2021-22 as computed in above table.

Interest on Consumer Security Deposits

2.8.7. The Petitioner humbly submits that the actual interest on consumer security deposit paid during FY 2021-22 as per audited accounts for FY 2021-22 against the approved figures in the Tariff Order is given in the table below.

TABLE 2-26 INTEREST ON SECURITY DEPOSIT FOR FY 2021-22 (IN RS. CR)

Particulars	Approved in T.O. dated 29.07.2021	Claimed
Total Consumer Security Deposit	640.33	712.68
Interest on Security Deposit	29.78	29.11

2.8.8. The Petitioner requests the Hon'ble Commission to approve the consumer security deposit paid during FY 2021-22 as per audited accounts for FY 2021-22 given in the table above.

Bank and Finance Charge

2.8.9. The Petitioner humbly submits that is has incurred bank and finance charges as per the audited accounts for FY 2021-22 towards expenditures like bank charges, finance charges, etc. The Petitioner requests to approve the same.

TABLE 2-27 BANK AND FINANCE CHARGES FOR FY 2021-22 (IN RS. CR)

Particulars	Claimed
Bank and Finance Charges	41.23

2.9. Interest on Working Capital

- 2.9.1. The Petitioner worked-out interest on working capital for FY 2021-22 as per Regulation 25 of the Multi Year Tariff Distribution Regulations, 2019. The Regulation 25 is quoted below:

“25. Interest on Working Capital

25.2 Distribution Business

- (a) *The working capital requirement of the Distribution Business shall cover:*

- (i) *Operation and maintenance expenses for one month;*
- (ii) *Maintenance spares at 40% of the R&M expenses for two months; and*
- (iii) *One and half month equivalent of the expected revenue from charges for use of Distribution system at the prevailing Tariff (excluding Electricity Duty);*

minus

- (iv) *Amount held as security deposits from Distribution System Users:*

Provided that for the purpose of Truing-Up for any year, the working capital requirement shall be re-computed on the basis of the values of components of working capital approved by the Commission in the Truing- Up;

- (b) *Rate of interest on working capital shall be simple interest and shall be equal to the SBI MCLR (1 Year) on October 01, 2019 plus 250 basis points:*

Provided that for the purpose of Truing-Up for any year, simple interest on working capital shall be allowed at a rate equal to the weighted average SBI MCLR (1 Year) prevailing during the concerned Year plus 250 basis points.

- (c) *Interest shall be allowed on consumer security deposits as per the provisions of the Electricity Supply Code, 2005 and its subsequent amendments/ addendums and the new Regulations made after repeal of the same.”*

2.9.2. The detailed working of Interest on Working Capital for FY 2021-22 is shown in table below:

TABLE 2-28 INTEREST ON WORKING CAPITAL FOR FY 2021-22 (IN RS. CR)

Particulars	Derivation	Approved in T.O. dtd. 29.07.2021	Claimed
One Month's O&M Expenses	A	95.25	130.94
One and half months equivalent of the expected revenue from charges for use of Distribution system at the prevailing Tariff (excluding Electricity Duty)	B	1,503.89	1,773.44
Maintenance spares @ 40% of R&M expenses for two month	C	47.76	54.27
Less: Security Deposit from consumers, if any	D	640.33	712.69
Total Working Capital Requirement	E = A+B+C-D	1,006.56	1,245.96
Interest rate (actual wt. avg. MCLR rate of SBI for FY20 Plus 250 basis points)	F	10.65%	9.50%
Interest on Working Capital	G = E x F	107.20	118.37

2.9.3. The following table summarizes the Interest and Finance charges claimed by the Petitioner as against those approved by the Hon'ble Commission in the Tariff Order for FY 2021-22.

TABLE 2-29 INTEREST AND FINANCE CHARGES FOR FY 2021-22 (IN RS. CR)

Particulars	Approved in T.O. dtd. 29.07.2021	Claimed
A: Interest on Long Term Loans		
Gross Interest on Long Term Loan	419.58	295.92
Less: Interest Capitalization	105.01	-
Net Interest on Long Term Loans	314.57	295.92
B: Finance and Other Charges		
Interest on Consumer Security Deposits	29.78	29.11
Bank/ Finance Charges	-	41.23
Total Finance Charges	29.78	70.34
C: Interest on Working Capital	107.20	118.37
Total (A+B+C)	451.55	484.63

2.9.4. The Petitioner requests the Hon'ble Commission to approve the Interest and Finance charges as shown in the above Table.

2.10. Depreciation

- 2.10.1. It is pertinent to highlight that the Hon'ble Commission in its MYT Regulations, 2019 has changed the methodology for calculating depreciation. In erstwhile MYT Tariff Regulations, 2014 Depreciation was calculation based on WDV method whereas as per MYT Regulations, 2019 the same is calculated based on SLM method. The relevant clause of MYT Regulation, 2019 is mentioned below for reference.

Regulation 21: Depreciation

.....

*“(b) Depreciation shall be computed annually based on. the Straight- Line Method at the rates stipulated in the **Annexure- A** to these Regulations.”*

.....

- 2.10.2. The Hon'ble Commission has also directed the licensees to maintain a separate individual asset wise Gross Block and Depreciation for assets capitalized after 1.4.2020 and separately from the Gross Block before 01.04.2020. Accordingly, from FY 2020-21 onwards the licensees have maintained two separate Gross Blocks one for assets up to 31.03.2020 (Part-A) and second for assets after 01.04.2020 (Part B) from 01.04.2020 onwards.
- 2.10.3. To calculate the depreciation for Part- A for assets capitalised before 01.04.2020, the petitioner has taken last Commission approved closing GFA for Part-A. This closing GFA is considered as Opening GFA for FY 2020-21 so that the depreciation can be calculated by SLM methodology in line with regulation of the Hon'ble Commission.
- 2.10.4. The Petitioner has computed the allowable depreciation expense on the GFA base as per audited accounts for FY 2021-22 and at the rates stipulated by Hon'ble Commission in Annexure A of MYT Regulations, 2019. The Petitioner has computed the depreciation only on the depreciable asset base and has excluded the non-depreciable assets such as land, land rights, etc. Further, the Petitioner has traced the figures in respect of depreciation charged on assets created out of consumer contributions, capital grants and subsidies from the audited accounts for FY 2021-22. This equivalent

depreciation amounting has been reduced from the allowable depreciation for FY 2020-21. Moreover, the depreciation has been calculated in two parts (Part A & B) for the asset blocks depreciated before 01.04.2020 and asset blocks depreciated as on 01.04.2020 as per the SLM methodology prescribed in MYT Regulations, 2019. The deduction is GFA is considered as per actual. Addition to GFA is considered in GFA for assets after 01.04.2020. The Petitioner requests the Hon'ble Commission to approve the same. Considering this philosophy, the gross entitlement towards depreciation has been computed as shown in the Tables below:

TABLE 2-30 GROSS ALLOWABLE DEPRECIATION FOR FY 2021-22 (IN RS. CR) PART A

GROSS ALLOWABLE DEPRECIATION FOR ASSETS BEFORE 01.04.2020 OF DVVNL FOR FY 2021-22 (IN RS. CR) PART A								
S.No.	Particulars	Opening GFA (as on 31.03.2021)	Cumulative Depreciation	Deduction to GFA	Closing GFA	Average GFA	Depreciation Rate	Allowable Gross Depreciation
1	Land on lease	0.61	-	-	0.61	0.61		-
2	Buildings	169.18	-	-	169.18	169.18	3.34%	5.65
3	Other Civil Works	-	-	-	-	-	3.34%	0.00
4	Plants & Machinery	1,948.35	-	542.78	1,405.57	1,676.96	5.28%	88.54
5	Lines, Cables, Networks etc.	5,888.08	-	9.06	5,879.02	5,883.55	5.28%	310.65
6	Vehicles	0.61	-	-	0.61	0.61	6.33%	0.04
7	Furniture & Fixtures	9.20	-	-	9.20	9.20	6.33%	0.58
8	Office Equipment's	4.16	-	-	4.16	4.16	6.33%	0.26
9	Capital Expenditure on Assets not belonging to utility	-	-	-	-			
10	Total Fixed Assets	8,020.20	-	551.84	7,468.36	7,744.28	5.24%	405.73
11	Less: Consumer Contribution Amortised							
12	Net Allowable Depreciation	8,020.20	-	551.84	7,468.36	7,744.28	5.24%	405.73

TABLE 2-31 GROSS ALLOWABLE DEPRECIATION FOR FY 2021-22 (IN RS. CR) PART B

GROSS ALLOWABLE DEPRECIATION FOR ASSETS AFTER 01.04.2020 OF DVVNL FOR FY 2021-22 (IN RS. CR) PART B									
S.No.	Particulars	Opening GFA net of Grant (as on 01.04.2021)	Addition to GFA	Deduction of Grants	Deduction to GFA	Closing GFA	Average GFA	Depreciation Rate	Allowable Gross Depreciation
1	Land & Land Rights	0.15	-		-	0.15	0.15	0.00%	-
2	Buildings	42.22	24.47		-	66.70	54.46	3.34%	1.82
3	Other Civil Works	-	-		-	-	-	3.34%	0.00
4	Plant & Machinery	486.26	1,121.13		135.48	1,471.91	979.09	5.28%	51.70
5	Lines, Cables, Network etc.	1,469.53	1,771.35		2.26	3,238.62	2,354.07	5.28%	124.30
6	Vehicles	0.15	0.00		-	0.16	0.16	6.33%	0.01
7	Furniture & Fixtures	2.30	1.74		-	4.04	3.17	6.33%	0.20
8	Office Equipments	1.04	6.27		-	7.31	4.17	6.33%	0.26
9	Capital Expenditure on Assets not belonging to utility	-	-		-	-	-		
10	Total Fixed Assets	2,001.81	2,924.97		137.74	4,926.78	3,464.29	5.15%	178.28
11	Non depreciable assets (Land & Land Rights)	0.15	-		-				
12	Depreciable assets	2,001.66	2,924.97		137.74	4,926.78	3,464.29	5.15%	178.28

- 2.10.5. Accordingly, the depreciation as approved by the Hon'ble Commission in its Tariff Order FY 2021-22 and as computed above is shown as under:

TABLE 2-32 NET ALLOWABLE DEPRECIATION FOR FY 2021-22 (IN RS. CR)

Particulars	Approved in T.O. dtd. 29.07.2021	Claimed
Gross Allowable Depreciation	591.14	584.01
Less: Equivalent amount of depreciation on assets acquired out of the Consumer Contribution and GoUP Subsidy	84.86	150.90
Net Allowable Depreciation	506.28	433.12

2.11. Provision for Bad and Doubtful Debts

- 2.11.1. The Regulation 46 of the MYT Distribution Regulations, 2019 provides for expenses under bad and doubtful debts to the extent of 2% of the revenue receivables as specified below:

“46.1. For any Year, the Commission may allow a provision for write off of bad and doubtful debts up to 2% of the amount shown as Revenue Receivables from sale of electricity in the audited accounts of the Distribution Licensee for that Year or the actual write off of bad debts, whichever is less:

Provided further that such provision allowed by the Commission for any Year shall not exceed the actual provision for write off of bad and doubtful debts made by the Distribution Licensee in the audited accounts of that Year:

Provided that the Commission, in its ARR / Tariff Order, may provisionally approve provision for write off of bad and doubtful debts based on the actual provision for write off of bad and doubtful debts made by the Distribution Licensee in the latest Audited Accounts available for the Petitioner, and as allowed by the Commission:

Provided further that if subsequent to the write off of a particular bad debt, revenue is realised from such bad debt, the same shall be included under the Non-Tariff Income of the year in which such revenue is realised.”

- 2.11.2. The Petitioner has computed bad and doubtful debts at 2% of the revenue receivables as per audited accounts of FY 2021-22.

TABLE 2-33 ALLOWABLE PROVISION FOR BAD AND DOUBTFUL DEBTS FOR FY 2021-22 (IN RS. CR)

Particulars	Approved in T.O. dtd. 29.07.2021	Claimed
Total Revenue Receivables from Retail Sales	12031.11	10,417.22
% of Provision for Bad and Doubtful Debts		2%
Bad and Doubtful Debts as per governing regulations	179.94	208.34
Bad and Doubtful Debts as per Audited Account		2,209.50
Bad Debt Claimed		208.34

2.11.3. The Petitioner requests to approve the bad debts claimed in above Table.

2.12. Return on Equity

2.12.1. The Regulation 22 of the Distribution MYT Regulations, 2019 provides for return on equity @15% as specified below:

“22.1 Return on equity shall be computed in Rs. terms on equity base at the rate of 14.5% post-tax per annum for the Transmission Licensee and at the rate of 15% post-tax per annum for Distribution Licensee respectively as determined in accordance with Regulation 20:

Provided that assets funded by Consumer Contribution / Deposit works, Capital Subsidies / Grants and corresponding Depreciation shall not form part of the Capital Cost. Actual Equity infused by the Licensee as per book value shall be considered and shall be used for computation in these Regulations.”

2.12.2. The Petitioner has considered closing equity approved by the Hon'ble Commission in its true up Order for FY 2020-21 as opening for FY 2021-22. Equity addition during the year has been considered 30% of GFA addition during the year net of consumer contribution, capital subsidies/ grants and de-captlization.

2.12.3. The Return on Equity (RoE) for FY 2021-22 is shown below:

TABLE 2-34 RETURN ON EQUITY ROE FOR FY 2021-22 (IN RS. CR)

Particulars	Approved in T.O. dtd. 29.07.2021	Claimed
Opening Equity	3,388.65	3,297.41

Particulars	Approved in T.O. dtd. 29.07.2021	Claimed
Additions (30% of Capitalization net of Consumer Contribution, Grants and de-capitalization)	417.97	630.18
Closing Equity	3,806.62	3,927.59
Rate of Return on Equity (%)	15.00%	15.00%
Allowable Return on Equity	539.65	541.88

2.12.4. The Petitioner requests the Hon'ble Commission to approve the RoE as claimed in the above Table.

2.13. Revenue from Sale of Power

2.13.1. The audited accounts have reported the actual revenue from sale of power to be **Rs. 10,417 Crores** towards electricity Sales of **19,129 MUs**. The petitioner requests the Hon'ble Commission to approve the same.

2.14. Non-Tariff Incomes (NTI)

2.14.1. Hon'ble BERC in its TO dated: 26, March 2021 has allowed the Discom of Bihar not to treat Financing Cost of DPS as NTI. Further the financing cost incurred on the principal amount on which the DPS was charges was reduced from Total NTI to arrive at Net NTI. The relevant extract of the same is mentioned below:

"4.21.23 Petitioners, in their submission, have considered the financing cost on DPS (Rs. 134.66 Crore for NBPDC and Rs. 60.15 Crore for SBPDCL) and adjusted the same against the non-tariff income and net non-tariff income claimed in truing up for FY 2019-20. Commission found the claim of petitioner's in line with the methodology considered by the Commission for financing of outstanding dues and the judgment of the APTEL dated 30 July, 2010 in Appeal No. 153 of 2009 between North Delhi Power Ltd. Vs DERC. The Judgement given by APTEL is as below-

Para 58(i). Therefore, the State Commission is directed to rectify its computation of the financing cost relating to the late payment surcharge for the FY 2007-08 at the prevalent market lending rate during that period keeping in view the prevailing Prime Lending Rate."

2.14.2. Furthermore, it can also be seen from above para that Ld. Bihar Commission has relied on APTEL Judgment dated 30 July, 2010 wherein the state commission of Delhi was directed to rectify the computation of financing cost relating to DPS.

2.14.3. It is pertinent to highlight that the Hon'ble Commission in its last Tariff Order directed to demonstrate the genuineness and need of financing DPS for allowing the same. It is submitted that Principal amount on which the DPS was charged to consumers was Rs. 426.68 Cr. which is substantially high and cannot be managed by working capital. Hence financing of DPS was required to carry out the smooth working of Discom. The Discom has procured the short term loan at 9.50% and has incurred Rs. 40.53 Cr. toward the financing of DPS for smooth operation.

2.14.4. Accordingly, the Petitioner is claiming the financing costs of DPS as shown in the Table below:

TABLE 2-35 FINANCING COSTS OF DPS FOR FY 2021-22 (IN RS. CR)

Particulars	FY 2021-22
Delayed payment Surcharge Received	102.40
DPS grossed-up at 2% per month	24%
Amount after grossing-up of DPS	426.68
Applicable interest rate for working capital finance	9.50%
Financing costs of DPS	40.53

2.14.5. Further the Petitioner has worked out the additional interest incurred for funding the Cash gap due to delay in payment by consumers, etc. as shown in table below. The same is worked out from the Audited balance sheet of the petitioner.

TABLE 2-36 ADDITIONAL INTEREST INCURRED FOR FUNDING FY 2021-22 (IN RS. CR)

Total Interest Incurred in FY 2021-22 (Rs. Cr) (A)	Total Interest and Finance Charges claimed (Rs. Cr) (B)	Additional Interest incurred by Discoms for funding the Cash gap due to delay in payment by consumers, etc (Rs. Cr.) [A-B]
2,149.88	484.63	1,665.24

2.14.6. However, the Petitioner is claiming only Normative Financing Cost of DPS as show in above Paras.

2.14.7. The approved and claimed non-tariff income is shown in table below:

TABLE 2-37 NON- TARIFF INCOME FOR FY 2021-22 (IN RS. CR)

Particulars	Approved in T.O. dated 29.07.2021	Claimed
Income form Investment		7.51
Fixed Deposit / DPS		102.40
Rents		0.23
Interest income on loans / advances to employees;		0.00
Interest on Advances to Suppliers / Contractors		4.74
Miscellaneous Receipts from consumers		0.00
Less: Financing cost of DPS		40.53
Total	24.6	74.34

2.14.8. The Petitioner requests the Hon'ble Commission to allow the cost of financing of DPS as a part of the Non-Tariff income claimed in above Table.

2.15. GoUP Subsidy

2.15.1. The details of GoUP subsidy for FY 2021-22 as approved by the Commission in Tariff Order dated July 29, 2021 and as submitted by State Discoms for FY 2021-22 is shown in the Table below:

TABLE 2-38 CONSOLIDATED GOUP SUBSIDY FOR FY 2021-22 (IN RS. CR)

Particulars	Approved in Order dated July 29, 2021	Actual Receipt
DVVNL	2,477.86	3,770.27

2.16. Aggregate Revenue Requirement (ARR) for FY 2021-22

2.16.1. The Aggregate Revenue Requirement for FY 2021-22 after final truing up is summarised in the table below:

TABLE 2-39 AGGREGATE REVENUE REQUIREMENT (ARR) FOR FY 2021-22 (IN RS. CR)

S.No	Particulars	True-Up Year FY 2021-22		
		Approved in TO dated 29.07.2021	Audited	Claimed
I.	Power Purchase or Energy Available at Discom Periphery (MU)	22,418	25,725	25,725
II.	Sale of Power (MU)	19,879	19,129	19,129
III.	Distribution Loss (%)	11.33%	25.64%	25.64%

S.No	Particulars	True-Up Year		
		FY 2021-22		
		Approved in TO dated 29.07.2021	Audited	Claimed
A	Expenditure			
a	Cost of Power Procurement	11,103.63	10,208.34	10,208.34
b	Transmission and Load Dispatch Charges	542.78	698.78	698.78
c	Gross O&M Expenses			
i	R&M Expense	716.41	575.51	814.05
ii	Employee Expenses	538.72	625.62	852.78
iii	A&G Expense	108.18	661.09	126.95
e	Total Gross O&M expenses (i+ii+iii)	1,363.31	1,862.22	1,793.78
f	Smart Metering OPEX	-	-	46.11
g	Depreciation	506.28	630.24	433.12
h	Interest on Long-Term Loan	419.58	297.98	296.02
i	Interest on Security Deposit from Consumers and Distribution system Users	29.78	29.11	29.11
j	Finance/Bank Charges	-	41.23	41.23
k	Interest on Working Capital	107.20	1,781.55	118.37
l	Bad and Doubtful debts	179.94	2,209.50	208.34
m	Return on Equity	539.65	-	541.88
n	Income Tax	-	-	-
	Total Expenditure (A)	14,792.15	17,758.96	14,415.08
	Less:			
o	Interest Capitalisation	105.01	-	-
p	Employee Capitalisation	220.38	222.50	222.50
B	Net Expenditure (A-q-r)	14,466.76	17,536.46	14,192.48
C	Less: Non Tariff Income	24.60	209.28	74.34
D	Net Annual Revenue Requirement of Licensee(B-C)	14,442.16	17,327.18	14,118.24
	Receipts			
a	Revenue Assessment at Payable Tariff	12,031.11	10,417.22	10,417.22
b	Income from other Business	-	-	-
c	Revenue from Open Access Customers	6.92	-	-
E	Total Revenue (a+b+c)	12,038.03	10,417.22	10,417.22
F	(Shortfall)/Excess before tariff revision impact (E-D)	(2,404.13)	(6,909.96)	(3,701.01)
G	Tariff Revision Impact	-	-	-
H	Shortfall/Excess after tariff revision impact (F+G)	(2,404.13)	(6,909.96)	(3,701.01)
I	Govt. Subsidy Received/Declared	2,477.86	3,770.27	3,770.27
J	(Shortfall)/Excess(H+J)	73.73	(3,139.69)	69.25

2.17. Prior Period Subsidy

2.17.1. It is respectfully submitted that the Hon'ble Commission in its True-up order for FY 2020-21 had recognised the subsidy received from GoUP Rs. 1,68,577.98 lakhs, as per the Balance sheet of DVVNL for

FY 2021-22. In this regard, it is submitted that the subsidy mentioned in the Balance sheet of DVVNL for FY 2020-21 was wrongly captured as Rs 1,68,577.98 lakh instead of Rs. 1,28,189.54 lakhs, the issue was also brought to the notice of the Hon'ble Commission and the subsidy figures now stand corrected as Rs. 1,28,189.54 lakhs and the same is also reflected in the Balance Sheet of FY 2021-22. The Hon'ble Commission is requested to recognise Rs. 1,28,189.54 lakhs on account of the subsidy received for GoUP for FY 2020-21.

Subsidy received for FY 2021-22 (Rs Cr.)	3,770.27
Carry forward on account of FY 2020-21 (Rs Cr.)	403.88
Total Subsidy for FY 2021-22 inclusive of difference of subsidy for FY 2020-21 (Rs Cr.)	4,174.15

3. Annual Performance Review (APR) for FY 2022-23

3.1. Consumption Parameters: Consumer Numbers, Connected Load and Sales

- 3.1.1. It is submitted that there is deviation in approved sales and revised sales for FY 2022-23. Further, Sales are derivative of demand which is also uncontrollable in nature.
- 3.1.2. The Category-wise approved billing determinants vis-à-vis revised billing determinants for FY 2022-23 is shown in the Table below:

TABLE 3-1: REVISED CONSUMPTION PARAMETERS FOR FY 2022-23

Category	Approved			Revised Estimate		
	Consumers (Nos)	Load (kW)	Sales (MU)	Consumers (Nos)	Load (kW)	Sales (MU)
LMV-1 Domestic Light Fan & Power	59,54,923	80,65,746	9,962	52,81,384	70,99,367	7,475
LMV-2-Non Domestic Light Fan & Power	3,46,602	8,67,123	1,303	2,85,935	7,81,646	1,154
LMV-3 Public Lamps	2,184	45,405	113	2,410	31,460	81
LMV-4 Light, Fan & Power for Public/Private Institution	34,285	1,68,691	279	43,314	1,56,697	285
LMV-5 Private Tube Well/Pumping Sets	3,07,866	23,96,606	4,584	3,05,259	24,62,488	4,801
LMV-6 Small & Medium Power upto 100 hp/75kw	51,268	4,84,783	696	44,564	4,49,954	604
LMV-7 Public Water Works	11,709	1,36,374	428	20,652	3,26,145	1,046
LMV-8 State Tube Wells & Pumps Canal upto 100HP	7,735	1,82,638	978			
LMV-9 Temporary Supply	7,189	35,523	68	3,346	11,415	40
LMV- 10 Departmental Employees	19,607	85,154	181	17,367	82,225	169
LMV -11 Electrical Vehicles	13	765	0	4	1,550	1
HV-1 Non Industrial Bulk Load	819	2,22,435	430	621	1,58,172	339
HV-2 Large & Heavy Power above 100 BHP (75 kW)	3,576	11,30,945	3,325	3,236	10,31,072	2,904
HV-3 Railway Traction	2	36,000	62	-	-	-
HV-4 Lift Irrigation & P. Canal above 100BHP (75kW)	43	36,201	113	44	45,330	105
Bulk Supply	-	-	-	1	11,89,958	2,300
Extra State Consumer	-	-	-	-	-	-
Total	67,47,820	1,38,95,388	22,523	60,08,137	1,38,27,481	21,304

3.2. Distribution Loss

- 3.2.1. UP State owned Distribution Licensee are in process of formulation of Revamp Distribution Sector Scheme in the State. Accordingly, based on the actual distribution loss of the discom, DVVNL has estimated the Loss trajectories for the Coming years for the implementation of the scheme. The detailed approach has been discussed in the true-up section above.
- 3.2.2. Accordingly, considering the abovementioned fact and upcoming GoI Revamp Distribution Scheme the Petitioner requests the Hon'ble Commission to consider the Distribution loss trajectory as mentioned in the table below and reconsider its decision of setting an unachievable Distribution loss trajectory for the Petitioner.

TABLE 3-2 DISTRIBUTION LOSS CONSIDERED FOR FY 2022-23

Distribution Loss	FY 2022-23
DVVNL	20.05%

3.3. Energy Balance

- 3.3.1. The Energy Balance as approved by the Hon'ble Commission vis-à-vis normative Energy Balance for FY 2022-23 is shown in the Table below:

TABLE 3-3 ENERGY BALANCE FOR FY 2022-23

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimated
Retail Sales	22,522.65	21,304.05
Distribution Losses	10.90%	20.05%
Energy at Discom Periphery for Retail Sales	25277.95	26646.71
Intra-State Transmission Losses	3.27%	3.27%
Energy Available at State periphery for Transmission	26132.48	27547.52
Energy Purchase from Stations connected to Intra-State Transmission network (UPPTCL)	17116.30	18931.03
Energy Purchase from Stations connected to Inter-State Transmission network (PGCIL)	9016.18	8616.49
Inter-State Transmission Loss	3.47%	6.59%
Net Energy Received from Stations connected to Inter-State	9340.29	9224.12

Transmission network at UPPTCL Periphery (Ex-Bus)		
Power Purchase Required & Billed Energy (MU) (Ex-Bus)	26456.59	28155.15

3.4. Power Purchase Expense

- 3.4.1. UPPCL is procuring power on behalf of Discoms at consolidated level. Accordingly, the Power Purchase section represents the consolidated power purchase at UPPCL level. The consolidated energy balance (detailed Energy Balance with further break-up of inter-State energy has been submitted in Format F13L of MYT Formats) for FY 2022-23 is as follows: -

TABLE 3-4 CONSOLIDATED ENERGY BALANCE FOR FY 2022-23

Particulars	Approved in T.O. dated 20.07.2022	Revised Estimate
Retail Sales	103686.13	107606.27
Distribution Losses	10.67%	16.98%
Energy at Discom Periphery for Retail Sales	116068.82	129613.78
Intra-State Transmission Losses	3.27%	3.27%
Energy Available at State periphery for Transmission	119992.58	133995.44
Energy Purchase from Stations connected to Intra-State Transmission network (UPPTCL)	78,797.21	92,083.49
Energy Purchase from Stations connected to Inter-State Transmission network (PGCIL)	41,195.37	41,911.94
Inter-State Transmission Loss	3.47%	6.59%
Net Energy Received from Stations connected to Inter-State Transmission network at UPPTCL Periphery (Ex-Bus)	42,676.23	44,867.56
Power Purchase Required & Billed Energy (MU) (Ex-Bus)	1,21,473.44	1,36,951.06

3.4.2. The Power Purchase Cost for FY 2022-23 is estimated based on the audited data available for Power Purchase quantum and Cost for FY 2022-23 available till Sep'22. The audited power purchase cost details for FY 2022-23 is depicted as below: -

TABLE 3-5 GENERATING STATION WISE POWER PURCHASE COST FOR FY 2022-23

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs / kWh)
A	Long term Sources											
a	Power procured from own Generating Stations (if any)											
b	From State Generating Stations Thermal											
1	ANPARA-A	3,724.75	0.72	269.80	2.06	767.69		-			1,037.49	2.79
2	ANPARA-B	6,916.20	0.44	302.11	1.98	1,368.02		-			1,670.12	2.41
3	PANKI	-	-	-	-	-		-			-	-
4	PARICHHA	-	-	-	-	-		-			-	-
3	PARICHHA EXT.	2,577.43	1.24	320.31	3.69	951.06		-			1,271.37	4.93
4	OBRA-A	-	-	-	-	-		-			-	-
5	OBRA-B	4,181.24	0.78	327.64	2.58	1,077.62		-			1,405.26	3.36
6	HARDUAGANJ	167.03	4.44	74.16	4.49	74.97		-			149.14	8.93
7	HARDUAGANJ EXT.	1,787.02	2.79	498.34	3.94	703.96		-			1,202.30	6.73

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)		(Rs. Cr.)	(Rs. / kWh)	
8	PARICHHA EXT. STAGE-II	2,319.44	2.08	483.33	3.62	840.74		-			1,324.07	5.71
9	ANPARA-D	6,412.60	1.52	977.38	1.83	1,171.33		-			2,148.70	3.35
10	Panki Extension	-	-	-		-		-			-	
11	HARDUAGANJ EXT. Stage II	3,899.50	1.53	597.69		1,312.40		45.02			1,955.11	
12	OBRA-C	406.07	1.23	50.07		87.66		-			137.72	
13	Jawaharpur	12.69	1.25	1.59		2.74		-			4.33	
	UPRVUNL Consolidated	-	-	-	-	-		-51.34			-51.34	-
	Sub-Total	32,403.97		3,902.41		8,358.18		-6.32			12,254.27	3.78
c	From State Generating Stations Hydro											
1	RIHAND	440.91	0.53	23.18	0.67	29.56		-			52.73	1.20
2	OBRA (H)	234.72	0.39	9.18	0.42	9.81		-			18.99	0.81
3	MATATILA	80.61	0.35	2.83	0.54	4.34		-			7.17	0.89
4	KHARA	276.31	0.49	13.55	0.46	12.57		-			26.13	0.95
5	UGC	29.02	-	-	2.86	8.29		-			8.29	2.86
6	SHEETLA	2.59	-	-	1.56	0.40		-			0.40	1.56
7	BELKA	3.27	-	-	2.14	0.70		-			0.70	2.14
8	BABAIL	4.21	-	-	2.84	1.19		-			1.19	2.84
	UPJVNL CONSOLIDATED	-	-	-	-	-		-			-	-
	Sub-Total	1,071.64		48.74		66.87		-			115.61	1.08

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs / kWh)
d	From Central Sector Generating Stations											
a	Thermal (NTPC)											
1	ANTA GPS	-	-	48.30	-	-	-	-		48.30	-	
2	AURAIYA GPS	-	-	100.52	-	-	-	-		100.52	-	
3	DADRI GPS	275.37	3.30	90.94	13.42	369.63	3.21			463.79	16.84	
4	JHANOR GPS	0.00		0.01	20.25	0.00	-0.00			0.01	72.62	
5	KAWAS GPS	-	-	0.01	-	-	0.01			0.02	-	
6	TANDA -TPS	1,104.64	3.11	343.60	5.17	570.93	27.18			941.71	8.52	
7	FGUTPS-I	597.67	2.84	169.92	4.45	266.03	26.24			462.20	7.73	
8	FGUTPS-II	322.47	2.75	88.61	4.51	145.59	10.77			244.97	7.60	
9	FGUTPS-III	166.20	3.51	58.27	4.43	73.66	10.60			142.54	8.58	
10	FGUTPS-IV	666.04	3.69	245.81	4.18	278.19	7.46			531.46	7.98	
11	FSTPS	142.95	1.27	18.10	3.55	50.76	0.11			68.97	4.82	
12	KHTPS-I	168.83	3.03	51.18	3.75	63.30	-0.00			114.48	6.78	
13	KHTPS-II	667.76	2.68	179.14	3.58	238.95	9.35			427.45	6.40	
14	NCTPS-I	393.29	1.42	55.89	4.33	170.14	2.86			228.89	5.82	
15	NCTPS-II	403.01	2.70	108.71	4.44	178.89	9.77			297.37	7.38	
16	RIHAND-I	2,084.33	0.87	182.36	1.81	378.04	0.45			560.85	2.69	
17	RIHAND-II	2,338.20	0.64	149.16	1.74	406.03	9.76			564.95	2.42	
18	RIHAND-III	2,508.48	1.28	321.92	1.72	431.18	6.22			759.32	3.03	
19	SINGRAULI	5,368.16	0.61	327.67	1.67	894.84	4.98			1,227.49	2.29	
20	KORBA-I STPS	19.00	0.63	1.19	1.69	3.21	0.07			4.47	2.35	

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)		(Rs. Cr.)	(Rs. / kWh)	
21	KORBA-III STPS	8.39	1.15	0.97	1.66	1.39		0.00			2.36	2.81
22	MAUDA-I STPS	27.48	2.34	6.43	4.32	11.88		0.01			18.32	6.67
23	MAUDA-II STPS	49.82	1.93	9.62	4.52	22.50		0.00			32.12	6.45
24	SOLAPUR TPS	36.17	2.52	9.12	5.20	18.82		0.00			27.94	7.73
25	SIPAT-I STPS	31.42	1.18	3.71	3.03	9.52		0.06			13.29	4.23
26	SIPAT-II STPS	12.03	1.08	1.30	3.00	3.61		-0.02			4.89	4.07
27	VINDHYANCHAL-I STPS	15.59	0.89	1.39	1.80	2.80		0.01			4.20	2.69
28	VINDHYANCHAL-II STPS	12.98	0.62	0.81	1.61	2.09		0.03			2.93	2.26
29	VINDHYANCHAL-III STPS	11.92	0.97	1.16	1.73	2.06		0.01			3.23	2.71
30	VINDHYANCHAL-IV STPS	17.84	1.34	2.39	1.70	3.04		0.07			5.49	3.08
31	VINDHYANCHAL-V STPS	8.50	1.59	1.35	1.76	1.50		0.01			2.86	3.36
32	TANDA -II-TPS	3,277.74	2.72	890.11	4.03	1,319.61		3.26			2,212.98	6.75
33	SINGRAULI STAGE III	-	-	-	-	-		-			-	-
34	GODARWARA STPS-I	27.70	2.74	7.60	4.57	12.65		-			20.25	7.31
35	LARA STPS-I	26.81	1.67	4.47	2.40	6.44		-			10.91	4.07
36	KHARGONE STPS	23.54	3.17	7.45	5.32	12.51		0.03			19.99	8.49
	NTPC CONSOLIDATED	-	-	-	-	-		162.83			162.83	-
	Sub-Total	20,814.32		3,489.19		5,949.79		295.33			9,734.32	
e	NPCIL											
1	KAPS	2.28	0.22	0.05	2.29	0.52		0.00			0.57	2.52
2	NAPP	969.12	0.16	15.40	2.89	280.31		-0.34			295.37	3.05
3	TAPP-3 & 4	7.73	0.16	0.12	3.46	2.68		0.02			2.83	3.66

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs / kWh)
4	RAPP-3 & 4	404.92	-	-	3.37	136.35		0.12			136.47	3.37
5	RAPP-5 & 6	758.03	-	-	3.64	276.02		-			276.02	3.64
	Sub-Total	2,142.08		15.57		695.88		-0.19			711.26	3.32
f	Hydro (NHPC)											
1	SALAL	223.50	0.87	19.38	1.14	25.58		3.71			48.67	2.18
2	TANAKPUR	90.23	2.38	21.52	1.65	14.92		0.01			36.45	4.04
3	CHAMERA-I	403.20	0.99	39.78	1.15	46.24		0.51			86.52	2.15
4	URI	565.00	0.97	54.83	1.04	58.60		3.04			116.46	2.06
5	CHAMERA-II	327.48	1.26	41.13	1.01	33.07		0.02			74.22	2.27
6	DHAULIGANGA	285.28	1.48	42.14	1.23	35.19		12.75			90.07	3.16
7	DULHASTI	560.15	2.46	137.82	2.69	150.86		-40.71			247.97	4.43
8	SEWA-II	112.59	1.90	21.40	2.75	30.97		0.42			52.80	4.69
9	CHAMERA-III	230.85	2.57	59.26	1.98	45.67		0.23			105.16	4.56
10	URI-II	357.39	2.28	81.33	2.49	89.01		3.72			174.06	4.87
11	PARBATI-III HEP	149.22	4.46	66.60	1.54	23.04		0.04			89.67	6.01
12	KISHANGANGA	654.58	2.38	156.04	2.05	133.94		3.42			293.39	4.48
13	PARBATI-II	57.34	-	-	2.30	13.16		-			13.16	2.30
14	SUBANSIRI LOWER	16.72	1.50	2.51	2.30	3.84		-			6.35	3.80
15	PAKALDUL	-	-	-	-	-		-			-	-
	NHPC Consolidated	-	-	-	-	-		7.51			7.51	-
	Sub-Total	4,033.55		743.73		704.08		-5.36			1,442.45	3.58
g	HYDRO (NTPC)											

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)		(Rs. Cr.)	(Rs. / kWh)	
1	KOLDAM HPS	662.05	2.64	174.69	2.49	164.65		-			339.35	5.13
2	TAPOVAN VISHNUGARH	-	-	-	-	-		-			-	-
3	LATA TAPOVAN HEP	-	-	-	-	-		-			-	-
4	SINGRAULI SHPS	9.82	-	-	6.09	5.98		-			5.98	6.09
	Sub-Total	671.88		174.69		170.64		-			345.33	5.14
h	THDC											
	HYDRO											
1	TEHRI	1,236.36	1.77	218.25	2.10	259.10		3.71			481.06	3.89
2	KOTESHWAR	496.08	2.18	108.16	2.33	115.77		0.10			224.02	4.52
3	DHUKWAN	44.16	-	-	3.01	13.31		0.13			13.44	3.04
4	VISHNUGARH PIPAL KOTHI	-	-	-	-	-		-			-	-
	THDC Consolidated	-	-	-	-	-		-			-	-
	Thermal											
1	KHURJA STPP											
	Sub-Total	1,776.60		326.41		388.17		3.94			718.52	4.04
i	SJVN											
1	RAMPUR	343.97	2.52	86.64	2.11	72.54		43.68			202.86	5.90
2	NATHPA JHAKRI	1,338.79	1.28	170.84	1.18	157.92		-9.36			319.40	2.39
	Sub-Total	1,682.76		257.48		230.46		34.32			522.26	3.10
j	NEEPCO											

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)		(Rs. Cr.)	(Rs. / kWh)	
1	Kameng HEP	225.48	-	-	3.93	88.61		0.08			88.69	3.93
k	IPP/JV HYDRO											
1	TALA	113.85	-	-	2.26	25.69		-			25.69	2.26
2	VISHNU PRAYAG	2,030.42	0.13	26.06	1.03	209.03		11.14			246.23	1.21
3	KARCHAM	832.10	1.80	149.79	1.40	116.25		-88.90			177.14	2.13
4	TEESTA-III	918.29	3.18	292.04	2.85	261.87		0.61			554.52	6.04
5	SRI NAGAR HEP	1,302.09	3.40	443.16	3.76	489.43		39.28			971.86	7.46
6	Rajghat Hydro	-	-	-	-	-		-			-	-
7	Hydro (Competitive Bidding)	466.62		48.25	-	60.50		1.61		-	110.37	2.37
	Thermal											
1	Meja Thermal Power Plant	5,876.75	2.10	1,235.64	3.41	2,004.44		-6.90			3,233.18	5.50
2	LANCO	7,116.86	0.81	575.41	2.61	1,855.36		33.40			2,464.16	3.46
3	APCPL											-
4	BEPL BARKHERA	182.01	6.42	116.87	4.62	84.04		10.01			210.92	11.59
5	BEPL KHAMBHAKHERA	179.37	6.56	117.74	4.70	84.22		1.13			203.08	11.32
6	BEPL KUNDRAKHI	176.48	6.74	119.02	4.58	80.81		1.80			201.63	11.43
7	BEPL MAQSOODAPUR	175.72	6.59	115.88	4.53	79.64		0.99			196.51	11.18
8	BEPL UTRAULA	180.17	6.94	125.11	4.73	85.30		1.84			212.25	11.78
9	KSK MAHANADI	3,715.75	3.40	1,262.53	3.38	1,254.34		-18.99			2,497.89	6.72
10	LALITPUR	9,364.94	3.43	3,210.65	3.69	3,454.92		-			6,665.58	7.12
11	M.B.POWER (PTC)	2,679.97	2.39	639.29	2.87	770.05		-			1,409.35	5.26

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)		(Rs. Cr.)	(Rs. / kWh)	
12	PRAYAGRAJ POWER	9,569.46	1.35	1,289.47	2.39	2,291.00		3.15			3,583.62	3.74
13	R.K.M.POWER	2,355.45	2.52	594.21	2.22	522.29		-			1,116.50	4.74
14	ROSA-1&2	5,452.39	2.08	1,135.22	3.14	1,714.69		-191.80			2,658.11	4.88
15	SASAN	3,631.77	0.15	56.21	1.38	502.43		36.99			595.62	1.64
16	TRN ENERGY (PTC)	1,912.64	1.57	299.39	2.32	443.93		0.88			744.20	3.89
17	NABINAGAR POWER PROJECT	1,235.84	2.05	252.90	2.54	314.14		-1.07			565.97	4.58
18	Ghatampur	10.79	2.50	2.70	2.63	2.83		-			5.53	5.13
	Sub-Total	59,479.69		12,107.55		16,707.19		-164.84			28,649.91	4.82
	Total	1,24,301.98	1.69	21,065.78	2.68	33,359.88		156.97			54,582.62	4.39
B	Medium term Sources											
C	Short term Sources	-	-	-	-	-		-			-	-
	Other Sources Sub-total	-	-	-	-	-		-			-	-
D	Cogen/ Captive											
	Baggasse/Cogen/ CPP 1	2,617.87	0.90	235.78	3.11	815.22		0.90			1,051.90	4.02
	Baggasse/Cogen/ CPP 2	-	-	-	-	-		-			-	-
	Sub-Total Cogen/ Captive	2,617.87	0.90	235.78	3.11	815.22		0.90			1,051.90	4.02

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs / kWh)
E	Bilateral & Others (Power purchased through Trading)	200.64	-16.95	-340.03	46.21	927.21		81.77			668.95	33.34
1	Solar (Existing)	5,592.77	-	-	3.80	2,123.70		190.11			2,313.81	4.14
2	Sub-Total Solar	5,592.77	-	-	3.80	2,123.70		190.11			2,313.81	4.14
3	Solar (FY 21)											
4	Solar (FY 22)	-	-	-	-	-		-			-	-
5	Solar (FY 23)	223.33	-	-	3.00	67.00		-			67.00	3.00
6	Solar (FY 24)											
	Sub-Total Solar	5,816.10		-		2,190.70		190.11			2,380.81	4.09
G	Non-Solar (Renewable)											
1	WIND (Existing)							-			-	-
2	WIND	2,299.40	-	-	3.15	725.21		11.60			736.80	3.20
3	WIND (FY 22)	-	-	-	-	-		-			-	-
4	WIND (FY 23)	558.40	-	-	3.01	168.11		-			168.11	3.01
6	Biomass Existing	73.16	-	-	6.38	46.66		-			46.66	6.38
7	Biomass FY 20											
8	MSW FY 21	96.64	-	-	7.48	72.29		-			72.29	7.48
	Sub-total RE other than solar	3,027.60		-		1,012.27		11.60			1,023.87	3.38
	Other											
1	Slop Based Power Project	61.71	2.15	13.26	1.44	8.91		-			22.17	3.59

TRUE-UP for FY 2021-22, APR for FY 2022-23 and ARR for FY 2023-24

S. No	Source of Power (Station wise)	FY 2022-23										
		Units (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Annual Other Cost		Late Payment Surcharge	Total Cost		Avg. Cost of Energy at Generator Bus
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)		(Rs. Cr.)	(Rs. / kWh)	
H	NVVN + NSM (Thermal)	767.93	0.41	31.14	3.46	265.61		6.14			302.89	3.94
	NVVN + NSM (Solar))	157.24	-	-	7.19	113.00		10.20			123.21	7.84
	Reactive Energy Charges	-	-	-	-	-		1.01			1.01	-
I	Short Term Sources	-	-	-	-	-		-			-	-
J	REC											
K	Banking	-	-	-	-	-		0.16			0.16	-
L	Transmission Charges	-	-	-	-	-		4,544.12			4,544.12	-
	RRAS	-	-	-	-	-		-19.32			-19.32	-
	Any Other Charges	-	-	-	-	-		-			-	-
	Less											
	Late Payment Surcharge							-			-	
	Grand Total	1,36,951.06		21,005.93		38,692.81		4,982.63			64,681.38	4.72

Differential Bulk Supply Tariff (DBST)

3.4.3. As the revised estimates of distribution loss for the Petitioner is different from the distribution loss level approved by the Hon'ble Commission, The Differential Bulk Supply Tariff (DBST) for FY 2022-23 had been computed as under and thereafter, the Petitioner had worked out the power purchase cost for FY 2022-23 on the same.

3.4.4. Computation of DBST as per the Commission approved methodology is shown in the Table below:

TABLE 3-6 COMPUTATION OF DBST FOR FY 2022-23

S.No	Particulars	Formulae	DVVNL	PVVNL	PuVVNL	MVVNL	KESCO	Total
1	Revenue from Tariff including subsidy (Rs Cr)	A	12,045.33	21,617.17	15,473.52	13,875.90	3,161.67	66,173.58
2	Energy Sales (MU)	B	21,304.05	33,430.07	26,048.94	22,844.07	3,979.14	1,07,606.27
3	Power Procurement Cost							
A1	Power Procurement Cost – Allocated and Unallocated PPAs (Rs Cr)							61,314.54
A2	Inter State Transmission Charges (Rs Cr)							3366.84
A1+A2	Total Power Procurement Cost excluding intra state Transmission Charges (In Rs Cr)	C						64681.38
4	Power Procurement cost of Allocated PPAs (Rs Cr)	D	2464.20	4710.68	2583.82	2583.82	179.18	12,521.71
5	Total Power Required at Discom Periphery (MU)	E	26,646.71	39,418.45	31,605.32	27,593.34	4,349.96	1,29,613.78
6	Power at Discom Periphery from allocated PPAs (MU)	F	5903.25	11963.56	6014.55	6014.55	461.88	30,357.79
7	Other Cost (Intra State Transmission, O&M, Interest, Dep etc.) (Rs. Cr.)	G	75.60	-118.71	0.00	0.00	17.22	-25.89
8	ABR (Rs/ Unit)	$H=(A/B)*10$	5.65	6.47	5.94	6.07	7.95	6.15
9	Other Cost (Rs/Unit of Sale)	$I=G*10/B$	0.04	-0.04	0.00	0.00	0.04	0.00
10	Power Purchase Rate							
A	Allocated PPAs per unit of sale (Rs/unit)	$J=D*10/B$	1.16	1.41	0.9919	1.13	0.45	1.16

TRUE-UP for FY 2021-22, APR for FY 2022-23 and ARR for FY 2023-24

S.No	Particulars	Formulae	DVVNL	PVVNL	PuVVNL	MVVNL	KESCO	Total	
B	Unallocated PPAs per unit of sale	$K=(C-\text{Total PP at "D"})*10/\text{Total Sale at "B"}$	4.85						
11	Revenue available for unallocated PPAs (Rs./unit of sale)	$L=H-I-J$	4.46	5.09	4.95	4.94	7.45	4.99	
12	Power Purchase Allocation (per unit of sale) "K" in the ratio of available Revenue "L"	M	4.34	4.95	4.808	4.80	7.24	4.85	
13	Total Power Purchase cost per unit of sale including allocated PPAs	$N=J+M$	5.49	6.36	5.800	5.93	7.69	6.01	
14	Total Power Purchase Cost (Rs Crs)	$O=N*B/10$	11,700.90	21,254.37	15,108.97	13,556.54	3,060.58	64,681.38	
	DBST (Rs/Unit)								
15	DBST Computation of Allocated PPAs	P	4.17	3.94	4.30	4.30	3.88	4.12	
16	DBST Computation of Unallocated PPAs	$Q=M*B/(E-F)$	4.45	6.03	4.89	5.08	7.41	5.26	
17	DBST of total PPAs	$R=O*10/E$	4.39	5.39	4.78	4.91	7.04	4.99	

- 3.4.5. The Petitioner has worked out the power purchase cost for FY 2022-23 based on the above Differential Bulk Supply Tariff (DBST). The allowable power purchase cost for FY 2022-23 is shown in the table below:

TABLE 3-7 POWER PURCHASE COST FOR FY 2022-23

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
Allowable Power Purchase (MU)	25,278	26,647
DBST (Rs./kWh)	5.42	4.04
Power Procurement Cost (IN RS. CR)	13,698.90	10,758.23

*DBST rate considered as mentioned in table above.

3.5. Intra-State Transmission Charges

- 3.5.1. The intra-State Transmission charges (including SLDC charges) computed based on approved transmission rate is shown in the Table below:

TABLE 3-8 INTRA-STATE TRANSMISSION CHARGES FOR FY 2022-23

Particulars	Unit	Approved in T.O. dtd. 20.07.2022	Claimed
Units Wheeled	MU	25,278	26,647
Transmission Rate as approved by UPERC for UPPTCL for FY 2022-23 in T.O. dated 20.07.2022	Rs/kWh	0.2465	0.2465
Transmission Charges	Rs Crore	623.15	656.89

- 3.5.2. It is submitted that the variation in intra state Transmission charges are on account of variation in the Units wheeled.

3.6. Operation and Maintenance Expenses

- 3.6.1. Operation and Maintenance Expenses (O&M expenses) comprises of employee expenses, repair and maintenance expenses and administrative and general expenses. The detailed approach has been discussed in the true-up section above.

Employee Expenses

- 3.6.1. The base year is computed on the trued-up for FY 2019-20. Further, the Petitioner has considered the same methodology approved by the Hon'ble Commission in the Tariff Order for FY 2022-23, for the APR of Employee expenses for FY 2022-23 as shown below.

TABLE 3-9 COMPUTED EMPLOYEE EXPENSES FOR FY 2022-23

Particulars	Claimed in Instant Petition for FY 2021-22	Average CPI Escalation of last 3 years.	Computed (Rs. Cr)
Employee Expenses	852.78	5.89%	903.03

- 3.6.2. Further, the capitalisation has been projected based on same ratio of employee expenses capitalisation and employee expenses for FY 2021-22 (True-up year). Accordingly, Employee Expenses and its Capitalisation determined for FY 2022-23 is shown in table below.

TABLE 3-10 EMPLOYEE EXPENSES FOR FY 2022-23

Sl No.	Particular	Approved in T.O. 20.07.2022	Normative
A	Gross Employee Expenses after escalation	394.81	903.03
B	Less: Employee Expenses capitalized	427.65	321.16
C	Net Employee Expenses	-32.84	581.87

Repairs & Maintenance Expenses (R&M)

- 3.6.1. The base year is computed on the trued-up for FY 2019-20. Further, the Petitioner has considered the same methodology approved by the Hon'ble Commission in the Tariff Order for FY 2022-23, for the APR of R&M expenses for FY 2022-23 as shown below.

TABLE 3-11 R&M EXPENSES FOR FY 2022-23

Particulars	Claimed in Instant Petition for FY 2021-22	Average WPI Escalation of last 3 years.	Computed (Rs. Cr)
R&M Expenses	575.25	5.32%	605.87

- 3.6.2. Further it is pertinent to highlight that the Hon'ble Commission vide Tariff Order dated 20.07.2022 approved Special R&M of Rs. 256.46 Cr. It is hereby submitted that Petitioner has prepared software for compliance of UPERC SOP Regulations, 2019 and making required arrangements. These expenditures fall in various heads under O&M Expenses and the same shall be allowed. Actual claim will be submitted during the True-up of FY 2022-23.

- 3.6.3. Net normative R&M expenses details for FY 2022-23 is shown in the Table below:

TABLE 3-12 NORMATIVE R&M EXPENSES FOR FY 2022-23

Sl No.	Particulars	Approved in T.O. 20.07.2022	Normative
1	Gross R&M Expenses after escalation	769.37	605.87
2	Less: R&M Expenses capitalized	-	-
3	Special R&M	256.46	256.46
4	Net R&M Expenses	1,025.83	862.33

Administrative and General Expense (A&G)

- 3.6.1. The base year is computed on the trued-up for FY 2019-20. Further, the Petitioner has considered the same methodology approved by the Hon'ble Commission in the Tariff Order for FY 2022-23, for the APR of A&G expenses for FY 2022-23 as shown below.

TABLE 3-13 COMPUTED A&G EXPENSES FOR FY 2022-23

Particulars	Claimed in Instant Petition for FY 2021-22	Average WPI Escalation of last 3 years.	Computed (Rs. Cr)
A&G Expenses	126.95	5.32%	133.70

- 3.6.2. Normative Administrative and General expenses details for FY 2022-23 has been shown in the Table below:

TABLE 3-14 NORMATIVE A&G EXPENSES FOR FY 2022-23

Sl No.	Particulars	Approved in T.O. 20.07.2022	Normative
1	Gross A&G Expenses after escalation	114.11	133.70
2	Less: A&G expenses capitalized	-	-
3	Net A&G expenses	114.11	133.70

Smart Metering OPEX

- 3.6.3. The amount sought as 'Additional A&G Expenses for smart metering is payable to EESL to cover cost towards smart meter and box installation, AMI software cost, consumer indexing, training, integration and Commissioning of AMI solution. It may be noted that this cost has been proposed to be recovered under Opex model based on per meter per month basis and there shall be no additional burden of depreciation, interest and return on equity on the consumer.

3.6.4. The Hon'ble Commission in Tariff Order FY 2022-23 dt. 20.07.2022 at Clause no. 5.9.24 has stated that,

“However, the Smart Meter Rollout scheme is OPEX model and not CAPEX model. With roll out of Smart Meters, the billing and collection efficiency of Discoms will increase thereby reducing the commercial losses. It is expected that the overall O&M cost of the Discoms would also decrease due to improved billing & collection efficiency which would be compensated by the charges paid in OPEX model. Hence the same cannot be allowed as additional O&M expense.”

3.6.5. The smart meter roll-out plan on Opex model was submitted to the Hon'ble Commission well before its implementation. The Hon'ble Commission while approving the roll-out plan never stated that the cost envisaged under the Opex model would not be allowed to be passed on in the ARR. Moreover, the Hon'ble Commission in its Tariff Order dated 03.09.2019 stated that it will carry out detailed analysis of the additional O&M expenses (on account of implementation of smart meter roll out plan) for ensuing years at the time of truing-up.

3.6.6. Therefore, the Hon'ble Commission is requested to allow the smart meter Opex estimated by the Petitioner for FY 2022-23:

TABLE 3-15 SMART METERING OPEX FOR FY 2022-23

Particulars	Smart Meters installed till March 2022	Smart Meters to be installed till March 2023	Rate (Rs. /meter/month including GST @18%)	OPEX (IN RS. CR)
FY 2022-23	378862	470972	101.42	52.18

3.6.7. The Hon'ble Commission is requested to approve the same.

3.6.8. Further, it is also important to mention here that Smart metering OPEX was not covered under the A&G Expense head in the past and therefore, shall be allowed in full, over and above the usual A&G Expenses proposed by the Petitioner.

3.6.9. Based on the above submission, the summary of the Operation & Maintenance expenses (O&M) approved in the Tariff Order for FY 2022-23 vis-a-vis the O&M expenses claimed are shown in the table below:

TABLE 3-16 OPERATION & MAINTENANCE EXPENSES FOR FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimate
Repair & Maintenance expenses	769.37	605.87

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimate
Employee expenses	394.81	903.03
Administrative and General expenses	114.11	133.70
Gross O&M Expenses	1278.29	1,642.60
Less:		
Employee expenses capitalized	427.65	321.16
Administrative and General expenses capitalized	-	-
Gross expenses Capitalized	427.65	321.16
Smart Meter Opex	-	52.18
Net O&M Expenses	850.64	1,373.63

3.6.10. The Petitioner requests the Hon'ble Commission to allow O&M expenses as shown in the above Table.

3.7. Capital Investment, Capitalisation and Financing

- 3.7.1. The Petitioners submits that the Central Government has approved the RDSS, a Reforms-based and Results-linked Scheme with a five-year budget of Rs. 3,03,758 Crore, to improve the quality, reliability, and affordability of power supply to consumers through a financially sustainable and operationally efficient distribution sector. The key objective of the scheme is to reduce AT& C losses to 12-15 percent across India, and the ACS-ARR gap to zero, by increasing operational efficiencies and financial sustainability of all DISCOMs/Power Departments, excluding private sector DISCOMs.
- 3.7.2. The Scheme is specifically for modernization and loss reduction using proper utilization of funds for works on Pre-Paid Smart Metering, System Metering, and Distribution Infrastructure. Many Steps have also been taken for automation and use of Information Technology (IT) in the Distribution Sector under IPDS and R-APDRP which includes the establishment of Data Centres, GIS mapping of consumers, Asset Mapping, Online energy auditing & accounting, Consumer care centers, AMI meters on feeders & Distribution Transformers, provision of Smart Metering to reduce losses etc. in urban areas
- 3.7.3. The Revamped Reforms-based and Results-linked, Distribution Sector Scheme seeks to improve the operational efficiencies and financial sustainability, by providing financial assistance to Discoms for strengthening of supply infrastructure based on

meeting pre-qualifying criteria and achieving basic minimum benchmarks in reforms.

- 3.7.4. Funding Structure of the Project a Grant of 60% of the approved cost of Distribution infrastructure works and remaining 40% bear by the State Government/Discom. As regards implementation of scheme in DVVNL, Sanctioned Amount in the Project for Loss Reduction and Smart metering works is **Rs. 3771.57** crore and **Rs. 3663.09** crore Respectively .Details of Total Project cost of the scheme is shown in table below:

TABLE 3-17 RDSS PROJECT COST DETAILS OF DVVNL (IN RS. CR)

S. No.	Particulars	Total project cost	Remarks
1	Smart Metering Works	3663.09	Tender will be executed in TOTEX mode.
2	Infrastructure Works- Loss Reduction	3771.57	Tender will be executed in CAPEX mode.
3	Infrastructure Works- Modernization		Tender will be executed in CAPEX mode.
	Total	7434.66	

- 3.7.5. The Hon'ble UPERC in its Tariff order for FY 2022-23 dated 20.07.2022 has also directed Discoms to submit separate petition for approval of capital investment plant as per Regulation 44 of 2019. The relevant section of the tariff order for FY 2022-23 is as under:

“6.8.13. The Commission vide letter dated April 01, 2022 directed the Petitioners to submit the capital expenditure of each project and take prior approval for projects with cost above Rs. 10 Crore. Petitioners should submit the CAPEX accordingly and provide all submissions / information / documents for approval of the projects in line with Regulation 44 MYT Regulations, 2019. In response to the Commission’s query, the Petitioners have made submission only in regard to Revamped Distribution Sector Scheme (RDSS) as per which Ministry of Power has approved the capex plan.

6.8.14. *The Commission finds that the Petitioners have neither sought the approval nor have they apprised the Commission on such Capital Investment Plan. Any scheme launched by the Government has to be approved by the Commission. Accordingly, the Capital Investment under the RDSS scheme has been disallowed. **The Commission directs the Petitioners to seek approval of the Capital Investment under this scheme and appropriate treatment shall be done at the time of True-Up. Similarly, the Petitioners are directed also to seek approval for any other scheme / projects as well in which the cost incurred is more than threshold limit of Rs. 10 Crore as provided in Regulation 44 of MYT Regulations, 2019.***

- 3.7.6. In the backdrop of the above facts and circumstances DVVNL is in process of filing separate petition for its proposed Investment Plan Petition for the RDSS Scheme. The petitioner submits that the proposed amount of **Rs. 7434.66** crores is to be invested in RDSS. The capital expenditure is expected to further strengthen the distribution network of the petitioner and will help in extending quality and reliable power supply in its license area.
- 3.7.7. Revised details of the capex schemes (submitted in the MYT Formats) are shown in the Table below.

TABLE 3-18 CAPEX FOR FY 2022-23 (IN RS. CR)

Schemes	Investment	Capitalisation
OTHER SCHEMES	270.11	197.87
ADB	613.00	245.20
REVAMPED SCHEME (RDSS)	301.72	120.69
Total Investments (A)	914.72	455.72
Add: Employee Capitalization (B)	321.16	321.16
Add: Interest Capitalization (C)	-	-
Total (D= A+B+C)	1,505.99	884.92
Asset not belonging to Discoms (E)		
Total (F= D-E)	1,505.99	884.92

- 3.7.8. It is pertinent to highlight that the Investment considered for FY 2022-23 is the net investments (excluding grants and consumer contributions). This investment is funded only by debt and equity portion. The Petitioner has separately provided the amount of consumer contribution and grant for FY 2022-23 in relevant section of this petition and in tariff formats as well.

- 3.7.9. Based on the methodology adopted by the Hon'ble Commission, 40% of the investments made during FY 2022-23 is capitalized in the same year. The Petitioner has also considered employee expense capitalization and Interest capitalization during FY 2022-23 as per the methodology adopted by the Hon'ble Commission. Considering the Capital Work in Progress (CWIP), investment during the year and capitalisations, the Petitioner has computed the closing CWIP for FY 2022-23. The details are provided in the table below:

TABLE 3-19 CAPITAL INVESTMENT IN FY 2022-23 (IN RS. CR)

Particulars	Derivation	Approved in T.O. dtd. 20.07.2022	Revised Estimates
Opening WIP as on 1st April	A	849.05	224.58
Investments	B	747.37	1,184.83
Employee Expenses capitalization	C	427.65	321.16
A&G Expenses Capitalisation	D	-	-
Interest Capitalisation on Interest on long term loans	E	240.43	-
Total Investments	F= A+B+C+D+E	2,264.50	1,730.57
Transferred to GFA (Total Capitalisation)	G	1,513.99	884.92
Closing WIP	H=F-G	750.51	845.65

- 3.7.10. The Table below summarises the amounts received towards consumer contributions, capital grants and subsidies in FY 2022-23:

TABLE 3-20 CONSUMER CONTRIBUTIONS, CAPITAL GRANTS AND SUBSIDIES IN FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
Opening Balance of Consumer Contributions, Grants and Subsidies towards Cost of Capital Assets	4,735.90	4,559.19
Additions during the year includes consumer contribution and grants	-	-
Less: Amortisation on consumer contribution part only	160.62	-
Closing Balance	4,575.28	4,559.19

- 3.7.11. As discussed in above tables, the capital investment eligible for financing after deducting consumer contribution and grant is shown in the table below. The Petitioner has considered the same approach

as in previous Orders and therefore, considered the funding of capitalisation (Asset put to use) in the ratio of 70:30. Considering this approach, 70% of the Capitalisation (Asset put to use) undertaken during the year has been financed through loan and balance 30% has been financed through equity contributions.

TABLE 3-21 FINANCING OF THE CAPITAL INVESTMENTS IN FY 2022-23 (IN RS. CR)

Particulars	Derivation	Revised Estimates
Investment / Capitalisation (Asset put to use) net of CCG	A	884.92
Less:		
Consumer Contribution and Grants	B	-
Investment funded by debt and equity	C=A-B	884.92
Debt Funded	70% of C	619.45
Equity Funded	30% of C	265.48

3.8. Interest & Finance Charges

Interest on Long Term Loan

- 3.8.1. The Hon'ble Commission in its previous Tariff and True-Up orders had considered a normative tariff approach with a debt equity ratio of 70:30. Considering this approach, 70% of the capital isation undertaken in any year was financed through loan and balance 30% has been financed through equity contributions. The portion of capital expenditure financed through consumer contributions, capital subsidies and grants are separated and the depreciation, interest and return on equity thereon was not charged to the consumers. Subsequently, the financing of the capital investment was worked out based on the debt equity ratio of 70:30 and net allowable depreciation was considered as normative loan repayment.
- 3.8.2. The Petitioner has worked-out the interest on long term loan based on the same philosophy.
- 3.8.3. The opening balance of long term loan has been considered equivalent to the closing loan balance for FY 2021-22 as per the present Petition.
- 3.8.4. Net Allowable depreciation for the year has been considered as normative loan repayment. The actual weighted average rate for FY 2021-22 (details are submitted in Format F31 of the MYT Tariff Formats) has been considered for computing the eligible interest expenses.

- 3.8.5. Considering the above, the interest on long term loan has been computed below. The computations for interest on long term loan are shown in table below:

TABLE 3-22 ALLOWABLE INTEREST ON LONG TERM LOAN FOR FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
Opening Loan	4,409.70	4,427.67
Loan Additions (70% of Capitalisation)	1,059.80	619.45
Less: Repayments (Depreciation allowable for the year)	510.92	515.11
Closing Loan Balance	4,958.58	4,532.01
Weighted Average Rate of Interest	11.21%	11.21%
Interest on long term loan	523.31	502.19
Less: Interest Capitalized	240.43	-
Net Interest on Loan term loan	282.88	502.19

Interest on Consumer Security Deposits

- 3.8.6. The Petitioner has considered the consumer security deposit for FY 2021-22 as opening amount of consumer security deposit for FY 2022-23. To arrive at the closing amount of security deposit for FY 2022-23 the ratio of revenue assesment for current year (FY 2022-23) and previous year (FY 2021-22) is multiplied with consumer security deposit as per the books of accounts for FY 2021-22.
- 3.8.7. The interest on consumer security deposit is calculated on average amount of consumer security deposit and at the rate of RBI as on 1st April 2022.
- 3.8.8. The Petitioner requests the Hon'ble Commission to consider the Interest on Security Deposit for APR of FY 2022-23, which has been computed at RBI interest rate of 4.25 % as on 1st April 2022. The normative interest on consumer security deposit approved by the Hon'ble Commission in Tariff Order for FY 2022-23 vis-a-vis the estimated consumer security deposit is shown in table below:

TABLE 3-23 INTEREST ON SECURITY DEPOSIT FOR FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised estimates
Closing Balance for Security Deposit	817.29	823.06
Rate of Interest (RBI bank Rate as on 01.04.2022)		4.25%
Interest on Security Deposits	33.98	32.63

Bank and Finance Charges

- 3.8.9. The Petitioner humbly submits that the banks and finance charges are legitimate charges and therefore for the estimation purpose the petitioner has considered the same value for FY 2022-23 as recorded in the account FY 2021-22. It has been considered as below:

TABLE 3-24 BANK AND FINANCE CHARGES FOR FY 2022-23 (IN RS. CR)

Particulars	Revised estimates
Bank and Finance Charges	41.23

3.9. Interest on Working Capital

- 3.9.1. The Petitioner worked-out interest on working capital for FY 2022-23 as per Regulation 25 of the Multi Year Tariff Distribution Regulations, 2019. The Regulation 25 is quoted below:

“(a) The working capital requirement of the Distribution Business shall cover:
(i) Operation and maintenance expenses for one month;
(ii) Maintenance spares at 40% of the R&M expenses for two months; and
(iii) One and half month equivalent of the expected revenue from charges Distribution system at the prevailing Tariff (excluding Electricity Duty);

Minus

(iv) Amount held as security deposits from Distribution System Users:

Provided that for the purpose of Truing-Up for any year, the working capital requirement shall be re-computed on the basis of the values of components of working capital approved by the Commission in the Truing-Up;

(b) Rate of interest on working capital shall be simple interest and shall be equal to the SBI

MCLR (1 Year) on October 01, 2019 plus 250 basis points:

Provided that for the purpose of Truing-Up for any year, simple interest on working capital

shall be allowed at a rate equal to the weighted average SBI MCLR (1 Year) prevailing during the concerned. Year plus 250 basis points.”

- 3.9.2. The detailed working of Interest on Working Capital for FY 2022-23 is shown in table below:

TABLE 3-25 INTEREST ON WORKING CAPITAL FOR FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
O&M expenses for 1 month	70.89	131.49
One and Half month equivalent of expected revenue	2,154.78	1,926.42
Maintenance spares @ 40% of R&M expenses for two months	51.29	57.49

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
Less: Security deposits from consumers, if any	817.29	824.07
Total Working Capital Requirement	1,459.67	1,291.33
State Bank Advance Rate (SBAR) % as on 1 st Oct 2019 Plus 250 bp	9.50%	10.65%
Interest on Working Capital	138.67	137.53

3.9.3. The following table summarises the Interest and Finance charges claimed by the Petitioner as against those approved by the Hon'ble Commission in the Tariff Order for FY 2022-23.

TABLE 3-26 INTEREST AND FINANCE CHARGES FOR FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
Interest on Long Term Loans		
Gross Interest on Long Term Loan	523.31	502.19
Less: Interest Capitalisation	240.43	-
A: Net Interest on Long Term Loans	282.88	502.19
Finance and Other Charges		
Interest on Consumer Security Deposits	33.98	32.66
Bank/ Finance Charges	-	41.23
B: Total Finance Charges	33.98	73.89
C: Interest on Working Capital	138.67	137.53
Total (A+B+C)	455.53	713.61

3.10. Depreciation

3.10.1. The Petitioner has computed the allowable depreciation expense on the GFA base for FY 2021-22 and at the rates approved by the Hon'ble Commission in MYT Distribution Regulations, 2019. The Petitioner has computed the depreciation only on the depreciable asset base and has excluded the non-depreciable assets such as land, land rights, etc. The depreciation has been calculated in two parts (Part A & B) for the asset blocks depreciated before 01.04.2020 and asset blocks depreciated as on 01.02.2020 as per the SLM methodology prescribed in MYT Regulations, 2019. The addition to GFA is considered in Part B and the same is considered net of Consumer contribution and grants. Considering this philosophy, the gross entitlement towards depreciation has been computed as shown in the Tables below:

TABLE 3-27 GROSS ALLOWABLE DEPRECIATION FOR FY 2022-23 (IN RS. CR) PART A

GROSS ALLOWABLE DEPRECIATION FOR ASSETS BEFORE 01.04.2020 OF DVVNL FOR FY 2022-23 (IN RS. CR) PART A								
S.No.	Particulars	Opening GFA (as on 31.03.2022)	Cumulative Depreciation	Deduction to GFA	Closing GFA	Average GFA	Depreciation Rate	Allowable Gross Depreciation
1	Land & Land Rights	0.61			0.61	0.61		-
2	Buildings	169.18			169.18	169.18	3.34%	5.65
3	Other Civil Works	-			-	-	3.34%	-
4	Plant & Machinery	1,405.57			1,405.57	1,405.57	5.28%	74.21
5	Lines, Cables, Network etc.	5,879.02			5,879.02	5,879.02	5.28%	310.41
6	Vehicles	0.61			0.61	0.61	6.33%	0.04
7	Furniture & Fixtures	9.20			9.20	9.20	6.33%	0.58
8	Office Equipments	4.16			4.16	4.16	6.33%	0.26
9	Capital Expenditure on Assets not belonging to utility	-			-			
10	Total Fixed Assets	7,468.36			7,468.36	7,468.36	5.24%	391.16

TRUE-UP for FY 2021-22, APR for FY 2022-23 and ARR for FY 2023-24

11	Non depreciable assets (Land & Land Rights)	0.61						
12	Depreciable assets	7,467.74	-	-	7,468.36	7,468.36	5.24%	391.16

TABLE 3-28 GROSS ALLOWABLE DEPRECIATION FOR FY 2022-23 (IN RS. CR) PART B

GROSS ALLOWABLE DEPRECIATION FOR ASSETS AFTER 01.04.2020 OF DVVNL FOR FY 2022-23 (IN RS. CR) PART B							
S.No.	Particulars	Opening GFA (as on 01.04.2022)	Addition to GFA	Closing GFA	Average GFA	Depreciation Rate	Allowable Gross Depreciation
1	Land & Land Rights	0.15	0.07	0.23	0.19	0.00%	-
2	Buildings	66.70	20.05	86.74	76.72	3.34%	2.56
3	Other Civil Works	-	-	0.00	0.00	3.34%	0.00
4	Plant & Machinery	1,471.91	166.55	1,638.46	1,555.19	5.28%	82.11
5	Lines, Cables, Network etc.	3,238.62	696.60	3,935.22	3,586.92	5.28%	189.39
6	Vehicles	0.16	0.07	0.23	0.19	6.33%	0.01
7	Furniture & Fixtures	4.04	1.09	5.13	4.58	6.33%	0.29
8	Office Equipments	7.31	0.49	7.80	7.56	6.33%	0.48
9	Capital Expenditure on Assets not belonging to utility	-	-	0.00			
10	Total Fixed Assets	4,926.78	884.92	5,811.70	5,369.24	5.12%	274.85
11	Non depreciable assets (Land & Land Rights)	0.15	0.07	0.23	0.19	0.00%	-
12	Depreciable Assets	4,926.63	884.85	5,811.48	5,369.05	5.12%	274.85

- 3.10.2. Accordingly, the depreciation as approved by the Hon'ble Commission in its Tariff Order dated 20.07.2022 and Revised Estimates as computed above is shown as under:

TABLE 3-29 NET ALLOWABLE DEPRECIATION FOR FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
Gross Allowable Depreciation	671.54	666.01
Less: Equivalent amount of depreciation on assets acquired out of the Consumer Contribution and GoUP Subsidy	160.62	150.90
Net Allowable Depreciation	510.92	515.11

3.11. Provision for Bad and Doubtful Debts

- 3.11.1. The Regulation 46 of the MYT Distribution Regulations, 2019 provides for expenses under bad and doubtful Debts to the extent of 2% of the revenue receivables as specified below:

“46.1 For any Year, the Commission may allow a provision for write off of bad and doubtful debts upto 2% of the amount shown as Revenue Receivables from sale of electricity in the audited accounts of the Distribution Licensee for that Year or the actual write off of bad debts, whichever is less.”

- 3.11.2. The Petitioner has computed bad and doubtful debts at 2% of the revenue receivables as per audited accounts of FY 2022-23.

TABLE 3-30 ALLOWABLE PROVISION FOR BAD AND DOUBTFUL DEBTS FOR FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
Total Revenue Receivables from Retail Sales	17,238.22	12,045.33
% of Provision for Bad and Doubtful Debts		2%
Bad and Doubtful Debts as per Regulation	95.40	240.91
Bad Debt Claimed		240.91

3.12. Return on Equity

- 3.12.1. The Regulation 22 of the Distribution MYT Regulations, 2019 provides for return on equity @15% as specified below:

“22.1 Return on equity shall be computed in Rs. terms on equity base at the rate of 14.5% post-tax per annum for the Transmission Licensee and

at the rate of 15% post-tax per annum for Distribution Licensee respectively as determined in accordance with Regulation 20.

Provided that assets funded by Consumer Contribution / Deposit works, Capital Subsidies /- Grants and corresponding Depreciation shall not form part of the Capital Cost. Actual Equity infused by the Licensee as per book value shall be considered and shall be used for computation in these Regulations.”

The Petitioner has considered closing equity in true up FY 2021-22 as opening for FY 2022-23. Equity addition during the year has been considered 30% of Capitalisation (Asset put to use) during the year net of consumer contribution, capital subsidies/ grants.

3.12.2. The Return on Equity (RoE) for FY 2022-23 is shown below:

TABLE 3-31 RETURN ON EQUITY (ROE) FOR FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
Opening Equity	3,913.20	3,927.59
Net additions during the year	454.20	265.48
Less: Consumer Contribution		
Less: Grants		
Equity (Closing Balance)	4,367.40	4,193.07
Rate of Return on Equity (%)	15.00%	15.00%
Allowable Return on Equity	621.05	609.05

3.13. Revenue from Sale of Power

3.13.1. The Petitioner has estimated the revenue for FY 2022-23 to be Rs. **12,030.62** Crores from the Sales of **21,304** MUs.

3.14. Non-Tariff Income

3.14.1. The Hon'ble Commission has approved non-tariff income in the Tariff Order for FY 2022-23 dated 20.07.2022, the Petitioner has claimed as approved by the Commission for FY 2022-23 as shown below:

TABLE 3-32 NON- TARIFF INCOME FOR FY 2022-23 (IN RS. CR)

Particulars	Approved in T.O. dtd. 20.07.2022	Revised Estimates
NTI	50.65	50.65

3.14.2. It is prayed to the Hon'ble Commission to approve the Non-Tariff Income as claimed by the Petitioner.

3.15. GoUP Subsidy

TABLE 3-33 DETAILS OF APPROVED GOUP SUBSIDY

Consumer Category	FY 2022-23		
	Unit	Subsidy per Unit	Total Subsidy (IN RS. CR)
LMV-1: Domestic Light, Fan & Power			6,503
Lifeline (Rural and Urban)	Rs./Unit	3.50	4,875
Rural Schedule unmetered	Rs. /kW/Month	435	180
Rural Schedule metered (for all Consumers)	Rs. / unit		
0-100 Unit		2.70	1,189
101-150 Unit		2.00	259
Private Tube Wells/ Pumping Sets (Rural Schedule)			7,097
Rural Schedule metered and unmetered	Rs./BHP/Month	550	7,097
Total Subsidy			13,600

- 3.15.1. GoUP has communicated the subsidy rates to the Hon'ble Commission vide Letter No. 703/24-1-2022-1307/2020 dated June 07, 2022 FOR FY 2022-23 as mentioned in table above for FY 2022-23.
- 3.15.2. The Petitioner estimates Rs. 3,365.99 Crore revenue subsidy from GoUP.

TABLE 3-34 GOUP SUBSIDY FOR FY 2022-23 (IN RS. CR)

Particulars	Revised Estimate
DVVNL	3,365.99

- 3.15.3. It is further submitted that the Hon'ble Commission in its Tariff order for FY 2022-23 has also recognised the Government subsidy component of LMV-5 Metered Rural Consumers as per the GoUP direction, as under:

8.1.12 Further, the Commission is in receipt of a GoUP letter with Ref: 707/24-P-1/2021 dated 25.3.2021 under Section 108 of EA 2003, wherein GoUP mentioned that since majority of the rural LMV-5 consumers are unmetered, and taking into consideration the impact of Covid pandemic, GoUP has decided that tariff rates of rural LMV-5 unmetered consumers may be levied on LMV-5 metered consumers tariff and has directed the Commission to consider the same.

8.1.13 Subsequently, GoUP again sent a letter with Ref: 812/24-1-21-1307/2020 dated 12.5.2021 for billing LMV-5 rural metered as unmetered, however metering of unmetered consumers will also be done and the meter reading will be used for the purpose of energy accounting and subsidy computation. The difference

between the revenue at unmetered rates & revenue as per metered energy & rates, would be provided to the Licensees by GoUP.

8.1.14 Although, this provision is not in conformity of Section 65 of Electricity Act, 2003, in regard to advance subsidy, however, in view of the State Government's commitment to provide additional subsidy in regards to the above arrangement, **the Commission accepts this proposal and the additional subsidy amount, which will be computed at the time of True-up shall be payable by the State Government in conformity to Section 65 of Electricity Act, 2003.**

3.15.4. In this regard, the Petitioner submits that the Hon'ble Commission may kindly recognise this GoUP subsidy component separately.

3.16. Annual Performance Review (APR) for FY 2022-23

3.16.1. The Annual Performance Review (APR) for FY 2022-23 is summarised in the table below:

TABLE 3-35 ANNUAL PERFORMANCE REVIEW (APR) FOR FY 2022-23 (IN RS. CR)

S.No	Particulars	APR	
		FY 2022-23	
		Approved in TO dated 29.07.2021	Revised Estimates
I.	Power Purchase or Energy Available at Discom Periphery (MU)	25,278	26,647
II.	Sale of Power (MU)	22,523	21,304
III.	Distribution Loss (%)	10.90%	20.05%
A	Expenditure		-
a	Cost of Power Procurement	13,698.90	10,758.23
b	Transmission and Load Dispatch Charges	623.14	656.84
c	Gross O&M Expenses		-
i	R&M Expense	769.37	862.33
ii	Employee Expenses	394.81	903.03
iii	A&G Expense	114.11	133.70
e	Total Gross O&M expenses (i+ii+iii)	1,278.29	1,899.06
f	Smart Metering OPEX	-	52.18
g	Depreciation	510.92	515.11
h	Interest on Long-Term Loan	523.31	502.19
i	Interest on Security Deposit from Consumers and Distribution system Users	33.98	32.66
j	Finance/Bank Charges	-	41.23
k	Interest on Working Capital	138.67	137.53
l	Bad and Doubtful debts	95.40	240.91
m	Return on Equity	621.05	609.05
n	Income Tax	-	-
	Total Expenditure (A)	17,523.66	15,444.99
	Less:		-
o	Interest Capitalisation	240.43	-

S.No	Particulars	APR	
		FY 2022-23	
		Approved in TO dated 29.07.2021	Revised Estimates
p	Employee Capitalisation	427.65	321.16
B	Net Expenditure (A-q-r)	16,855.58	15,123.83
C	Less: Non Tariff Income	50.65	50.65
D	Net Annual Revenue Requirement of Licensee(B-C)	16,804.93	15,073.18
	Receipts		-
a	Revenue Assessment at Payable Tariff	17,238.22	12,045.33
	<i>Revenue from Subsidy and Cross subsidy</i>		3,602.14
	<i>Revenue Assessment at Full Cost Tariff</i>		15,647.47
b	Income from other Business	-	-
c	Revenue from Open Access Customers	-	-
E	Total Revenue (a+b+c)	17,238.22	12,045.33
			-
F	(Shortfall)/Excess before tariff revision impact (E-D)	433.29	(3,027.85)
G	Tariff Revision Impact	-	-
H	Shortfall/Excess after tariff revision impact (F+G)	433.29	(3,027.85)
I	Govt. Subsidy Received/Declared	-	3,365.99
J	(Shortfall)/Excess(H+I)	433.29	338.15

3.16.2. The Petitioner requests to approve the revised estimates of the ARR claim/Revenue Gap for FY 2022-23 in above Table.

4. Aggregate Revenue Requirement (ARR) for FY 2023-24

4.1. Consumption parameters: Consumer numbers, Connected load, Sales

- 4.1.1. For the purpose of projection of billing determinants (Consumer numbers, connected load and Sales), the distribution licensee has analysed category-wise and sub-category wise data of the sale of electricity, number of consumers, connected / contracted load, etc. of the preceding seven years i.e. from FY 2014-15 to FY 2020-21.
- 4.1.2. The approach being followed is to analyse 7-year, 6-year, 5-year, 4-year, 3-year, 2-year Compound Annual Growth Rates (CAGRs) and year on year growth rate of each sub-category for appropriate projection of billing determinants. The Petitioner has considered the FY 2021-22 billing determinants as a base year for the purpose of computation of billing determinants of FY 2023-24. The Licensee has made effort to focus on reasonable growth for FY 2023-24 making required corrections in the projections of earlier years.
- 4.1.3. It is informed that under the Saubhagya Yojana, the Petitioner has added substantial number of Lifeline consumers at LT network. These consumers are small consumers which are qualified under tariff sub-category "Lifeline consumers". Such consumers have been migrated to IT billing system resulting in change in sub-categories/slabs based on contracted load and energy consumed. This has resulted in significant variation in corresponding sub-category/slabs. These consumers are small consumers which are qualified under tariff sub-category "Lifeline consumers". The consumers which are flagged under different LMV-1 sub-categories are now readjusted under LMV-1 category as per their consumption pattern. The consumers having 1 kW load and consumption upto 100 units are covered in Life line category and any change in this criteria will result in change of sub category / slab of such consumers. This is a dynamic situation which may keep on changing on monthly basis. However, the overall number of consumers within the category show normalized growth.
- 4.1.4. The Category-wise billing determinants as projected by the Petitioner for FY 2023-24 is shown in the Table below:

TABLE 4-1: BILLING DETERMINANTS PROJECTED AS PER EXISTING TARIFF STRUCTURE FOR FY 2023-24

Consumer Category/ Sub-Category	Consumers	Load (kW)	Projected Sales (MU)
LMV-1: Domestic Light, Fan & Power			
Life Line Consumers (both Rural and Urban) (up to 100 kWh/month)	32,22,271	32,24,918	2,299.18
Dom: Rural Schedule (unmetered)	680	1,059	2.75
Dom: Rural Schedule (metered) other than BPL	8,68,240	12,03,680	1,093.37
0-100 kWh/month	3,17,722	3,00,920	776.31
101-150 kWh/month	3,51,264	4,09,251	117.76
151-300 kWh/month	99,871	4,69,435	178.43
Above 300 kWh/Month (Starting from 301 units)	99,383	24,074	20.87
Dom: Supply at Single Point for Bulk Load	84	31,638	122.31
Other Metered Domestic Consumers other than BPL	14,98,557	31,85,769	4,691.43
0-100 kWh/month	6,23,071	12,10,592	1,754.02
101-150 kWh/month	3,74,639	6,37,154	554.66
151-300 kWh/month	2,25,800	7,00,869	1,102.86
Above 300 kWh/Month (Starting from 301 units)	2,75,047	6,37,154	1,279.90
Sub Total	55,89,833	76,47,064	8,209.04
LMV-2: Non Domestic Light, Fan & Power			
Non Dom: Rural Schedule (metered)	49,120	1,45,453	245.65
Non Dom: Other Metered Non-Domestic Supply	2,59,690	6,98,725	1,000.30
Load upto 4 kW	2,51,899	6,28,852	850.26
Upto 300 kWh / month	2,05,259	5,10,768	672.56
Above 300 kWh/Month	46,640	1,18,085	177.70
Above 4 kW	7,791	69,872	150.05
Upto 1000 kWh / month	7,012	41,923	48.36
Above 1000 kWh/Month	779	27,949	101.69
Sub Total	3,08,810	8,44,178	1,245.95
LMV-3: Public Lamps			
Unmetered	333	4,647	9.65
Unmetered - Gram Panchayat	228	573	1.71
Unmetered - Nagar Palika & Nagar Panchayat	93	3,560	6.55
Unmetered - Nagar Nigam	12	514	1.39
Metered	2,252	27,922	74.30
Metered - Gram Panchayat	1,236	2,608	6.32
18:00 hrs - 06:00 hrs	1,236	2,608	6.32
06:00 hrs - 18:00 hrs	-	-	-

Consumer Category/ Sub-Category	Consumers	Load (kW)	Projected Sales (MU)
Metered - Nagar Palika & Nagar Panchayat	635	17,600	40.66
18:00 hrs - 06:00 hrs	635	17,600	40.66
06:00 hrs - 18:00 hrs	-	-	-
Metered - Nagar Nigam	382	7,714	27.33
18:00 hrs - 06:00 hrs	382	7,714	27.33
06:00 hrs - 18:00 hrs	-	-	-
Sub Total	2,585	32,568	83.95
LMV-4: Light, fan & Power for Institutions			
Inst: Public	41,087	1,23,983	233.31
Inst: Private	4,392	40,549	66.08
Sub Total	45,479	1,64,532	299.40
LMV-5: Private Tube Wells/ Pumping Sets			
Consumers getting supply as per "Rural Schedule"	2,89,490	23,54,736	4,644.01
PTW: Rural Schedule (unmetered) (Total)	2,36,249	19,02,427	4,185.04
PTW: Rural Schedule (unmetered)	2,36,249	19,02,427	4,185.04
PTW: Rural Schedule (metered) (Total)	53,241	4,52,309	458.97
PTW: Rural Schedule (metered)	53,241	4,52,309	458.97
PTW: Rural Schedule (Energy Efficient Pumps) (metered)	-	-	-
Consumers getting supply as per "Urban Schedule (Metered Supply)"	22,669	1,63,758	218.48
PTW: Urban Schedule (metered)	22,669	1,63,758	218.48
Sub Total	3,12,160	25,18,494	4,862.49
LMV 6: Small and Medium Power upto 100 HP (75 kW)			
Consumers getting supply as per "Rural Schedule"	9,973	85,779	119.36
Up to 20 kW	9,660	67,187	99.74
Above 20 kW	313	18,592	19.62
Consumers getting supply other than "Rural Schedule"	37,711	3,95,673	527.02
Summer Months (April to September)	37,711	3,95,673	263.51
For load upto 20 kW	30,168	2,76,971	171.28
05:00 hrs to 11:00 hrs	4,597	42,208	26.10
11:00 hrs to 17:00 hrs	13,996	1,28,497	79.46
17:00 hrs to 23:00 hrs	5,847	53,683	33.20
23:00 hrs to 05:00 hrs	5,727	52,583	32.52
For load above 20 kW	7,542	1,18,702	92.23
05:00 hrs to 11:00 hrs	1,149	18,089	14.05

Consumer Category/ Sub-Category	Consumers	Load (kW)	Projected Sales (MU)
11:00 hrs to 17:00 hrs	3,499	55,070	42.79
17:00 hrs to 23:00 hrs	1,462	23,007	17.88
23:00 hrs to 05:00 hrs	1,432	22,535	17.51
Winter Months (October to March)	37,711	3,95,673	263.51
For load upto 20 kW	30,168	2,76,971	171.28
05:00 hrs to 11:00 hrs	4,597	42,208	26.10
11:00 hrs to 17:00 hrs	13,996	1,28,497	79.46
17:00 hrs to 23:00 hrs	5,847	53,683	33.20
23:00 hrs to 05:00 hrs	5,727	52,583	32.52
For load above 20 kW	7,542	1,18,702	92.23
05:00 hrs to 11:00 hrs	1,149	18,089	14.05
11:00 hrs to 17:00 hrs	3,499	55,070	42.79
17:00 hrs to 23:00 hrs	1,462	23,007	17.88
23:00 hrs to 05:00 hrs	1,432	22,535	17.51
Sub Total	47,683	4,81,451	646.38
LMV-7: Public Water Works			
Metered	22,831	3,42,769	1,246.56
Rural	13,503	1,82,795	657.89
Urban	9,329	1,59,973	588.67
Unmetered	4	230	0.51
Rural	1	16	0.10
Urban	3	214	0.42
Sub Total	22,835	3,42,999	1,247.07
LMV-9: Temporary Supply			
Metered	3,484	11,913	40.62
Metered TS: Individual residential consumers	1,654	3,562	7.43
Metered TS: Others	1,830	8,350	33.19
Unmetered	14	35	0.69
Unmetered TS: Ceremonies	-	-	0.09
Unmetered TS: Temp shops	14	35	0.60
Sub Total	3,498	11,948	41.30
LMV-10: Departmental Employees			
	17,541	82,923	173.83
LMV-11: Electrical Vehicles			
Multi Story Buildings	-	-	-
LMV-1b	-	-	-
HV-1b	-	-	-
Public Charging Station	5	1,705	1.57
LT	4	71	0.02
Summer Months (April to September)	4	71	0.01
05:00 hrs to 11:00 hrs	1	11	0.00
11:00 hrs to 17:00 hrs	2	33	0.01
17:00 hrs to 23:00 hrs	1	14	0.00

Consumer Category/ Sub-Category	Consumers	Load (kW)	Projected Sales (MU)
23:00 hrs to 05:00 hrs	1	14	0.00
Winter Months (October to March)	4	71	0.01
05:00 hrs to 11:00 hrs	1	11	0.00
11:00 hrs to 17:00 hrs	2	33	0.01
17:00 hrs to 23:00 hrs	1	14	0.00
23:00 hrs to 05:00 hrs	1	14	0.00
HT	1	1,634	1.55
Summer Months (April to September)	1	1,634	0.77
05:00 hrs to 11:00 hrs	0	249	0.12
11:00 hrs to 17:00 hrs	1	758	0.36
17:00 hrs to 23:00 hrs	0	317	0.15
23:00 hrs to 05:00 hrs	0	310	0.15
Winter Months (October to March)	1	1,634	0.77
05:00 hrs to 11:00 hrs	0	249	0.12
11:00 hrs to 17:00 hrs	1	758	0.36
17:00 hrs to 23:00 hrs	0	317	0.15
23:00 hrs to 05:00 hrs	0	310	0.15
Sub Total	5	1,705	1.57
HV-1: Non-Industrial Bulk Loads			
Commercial Loads / Private Institutions / Non-Domestic Bulk Power with contracted Load 75 kW & above and getting supply at single point on 11 kV & above voltage level.	327	83,179	178.93
Supply at 11 kV	163	66,543	161.49
Supply above 11 kV	163	16,636	17.44
Public Institutions, Registered Societies, Residential Colonies / Townships, Residential Multi-Storied Buildings including Residential Multi-Storied Buildings with contracted load 75 kW & above and getting supply at Single Point on 11 kV & above voltage levels	327	83,179	178.93
Supply at 11 kV	163	41,590	161.49
Supply above 11 kV	163	41,590	17.44
Sub Total	653	1,66,358	357.86
HV-2: Large and Heavy Power above 100 BHP (75 kW)			
HV2 Urban Schedule: Supply at 11 kV	3,193	7,45,151	2,012.17
Summer Months (April to September)	3,193	7,45,151	1,006.09
05:00 hrs to 11:00 hrs	625	1,45,933	197.04

Consumer Category/ Sub-Category	Consumers	Load (kW)	Projected Sales (MU)
11:00 hrs to 17:00 hrs	1,139	2,65,948	359.08
17:00 hrs to 23:00 hrs	625	1,45,942	197.05
23:00 hrs to 05:00 hrs	803	1,87,329	252.93
Winter Months (October to March)	3,193	7,45,151	1,006.09
05:00 hrs to 11:00 hrs	625	1,45,933	197.04
11:00 hrs to 17:00 hrs	1,139	2,65,948	359.08
17:00 hrs to 23:00 hrs	625	1,45,942	197.05
23:00 hrs to 05:00 hrs	803	1,87,329	252.93
HV2 Urban Schedule: Supply above 11 kV & upto 66 kV	123	2,19,473	836.65
Summer Months (April to September)	123	2,19,473	418.33
05:00 hrs to 11:00 hrs	24	42,982	81.93
11:00 hrs to 17:00 hrs	44	78,331	149.30
17:00 hrs to 23:00 hrs	24	42,985	81.93
23:00 hrs to 05:00 hrs	31	55,175	105.17
Winter Months (October to March)	123	2,19,473	418.33
05:00 hrs to 11:00 hrs	24	42,982	81.93
11:00 hrs to 17:00 hrs	44	78,331	149.30
17:00 hrs to 23:00 hrs	24	42,985	81.93
23:00 hrs to 05:00 hrs	31	55,175	105.17
HV2 Urban Schedule: Supply above 66 kV & upto 132 kV	3	46,991	82.14
Summer Months (April to September)	3	46,991	41.07
05:00 hrs to 11:00 hrs	1	9,203	8.04
11:00 hrs to 17:00 hrs	1	16,771	14.66
17:00 hrs to 23:00 hrs	1	9,203	8.04
23:00 hrs to 05:00 hrs	1	11,813	10.32
Winter Months (October to March)	3	46,991	41.07
05:00 hrs to 11:00 hrs	1	9,203	8.04
11:00 hrs to 17:00 hrs	1	16,771	14.66
17:00 hrs to 23:00 hrs	1	9,203	8.04
23:00 hrs to 05:00 hrs	1	11,813	10.32
HV2 Urban Schedule: Supply above 132 kV	1	57,256	181.66
Summer Months (April to September)	1	57,256	90.83
05:00 hrs to 11:00 hrs	0	11,213	17.79
11:00 hrs to 17:00 hrs	0	20,435	32.42
17:00 hrs to 23:00 hrs	0	11,214	17.79
23:00 hrs to 05:00 hrs	0	14,394	22.83
Winter Months (October to March)	1	57,256	90.83
05:00 hrs to 11:00 hrs	0	11,213	17.79
11:00 hrs to 17:00 hrs	0	20,435	32.42
17:00 hrs to 23:00 hrs	0	11,214	17.79
23:00 hrs to 05:00 hrs	0	14,394	22.83
HV2 Rural Schedule: Supply at 11 kV	78	13,755	27.47

Consumer Category/ Sub-Category	Consumers	Load (kW)	Projected Sales (MU)
Sub Total	3,398	10,82,626	3,140.10
HV-3: Railway Traction			
HV3 Railway Traction (at, below and above 132 kV)	-	-	-
HV3 Metro Traction (at, below and above 132 kV)	-	-	-
Sub Total	-	-	-
HV-4: Lift Irrigation & P. Canals above 100 BHP (75 kW)			
HV4 Supply at 11kV	41	33,299	93.08
HV4 Supply above 11kV & upto 66kV	5	13,978	16.11
HV4 Supply above 66 kV & upto 132kV	-	-	-
Sub Total	46	47,276	109.19
Extra State Consumer			
Bulk Supply Consumer	1	11,89,958	2,299.76
Grand Total	63,54,526	1,46,14,080	22,717.91

4.1.5. The Hon'ble Commission is requested to approve the billing determinants as submitted in the above table.

4.1.6. Also, as per the directives of the Hon'ble Commission in the Tariff order dated 20.07.2022, the billing determinants of the Distribution Franchisee area (Torrent, Agra) is given below:

TABLE 4-2: BILLING DETERMINANTS OF DISTRIBUTION FRANCHISEE OF AGRA FOR FY 2022-23

CONSUMER CATEGORY / SUB-CATEGORY/Slab		FY 2022-23 (Upto Aug-22)		
		No. of Consumers	Load (kW)	Energy Sales (MU)
LMV-1	DOMESTIC LIGHT, FAN & POWER:	4,13,232	7,74,320	670
(a)	Consumers getting supply as per 'Rural Schedule'	-	-	-
(i)	Lifeline Consumers: With contracted load of 1.00 kW, Energy consumption upto 100 kWh/ month	-	-	-
(ii)	Un-Metered:	-	-	-
(iii)	Metered: (Dom: Rural Schedule (metered) other than BPL)	-	-	-
	Upto 100 kWh / Month	-	-	-
	101-150 kWh / Month	-	-	-

CONSUMER CATEGORY / SUB-CATEGORY/Slab		FY 2022-23 (Upto Aug-22)		
		No. of Consumers	Load (kW)	Energy Sales (MU)
	151-300 kWh / Month	-	-	-
	301-500 kWh / Month	-	-	-
	Above 500 kWh / Month	-	-	-
(b)	Supply at single point for bulk loads (50 kW and above, Supplied at any voltage):	47	23,560	33
(c)	Other Metered Domestic Consumers:	4,13,185	7,50,760	637
(i)	Other Metered Domestic Consumers other than BPL	3,52,288	6,89,888	623
	Upto150 kWh / month	82,761	1,25,318	40
	151-300 kWh / month	1,28,600	1,85,003	133
	301- 500 kWh / month	77,360	1,53,026	138
	Above 500 kWh / month	63,567	2,26,542	312
(ii)	Lifeline Consumers: With contracted load of 1.00 kW, Energy consumption upto 100 kWh/ month	60,897	60,872	15
LMV-2	NON-DOMESTIC LIGHT, FAN & POWER:	62,028	1,68,893	119
(a)	Consumers getting supply as per "Rural Schedule"	-	-	-
(i)	Un-Metered	-	-	-
(ii)	Metered	-	-	-
(b)	Private Advertising / Sign Posts / Sign Boards / Glow Signs / Flex	1	2	0
	Metered			
(c)	Other Metered Consumers: (For All Loads)	62,027	1,68,891	119
	Upto 2 kW	46,767	58,872	31
	Upto 300 kWh / month	41,841	50,773	18
	301 – 1000 kWh / month	4,732	7,768	11
	Above 1000 kWh/Month	194	331	1
	Above 2 kW to 4 kW	8,179	27,102	17
	Upto 300 kWh / month	3,794	12,134	3
	301 – 1000 kWh / month	3,888	13,172	10
	Above 1000 kWh/Month	497	1,795	4
	Above 4 kW	7,081	82,918	71
	Upto 300 kWh / month	1,091	6,735	1
	From 301-1000 kWh / month	2,371	15,459	7
	Above 1001 kWh / month	3,619	60,724	63
LMV-3	PUBLIC LAMPS:	84	7,061	12
(i)	Un-Metered Supply:	23	6,088	11
	Gram Panchayat.			
	Nagar Palika and Nagar Panchayat			
	Nagar Nigam	23	6,088	11
(ii)	Metered Supply:	61	973	1
	Gram Panchayat	-	-	-
	18:00Hrs -06:00 Hrs	-	-	-
	06:00Hrs -18:00 Hrs	-	-	-
	Nagar Palika and Nagar Panchayat	-	-	-
	18:00Hrs -06:00 Hrs	-	-	-
	06:00Hrs -18:00 Hrs	-	-	-
	Nagar Nigam	61	973	1
	18:00Hrs -06:00 Hrs	-	-	1
	06:00Hrs -18:00 Hrs	-	-	0

CONSUMER CATEGORY / SUB-CATEGORY/Slab		FY 2022-23 (Upto Aug-22)		
		No. of Consumers	Load (kW)	Energy Sales (MU)
LMV-4	LIGHT, FAN & POWER FOR PUBLIC & PRIVATE INSTITUTION:	1,998	15,636	15
4 (a)	For Public Institutions:	519	6,174	7
	From 0-1000 kWh/ month	324	1,078	0
	From 1001-2000 kWh/ month	74	613	1
	Above 2000 kWh / month (From 2001st unit onwards)	121	4,483	6
4 (b)	For Private Institutions:	1,479	9,462	8
	Upto 3 kW: Upto 0-1000 kWh/Month	809	1,409	1
	Upto 3 kW: Above 1000 kWh/Month	17	37	0
	Above 3 kW: Upto 0-1000 kWh/Month	291	1,745	1
	Above 3 kW: Above 1000 kWh/Month	362	6,270	7
LMV-5	SMALL POWER FOR PRIVATE TUBE WELL/ PUMPING SETS FOR IRRIGATION PURPOSES:	443	3,363	2
(a)	Consumers getting supply as per "Rural Schedule"	-	-	-
(i)	Un-Metered Supply	-	-	-
(ii)	Metered Supply	-	-	-
(iii)	Energy Efficient Pumps	-	-	-
(b)	Consumers getting supply as per "Urban Schedule (Metered Supply)"	443	3,363	2
LMV-6	SMALL AND MEDIUM POWER:	9,703	90,353	57
(a)	Consumers getting supply other than "Rural Schedule"	9,703	90,353	57
	Upto 1000 kWh/ month	6,856	39,807	12
	05:00 hrs - 11:00 hrs	-	-	3
	11:00 hrs - 17:00 hrs	-	-	4
	17:00 hrs - 23:00 hrs	-	-	3
	23:00 hrs - 05:00 hrs	-	-	2
	Upto 2000 kWh/ month	1,493	16,798	10
	05:00 hrs - 11:00 hrs	-	-	2
	11:00 hrs - 17:00 hrs	-	-	3
	17:00 hrs - 23:00 hrs	-	-	3
	23:00 hrs - 05:00 hrs	-	-	2
	Above 2000 kWh / month	1,354	33,748	34
	05:00 hrs - 11:00 hrs	-	-	8
	11:00 hrs - 17:00 hrs	-	-	11
	17:00 hrs - 23:00 hrs	-	-	8
	23:00 hrs - 05:00 hrs	-	-	8
(b)	Consumers getting supply as per "Rural Schedule"	-	-	-
	Upto 1000 kWh/ month	-	-	-
	Upto 2000 kWh/ month	-	-	-
	Above 2000 kWh / month	-	-	-
LMV-7	PUBLIC WATER WORKS:	156	11,193	10
(a)	Consumers getting supply other than "Rural Schedule"	156	11,193	10
(b)	Consumers getting supply as per "Rural Schedule"	-	-	-
LMV-8	STW, PANCHAYTI RAJ TUBE WELL & PUMPED CANALS:	18	200	0
(i)	Metered	18	200	0
(ii)	Un-Metered	-	-	-
LMV-9	TEMPORARY SUPPLY:	1,265	3,544	3
(a)	Un-Metered	-	-	-

CONSUMER CATEGORY / SUB-CATEGORY/Slab		FY 2022-23 (Upto Aug-22)		
		No. of Consumers	Load (kW)	Energy Sales (MU)
	Illumination / Public Address / ceremonies for loads upto 20 kW / connection plus Rs.100.00 / kW / day for each additional kW	-	-	-
	Temporary shops set-up during festivals / melas or otherwise and having load up to 2 kW	-	-	-
	PTW consumers of Bundelkhand Area having requirement of electricity only for the Rabi Crop i.e. period between November to February in any year.	-	-	-
(b)	Metered	1,265	3,544	3
	(i) Individual Residential Consumers	1,028	1,470	1
	(ii) Others	237	2,075	2
LMV-10	DEPARTMENTAL EMPLOYEES AND PENSIONERS:	2,269	4,896	3
LMV-11	ELECTRIC VEHICLE CHARGING:	5	4,530	1
	Multi Storey Buildings (covered under LMV-1b & HV-1b of the Rate Schedule)	-	-	-
	Multi Story Buildings (Covered under LMV-1b)	-	-	-
	Multi Story Buildings (Covered under HV-1b)	-	-	-
	Public Charging Stations	5	4,530	1
	Public Charging Station (LT)	4	30	0
	Summer Months (April to September)	4	30	0
	05:00 hrs-11:00 hrs	-	-	0
	11:00 hrs-17:00 hrs	-	-	0
	17:00 hrs-23:00 hrs	-	-	0
	23:00 hrs-05:00 hrs	-	-	0
	Winter Months (October to March)	-	-	-
	05:00 hrs-11:00 hrs	-	-	-
	11:00 hrs-17:00 hrs	-	-	-
	17:00 hrs-23:00 hrs	-	-	-
	23:00 hrs-05:00 hrs	-	-	-
	Public Charging Station (HT)	1	4,500	1
	Summer Months (April to September)	1	4,500	1
	05:00 hrs-11:00 hrs	-	-	0
	11:00 hrs-17:00 hrs	-	-	0
	17:00 hrs-23:00 hrs	-	-	0
	23:00 hrs-05:00 hrs	-	-	0
	Winter Months (October to March)	-	-	-
	05:00 hrs-11:00 hrs	-	-	-
	11:00 hrs-17:00 hrs	-	-	-
	17:00 hrs-23:00 hrs	-	-	-
	23:00 hrs-05:00 hrs	-	-	-
HV-1	NON-INDUSTRIAL BULK LOAD:	229	55,116	73
(a)	Commercial Loads / Private Institutions / Non-Domestic Bulk Power consumer with contracted Load 75 kW & above and getting supply at single point on 11 kV & above:	202	42,614	57
	For Supply at 11 kV (ST-H11)	196	35,988	46
	0-2500 kWh / month	7	863	0
	Above 2500 kWh / month	189	35,125	46

CONSUMER CATEGORY / SUB-CATEGORY/Slab		FY 2022-23 (Upto Aug-22)		
		No. of Consumers	Load (kW)	Energy Sales (MU)
	For Supply above 11 kV (ST-H12)	6	6,626	11
	0-2500 kWh / month	-	-	-
	Above 2500 kWh / month	6	6,626	11
(b)	Public Institutions, Registered Societies, Residential Colonies / Townships, Residential Multi-Storied Buildings including Residential Multi-Storied Buildings with contracted load 75 kW & above and getting supply at Single Point on 11 kV & above voltage levels:	27	12,502	16
	For Supply at 11 kV (ST-H13)	25	9,941	13
	0-2500 kWh / month	-	-	-
	Above 2500 kWh / month	25	9,941	13
	For Supply above 11 kV (ST-H14)	2	2,561	3
	0-2500 kWh / month	-	-	-
	Above 2500 kWh / month	2	2,561	3
HV-2	LARGE AND HEAVY POWER:	273	67,278	89
(A)	Urban Schedule:	273	67,278	89
	Supply up to 11 kV	270	60,348	72
	05:00 hrs - 11:00 hrs	-	-	17
	11:00 hrs - 17:00 hrs	-	-	24
	17:00 hrs - 23:00 hrs	-	-	15
	23:00 hrs - 05:00 hrs	-	-	16
	Supply above 11 kV and up to 66 kV	3	6,930	17
	05:00 hrs - 11:00 hrs	-	-	4
	11:00 hrs - 17:00 hrs	-	-	5
	17:00 hrs - 23:00 hrs	-	-	4
	23:00 hrs - 05:00 hrs	-	-	4
	Supply above 66 kV and up to 132 kV	-	-	-
	05:00 hrs - 11:00 hrs	-	-	-
	11:00 hrs - 17:00 hrs	-	-	-
	17:00 hrs - 23:00 hrs	-	-	-
	23:00 hrs - 05:00 hrs	-	-	-
	Supply above 132 kV	-	-	-
	05:00 hrs - 11:00 hrs	-	-	-
	11:00 hrs - 17:00 hrs	-	-	-
	17:00 hrs - 23:00 hrs	-	-	-
	23:00 hrs - 05:00 hrs	-	-	-
(B)	Rural Schedule	-	-	-
	Supply up to 11 kV	-	-	-
HV-3	RAILWAY TRACTION & METRO RAIL:	-	-	-
(A)	Railway Traction:	-	-	-
	For Supply at and above 132 kV	-	-	-
	For Supply below 132 kV	-	-	-
(B)	METRO RAIL	-	-	-
HV-4	LIFT IRRIGATION WORKS:	-	-	-
	For Supply at 11 kV	-	-	-
	For Supply above 11 kV upto 66 kV	-	-	-
	For Supply above 66 kV upto 132 kV	-	-	-
	Extra State Consumer	-	-	-
	Grand Total	4,91,703	12,06,383	1,055

4.2. Distribution Loss

- 4.2.1. The Petitioner has discussed the approach for the Distribution loss trajectory in detail in True-up section for FY 2021-22 above. Accordingly, the Petitioner projects the following distribution loss for FY 2023-24.

TABLE 4-3 DISTRIBUTION LOSS (%) FOR FY 2023-24

Distribution Loss (%)	FY 2023-24	
	Approved in Business Plan Order	Projected
DVVNL	10.52%	17.10%

4.3. Energy Balance

- 4.3.1. The Energy Balance for FY 2023-24 is shown in the Table below:

TABLE 4-4 ENERGY BALANCE FOR FY 2023-24

Particulars	Projected
Retail Sales	22,717.91
Distribution Losses	17.10%
Energy at Discom Periphery for Retail Sales	27403.99
Intra-State Transmission Losses	3.22%
Energy Available at State periphery for Transmission	28315.76
Energy Purchase from Stations connected to Intra-State Transmission network (UPPTCL)	19217.51
Energy Purchase from Stations connected to Inter-State Transmission network (PGCIL)	9098.25
Inter-State Transmission Loss	3.70%
Net Energy Received from Stations connected to Inter-State Transmission network at UPPTCL Periphery (Ex-Bus)	9448.02
Power Purchase Required & Billed Energy (MU) (Ex-Bus)	28665.53

4.4. Power Purchase Expense

- 4.4.1. UPPCL is procuring power on behalf of Discoms at consolidated level. Accordingly, the Power Purchase section represents the consolidated power purchase at UPPCL level. The consolidated energy balance (detailed Energy Balance with further break-up of inter-State energy has been submitted in Format F13L of MYT Formats) for FY 2023-24 is as follows: -

TABLE 4-5 CONSOLIDATED ENERGY REQUIREMENT FOR FY 2023-24

Particulars	Consolidated
Retail Sales	114673.95
Distribution Losses	14.90%
Energy at Discom Periphery for Retail Sales	134751.48
Intra-State Transmission Losses	3.22%
Energy Available at State periphery for Transmission	139234.84
Energy Purchase from Stations connected to Intra-State Transmission network (UPPTCL)	94,496.72
Energy Purchase from Stations connected to Inter-State Transmission network (PGCIL)	44,738.12
Inter-State Transmission Loss	3.70%
Net Energy Received from Stations connected to Inter-State Transmission network at UPPTCL Periphery (Ex-Bus)	46,458.00
Power Purchase Required & Billed Energy (MU) (Ex-Bus)	1,40,954.72

4.4.2. This power purchase requirement is primarily fulfilled through multiple sources, with whom UPPCL and Discoms have long-term tied-up allocated capacities. The main sources of power procurement are broadly categorised as under:

- a) State Generating Stations – UPRUVNL and UJVNL
- b) Central Generating Stations – NTPC, NHPC, NPCIL, THDC, SJVNL
- c) Independent Power Plants (IPPs) and Joint Ventures (JVs)
- d) Renewable Energy Generating Stations – Solar, Wind, Biomass, Bagasse, MSW, etc.

4.4.3. In addition to the above sources, UPPCL is also required to purchase power from short-term sources including power trading companies, Power Exchanges in case of shortfall from regular sources or to meet the deviation from estimated demand depending on the availability.

4.4.4. It is submitted that there are technical, regulatory and operational issues related to MOD preparation based on Merit Order Despatch and Optimization of Power Purchase Regulations, 2021. It has been further communicated that licensee cannot address these issues as these are in the domain of SLDC :-

- i. Actual allowable Power Purchase Cost is to be computed as per clause 16.2 Multi Year Tariff for Distribution and Transmission (First Amendment) Regulations, 2020 reproduced as under: -

(Power Purchase Cost) actual allowable for a particular month will be total of actual variable costs of all the applicable variable cost of power purchase sources by applying MOD upto the (Power Purchase Quantum) actual allowable for that particular month.

- ii. Hon'ble Commission in its computation has interpreted that computation of per unit variable cost shall be carried out plant wise from lowest to highest variable cost and thereafter the cut-off is to be applied as per actual allowable quantum for the month for these plants. SLDC implements the MOD for each 15 minutes of 96 time blocks, each day on a real time basis, taking into **account the following provisions of Merit Order Dispatch and Optimization of Power Purchase Regulations, 2021 related to various technical, regulatory and operational limits of generation and transmission system:**
- (I) 2. (19) "Merit Order Dispatch (MOD)" means dispatch of generating stations to supply electricity in accordance with the merit order based on variable charges taking into account any technical, regulatory and operational limits of generation and transmission facilities.
- (II) 11. (1) The technical minimum for operation in respect of a coal fired/gas fired/ multi fuel based thermal generating unit connected to the STU shall be 55% of its installed capacity or as mentioned in the ISGS."

The scheduled power of SLDC is based on the lower variable cost taking into account technical, regulatory and operational limits of generation and transmission facilities, which shall have been considered for implementing Actual MOD as per MOD Regulations.

- iii. As per the regulatory framework, the above provisions of the Regulation for all the plants are essential to be considered, which cannot be considered when the MOD is re-applied monthly. As per the above provisions of the UPERC Merit Order Dispatch and Optimization of Power Purchase Regulations, 2021, it is the responsibility of SLDC to prepare MOD stack and schedule power considering all technical, regulatory and operational constraints, therefore, any clarification pertaining to MOD stack, schedule of power may be dealt with by SLDC only as per Regulatory provisions, MOD cannot be applied without complying above provisions of the Regulations. The relevant portion of the Regulation is reproduced below:-

5. (2) The Distribution Licensee shall verify and submit the details of variable charges of all the Generating Stations/units from which they are procuring power for preparing MOD stack based on Variable Charges of (n-1)th month. In case the Variable Charges for (n-2)th month needs to be considered and submitted to SLDC for preparation of the MOD stack by 7th day and 22nd day of every month with intimation to the seller with whom it has the PPA.

5. (3) SLDC shall prepare the MOD stack by the 12th day of every month for the data it has received by 7th day of the month, which would be effective from the 16th day of the month till the last day of the month unless revised by SLDC. SLDC shall upload the fortnightly MOD stack on its website in the format given at Annexure-1 by 15:00 hours on 12th of every month.

5. (4) Similarly, SLDC shall prepare the MOD stack by the 27th day of every month for the data it has received by 22nd day of every month, which would be effective from the 1st day of every subsequent month till the 15th day of that month unless revised by SLDC. SLDC shall upload the

fortnightly MOD stack on its website in the format given in Annexure-1 by 15:00 hours on the 27th of every month.

As per the above provisions, SLDC is required to prepare the Stack twice in a month; thus, two separate MODs stacks are implemented in a particular month. For each MOD the generating plant qualifying under merit can be different.

Considering the facts mentioned above, the results of MOD implemented on the power purchase data being submitted with the Petition are not reflecting the true picture and should not be considered for fuel surcharge computation.

- 4.4.5. It is submitted that the power procurement from different sources is undertaken by adopting Merit Order Despatch (MoD) principle for optimal utilization of the available sources at least variable cost. For projection of availability, the entire power available from all the tied-up sources during the financial year to meet the demand have been considered. Thereafter, the MoD principle has been applied on the generating stations not having must-run status, on monthly basis to arrive at the projected power purchase for the month and accordingly the power purchase cost for the entire FY 2023-24 is computed. While full fixed (capacity) charges have been considered for all the generating stations, in respect of generating stations covered under MoD principles, the variable charges corresponding to the cheaper sources have been considered, whereas no variable charges have been considered in respect of energy not scheduled for power purchase.
- 4.4.6. Here, it is important to note that considering the capacity available and the demand projection on month-to-month basis, there is no power procurement scheduled from short-term sources, i.e. Traders or power exchange during FY 2023-24. This is due to the reason that the MoD principle has been applied on month on month basis. However, as the actual power is scheduled on 15-minute slot basis, there are bound to be deviation from the MoD, due to actual availability of long-term sources for these slots. Therefore, the actual power procurement from various sources is bound to vary accordingly. Further, as already discussed, there shall also be requirement to purchase power from short-term sources including power trading companies, Power Exchanges in case of shortfall from regular sources or to meet the deviation from estimated demand depending on the availability. Accordingly, the Hon'ble Commission is requested to consider actual power purchase at the time of Truing-up and/or computation of Fuel Surcharge Rate.

- 4.4.7. It is further submitted that the exchange or short-term power is being procured when the actual power procurement from various sources is vary, as the actual power is scheduled on 15-minute slot basis. Further, there shall also be requirement to purchase power from short-term sources including power trading companies, Power Exchanges in case of shortfall from regular sources or to meet the deviation from estimated demand depending on the availability.
- 4.4.8. In this regard to the short-term power purchase, it is respectfully submitted that demand is forecasted on hourly basis considering hourly historical data for each day. Considering utility in planning and procurement, Monthly Demand Characteristic Curve with hourly resolution, representing Average Demand for the respective hour for the entire month, is forecasted. In addition to the above, hourly peak demand for the respective month is also forecasted.
- 4.4.9. Considering that, there is a significant variation in hourly Average and Peak Demand for a month, balance is to be maintained for minimizing over procurement. To optimize and avoid over procurement based on peak demand for the entire month. Accordingly, Demand is considered by adding one Standard Deviation to Average Demand which is the required Average+1 Sigma demand, thereby increasing the procurement volume to cover around 70% of the days whose demand varies from Average Demand, thereby being able to meet demand for around 90% of the days of the month, leaving the marginal differential volume for procurement though Spot/Collective Markets.
- 4.4.10. Considering the present and upcoming plants availability and based on historic data, 78% of total Availability is considered as base supply. Generation from hydro plants have been considered as per their historic schedules. The following upcoming plants are considered as per the expected COD.

TABLE 4-6 COD OF UPCOMING PLANTS FOR FY 2023-24

COD of Upcoming Plants				
S.No	Plant		Capacity (MW)	Expected COD
1	Ghatampur	Unit-1	561	Apr-23
2	Ghatampur	Unit-2	561	Aug-23
3	Ghatampur	Unit-3	561	Dec-23
4	Obra-C	Unit-1	660	Mar-23

5	Obra-C	Unit-2	660	Nov-23
6	Jawaharpur	Unit-1	660	Apr-23
7	Jawaharpur	Unit-2	660	Nov-23
8	Panki	Unit-1	660	Jan-24
9	Khurja STPP	Unit-1	396	Feb-24
10	Subansiri Lower		182	Aug-23
11	Parbati-II		156	Apr-23

4.4.11. The expected availability for summer months Apr-23 to Oct-23 of FY 2023-24 as below:

TABLE 4-7 POWER AVAILABILITY FOR FY 2023-24 (MW)

Power Availability for FY-2023-24							
Time	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
00:00-01:00	19096	21544	21706	22486	23138	21994	19147
01:00-02:00	18953	21309	21565	22406	22974	21729	18884
02:00-03:00	18783	21001	21285	22175	22722	21476	18769
03:00-04:00	18752	20924	21149	22114	22655	21378	18746
04:00-05:00	18794	20974	21110	22086	22615	21345	18786
05:00-06:00	18932	20903	20996	21955	22462	21177	18838
06:00-07:00	19353	21215	21237	22160	22726	21312	19080
07:00-08:00	19510	21555	21700	22540	23064	21749	19473
08:00-09:00	19934	21912	22052	22788	23331	22278	19834
09:00-10:00	20345	22402	22554	23256	23764	22791	20231
10:00-11:00	20554	22619	22861	23471	23953	22820	20329
11:00-12:00	20632	22717	22875	23516	24026	22864	20291
12:00-13:00	20647	22637	22850	23465	23976	22758	20224
13:00-14:00	20604	22534	22758	23356	23838	22608	20005
14:00-15:00	20530	22255	22518	23181	23623	22447	19743
15:00-16:00	20181	21821	22180	22854	23289	22164	19457
16:00-17:00	19665	21282	21766	22478	22867	21832	19116
17:00-18:00	19281	20935	21430	22142	22564	21605	19067
18:00-19:00	19469	21077	21303	21998	22570	21918	19814
19:00-20:00	20507	22051	21919	22409	23197	22646	20164
20:00-21:00	20299	22243	22159	22608	23364	22463	20023
21:00-22:00	19731	21769	21774	22444	23154	22204	19706
22:00-23:00	20089	22118	21918	22496	23241	22339	19308

Power Availability for FY-2023-24							
Time	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
23:00-24:00	19447	21668	21741	22405	23084	22064	19127

4.4.12. The expected Average+1 Sigma demand for the summer months of FY 2023-24 as below:

TABLE 4-8 AVERAGE+1 SIGMA DEMAND FOR FY 2023-24 (MW)

Average+1 Sigma RDM for FY-2023-24							
Time	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
00:00-01:00	21153	25156	26372	26415	25284	22905	19830
01:00-02:00	20764	24723	26106	25953	24661	22212	19088
02:00-03:00	20499	24137	25713	25366	24030	21569	18551
03:00-04:00	20367	23619	25369	24944	23405	20964	18077
04:00-05:00	19980	23303	25259	24579	22885	20556	17754
05:00-06:00	20084	23133	23420	23197	22167	19603	18021
06:00-07:00	18906	20703	21990	21320	20239	17227	16679
07:00-08:00	18197	19003	21870	20873	19561	16435	15616
08:00-09:00	18613	19295	22327	21464	20131	16971	15716
09:00-10:00	19670	20886	23193	22330	21561	18933	17276
10:00-11:00	19955	21855	23761	22878	22442	20000	18332
11:00-12:00	19868	22610	24492	22924	22705	20274	18818
12:00-13:00	19688	23277	25547	23442	23313	20784	19498
13:00-14:00	19101	23495	25498	23821	23520	20212	18940
14:00-15:00	19221	23543	24964	23766	23093	19626	18328
15:00-16:00	19148	22986	24343	23316	22421	18949	17673
16:00-17:00	18964	21613	23520	22306	21227	18042	16908
17:00-18:00	19244	20670	22767	21536	20682	18368	17755
18:00-19:00	19500	20897	22006	20944	20790	20097	19571
19:00-20:00	22079	25081	25245	24457	24634	23678	21084
20:00-21:00	22287	25709	26787	26013	25658	24096	20945
21:00-22:00	22111	25635	26740	26410	25937	24163	20887
22:00-23:00	22258	25575	26625	26510	26074	24050	20542
23:00-24:00	21637	25246	26398	26481	25789	23581	19964

4.4.13. Considering the expected demand and availability, the hourly surplus and deficits are as below:

TABLE 4-9 DEMAND SUPPLY GAP FOR FY 2023-24

Demand Supply Gap for FY-2023-24							
Time	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
00:00-01:00	-2057	-3612	-4666	-3930	-2146	-912	-683
01:00-02:00	-1811	-3414	-4542	-3547	-1687	-483	-204
02:00-03:00	-1716	-3137	-4428	-3191	-1308	-93	218
03:00-04:00	-1615	-2695	-4221	-2830	-750	414	670
04:00-05:00	-1186	-2329	-4149	-2493	-270	789	1032
05:00-06:00	-1152	-2230	-2424	-1242	294	1574	817
06:00-07:00	447	511	-753	841	2487	4084	2401
07:00-08:00	1313	2552	-170	1666	3504	5314	3857
08:00-09:00	1321	2617	-275	1323	3200	5306	4118
09:00-10:00	675	1516	-640	927	2203	3858	2955
10:00-11:00	599	765	-900	593	1511	2820	1998
11:00-12:00	764	107	-1617	592	1320	2589	1473
12:00-13:00	959	-641	-2697	23	664	1974	726
13:00-14:00	1502	-962	-2740	-465	318	2396	1065
14:00-15:00	1309	-1288	-2446	-585	530	2821	1415
15:00-16:00	1033	-1165	-2163	-462	869	3215	1784
16:00-17:00	701	-331	-1753	172	1640	3790	2208
17:00-18:00	38	265	-1337	606	1882	3237	1313
18:00-19:00	-30	180	-703	1054	1780	1821	242
19:00-20:00	-1572	-3030	-3327	-2048	-1437	-1032	-920
20:00-21:00	-1988	-3466	-4628	-3405	-2295	-1633	-922
21:00-22:00	-2380	-3865	-4967	-3966	-2783	-1959	-1181
22:00-23:00	-2169	-3457	-4707	-4013	-2834	-1711	-1234
23:00-24:00	-2189	-3577	-4657	-4077	-2704	-1517	-838

Disclaimer:

Note:

1) The gap between demand and availability is calculated based on the scheduled rostering till Sep-22 (summer months) in day time (Off-Peak hours) keeping in consideration that the same rostering pattern shall be continued further.

2) The Forecasted Demand is calculated based on the previous demand pattern and current coal scenario and may vary based on prevailing demand supply position and availability of coal.

4.4.14. The Petitioner requests the Hon'ble Commission may kindly allow the short-term power purchases to fulfil contingency requirement of the Licensee via bilateral, power exchange, traders, etc.

4.4.15. The assumptions considered for projection of power purchase quantum and cost is as follows:

TABLE 4-10 ASSUMPTIONS CONSIDERED FOR FY 2023-24

Sl No.	Generating Company/ Type of Generator	Power Purchase Quantum	Fixed & Variable Charges
Thermal			
1.	UPRVUNL	Month wise power purchase quantum for FY 2023-24 is projected based on the monthly average availability of generating stations from April 2017 to March 2022. For upcoming thermal generating stations of UPRVUNL, 85% PLF is considered.	For UPRVUNL & NTPC, the fixed charges have been computed based on the fixed charges actually incurred by the respective plants in True up of FY 2021-22 with escalation factor of 5% per year. For UPRVUNL & NTPC, energy charges have been computed based on actual average energy charge for FY 2021-22 with escalation factor of 5%. For Case-I projects, fixed charges have been projected based on actual charges of FY 2020-21 & energy charges have been projected based on average energy charges for FY 2020-21 used in MOD. For upcoming generating stations, fixed charges have been computed based on the assumption of 85% availability for the period post Commissioning for thermal generating stations and 50% availability for the period post Commissioning for Hydro generating stations.
2.	NTPC		
3.	IPP/ JV (Thermal)		
HYDRO			
4.	UPJVNL	Month wise power purchase quantum for FY 2023-24 is projected based on the monthly average availability of generating stations from	The fixed charges have been computed based on the actual charges incurred in true up for FY 2021-22 with escalation factor of 5% per year. The energy charges
5.	NHPC		
6.	SJVN		
7.	THDC		

SI No.	Generating Company/ Type of Generator	Power Purchase Quantum	Fixed & Variable Charges
8.	IPP/JV (Hydro)	April 2017 to March 2022. Further, for upcoming Hydro generating stations, 50% PLF of have been considered for projection of net power purchase quantum for FY 2023-24.	have been computed based on actual average variable charge for the FY 2021-22 with escalation factor of 2%. For upcoming generating stations, fixed charges have been computed based on the assumption of 85% availability for the period post Commissioning for thermal generating stations and 50% availability for the period post Commissioning for Hydro generating stations. .
Nuclear			
9.	NPCIL	The net power purchase quantum for FY 2023-24 is projected in line with generation of FY 2020-21.	Variable charges have been escalated by 2% per year.
Renewable Energy			
10.	Solar	The net power purchase quantum for FY 2023-24 is estimated based on 19% CUF for Solar.	The energy charges have been computed based on the weighted average energy charge rate of solar generating stations.
11.	Wind	The net power purchase quantum for FY 2023-24 is estimated based on 25% CUF.	The energy charges have been computed based on the weighted average energy charge rate of wind generating stations.
12.	MSW	The net power purchase quantum for FY 2023-24 is estimated based on 75% CUF in line with UPERC (Captive and Renewable Energy Generating Plants) Regulations, 2019).	The energy charges have been considered in line with UPERC (Captive and Renewable Energy Generating Plants) Regulations, 2019).
13.	Biomass	The net power purchase quantum for FY 2023-24 is estimated based on 50% CUF.	The energy charges have been computed based on the weighted average energy charge rate of Biomass generating stations.
14.	Bagasse	The net power purchase quantum for FY 2023-24 is	The energy charges have been computed based on the weighted

SI No.	Generating Company/ Type of Generator	Power Purchase Quantum	Fixed & Variable Charges
		estimated based on 50% CUF.	average energy charge rate of Bagasse generating stations.

4.4.17. The details of power purchase cost from generating stations for FY 2023-24 based on above assumptions is shown in the table below:

TABLE 4-11 GENERATING STATION-WISE POWER PURCHASE COST & PER UNIT TOTAL COST FOR FY 2023-24

SN	Source of Power (Station wise)	FY 2023-24						
		Units despatched after MOD (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Total Cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
A	Long term Sources							
a	Power procured from own Generating Stations (if any)							
b	From State Generating Stations Thermal							
1	ANPARA-A	3,550.43	0.73	260.80	2.23	793.05	2.97	1,053.85
2	ANPARA-B	6,719.49	0.46	311.15	2.22	1,493.80	2.69	1,804.95
3	PANKI	-	-	-	-	-	-	-
4	PARICHHA	-	-	-	-	-	-	-
5	PARICHHA EXT.	1,192.92	2.83	337.21	4.06	484.15	6.89	821.36
6	OBRA-A	-	-	-	-	-	-	-
7	OBRA-B	3,742.73	0.87	325.07	2.92	1,094.56	3.79	1,419.62
8	HARDUAGANJ	-	-	-	-	-	-	-
9	HARDUAGANJ EXT.	856.66	5.69	487.51	4.44	379.99	10.13	867.50
10	PARICHHA EXT. STAGE-II	989.66	5.09	504.09	4.06	401.65	9.15	905.74
11	ANPARA-D	5,362.27	1.70	909.30	2.02	1,082.92	3.72	1,992.23
12	Panki Extension	1,154.77	2.50	288.69	2.32	267.36	4.82	556.05
13	HARDUAGANJ EXT. Stage II	2,633.92	2.31	607.92	3.81	1,003.52	6.12	1,611.44
14	OBRA-C	4,251.09	3.80	1,614.66	2.27	963.55	6.06	2,578.21
15	Jawaharpur	6,560.64	2.50	1,636.99	2.27	1,487.03	4.76	3,124.02
	Sub-Total	37,014.59	1.97	7,283.40	2.55	9,451.58	4.52	16,734.98

SN	Source of Power (Station wise)	FY 2023-24						
		Units despatched after MOD (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Total Cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
c	From State Generating Stations Hydro							
1	RIHAND	515.55	0.42	21.44	0.75	38.89	1.17	60.32
2	OBRA (H)	266.78	0.34	9.00	0.43	11.46	0.77	20.47
3	MATATILA	65.83	0.34	2.22	0.59	3.89	0.93	6.11
4	KHARA	276.83	0.49	13.44	0.46	12.60	0.94	26.04
5	UGC	26.05	-	-	2.94	7.67	2.94	7.67
6	SHEETLA	2.39	-	-	1.60	0.38	1.60	0.38
7	BELKA	2.63	-	-	2.26	0.59	2.26	0.59
8	BABAIL	3.20	-	-	2.91	0.93	2.91	0.93
	Sub-Total	1,159.26	0.40	46.10	0.66	76.42	1.06	122.52
d	From Central Sector Generating Stations							
a	Thermal (NTPC)							
1	ANTA GPS	-	-	51.69	-	-	-	51.69
2	AURAIYA GPS	114.81	8.90	102.21	4.83	55.50	13.74	157.71
3	DADRI GPS	-	-	103.67	-	-	-	103.67
4	JHANOR GPS	-	-	0.01	-	-	-	0.01
5	KAWAS GPS	-	-	0.01	-	-	-	0.01
6	TANDA -TPS	-	-	336.73	-	-	-	336.73
7	FGUTPS-I	-	-	168.80	-	-	-	168.80
8	FGUTPS-II	-	-	79.95	-	-	-	79.95
9	FGUTPS-III	-	-	57.83	-	-	-	57.83
10	FGUTPS-IV	-	-	233.52	-	-	-	233.52
11	FSTPS	151.95	1.16	17.62	3.23	49.09	4.39	66.71

SN	Source of Power (Station wise)	FY 2023-24						
		Units despatched after MOD (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Total Cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
12	KHTPS-I	-	-	49.98	-	-	-	49.98
13	KHTPS-II	94.16	18.61	175.28	4.59	43.21	23.20	218.49
14	NCTPS-I	391.20	1.51	58.89	3.13	122.60	4.64	181.49
15	NCTPS-II	339.17	3.20	108.56	3.44	116.64	6.64	225.20
16	RIHAND-I	2,196.93	0.82	180.48	2.05	450.51	2.87	630.99
17	RIHAND-II	2,158.59	0.63	136.33	2.05	441.46	2.68	577.79
18	RIHAND-III	2,457.90	1.29	316.13	2.02	497.25	3.31	813.38
19	SINGRAULI	5,027.08	0.62	313.60	1.96	985.98	2.59	1,299.58
20	KORBA-I STPS	20.16	0.53	1.07	1.92	3.88	2.46	4.95
21	KORBA-III STPS	9.67	1.05	1.02	1.89	1.83	2.94	2.85
22	MAUDA-I STPS	12.01	4.34	5.21	3.41	4.09	7.75	9.30
23	MAUDA-II STPS	16.67	5.21	8.69	3.64	6.07	8.85	14.76
24	SOLAPUR TPS	-	-	5.47	-	-	-	5.47
25	SIPAT-I STPS	27.00	1.34	3.63	3.65	9.85	4.99	13.48
26	SIPAT-II STPS	6.39	1.97	1.26	3.93	2.51	5.90	3.77
27	VINDHYANCHAL-I STPS	18.04	0.76	1.36	2.10	3.79	2.86	5.15
28	VINDHYANCHAL-II STPS	13.38	0.54	0.73	2.03	2.72	2.57	3.45
29	VINDHYANCHAL-III STPS	14.58	0.78	1.14	2.02	2.94	2.80	4.08
30	VINDHYANCHAL-IV STPS	17.77	1.29	2.30	1.99	3.54	3.29	5.84
31	VINDHYANCHAL-V STPS	9.25	1.44	1.34	2.05	1.89	3.49	3.23
32	TANDA -II-TPS	1,047.51	7.91	828.58	4.55	476.91	12.46	1,305.49
33	NABINAGAR POWER PROJECT	1,466.80	1.33	194.58	2.49	364.82	3.81	559.41
34	APCPL	62.33	6.48	40.39	3.72	23.17	10.20	63.56
35	GODARWARA STPS-I	-	-	5.58	-	-	-	5.58
36	LARA STPS-I	27.09	1.63	4.42	2.15	5.82	3.78	10.24
37	KHARGONE STPS	-	-	4.71	-	-	-	4.71

SN	Source of Power (Station wise)	FY 2023-24						
		Units despatched after MOD (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Total Cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
	Sub-Total	15,700.44	2.29	3,602.77	2.34	3,676.09	4.64	7,278.86
e	NPCIL							
1	KAPS	5.52	0.19	0.10	2.10	1.16	2.28	1.26
2	NAPP	1,059.07	0.31	32.33	2.83	300.24	3.14	332.57
3	TAPP-3 & 4	20.28	0.13	0.26	3.33	6.74	3.45	7.01
4	RAPP-3 & 4	503.43	-	-	3.45	173.80	3.45	173.80
5	RAPP-5 & 6	666.17	-	-	3.45	229.98	3.45	229.98
	Sub-Total	2,254.48	0.15	32.70	3.16	711.92	3.30	744.62
f	Hydro (NHPC)							
1	SALAL	232.25	0.80	18.49	0.64	14.88	1.44	33.38
2	TANAKPUR	87.05	2.33	20.24	1.70	14.78	4.02	35.03
3	CHAMERA-I	445.93	0.85	37.77	1.19	52.94	2.03	90.70
4	URI	566.73	0.96	54.41	0.86	48.47	1.82	102.88
5	CHAMERA-II	301.72	1.41	42.53	1.05	31.55	2.46	74.07
6	DHAULIGANGA	253.26	1.74	44.01	1.26	32.01	3.00	76.02
7	DULHASTI	502.85	3.11	156.45	2.79	140.16	5.90	296.61
8	SEWA-II	103.28	0.01	0.15	2.75	28.45	2.77	28.61
9	CHAMERA-III	221.07	2.79	61.59	2.05	45.31	4.84	106.90
10	URI-II	321.79	2.54	81.79	2.06	66.29	4.60	148.08
11	PARBATI-III HEP	159.14	4.14	65.82	1.60	25.48	5.74	91.30
12	KISHANGANGA	526.20	2.79	146.68	2.05	107.79	4.84	254.47
13	PARBATI-II	223.79	2.23	49.94	2.34	52.39	4.57	102.33
14	SUBANSIRI LOWER	590.16	2.15	127.04	2.34	138.15	4.49	265.19
15	PAKALDUL	-	-	-	-	-	-	-

SN	Source of Power (Station wise)	FY 2023-24						
		Units despatched after MOD (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Total Cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
	Sub-Total	4,535.21	2.00	906.91	1.76	798.65	3.76	1,705.56
g	HYDRO (NTPC)							
1	KOLDAM HPS	605.78	2.85	172.48	2.64	159.86	5.49	332.34
2	TAPOVAN VISHNUGARH	-	-	-	-	-	-	-
3	LATA TAPOVAN HEP	-	-	-	-	-	-	-
4	SINGRAULI SHPS	9.77	-	-	9.45	9.24	9.45	9.24
	Sub-Total	615.55	2.80	172.48	2.75	169.09	5.55	341.58
h	THDC							
	HYDRO							
1	TEHRI	1,202.97	2.05	246.04	2.16	259.53	4.20	505.57
2	KOTESHWAR	487.38	2.28	111.02	2.41	117.34	4.69	228.36
3	Dhukwan	83.14	-	-	4.50	37.41	4.50	37.41
4	VISHNUGARH PIPAL KOTHI	-	-	-	-	-	-	-
	Thermal							
1	KHURJA STPP	-	-	38.07	-	-	-	38.07
	Sub-Total	1,773.50	4.32	395.13	2.34	414.28	4.56	809.41
i	SJVN							
1	RAMPUR	269.55	3.14	84.74	2.24	60.32	5.38	145.06
2	NATHPA JHAKRI	1,037.10	1.57	162.52	1.19	123.83	2.76	286.36
	Sub-Total	1,306.64	1.89	247.26	1.41	184.15	3.30	431.42
j	NEEPCO							
1	Kameng HEP	237.36	-	-	3.92	92.94	3.92	92.94

SN	Source of Power (Station wise)	FY 2023-24						
		Units despatched after MOD (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Total Cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
k	IPP/JV							
	HYDRO							
1	TALA	131.83	-	-	2.25	29.63	2.25	29.63
2	VISHNU PRAYAG	1,592.51	0.16	24.74	1.02	162.47	1.18	187.21
3	KARCHAM	796.54	2.15	171.61	1.54	122.91	3.70	294.52
4	TEESTA-III	932.08	3.37	313.98	2.77	258.61	6.14	572.59
5	SRI NAGAR HEP	1,251.95	1.81	226.09	5.11	639.31	6.91	865.40
6	Rajghat Hydro	-	-	-	-	-	-	-
7	Hydro (Competitive Bidding)	1,501.44	-	-	2.88	433.03	2.88	433.03
	Thermal							
1	Meja Thermal Power Plant	4,866.70	3.13	1,522.07	3.79	1,844.67	6.92	3,366.74
2	LANCO	6,642.56	0.94	622.77	3.15	2,090.84	4.09	2,713.61
4	BEPL BARKHERA	-	-	122.05	-	-	-	122.05
5	BEPL KHAMBHAKHERA	-	-	123.34	-	-	-	123.34
6	BEPL KUNDRAKHI	-	-	122.79	-	-	-	122.79
7	BEPL MAQSOODAPUR	-	-	121.69	-	-	-	121.69
8	BEPL UTRAULA	-	-	126.29	-	-	-	126.29
9	KSK MAHANADI	2,373.10	5.80	1,375.48	3.94	935.25	9.74	2,310.73
10	LALITPUR	6,088.20	4.57	2,784.60	4.05	2,463.45	8.62	5,248.05
11	M.B.POWER (PTC)	1,347.69	5.16	694.96	3.75	505.37	8.91	1,200.33
12	PRAYAGRAJ POWER	8,674.92	1.64	1,421.40	2.72	2,358.51	4.36	3,779.91
13	R.K.M.POWER	2,338.80	2.60	608.99	2.50	584.96	5.10	1,193.95
14	ROSA-1&2	5,664.77	2.26	1,282.92	3.49	1,978.54	5.76	3,261.46
15	SASAN	3,638.37	0.17	60.54	1.69	616.14	1.86	676.68
16	TRN ENERGY (PTC)	1,992.36	1.54	305.84	2.70	538.53	4.24	844.37

SN	Source of Power (Station wise)	FY 2023-24						
		Units despatched after MOD (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Total Cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
17	Ghatampur	7,884.82	2.59	2,041.32	2.76	2,173.25	5.35	4,214.57
	Sub-Total	57,718.63	2.44	14,073.46	3.07	17,735.47	5.51	31,808.93
	Total	1,22,315.67	2.19	26,760.20	2.72	33,310.59	4.91	60,070.80
B	Medium term Sources							
C	Short term Sources	3,749.83	-	-	6.19	2,321.15	6.19	2,321.15
	Station/Source 1							
D	Cogen/ Captive							
	Baggasse/Cogen/ CPP 1	3,934.14	0.72	283.54	3.43	1,348.02	4.15	1,631.55
	Baggasse/Cogen/ CPP 2	-	-	-	-	-	-	-
	Sub-Total	3,934.14	0.72	283.54	3.43	1,348.02	4.15	1,631.55
E	Bilateral & Others (Power purchased through Trading)							-
1	Solar (Existing)	4,399.23	-	-	4.56	2,007.08	4.56	2,007.08
2	Solar (FY 21)	-	-	-	-	-	-	-
3	Solar (FY 22)	-	-	-	-	-	-	-
4	Solar (FY 23)	348.34	-	-	3.00	104.50	3.00	104.50
5	Solar (FY 24)	253.06	-	-	3.00	75.92	3.00	75.92
	Sub-Total	5,000.62	-	-	4.37	2,187.50	4.37	2,187.50
G	Non-Solar (Renewable)							-
1	WIND (Existing)	3,017.35	-	-	3.01	908.42	3.01	908.42

SN	Source of Power (Station wise)	FY 2023-24						
		Units despatched after MOD (MU)	Annual Fixed Charges		Annual Energy/ Variable Charge		Total Cost	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)
2	WIND (FY 21)	-	-	-	-	-	-	-
3	WIND (FY 22)	-	-	-	-	-	-	-
4	WIND (FY 23)	394.74	-	-	3.01	118.84	3.01	118.84
5	WIND (FY 24)	1,509.55	-	-	3.01	454.47	3.01	454.47
6	Biomass Existing	146.73	-	-	6.51	95.45	6.51	95.45
7	Biomass FY 20	-	-	-	-	-	-	-
8	MSW FY 21	193.82	-	-	7.61	147.49	7.61	147.49
	Sub-Total	5,262.18	-	-	3.28	1,724.68	3.28	1,724.68
	Others							
1	Slop Based Power Project	175.45	1.53	26.89	1.44	25.34	2.98	52.23
H	NVVN + NSM (Thermal)	516.83	-	-	3.33	172.29	3.33	172.29
I	Short Term Sources							
J	REC				-	-	-	-
K	Banking				-	-	-	-
L	PGCIL Charges			3,535.18	-	-	-	3,535.18
M	WUPPTCL Charges			867.19	-	-	-	867.19
N	SEUPPTCL Charges			310.09	-	-	-	310.09
O	Reactive Energy Charges			-	-	-	-	-
P	Case-I Transmission Charges			-	-	-	-	-
Q	STU Charges			-	-	-	-	-
	Any Other Charges			-	-	-	-	-
	Less			-	-	-	-	-
	Late Payment Surcharge							-
	Grand Total	1,40,954.72	2.25	31,783.09	2.92	41,089.57	5.17	72,872.66

Differential Bulk Supply Tariff (DBST)

4.4.18. The Petitioner has worked out the power purchase cost for FY 2023-24 based on the above Differential Bulk Supply Tariff (DBST).

4.4.19. Computation of DBST as per the Commission approved methodology is shown in the below:

TABLE 4-12 COMPUTATION OF DBST FOR FY 2023-24

S.No	Particulars	Formulae	DVVNL	MVVNL	PVVNL	PuVVNL	KESCO	TOTAL
1	Revenue from Tariff including subsidy (Rs Cr)	A	12,905.61	22,880.08	16,168.26	14,586.75	3,266.10	69,806.79
2	Energy Sales (MU)	B	22,717.91	35,672.08	27,767.68	24,333.50	4,182.79	1,14,673.95
3	Power Procurement Cost							
A1	Power Procurement Cost – Allocated and Unallocated PPAs (Rs Cr)							69337.47
A2	Inter State Transmission Charges (Rs Cr)							3535.18
A1+A2	Total Power Procurement Cost excluding intra state Transmission Charges (In Rs Cr)	C						72872.66
4	Power Procurement cost of Allocated PPAs (Rs Cr)	D	2586.46	4961.57	2707.78	2707.78	189.00	13152.59
5	Total Power Required at Discom Periphery (MU)	E	27403.99	41213.08	32884.03	28706.10	4544.28	134751.48
6	Power at Discom Periphery from allocated PPAs (MU)	F	5345.96	10928.91	5413.44	5413.44	418.70	27520.46
7	Other Cost (Intra State Transmission, O&M, Interest, Dep etc.) (Rs. Cr.)	G	0.00	0.00	0.00	0.00	0.00	0.00
8	ABR (Rs/ Unit)	$H=(A/B)*10$	5.68	6.41	5.82	5.99	7.81	6.09
9	Other Cost (Rs/Unit of Sale)	$I=G*10/B$	0.00	0.00	0.00	0.00	0.00	0.00
10	Power Purchase Rate							
A	Allocated PPAs per unit of sale (Rs/unit)	$J=D*10/B$	1.14	1.39	0.98	1.11	0.45	1.15
B	Unallocated PPAs per unit of sale					5.21		

S.No	Particulars	Formulae	DVVNL	MVVNL	PVVNL	PuVVNL	KESCO	TOTAL
		K=(C-Total PP at "D")*10/Total Sale at"B"						
11	Revenue available for unallocated PPAs (Rs./unit of sale)	L=H-I-J	4.54	5.02	4.85	4.88	7.36	4.94
12	Power Purchase Allocation (per unit of sale) "K" in the ratio of available Revenue "L"	M	4.79	5.29	5.11	5.15	7.75	5.21
13	Total Power Purchase cost per unit of sale including allocated PPAs	N=J+M	5.93	6.69	6.09	6.26	8.21	6.35
14	Total Power Purchase Cost (Rs Crs)	O=N*B/10	13,464.04	23,849.75	16,896.68	15,229.58	3,432.61	72,872.66
	DBST (Rs/Unit)							
15	DBST Computation of Allocated PPAs	P	4.84	4.54	5.00	5.00	4.51	4.78
16	DBST Computation of Unallocated PPAs	Q=M*B/(E-F)	4.93	6.24	5.17	5.38	7.86	5.57
17	DBST of total PPAs	R=O*10/E	4.91	5.79	5.14	5.31	7.55	5.41

4.4.20. The allowable power purchase cost for FY 2023-24 is shown in the table below:

TABLE 4-13 POWER PURCHASE COST FOR FY 2023-24

Particulars	Unit	Projected
Allowable Power Purchase	MU	27,404
DBST Rate	Rs/kWh	4.57
Allowable Power Purchase Cost	Rs Crore	12,512.76

4.5. Intra-State Transmission Charges

4.5.1. The proposed Intra State transmission charges have been computed at the Intra-State transmission rate approved by the Hon'ble Commission in the Tariff Order for FY 2022-23 dated 20 July 2022, which is shown in the Table below:

TABLE 4-14 INTRA-STATE TRANSMISSION CHARGES FOR FY 2023-24

Particulars	Unit	Projected
Units Wheeled	MU	27,404
Transmission Rate (Approved in the Tariff Order for FY 2022-23 dated 20.07.2022)	Rs/kWh	0.2465
Transmission Charges	Rs Crore	675.56

4.6. Operation and Maintenance Expenses

4.6.1. The Petitioner has discussed the approach for the Operation and Maintenance expenses in detail in the True-up Section for FY 2021-22 above.

4.6.2. Therefore, the Petitioner requests the Hon'ble Commission to allow the O&M Expenses by considering the computation of O&M expenses based on the proposed methodology as shown in true-up Sections.

WPI and CPI Escalation Rates

4.6.3. Firstly, the Petitioner has calculated the inflation index based on the weighted average index of WPI and CPI. The WPI and CPI index has been considered, as available on the website of Economic Advisor and Ministry of Labour Bureau, Govt. of India, respectively. The summary of WPI & CPI Escalation rate is shown in table below:

TABLE 4-15 INFLATION INDICES

FY	Index		Inflation Rate	
	WPI	CPI	WPI	CPI
FY 2018-19	119.79	299.92	4.28%	5.45%

FY	Index		Inflation Rate	
	WPI	CPI	WPI	CPI
FY 2019-20	121.83	322.50	1.70%	7.53%
FY 2020-21	123.38	338.71	1.27%	5.03%
FY 2021-22	139.41	356.06	13.00%	5.12%
FY 2022-23	153.78	371.38	10.19%	4.50%

Employee Expenses

4.6.4. The Petitioner has projected its Employee Expenses based on the Employee Expenses computed in Section 3. The computation for the same is shown below.

TABLE 4-16 COMPUTATION OF EMPLOYEE EXPENSES FOR FY 2023-24 (IN RS. CR)

Particulars	Claimed in Instant Petition for FY 2022-23	Average CPI Escalation of last 3 years.	Computed (Rs. Cr)
Employee Expenses	903.04	4.88%	947.14

4.6.5. Further, the capitalisation is projected based on same ratio of employee expenses capitalisation and employee expenses for FY 2021-22 (True-up year). Accordingly, Employee Expenses and its capitalisation determined for FY 2023-24 is shown in table below:

TABLE 4-17 EMPLOYEE EXPENSES FOR FY 2023-24 (IN RS. CR)

Sl No.	Particular	Projected
A	Gross Employee Expenses after escalation	947.14
B	Less: Employee Expenses capitalized	336.85
C	Net Employee Expenses	610.29

Repair & Maintenance Expenses (R&M Expenses)

4.6.6. The Petitioner has projected its R&M Expenses based on R&M Expenses claimed in Section 3. The computation for R&M Expenses for FY 2023-24 is shown below.

TABLE 4-18 COMPUTATION OF R&M EXPENSES FOR FY 2023-24 (IN RS. CR)

Particulars	Claimed in Instant Petition for FY 2022-23	Average WPI Escalation of last 3 years.	Computed (Rs. Cr)
R&M Expenses	605.87	8.15%	655.25

4.6.7. Accordingly, Net R&M Expenses determined for FY 2023-24 is shown in table below:

TABLE 4-19 R&M EXPENSES FOR FY 2023-24 (IN RS. CR)

S. No.	Particulars	Projected
1	Gross R&M Expenses after escalation	655.25
2	Less: R&M Expenses capitalized	-
3	Net R&M Expenses	655.25

Administrative & General Expenses (A&G)

4.6.8. The Petitioner has projected its A&G Expenses based on A&G Expenses claimed in Section 3. The computation for A&G Expenses for FY 2023-24 is shown below.

TABLE 4-20 COMPUTED A&G EXPENSES FOR FY 2023-24 (IN RS. CR)

Particulars	Claimed in Instant Petition for FY 2022-23	Average WPI Escalation of last 3 years.	Computed (Rs. Cr)
A&G Expenses	133.70	8.15%	144.60

4.6.9. Accordingly, Net A&G Expenses determined for FY 2023-24 is shown in table below:

TABLE 4-21 NET A&G EXPENSES FOR FY 2023-24 (IN RS. CR)

S.No.	Particulars	Projected
1	Gross A&G Expenses after escalation	144.60
2	Less: A&G expenses capitalized	-
3	Net A&G expenses	144.60

Additional O&M for Smart metering OPEX

4.6.10. Ministry of Power (Government of India) vide their letter dated 08.09.2016 wrote to Forum of Regulators (FOR) about the strategy for roll out of advance metering infrastructure in the States sighting Clause No. 8.4 of the revised National Tariff Policy issued on January 28, 2016 regarding installation and provision of smart meters. Central Electricity Authority (CEA) also reiterated the said clause of revised National Tariff Policy and intimated the Power Secretaries of all the States including State of Uttar Pradesh about technical specification of smart meters. The CEA also asked the States to prepare a detailed plan for installation of smart meters and submit the same to respective State Regulatory Commissions for approval.

- 4.6.11. The Hon'ble Commission vide its letter dated 16.05.2018 directed UPPCL to submit the detailed roll out plan of installation of smart meters for the State Discoms of Uttar Pradesh for the approval of the Hon'ble Commission.
- 4.6.12. In response to the directions of the Hon'ble Commission and letter received from CEA, UPPCL vide its letter dated 06.08.2018 submitted the smart meter roll out plan for the State Discoms under "Opex Model". Under "Opex Model", State Discoms are required to pay monthly fee (arrived at through competitive bidding process conducted by EESL) for each meter reading through Smart Meter to Energy Efficiency Services Limited (EESL), a Government of India company and there is no additional burden of depreciation, interest and return on equity on the consumer towards the cost of Smart Meter. A presentation in this regard was also made at UPERC on 11.09.2018 to address the queries raised by the Hon'ble Commission.
- 4.6.13. The Hon'ble Commission vide Order dated 15.11.2018 approved the Smart Meter rollout plan for State Discoms of Uttar Pradesh. The operative part of the Hon'ble Commission's Order is reproduced as under:

"Since installation of Smart Meters is a national programme and has produced very encouraging financial returns in private Discoms, the Commission approves the proposed roll out plan of UPPCL and Discoms submitted before the Commission....."

- 4.6.14. Following is mentioned in the Hon'ble Commissions Order dtd. 15.11.2018 at Sl. No. 5 of reply of UPPCL.

"DISCOM will pay EESL on OPEX basis as O&M expenditure. The assets will be in the books of EESL till the transfer of assets at the end of project at zero value."

- 4.6.15. Further, the Hon'ble Commission in its Tariff Order FY 2019-20 dtd. 03.09.2019 at Clause No. 6.18.7 has mentioned this expenditure under the head of A&G expenses as below:

"6.18.7 It may kindly be noted that this type of expenses were not envisaged during projection of MYT O&M norms for FY 2017-18 to FY 2019-20. Further, O&M Norms approved by the Hon'ble Commission were based on five year Audited Accounts, which didn't have any O&M expenses towards smart metering. The amount of this additional O&M has been entered as rent in the replies of comments on roll out plan submitted to Hon'ble Commission vide MD, UPPCL letter no. 352/CE(Com-II)/Smart Meter/18 dt. 25.09.2018. Therefore, this expense may be considered under the head of A&G expenses as additional expenses."

- 4.6.16. The amount sought as 'Additional A&G Expenses for smart metering is payable to EESL to cover cost towards smart meter and box installation, AMI software cost, consumer indexing, training,

integration and Commissioning of AMI solution. It may be noted that this cost has been proposed to be recovered under Opex model based on per meter per month basis and there shall be no additional burden of depreciation, interest and return on equity on the consumer.

4.6.17. It is submitted that the Opex to be incurred by the petitioner for implementation of Smart Meter rollout plan is not part of the normative O&M expenses provided to the Licensee under the Multi-Year Tariff Order dated 22.01.2019 and Tariff Regulations 2019 since:

-

(a) The same was not envisaged during projection of MYT O&M norms for FY 2017-18 to FY 2019-20 and for the control period 2021-2025.

(b) The normative O&M norms approved by the Hon'ble Commission are based on previous five-year Audited Accounts, which does not include any O&M expenses towards smart metering.

4.6.18. Moreover, the Hon'ble Commission's observation that the smart-meter roll out project is a self-sustaining model since the Opex cost to be paid by the licensees will be compensated by overall reduction in O&M cost due to improved billing and collection efficiency on account of installation of smart meters is debatable since: -

(a) It is an attempt to compensate the present additional O&M expenses on account of smart meters Opex with future probable reduction in O&M cost. It is most respectfully submitted that a court of law is not permitted to pass orders based on conjecture, surmises or the possibility of happening of any event. A court has to pass orders on facts and data available on record. In the present case Ld. UP Commission in its Order dated 15.11.2018 has itself noted that the UP Discoms would incur substantial Opex cost (to be paid to EESL) towards implementation of Smart Metering Rollout Plans. Hence, there is no reason to now disallow the said cost, which is a Statutory expense and has to be mandatorily incurred by the Appellants.

(b) The approach of compensating the Opex cost with likely savings in billing and collection efficiency was not envisaged in the Tariff Petition. Further in the petition the Hon'ble Commission was requested to approve the OPEX Cost incurred for this scheme. Moreover, the tariff is already being determined based on 100% collection efficiency, despite the actual percentage being substantially lower. Therefore, even if billing and collection efficiency increases by installation of smart meters, the same will not have any impact on the tariff of the Discoms.

(c) Improvement in the collection efficiency with the implementation of Smart Meters may not be in account of Licensees since the Hon'ble Commission already considers 100% collection efficiency.

4.6.19. The following table summarises the cost of Smart Meters under Opex Model for the Petitioner for FY 2023-24:

TABLE 4-22 SMART METERING OPEX FOR FY 2023-24

Particulars	Smart Meters installed till March 2023	Smart Meters to be installed till March 2024	Rate (Rs. /meter/month including GST @18%)	Projected OPEX (IN RS. CR)
FY 2023-24	470972	904000	101.42	85.87

4.6.20. The Hon'ble Commission is requested to approve the smart metering OPEX estimated in the above Table.

4.6.21. Based on the above submission, the summary of the Operation & Maintenance expenses (O&M) projected for FY 2023-24 are shown in the table below:

TABLE 4-23 OPERATION & MAINTENANCE EXPENSES PROJECTED FOR FY 2023-24 (IN RS. CR)

Particulars	Projected
Repair & Maintenance expenses	655.25
Employee expenses	947.14
Administrative and General expenses	144.60
Gross O&M Expenses	1,746.99
Less:	
Employee expenses capitalized	336.85
Administrative and General expenses capitalized	-
Gross expenses Capitalized	336.85
Smart Meter Opex	85.87
Net O&M Expenses	1,496.01

4.7. Capital Investment, Capitalisation and Financing

4.7.1. Implementation of Revamped Distribution Sector Scheme in Uttar Pradesh:

The Central Government has approved the Revamped Distribution Sector Scheme, a Reforms-based and Results-linked Scheme with a five-year budget of Rs. 3,03,758 Crore, to improve the quality, reliability, and affordability of power supply to consumers through a financially sustainable and operationally efficient distribution sector. The key objective of the Scheme is to reduce AT&C Losses to 12-15 percent across India, and the ACS-ARR gap to zero, by increasing operational efficiencies and financial sustainability of all DISCOMs/Power Departments, excluding private sector DISCOMs.

The Scheme is specifically for modernization and loss reduction using proper utilization of funds for works on Pre-Paid Smart Metering, System Metering and Distribution Infrastructure. Many steps have also been taken for automation and use of Information Technology (IT) in the Distribution Sector under IPDS and R-APDRP which includes the establishment of Data Centres, GIS mapping of consumers, Asset Mapping, Online energy auditing & accounting, Consumer care centers, AMI meters on feeders & Distribution Transformers, provision of Smart Metering to reduce losses etc. in urban areas.

The Revamped Reforms-based and Results-linked, Distribution Sector Scheme seeks to improve the operational efficiencies and financial sustainability, by providing financial assistance to DISCOMs for strengthening of supply infrastructure based on meeting pre-qualifying criteria and achieving basic minimum benchmarks in reforms.

The Revamped Distribution Sector Scheme is covered under two parts namely as Part-A covers metering & distribution infrastructure works and Part-B covers training & capacity building and other enabling & supporting activities.

Part A – Metering & Distribution Infrastructure Works:

- Facilitating in installing prepaid smart meters for all consumers along with associated AMI, communicable meters for DTs & Feeders, ICT including Artificial Intelligence (AI), Machine Learning (ML), etc. based solutions for power Sector and a unified billing and collection system;
- Distribution infrastructure works as required for strengthening and modernizing the system as well as measures for loss reduction. The infrastructure strengthening works will include separation of Agriculture feeders to enable implementation of the KUSUM scheme, Aerial Bunch cables and HVDS for loss reduction, replacement of HT/LT lines as required, construction of new/upgradation of substations, SCADA and DMS system etc. Each DISCOM/ State will draw up the scheme according to its requirement with the end objective of reducing losses and ensuring 24 x 7 supply.

Part B - Training & Capacity Building and other Enabling & Supporting Activities:

Supporting and enabling components, such as Nodal Agency Fee, enabling components of MoP (communication plan, publicity, consumer awareness, consumer survey and other associated measures such as third party evaluation etc.), up-gradation of Smart Grid Knowledge Centre, training and capacity building, awards and recognitions etc.

The proposal of UP States based on present scenarios are as following:-

1. ACS-ARR gap with revenue on an accrual basis to be zero at the end of FY 2024 -25.
2. AT&C Loss target to be in line with the trajectory proposed.

3. DPRs to be rationalized keeping in view that the proposed works for loss reduction are targeted in high loss areas in order of priorities.
4. Liquidation of outstanding subsidy to be ensured as per scheme guidelines.
5. Consumer, DTR, and Feeder Smart Metering timelines to be as per scheme guidelines

As per the action plan the Discoms has considered the capital expenditure to be incurred (net of Grants) for FY 2023-24 towards the Loss Reduction and Modernization works. The expanses regarding Smart meter have been claimed under Opex mode as per the existing monthly rate discovered. The actual rate when discovered under the current tendering process same shall be informed to the Hon'ble Commission.

- 4.7.2. Regulation 44 of UPERC (Multi Year Tariff for Distribution & Transmission) Regulations, 2019 provides for consideration of capital expenditure for the purpose of determination of ARR for the Control Period. Accordingly, the Petitioner has projected the capital expenditure to be undertaken in FY 2023-24 in this Petition. The details of proposed Capital Expenditure for FY 2023-24 is depicted in the table below:

TABLE 4-24 PROPOSED CAPITAL EXPENDITURE DETAILS FOR FY 2023-24 (IN RS. CR)

Particulars	Investments	Capitalisation
OTHER SCHEMES (Net of Consumer Contribution and Grant)	-	338.26
REVAMPED SCHEME (RDSS)	2,211.29	884.52
Total excluding Interest and employee capitalization (A)	2,211.29	1,222.78
Add: Employee Capitalization (B)	336.85	336.85
Add: Interest Capitalization (C)	-	-
Total (D= A+B+C)	2,548.14	1,559.62

- 4.7.3. It is pertinent to highlight that the Investment considered for FY 2023-24 is the net investments (excluding grants and consumer contributions). The Petitioner has separately provided the amount of consumer contribution and grant for FY 2023-24 in relevant section of this Petition and in tariff formats as well.
- 4.7.4. Based on the methodology adopted by the Hon'ble Commission, 40% of the investments made during FY 2023-24 is capitalized in the same year. The Petitioner has also considered employee expense capitalization and Interest capitalization during FY 2023-24 as per the

methodology adopted by the Hon'ble Commission. Considering the Capital Work in Progress (CWIP), investment during the year and capitalisations, the Petitioner has computed the closing CWIP for FY 2023-24.

- 4.7.5. Considering the aforementioned submissions, the capitalisation and capital work in progress for FY 2023-24 are shown in the Table below:

TABLE 4-25 CAPITALIZATION AND WIP OF INVESTMENT FOR FY 2023-24 (IN RS. CR)

Particulars	Derivation	Projected
Opening WIP as on 1 st April 2023	A	845.65
Investments	B	2211.29
Employee Expenses capitalization	C	336.85
A&G Expenses Capitalisation	D	-
Interest Capitalisation on Interest on long term loans	E	-
Total Investments	F= A+B+C+D+E	3,393.78
Transferred to GFA (Total Capitalisation)	G	1559.62
Closing WIP	H=F-G	1,834.16

Notes: Opening Balances for FY 2023-24 are as per closing balances of FY 2022-23.

- 4.7.6. The Petitioner has considered a normative debt: equity ratio of 70:30. Considering this approach, 70% of the capitalisation (excluding consumer contribution and grants) undertaken in FY 2023-24 has been considered to be financed through loan and balance 30% has been considered to be financed through equity contributions. The portion of capital expenditure financed through consumer contribution, capital subsidies and grants has been separated as the depreciation and interest thereon would not be charged to the beneficiaries.
- 4.7.7. The table below summarizes the amounts considered towards consumer contributions, capital grants and subsidies for FY 2023-24:

TABLE 4-26 CONSUMER CONTRIBUTION, CAPITAL GRANTS & SUBSIDIES FOR FY 2023-24 (IN RS. CR)

Particulars	Projected
Opening Balance of Consumer Contributions, Grants and Subsidies towards Cost of Capital Assets	4,559.19
Additions during the year includes consumer contribution and grants	-
Less: Amortisation on consumer contribution part only	-
Closing Balance	4,559.19

- 4.7.8. Thus, the Petitioner submits that the capital investments proposed during FY 2023-24 after netting off the capital investment through deposit works, has been considered to be funded through debt and equity of 70:30, as depicted in the table below:

TABLE 4-27 FINANCING OF THE CAPITAL INVESTMENT FOR FY 2023-24 (IN RS. CR)

Particulars	Derivation	Projected
Investment / Capitalisation (Asset put to use) net of CCG	A	1,559.62
Less:		
Consumer Contribution and grants	B	-
Investment funded by debt and equity	C=A-B	1,559.62
Debt Funded	70% of C	1,091.73
Equity Funded	30% of C	467.89

4.8. Interest & Finance Charges

➤ Interest on Long Term Loan

- 4.8.1. The Hon'ble Commission in its previous Tariff and True-Up orders had considered a normative tariff approach with a debt equity ratio of 70:30. Considering this approach, 70% of the capital expenditure (asset put to use) undertaken in any year was financed through loan and balance 30% has been financed through equity contributions. The portion of capital expenditure financed through consumer contributions, capital subsidies and grants are separated and the depreciation, interest and return on equity thereon was not charged to the consumers. Subsequently, the financing of the capital investment was worked out based on the debt equity ratio of 70:30 and allowable depreciation was considered as normative loan repayment.
- 4.8.2. The Petitioner has worked-out the interest on long term loan based on the same philosophy.
- 4.8.3. Allowable depreciation for the year has been considered as normative loan repayment. The weighted average interest rate for FY 2023-24 has been considered as per audited accounts for computing the eligible interest expenses.
- 4.8.4. Considering the above, the gross interest on long term loan has been computed below. The interest capitalisation has been considered at the same rate as for FY 2023-24. The computations for interest on long term loan are shown in table below:

TABLE 4-28 INTEREST ON LONG TERM LOAN FOR FY 2023-24 (IN RS. CR)

Particulars	Projected
Opening Loan	4,532.01
Loan Additions (70% of Investments)	1,091.73
Less: Repayments (Depreciation allowable for the year)	579.13
Closing Loan Balance	5,044.62
Weighted Average Rate of Interest	11.21%
Interest on long term loan	536.77
Less: Interest Capitalized	
Net Interest on Loan term loan	536.77

➤ **Interest on Consumer Security Deposits**

- 4.8.1. The opening balance of long term loan has been considered equivalent to the closing loan balance for previous year as per the present Petition.
- 4.8.2. As per Regulation 25.2 (c) of UPERC (Multi Year Tariff for Distribution & Transmission) Regulations, 2019, Interest shall be allowed on consumer security deposits as per the provisions of the Electricity Supply Code, 2005 and its subsequent amendments/ addendums and the new Regulations made after repeal of the same.
- 4.8.3. The opening balances of security deposits have been considered as per closing figures of FY 2022-23 and additions during the year FY 2023-24 is estimated as per the % increase in Revenue Assessment for FY 2023-24 w.r.t FY 2022-23. Accordingly, the Petitioner has computed the interest on Security deposit for FY 2023-24, which is shown in the Table below.

TABLE 4-29 INTEREST ON SECURITY DEPOSIT FOR FY 2023-24 (IN RS. CR)

Particulars	Projection
Closing Balance for Security Deposit	882.93
Rate of Interest (RBI bank Rate as on 01.04.2022)	4.25%
Interest on Security Deposits	36.27

➤ **Interest on Working Capital**

- 4.8.4. The Petitioner has determined Interest on Working Capital for FY 2022-23 as per Regulation 25.2 (a) & 25.2 (b) of UPERC (Multi Year Tariff for Distribution & Transmission) Regulations, 2019. The Regulation 25.2 (a) & 25.2 (b) is quoted below:

“(a)The working capital requirement of the Distribution Business shall cover:

- (v) Operation and maintenance expenses for one month;
- (vi) Maintenance spares at 40% of the R&M expenses for two months; and
- (vii) One and half month equivalent of the expected revenue from charges for use of Distribution system at the prevailing Tariff (excluding Electricity Duty);

minus

- (viii) Amount held as security deposits from Distribution System Users:

Provided that for the purpose of Truing-Up for any year, the working capital requirement shall be re-computed on the basis of the values of components of working capital approved by the Commission in the Truing-Up;

(b) Rate of interest on working capital shall be simple interest and shall be equal to the SBI MCLR (1 Year) on October 01, 2019 plus 250 basis points:

Provided that for the purpose of Truing-Up for any year, simple interest on working capital shall be allowed at a rate equal to the weighted average SBI MCLR (1 Year) prevailing during the concerned Year plus 250 basis points.”

- 4.8.5. The Interest on Working Capital as per UPERC (Multi Year Tariff for Distribution & Transmission) Regulations, 2019, is determined in the table below:

TABLE 4-30 INTEREST ON WORKING CAPITAL FOR FY 2023-24 (IN RS. CR)

Particulars	Projected
O&M expenses for 1 month	117.51
One and Half month Month equivalent of expected revenue	2,033.95
Maintenance spares @ 40% of R&M expenses for two months	43.68
Less: Security deposits from consumers, if any	882.93
Total Working Capital Requirement	1,312.22
State Bank Advance Rate (SBAR) %	10.65%
Interest on Working Capital	139.75

- 4.8.6. The following table summarises the Interest and Finance charges projected by the Petitioner for FY 2023-24.

TABLE 4-31 INTEREST AND FINANCE CHARGES FOR FY 2023-24 (IN RS. CR)

Particulars	Projected
A: Interest on Long Term Loans	
Gross Interest on Long Term Loan	536.77
Less: Interest Capitalisation	-
Net Interest on Long Term Loans	536.77

Particulars	Projected
B: Finance and Other Charges	
Interest on Consumer Security Deposits	36.27
Bank/ Finance Charges	41.23
Total Finance Charges	77.51
C: Interest on Working Capital	139.75
Total (A+B+C)	754.03

4.9. Depreciation

- 4.9.1. The basis of determination of depreciation is stated in Regulation 21.1 of UPERC (Multi Year Tariff for Distribution & Transmission) Regulations, 2019. The Regulation 21.1 is quoted below:

“21.1 The Licensee, shall be permitted to recover Depreciation on the value of fixed assets used in their respective businesses, computed in the following manner:

(a) The approved original cost of the fixed assets shall be the value base for calculation of Depreciation:

Provided that the Depreciation shall be allowed on the entire capitalised amount of the new assets after reducing the approved original cost of the retired or replaced or de-capitalised assets.

(b) Depreciation shall be computed annually based on the Straight- Line Method at the rates stipulated in the Annexure- A to these Regulations.

Provided that the Licensee shall ensure that once the individual asset is depreciated to the extent of seventy percent, remaining depreciable value as on 31st March of the year closing shall be spread over the balance Useful Life of the asset including the Extended Life, as per submission of the Licensee and approved by the Commission.

(c) The salvage value of the asset shall be considered at 10% of the allowable capital cost and Depreciation shall be allowed up to a maximum of 90% of the allowable capital cost of the asset:

Provided that land owned shall not be treated as a Depreciable asset and shall be excluded while computing Depreciation

Provided further that Depreciation shall be chargeable from the first year of commercial operation.

(d) Depreciation shall not be allowed on assets funded by Consumer Contributions or Subsidies/ Grants/ Deposit works.”

- 4.9.2. The Petitioner has computed the allowable depreciation expense on the GFA base for FY 2023-24 as per the SLM approach and at the rates approved by the Hon'ble Commission in UPERC (Multi Year Tariff for Distribution & Transmission), 2019. The Petitioner has computed the depreciation only on the depreciable asset base and has

excluded the non-depreciable assets such as land, land rights, etc. The addition during the year is considered as net additions excluding Consumer Contribution and Grant.

4.9.3. Accordingly, the Petitioner has computed depreciation for FY 2023-24 as shown in table below:

TABLE 4-32 GROSS ALLOWABLE DEPRECIATION FOR FY 2023-24 (IN RS. CR) PART A

GROSS ALLOWABLE DEPRECIATION FOR ASSETS BEFORE 01.04.2020 OF DVVNL FOR FY 2023-24 (IN RS. CR) PART A								
SN	Particulars	Opening GFA (as on 31.03.2023)	Cumulative Depreciation	Deductio n to GFA	Closing GFA	Average GFA	Depreciati on Rate	Allowable Gross Depreciation
1	Land & Land Rights	0.61			0.61	0.61	0.00%	-
2	Buildings	169.18			169.18	169.18	3.34%	5.65
3	Other Civil Works	-			-	-	3.34%	-
4	Plant & Machinery	1,405.57			1,405.57	1,405.57	5.28%	74.21
5	Lines, Cables, Network etc.	5,879.02			5,879.02	5,879.02	5.28%	310.41
6	Vehicles	0.61			0.61	0.61	6.33%	0.04
7	Furniture & Fixtures	9.20			9.20	9.20	6.33%	0.58
8	Office Equipments	4.16			4.16	4.16	6.33%	0.26
9	Capital Expenditure on Assets not belonging to utility	-			-	0.00%		-
10	Total Fixed Assets	7,468.36			7,468.36	7,468.36	5.24%	391.16
11	Non depreciable assets (Land & Land Rights)	0.61						
12	Depreciable assets	7,467.74			7,468.36	7,468.36	5.24%	391.16

TABLE 4-33 GROSS ALLOWABLE DEPRECIATION FOR FY 2023-24 (IN RS. CR) PART B

GROSS ALLOWABLE DEPRECIATION FOR ASSETS AFTER ON 01.04.2020 OF DVVNL FOR FY 2023-24 (IN RS. CR) PART B									
SN	Particulars	Opening GFA (as on 01.04.2023)	Addition to GFA	Deduction of Grants	Deduction to GFA	Closing GFA	Average GFA	Depreciation Rate	Allowable Gross Depreciation
1	Land & Land Rights	0.23	0.13			0.35	0.29	0.00%	-
2	Buildings	86.74	35.33			122.07	104.41	3.34%	3.49
3	Other Civil Works	-	-			0.00	0.00	3.34%	0.00
4	Plant & Machinery	1,638.46	293.53			1,931.99	1,785.22	5.28%	94.26
5	Lines, Cables, Network etc.	3,935.22	1,227.72			5,162.94	4,549.08	5.28%	240.19
6	Vehicles	0.23	0.13			0.36	0.29	6.33%	0.02
7	Furniture & Fixtures	5.13	1.92			7.05	6.09	6.33%	0.39
8	Office Equipments	7.80	0.87			8.67	8.24	6.33%	0.52
9	Capital Expenditure on Assets not belonging to utility	-	-			0.00			
10	Total Fixed Assets	5,673.81	1,559.62			7,233.43	6,453.62	5.25%	338.86
11	Non depreciable assets (Land & Land Rights)	0.23	0.13			-	0.11	0.00%	-
12	Depreciable assets	5,673.58	1,559.49			7,233.43	6,453.51	5.25%	338.86

4.9.4. The Petitioner has reduced the equivalent depreciation on the assets created out of consumer contributions, capital grants and subsidies from the gross allowable depreciation for FY 2023-24.

4.9.5. Thus, the allowable depreciation for FY 2023-24 is shown in the table below:

TABLE 4-34 NET ALLOWABLE DEPRECIATION FOR FY 2023-24 (IN RS. CR)

Particulars	Projected
Gross Allowable Depreciation	730.03
Less: Equivalent amount of depreciation on assets acquired out of the Consumer Contribution and Grant	150.90
Net Allowable Depreciation	579.13

4.10. Provision for Bad and Doubtful Debts

4.10.1. The Petitioner has determined bad & doubtful debt as per Regulation 46 of UPERC (Multi Year Tariff for Distribution & Transmission) Regulations, 2019. The Regulation 46 is quoted below:

“For any Year, the Commission may allow a provision for write off of bad and doubtful debts up to 2% of the amount shown as Revenue Receivables from sale of electricity in the audited accounts of the Distribution Licensee for that Year or the actual write off of bad debts, whichever is less....”

4.10.2. Accordingly, Petitioner has computed provision for bad and doubtful debts at 2% of the revenue receivables.

TABLE 4-35 ALLOWABLE PROVISION FOR BAD AND DOUBTFUL DEBTS FOR FY 2023-24 (IN RS. CR)

Particulars	Projected
Total Revenue Receivables from Retail Sales	12,905.61
% of Provision for Bad and Doubtful Debts	2%
Bad and Doubtful Debts as per Regulation	258.11
Bad Debt Projected	258.11

4.11. Return on Equity

4.11.1. The Regulation 22 of the MYT (Distribution and Transmission) Regulations, 2019 provides for return on equity @15% post-tax per annum for Distribution Licensee as specified below:

“22 Return on equity

22.1 Return on equity shall be computed in Rs. terms on equity base at the rate of 14.5% post-tax per annum for the Transmission Licensee and at the rate of 15% post-tax per annum for Distribution Licensee respectively as determined in accordance with Regulation 20:

Provided that assets funded by Consumer Contribution / Deposit works, Capital Subsidies / Grants and corresponding Depreciation shall not form part of the Capital Cost. Actual

Equity infused by the Licensee as per book value shall be considered and shall be used for computation in these Regulations.”

4.11.2. The Petitioner has considered closing equity of FY 2022-23 as opening for FY 2023-24. Equity addition during the year has been considered 30% of Capitalisation during the year net of consumer contribution, capital subsidies/ grants.

4.11.3. The Return on Equity (RoE) for FY 2023-24 is shown below:

TABLE 4-36 RETURN ON EQUITY (ROE) FOR FY 2023-24 (IN RS. CR)

Particulars	Revised Estimate
Opening Equity	4,193.07
Net additions during the year (30% of Asset put to use)*	467.89
Equity (Closing Balance)	4,660.95
Rate of Return on Equity (%)	15.00%
Allowable Return on Equity	664.05

* Net of Grants and consumer contribution

4.12. Revenue from Sale of Power

4.12.1. For projecting the Fixed Charges for FY 2023-24, the average load of March 2023 and March 2024 has been considered.

4.12.2. It is submitted that for HV category consumers, the Petitioner has considered the billable load/Demand at 75% of the contracted load/demand considering it to be as maximum load/demand.

4.12.3. Category-wise revenue worked-out based on above assumption and projected billing determinants are shown in the Tables below:

TABLE 4-37 CATEGORY-WISE REVENUE AND ABR FOR FY 2023-24 (IN RS. CR) AT EXISTING TARIFF

Consumer Category/ Sub-Category	Projected Sales (MU)	Fixed Charges	Variable Charges	Estimated Revenue (Rs Cr)
LMV-1: Domestic Light, Fan & Power				
Life Line Consumers (both Rural and Urban) (up to 100 kWh/month)	2,299.18	189.77	689.75	879.53
Dom: Rural Schedule (unmetered)	2.75	0.95	-	0.95
Dom: Rural Schedule (metered) other than BPL	1,093.37	121.52	406.10	527.61
0-100 kWh/month	776.31	30.38	260.06	290.44
101-150 kWh/month	117.76	41.32	45.34	86.65
151-300 kWh/month	178.43	47.39	89.22	136.61

Consumer Category/ Sub-Category	Projected Sales (MU)	Fixed Charges	Variable Charges	Estimated Revenue (Rs Cr)
Above 300 kWh/Month (Starting from 301 units)	20.87	2.43	11.48	13.91
Dom: Supply at Single Point for Bulk Load	122.31	4.29	85.62	89.90
Other Metered Domestic Consumers other than BPL	4,691.43	402.74	2,763.42	3,166.16
0-100 kWh/month	1,754.02	153.04	964.71	1,117.75
101-150 kWh/month	554.66	80.55	305.06	385.61
151-300 kWh/month	1,102.86	88.60	661.72	750.32
Above 300 kWh/Month (Starting from 301 units)	1,279.90	80.55	831.93	912.48
Sub Total	8,209.04	719.28	3,944.89	4,664.16
LMV-2: Non Domestic Light, Fan & Power				
Non Dom: Rural Schedule (metered)	245.65	17.62	135.11	152.73
Non Dom: Other Metered Non-Domestic Supply	1,000.30	273.45	778.93	1,052.38
Load upto 4 kW	850.26	237.47	653.69	891.15
Upto 300 kWh / month	672.56	192.88	504.42	697.30
Above 300 kWh/Month	177.70	44.59	149.27	193.86
Above 4 kW	150.05	35.98	125.24	161.22
Upto 1000 kWh / month	48.36	21.59	36.27	57.86
Above 1000 kWh/Month	101.69	14.39	88.97	103.37
Sub Total	1,245.95	291.07	914.04	1,205.11
LMV-3: Public Lamps				
Unmetered	9.65	26.56	-	26.56
Unmetered - Gram Panchayat	1.71	2.16	-	2.16
Unmetered - Nagar Palika & Nagar Panchayat	6.55	20.50	-	20.50
Unmetered - Nagar Nigam	1.39	3.89	-	3.89
Metered	74.30	7.38	60.49	67.87
Metered - Gram Panchayat	6.32	0.55	4.74	5.28
18:00 hrs - 06:00 hrs	6.32	0.55	4.74	5.28
06:00 hrs - 18:00 hrs	-	-	-	-
Metered - Nagar Palika & Nagar Panchayat	40.66	4.65	32.53	37.17
18:00 hrs - 06:00 hrs	40.66	4.65	32.53	37.17
06:00 hrs - 18:00 hrs	-	-	-	-
Metered - Nagar Nigam	27.33	2.19	23.23	25.41
18:00 hrs - 06:00 hrs	27.33	2.19	23.23	25.41
06:00 hrs - 18:00 hrs	-	-	-	-
Sub Total	83.95	33.93	60.49	94.42
LMV-4: Light, fan & Power for Institutions				
Inst: Public	233.31	43.57	192.48	236.05
Inst: Private	66.08	16.63	59.48	76.10
Sub Total	299.40	60.20	251.96	312.16
LMV-5: Private Tube Wells/ Pumping Sets				
Consumers getting supply as per "Rural Schedule"	4,644.01	568.85	91.79	660.64

Consumer Category/ Sub-Category	Projected Sales (MU)	Fixed Charges	Variable Charges	Estimated Revenue (Rs Cr)
PTW: Rural Schedule (unmetered) (Total)	4,185.04	520.23	-	520.23
PTW: Rural Schedule (unmetered)	4,185.04	520.23	-	520.23
PTW: Rural Schedule (metered) (Total)	458.97	48.62	91.79	140.41
PTW: Rural Schedule (metered)	458.97	48.62	91.79	140.41
PTW: Rural Schedule (Energy Efficient Pumps) (metered)	-	-	-	-
Consumers getting supply as per "Urban Schedule (Metered Supply)"	218.48	32.69	131.09	163.78
PTW: Urban Schedule (metered)	218.48	32.69	131.09	163.78
Sub Total	4,862.49	601.54	222.88	824.42
LMV 6: Small and Medium Power upto 100 HP (75 kW)				
Consumers getting supply as per "Rural Schedule"	119.36	20.03	80.60	100.63
Up to 20 kW	99.74	15.69	67.35	83.04
Above 20 kW	19.62	4.34	13.25	17.59
Consumers getting supply other than "Rural Schedule"	527.02	99.89	386.03	485.93
Summer Months (April to September)	263.51	49.95	193.56	243.50
For load upto 20 kW	171.28	34.96	125.81	160.77
05:00 hrs to 11:00 hrs	26.10	5.33	16.20	21.52
11:00 hrs to 17:00 hrs	79.46	16.22	58.01	74.23
17:00 hrs to 23:00 hrs	33.20	6.78	27.87	34.65
23:00 hrs to 05:00 hrs	32.52	6.64	23.74	30.38
For load above 20 kW	92.23	14.98	67.75	82.73
05:00 hrs to 11:00 hrs	14.05	2.28	8.72	11.00
11:00 hrs to 17:00 hrs	42.79	6.95	31.24	38.19
17:00 hrs to 23:00 hrs	17.88	2.90	15.01	17.91
23:00 hrs to 05:00 hrs	17.51	2.84	12.78	15.63
Winter Months (October to March)	263.51	49.95	192.48	242.42
For load upto 20 kW	171.28	34.96	125.11	160.07
05:00 hrs to 11:00 hrs	26.10	5.33	19.05	24.38
11:00 hrs to 17:00 hrs	79.46	16.22	58.01	74.23
17:00 hrs to 23:00 hrs	33.20	6.78	27.87	34.65
23:00 hrs to 05:00 hrs	32.52	6.64	20.18	26.81
For load above 20 kW	92.23	14.98	67.37	82.35
05:00 hrs to 11:00 hrs	14.05	2.28	10.26	12.54
11:00 hrs to 17:00 hrs	42.79	6.95	31.24	38.19
17:00 hrs to 23:00 hrs	17.88	2.90	15.01	17.91
23:00 hrs to 05:00 hrs	17.51	2.84	10.86	13.71
Sub Total	646.38	119.92	466.63	586.56
LMV-7: Public Water Works				
Metered	1,246.56	74.23	517.27	591.49
Rural	657.89	74.14	517.27	591.41
Urban	588.67	70.25	500.37	570.62
Unmetered	0.51	71.53	500.37	571.89
Rural	0.10	0.09	-	0.09

Consumer Category/ Sub-Category	Projected Sales (MU)	Fixed Charges	Variable Charges	Estimated Revenue (Rs Cr)
Urban	0.42	1.27	-	1.27
Sub Total	1,247.07	145.75	1,017.64	1,163.39

LMV-9: Temporary Supply				
Metered	40.62	3.77	35.81	39.58
Metered TS: Individual residential consumers	7.43	0.83	5.94	6.78
Metered TS: Others	33.19	2.93	29.87	32.80
Unmetered	0.69	0.27	-	0.27
Unmetered TS: Ceremonies	0.09	-	-	-
Unmetered TS: Temp shops	0.60	0.27	-	0.27
Sub Total	41.30	4.04	35.81	39.85
LMV-10: Departmental Employees	173.83	98.77	-	98.77
LMV-11: Electrical Vehicles	-	-	-	-
Multi Story Buildings	-	-	-	-
LMV-1b	-	-	-	-
HV-1b	-	-	-	-
Public Charging Station	1.57	-	1.15	1.15
LT	0.02	-	0.02	0.02
Summer Months (April to September)	0.01	-	-	-
05:00 hrs to 11:00 hrs	0.00	-	0.00	0.00
11:00 hrs to 17:00 hrs	0.01	-	0.00	0.00
17:00 hrs to 23:00 hrs	0.00	-	0.00	0.00
23:00 hrs to 05:00 hrs	0.00	-	0.00	0.00
Winter Months (October to March)	0.01	-	0.01	0.01
05:00 hrs to 11:00 hrs	0.00	-	0.00	0.00
11:00 hrs to 17:00 hrs	0.01	-	0.00	0.00
17:00 hrs to 23:00 hrs	0.00	-	0.00	0.00
23:00 hrs to 05:00 hrs	0.00	-	0.00	0.00
HT	1.55	-	1.13	1.13
Summer Months (April to September)	0.77	-	0.57	0.57
05:00 hrs to 11:00 hrs	0.12	-	0.07	0.07
11:00 hrs to 17:00 hrs	0.36	-	0.26	0.26
17:00 hrs to 23:00 hrs	0.15	-	0.13	0.13
23:00 hrs to 05:00 hrs	0.15	-	0.11	0.11
Winter Months (October to March)	0.77	-	0.56	0.56
05:00 hrs to 11:00 hrs	0.12	-	0.09	0.09
11:00 hrs to 17:00 hrs	0.36	-	0.26	0.26
17:00 hrs to 23:00 hrs	0.15	-	0.13	0.13
23:00 hrs to 05:00 hrs	0.15	-	0.09	0.09
Sub Total	1.57	-	1.15	1.15
HV-1: Non-Industrial Bulk Loads				
Commercial Loads / Private Institutions / Non-Domestic Bulk Power with contracted Load 75 kW & above and getting supply at single point on 11 kV & above voltage level.	178.93	30.96	148.52	179.48

Consumer Category/ Sub-Category	Projected Sales (MU)	Fixed Charges	Variable Charges	Estimated Revenue (Rs Cr)
Supply at 11 kV	161.49	25.12	134.36	159.48
Supply above 11 kV	17.44	5.84	14.16	20.00
Public Institutions, Registered Societies, Residential Colonies / Townships, Residential Multi-Storied Buildings including Residential Multi-Storied Buildings with contracted load 75 kW & above and getting supply at Single Point on 11 kV & above voltage levels	178.93	27.02	137.43	164.45
Supply at 11 kV	161.49	13.87	124.35	138.22
Supply above 11 kV	17.44	13.14	13.08	26.22
Sub Total	357.86	57.98	285.95	343.93
HV-2: Large and Heavy Power above 100 BHP (75 kW)				
HV2 Urban Schedule: Supply at 11 kV	2,012.17	196.40	1,422.69	1,619.09
Summer Months (April to September)	1,006.09	98.20	714.32	812.52
05:00 hrs to 11:00 hrs	197.04	19.23	118.91	138.14
11:00 hrs to 17:00 hrs	359.08	35.05	254.94	289.99
17:00 hrs to 23:00 hrs	197.05	19.23	160.89	180.12
23:00 hrs to 05:00 hrs	252.93	24.69	179.58	204.27
Winter Months (October to March)	1,006.09	98.20	708.37	806.57
05:00 hrs to 11:00 hrs	197.04	19.23	139.90	159.13
11:00 hrs to 17:00 hrs	359.08	35.05	254.94	289.99
17:00 hrs to 23:00 hrs	197.05	19.23	160.89	180.12
23:00 hrs to 05:00 hrs	252.93	24.69	152.64	177.33
HV2 Urban Schedule: Supply above 11 kV & upto 66 kV	836.65	55.92	566.56	622.47
Summer Months (April to September)	418.33	27.96	284.46	312.42
05:00 hrs to 11:00 hrs	81.93	5.48	47.35	52.83
11:00 hrs to 17:00 hrs	149.30	9.98	101.53	111.50
17:00 hrs to 23:00 hrs	81.93	5.48	64.07	69.55
23:00 hrs to 05:00 hrs	105.17	7.03	71.51	78.54
Winter Months (October to March)	418.33	27.96	282.09	310.05
05:00 hrs to 11:00 hrs	81.93	5.48	55.71	61.19
11:00 hrs to 17:00 hrs	149.30	9.98	101.53	111.50
17:00 hrs to 23:00 hrs	81.93	5.48	64.07	69.55
23:00 hrs to 05:00 hrs	105.17	7.03	60.79	67.81
HV2 Urban Schedule: Supply above 66 kV & upto 132 kV	82.14	11.15	52.35	63.50
Summer Months (April to September)	41.07	5.57	26.28	31.86
05:00 hrs to 11:00 hrs	8.04	1.09	4.38	5.47
11:00 hrs to 17:00 hrs	14.66	1.99	9.38	11.37
17:00 hrs to 23:00 hrs	8.04	1.09	5.92	7.01
23:00 hrs to 05:00 hrs	10.32	1.40	6.61	8.01
Winter Months (October to March)	41.07	5.57	26.07	31.64
05:00 hrs to 11:00 hrs	8.04	1.09	5.15	6.24
11:00 hrs to 17:00 hrs	14.66	1.99	9.38	11.37
17:00 hrs to 23:00 hrs	8.04	1.09	5.92	7.01

Consumer Category/ Sub-Category	Projected Sales (MU)	Fixed Charges	Variable Charges	Estimated Revenue (Rs Cr)
23:00 hrs to 05:00 hrs	10.32	1.40	5.62	7.02
HV2 Urban Schedule: Supply above 132 kV	181.66	13.58	110.35	123.93
Summer Months (April to September)	90.83	6.79	55.41	62.20
05:00 hrs to 11:00 hrs	17.79	1.33	9.22	10.55
11:00 hrs to 17:00 hrs	32.42	2.42	19.77	22.20
17:00 hrs to 23:00 hrs	17.79	1.33	12.48	13.81
23:00 hrs to 05:00 hrs	22.83	1.71	13.93	15.64
Winter Months (October to March)	90.83	6.79	54.95	61.74
05:00 hrs to 11:00 hrs	17.79	1.33	10.85	12.18
11:00 hrs to 17:00 hrs	32.42	2.42	19.77	22.20
17:00 hrs to 23:00 hrs	17.79	1.33	12.48	13.81
23:00 hrs to 05:00 hrs	22.83	1.71	11.84	13.55
HV2 Rural Schedule: Supply at 11 kV	27.47	3.35	18.04	21.40
Sub Total	3,140.10	280.40	2,170.00	2,450.40
HV-3: Railway Traction				
HV3 Railway Traction (at, below and above 132 kV)	-	-	-	-
HV3 Metro Traction (at, below and above 132 kV)	-	-	-	-
Sub Total	-	-	-	-
HV-4: Lift Irrigation & P. Canals above 100 BHP (75 kW)				
HV4 Supply at 11kV	93.08	10.29	79.12	89.40
HV4 Supply above 11kV & upto 66kV	16.11	4.18	13.53	17.71
HV4 Supply above 66 kV & upto 132kV	-	-	-	-
Sub Total	109.19	14.46	92.65	107.11
Extra State Consumer				
Bulk Supply Consumer	2,299.76	-	1,014.20	1,014.20
Grand Total	22,717.91	2,427.33	10,478.28	12,905.61

4.13. Non-Tariff Incomes

4.13.1. The Petitioner has estimated the non-tariff incomes for FY 2023-24 as shown in the table below.

TABLE 4-38 NON-TARIFF INCOME FOR FY 2023-24 (IN RS. CR)

Particulars	Projected
Total Non-Tariff Income	50.65

4.14. GoUP Subsidy

4.14.1. The Govt. subsidy for FY 2023-24 yet to be approved in State budget for FY 2023-24. As such this is not available at present. Therefore for this Petition, Licensee has taken same provisional value as budgeted for FY2022-23 by GoUP. Further, it is submitted that as per the Section 65 of electricity Act, 2003 the GoUP provides the Government subsidy details directly to the Hon'ble Commission.

4.14.2. The Hon'ble Commission may substitute this provisional amount of Government subsidy by the actual subsidy details communicated by the Government of UP to the Hon'ble Commission for FY 2023-24 and the revenue gap shall be modified accordingly.

4.15. Summary of ARR for FY 2023-24

4.15.1. The Aggregate Revenue Requirement for FY 2023-24 is summarised in the Table below:

TABLE 4-39 ARR FOR FY 2023-24 (IN RS. CR)

S.No	Particulars	ARR
		FY 2023-24
		Projected
I.	Power Purchase or Energy Available at Discom Periphery (MU)	27,404
II.	Sale of Power (MU)	22,718
III.	Distribution Loss (%)	17.10%
A	Expenditure	
a	Cost of Power Procurement	12,512.76
b	Transmission and Load Dispatch Charges	675.51
c	Gross O&M Expenses	
i	R&M Expense	655.25
ii	Employee Expenses	947.14
iii	A&G Expense	144.60
e	Total Gross O&M expenses (i+ii+iii)	1,746.99
f	Smart Metering OPEX	85.87
g	Depreciation	579.13
h	Interest on Long-Term Loan	536.77
i	Interest on Security Deposit from Consumers and Distribution system Users	36.27
j	Finance/Bank Charges	41.23
k	Interest on Working Capital	139.75
l	Bad and Doubtful debts	258.11
m	Return on Equity	664.05

S.No	Particulars	ARR
		FY 2023-24
		Projected
n	Income Tax	-
	Total Expenditure (A)	17,276.45
	Less:	
o	Interest Capitalisation	-
p	Employee Capitalisation	336.85
B	Net Expenditure (A-q-r)	16,939.60
C	Less: Non Tariff Income	50.65
D	Net Annual Revenue Requirement of Licensee(B-C)	16,888.95
	Receipts	-
a	Revenue Assessment at Payable Tariff	12,905.61
	<i>Revenue from Subsidy and Cross subsidy</i>	3,703.26
	<i>Revenue Assessment at Full Cost Tariff</i>	16,608.88
b	Income from other Business	-
c	Revenue from Open Access Customers	-
E	Total Revenue (a+b+c)	12,905.61
F	(Shortfall)/Excess before tariff revision impact (E-D)	(3,983.34)
G	Tariff Revision Impact	-
H	Shortfall/Excess after tariff revision impact (F+G)	(3,983.34)
I	Govt. Subsidy Received/Declared	3,365.99
J	(Shortfall)/Excess(H+J)	(617.34)

4.15.2. The Petitioner requests to approve the ARR claimed for FY 2023-24 in above Table.

➤ **Average Cost of Supply**

4.15.3. The average cost of supply consolidated for all the Discoms have been computed as under: -

TABLE 4-40 AVERAGE COST OF SUPPLY FOR FY 2023-24 (CONSOLIDATED FOR ALL DISCOMS)

Particulars	FY 2023-24
Net Annual Revenue Requirement of Licensee (Rs Cr.)	92,547
Sale of Power (MU)	1,14,674
ACOS	8.07

➤ **Net Revenue Gap with Government Subsidy**

4.15.4. As mentioned in Clause No. 4.15.2 of this Petition, in the absence of approved subsidy details for FY 2023-24, the provisional amount of subsidy of Rs 33,65.99 Cr for FY 2023-24 may be adjusted provisionally to bridge

the revenue-gap. Accordingly, the net revenue gap is Rs. 617.72 Crores which may change as per government Subsidy details for FY 2023-24.

- 4.15.5. It is further submitted that the Hon'ble Commission in its Tariff Order for FY 2022-23 has also recognised the Government subsidy component of LMV-5 Metered Rural Consumers as per the GoUP direction, as under:

“8.1.12 Further, the Commission is in receipt of a GoUP letter with Ref: 707/24-P-1/2021 dated 25.3.2021 under Section 108 of EA 2003, wherein GoUP mentioned that since majority of the rural LMV-5 consumers are unmetered, and taking into consideration the impact of Covid pandemic, GoUP has decided that tariff rates of rural LMV-5 unmetered consumers may be levied on LMV-5 metered consumers tariff and has directed the Commission to consider the same.

8.1.13 Subsequently, GoUP again sent a letter with Ref: 812/24-1-21-1307/2020 dated 12.5.2021 for billing LMV-5 rural metered as unmetered, however metering of unmetered consumers will also be done and the meter reading will be used for the purpose of energy accounting and subsidy computation. The difference between the revenue at unmetered rates & revenue as per metered energy & rates, would be provided to the Licensees by GoUP.

*8.1.14 Although, this provision is not in conformity of Section 65 of Electricity Act, 2003, in regard to advance subsidy, however, in view of the State Government's commitment to provide additional subsidy in regards to the above arrangement, **the Commission accepts this proposal and the additional subsidy amount, which will be computed at the time of True-up shall be payable by the State Government in conformity to Section 65 of Electricity Act, 2003.**”*

- 4.15.6. Accordingly, the revenue from LMV-5 metered consumer sub-category will also involve the component of Government Subsidy.

5. Regulatory Assets

- 5.1.1. The Hon'ble Commission had ordered as below in the Tariff Order for FY 2023-24 regarding Licensees request related to the Regulatory Assets:
- 7.1.6 Accordingly, the Licensee's requested the Commission to approve the above Regulatory Asset on the basis of GoUP letter and provide a roadmap for recovery of the same in line with the provisions of National Tariff Policy, 2016 and UPERC MYT Distribution Regulations, 2019.
- 7.1.7 They further apprised that as per clause 1.2(i) of the UP UDAY MOU, the State Government has given the commitment for taking over the future losses of Discoms in a graded manner. The total liability of State Government on this account was Rs. 12,049.49 Crore upto FY 2019 against which the Govt. has already provided support of Rs. 5771.02 Crore and for the remaining balance of Rs. 6278.47 crore, the State Govt. has committed that the same will be provided in next 10 years. The subsidy support from Govt. mentioned in point 5 of the letter is towards the cash losses incurred by the Petitioner due to lower collection efficiency and thus is not related to Regulatory Assets and ARR/Tariff approval procedure.
- 7.1.8 The Commission has gone through the letter dated 5.3.2021 received from GOUP and the submissions of the Licensees. At the outset, it is pertinent to mention that the UDAY agreement (MOU) was a tri-partite agreement between GoUP, Central Govt (GOI) and Discoms, wherein GOI facilitated GoUP to take over 75% of the outstanding debt of the Discoms, and facilitated Banks/FIs not to levy any prepayment charges on the Discom debt and waived off any unpaid o]verdue interest and penal interest on Discom debt. The same was done by the GoUP and Banks/FIs. However, the above letter changes the provisions of the tri-partite UDAY agreement and now the GoUP is unilaterally backing out from its obligations from a retrospective date and changing its share to 'debt' instead of 'taking over the debt'.
- 7.1.9 Since, the Commission had also approved the UDAY MoU, the Commission is of the view that giving effect to such arrangement in the manner as provided in the letter by the GOUP will have retrospective implication and will affect all the Tariff Orders (which have already been Trued-up) in which the treatment of UDAY has already been done. Also, such treatment of the funds would affect the interest of public at large and will lead to huge 'tariff-shock'. The same was also discussed in the State Advisory Committee (SAC). The Commission has taken note of the strong opposition by the SAC member, stakeholder and public at large against the revision in computation of Regulatory Assets approved by the Commission as proposed by the Discoms.
- 7.1.10 The Commission cannot decide the matter unilaterally under these ARR proceedings and without taking in consideration the outcome of the legal matter pending before Hon'ble APTEL in this respect.
- 7.1.11 Therefore, it would not be prudent to accept this change unilaterally on the advice of State Government from the retrospective date, and accordingly, is not accepted.
- 5.1.2. The Hon'ble Commission has further mentioned that the Commission cannot decide the matter unilaterally under these ARR proceedings and without taking in consideration the outcome of the legal matter pending before the Hon'ble APTEL in this respect.

- 5.1.3. It is further submitted that the carrying cost component will continuously increase with the passing years. The Petitioner requests the Hon'ble Commission to kindly consider the above facts and issue suitable orders while finalizing the Tariff Order.
- 5.1.4. Regulatory Asset from FY 2000-01 to FY 2022-23 (post issue of GOUP Letter) along with the carrying cost is depicted below which shall also be considered while approving the ARR of FY 2023-24: Regulatory Assets from FY 2000-01 to FY 2021-22 (post issue of GOUP Letter)

TABLE 5-1 REGULATORY ASSETS FROM FY 2000-01 TO FY 2021-22 (POST ISSUE OF GOUP LETTER)

Description	DVVNL
True Up of 2000-01 to 2007-08 and its Regulatory Assets / (Surplus) as on 31.03.16	964.35
True Up of 2008-09 to 2011-12 and its Regulatory Assets / (Surplus) as on 31.03.16	4,563.00
True Up of 2012-13 and its Regulatory Assets / (Surplus) as on 31.03.16	2,329.44
True Up of 2013-14 and its Regulatory Assets / (Surplus) as on 31.03.16	2,661.25
True Up of 2014-15 and its Regulatory Assets / (Surplus) as on 31.03.16	-1,412.38
True Up of 2015-16 and its Regulatory Assets / (Surplus) as on 31.03.16	466.37
Total Regulatory Assets till Trued-UP FY 2015-16	9,572.03
50% of DISCOM debt taken over as per UDAY	0
Net RA / (Surplus) Left after UDAY	9,572.03
Carrying Cost @ 12.50% for FY 2016-17	1196.5
Regulatory Assets/(Surplus) of FY 2016-17 in True Up	0
Total Regulatory Assets Trued-Up till FY 2016-17	10,768.53
25% of Discom Debt Takenover as per UDAY	0
Net RA / (Surplus) Left after UDAY	10,768.53
Carrying Cost @ 13.75% for FY 2017-18	1,480.67
Regulatory Assets/(Surplus) in True Up with carrying cost for FY 2017-18	0
carrying cost @ 13.75% for FY 2017-18	0
Total Net RA / (Surplus) till trued up for FY 2017-18	12,249.21
Carrying cost @ 14.05% for FY 2018-19	1,721.01
Net Revenue gap / (surplus) after True up of FY 2018-19	811.86
Carrying cost @ 14.05% for FY 2018-19	57.03
Total Net RA / (Surplus) trued up till FY 2018-19	14,839.11
Carrying cost @ 13.80% for FY 2019-20	2,047.80
Total Net RA / (Surplus) trued up till FY 2019-20	16,886.91
Carrying cost @ 10.65% for FY 2020-21	1,798.46
Total Net RA / (Surplus) trued up till FY 2020-21	18,685.37
Carrying cost @ 9.50% for FY 2021-22	1,775.11
Total Net RA / (Surplus) trued up till FY 2021-22	20,460.48

6. Category-wise Revenue and ABR for FY 2023-24

TABLE 6-1 CATEGORY-WISE REVENUE AND ABR FOR FY 2023-24 (IN RS. CR) AT EXISTING TARIFF (CONSOLIDATED FOR ALL DISCOMS)

Consumer Category/ Sub-Category	Consumers	Load (kW)	Projected Sales (MU)	Fixed Charges	Variable Charges	Estimated Revenue (Rs Cr)	Average Billing Rate (Rs/Unit)
LMV-1: Domestic Light, Fan & Power							
Life Line Consumers (both Rural and Urban) (up to 100 kWh/month)	1,58,64,269	1,54,47,649	12,858.67	896.14	3,857.60	4,753.75	3.70
Dom: Rural Schedule (unmetered)	2,22,461	2,91,363	755.21	262.23	-	262.23	3.47
Dom: Rural Schedule (metered) other than BPL	65,65,074	1,02,17,493	11,669.37	1,006.18	4,691.18	5,697.36	4.88
0-100 kWh/month	34,92,886	42,88,091	5,709.19	421.30	1,912.58	2,333.88	4.09
101-150 kWh/month	17,36,119	27,40,853	2,369.91	270.34	912.42	1,182.75	4.99
151-300 kWh/month	8,06,117	23,18,167	2,169.15	229.06	1,084.58	1,313.63	6.06
Above 300 kWh/Month (Starting from 301 units)	5,29,952	8,70,381	1,421.11	85.48	781.61	867.10	6.10
Dom: Supply at Single Point for Bulk Load	410	3,59,374	782.43	48.69	547.70	596.38	7.62
Other Metered Domestic Consumers other than BPL	96,91,845	2,05,77,402	27,143.80	2,622.83	15,881.72	18,504.54	6.82
0-100 kWh/month	36,77,602	69,62,168	11,566.87	886.99	6,361.78	7,248.76	6.27
101-150 kWh/month	24,22,961	41,15,480	3,318.79	524.57	1,825.33	2,349.90	7.08
151-300 kWh/month	16,87,122	42,38,649	5,463.82	540.69	3,278.29	3,818.98	6.99
Above 300 kWh/Month (Starting from 301 units)	19,04,159	52,61,105	6,794.32	670.58	4,416.31	5,086.90	7.49
Sub Total	3,23,44,060	4,68,93,282	53,209.48	4,836.06	24,978.20	29,814.26	5.60
LMV-2: Non Domestic Light, Fan & Power							
Non Dom: Rural Schedule (metered)	4,07,330	10,58,839	1,564.71	132.99	860.59	993.58	6.35
Non Dom: Other Metered Non-Domestic Supply	15,94,887	44,73,319	6,772.09	2,097.47	5,367.12	7,464.59	11.02
Load upto 4 kW	14,71,633	32,80,092	5,296.88	1,476.95	4,103.41	5,580.35	10.54
Upto 300 kWh / month	11,21,701	25,74,342	3,844.15	1,158.91	2,883.11	4,042.02	10.51
Above 300 kWh/Month	3,49,932	7,05,750	1,452.73	318.04	1,220.29	1,538.33	10.59
Above 4 kW	1,23,254	11,93,227	1,475.21	620.53	1,263.71	1,884.24	12.77
Upto 1000 kWh / month	1,16,298	6,80,850	774.11	354.20	650.25	1,004.46	12.98
Above 1000 kWh/Month	6,955	5,12,377	701.10	266.32	613.46	879.78	12.55
Sub Total	20,02,216	55,32,157	8,336.80	2,230.46	6,227.71	8,458.18	10.15
LMV-3: Public Lamps							
Unmetered	983	26,771	81.06	169.84	-	169.84	20.95
Unmetered - Gram Panchayat	570	2,575	7.03	9.73	-	9.73	13.85
Unmetered - Nagar Palika & Nagar Panchayat	293	12,677	35.14	73.02	-	73.02	20.78
Unmetered - Nagar Nigam	120	11,519	38.90	87.08	-	87.08	22.39
Metered	7,024	2,14,924	711.10	57.63	590.53	648.16	9.11
Metered - Gram Panchayat	3,662	14,355	27.46	3.04	20.59	23.64	8.61
Metered - Nagar Palika & Nagar Panchayat	1,898	73,915	223.13	19.60	178.51	198.10	8.88
Metered - Nagar Nigam	1,464	1,26,655	460.51	34.99	391.43	426.42	9.26
Sub Total	8,007	2,41,695	792.16	227.47	590.53	818.00	10.33
LMV-4: Light, fan & Power for Institutions							
Inst: Public	1,40,606	5,76,149	1,038.93	201.62	857.12	1,058.74	10.19
Inst: Private	16,629	1,68,161	281.12	68.63	253.01	321.64	11.44
Sub Total	1,57,235	7,44,309	1,320.05	270.25	1,110.12	1,380.38	10.46

Consumer Category/ Sub-Category	Consumers	Load (kW)	Projected Sales (MU)	Fixed Charges	Variable Charges	Estimated Revenue (Rs Cr)	Average Billing Rate (Rs/Unit)
LMV-5: Private Tube Wells/ Pumping Sets							
Consumers getting supply as per "Rural Schedule"	13,92,185	85,40,142	17,697.59	2,130.58	320.43	2,451.02	1.38
PTW: Rural Schedule (unmetered) (Total)	11,76,559	73,16,632	16,095.42	2,000.79	-	2,000.79	1.24
PTW: Rural Schedule (unmetered)	11,76,559	73,16,632	16,095.42	2,000.79	-	2,000.79	1.24
PTW: Rural Schedule (metered) (Total)	2,15,626	12,23,510	1,602.17	129.79	320.43	450.22	2.81
PTW: Rural Schedule (metered)	2,15,626	12,23,510	1,602.17	129.79	320.43	450.22	2.81
PTW: Rural Schedule (Energy Efficient Pumps) (metered)	-	-	-	-	-	-	-
Consumers getting supply as per "Urban Schedule (Metered Supply)"	40,225	2,65,904	1,578.88	52.66	947.33	999.99	6.33
PTW: Urban Schedule (metered)	40,225	2,65,904	1,578.88	52.66	947.33	999.99	6.33
Sub Total	14,32,410	88,06,046	19,276.47	2,183.24	1,267.76	3,451.00	1.79
LMV 6: Small and Medium Power upto 100 HP (75 kW)							
Consumers getting supply as per "Rural Schedule"	60,365	5,47,998	686.23	128.22	463.38	591.60	8.62
Up to 20 kW	58,533	4,53,604	563.49	106.14	380.50	486.64	8.64
Above 20 kW	1,832	94,393	122.75	22.08	82.88	104.96	8.55
Consumers getting supply other than "Rural Schedule"	1,52,549	19,46,241	3,051.35	502.47	2,427.75	2,930.22	9.60
Sub Total	2,12,914	24,94,238	3,737.58	630.69	2,891.13	3,521.82	9.42
LMV-7: Public Water Works							
Metered	65,689	12,52,169	4,912.65	417.12	1,730.79	2,147.91	4.37
Rural	34,637	5,46,855	2,201.33	210.97	1,730.79	1,941.77	8.82
Urban	31,052	7,05,314	2,711.32	301.98	2,304.62	2,606.61	9.61
Unmetered	4,310	77,538	552.70	539.70	2,304.62	2,844.32	51.46
Rural	2,138	37,518	274.20	206.14	-	206.14	7.52
Urban	2,172	40,020	278.50	237.72	-	237.72	8.54
Sub Total	69,999	13,29,707	5,465.35	956.82	4,035.42	4,992.23	9.13
LMV-9: Temporary Supply							
Metered	23,425	1,12,079	233.51	36.87	205.05	241.92	10.36
Metered TS: Individual residential consumers	6,424	24,481	51.07	5.80	40.86	46.66	9.14
Metered TS: Others	17,000	87,598	182.44	31.07	164.19	195.26	10.70
Unmetered	101	1,864	15.11	14.36	-	14.36	9.50
Unmetered TS: Ceremonies	1	2	0.21	0.09	-	0.09	4.38
Unmetered TS: Temp shops	100	1,862	14.91	14.27	-	14.27	9.57
Sub Total	23,525	1,13,943	248.63	51.23	205.05	256.28	10.31
LMV-10: Departmental Employees	98,581	4,12,214	638.50	361.25	-	361.25	5.66
LMV-11: Electrical Vehicles							
Multi Story Buildings	-	-	-	-	-	-	-
LMV-1b	-	-	-	-	-	-	-
HV-1b	-	-	-	-	-	-	-
Public Charging Station	116	11,548	21.41	-	15.97	15.97	7.46
LT	108	3,324	8.45	-	6.51	6.51	7.70
HT	8	8,224	12.96	-	9.46	9.46	7.30
Sub Total	116	11,548	21.41	-	15.97	15.97	7.46
HV-1: Non-Industrial Bulk Loads							

Consumer Category/ Sub-Category	Consumers	Load (kW)	Projected Sales (MU)	Fixed Charges	Variable Charges	Estimated Revenue (Rs Cr)	Average Billing Rate (Rs/Unit)
Commercial Loads / Private Institutions / Non-Domestic Bulk Power with contracted Load 75 kW & above and getting supply at single point on 11 kV & above voltage level.	2,788	9,11,449	2,107.82	335.68	1,750.30	2,085.99	9.90
Supply at 11 kV	1,470	6,16,862	1,937.39	232.87	1,611.91	1,844.78	9.52
Supply above 11 kV	1,318	2,94,587	170.43	102.82	138.39	241.21	14.15
Public Institutions, Registered Societies, Residential Colonies / Townships, Residential Multi-Storeyed Buildings including Residential Multi-Storeyed Buildings with contracted load 75 kW & above and getting supply at Single Point on 11 kV & above voltage levels	3,296	12,32,890	2,107.82	403.72	1,619.62	2,023.33	9.60
Supply at 11 kV	1,988	8,54,635	1,937.39	284.85	1,491.79	1,776.64	9.17
Supply above 11 kV	1,307	3,78,255	170.43	118.87	127.82	246.69	14.47
Sub Total	6,084	21,44,340	4,215.65	739.40	3,369.92	4,109.32	9.75
HV-2: Large and Heavy Power above 100 BHP (75 kW)							
HV2 Urban Schedule: Supply at 11 kV	13,422	36,39,369	9,997.89	959.09	7,087.54	8,046.64	8.05
HV2 Urban Schedule: Supply above 11 kV & upto 66 kV	454	9,18,247	2,754.16	233.96	1,874.79	2,108.75	7.66
HV2 Urban Schedule: Supply above 66 kV & upto 132 kV	29	2,43,457	600.46	57.59	384.95	442.54	7.37
HV2 Urban Schedule: Supply above 132 kV	6	74,363	210.20	17.64	127.73	145.37	6.92
HV2 Rural Schedule: Supply at 11 kV	1,061	3,77,507	675.68	92.04	443.76	535.79	7.93
Sub Total	14,972	52,52,943	14,238.40	1,360.32	9,918.76	11,279.09	7.92
HV-3: Railway Traction							
HV3 Railway Traction (at, below and above 132 kV)	-	-	-	-	-	-	-
HV3 Metro Traction (at, below and above 132 kV)	7	58,743	127.56	15.74	93.12	108.87	8.53
Sub Total	7	58,743	127.56	15.74	93.12	108.87	8.53
HV-4: Lift Irrigation & P. Canals above 100 BHP (75 kW)							
HV4 Supply at 11kV	103	1,11,886	383.41	34.78	325.89	360.68	9.41
HV4 Supply above 11kV & upto 66kV	37	1,00,063	338.04	30.34	283.96	314.30	9.30
HV4 Supply above 66 kV & upto 132kV	-	-	0.82	-	0.67	0.67	8.25
Sub Total	139	2,11,949	722.26	65.13	610.52	675.65	9.35
Extra State Consumer	2	5,699	23.87	-	17.98	17.98	7.53
Bulk Supply Consumer	1	11,89,958	2,299.76	-	1,014.20	1,014.20	4.41
Grand Total	3,63,70,269	7,54,42,771	1,14,673.95	13,928.07	56,346.39	70,274.45	6.13

7. Tariff Proposal

7.1.1. It is hereby submits that UPPCL has designed Tariff Proposal on consolidated basis to mitigate the revenue gap for True-up year FY 2021-22 and ARR year FY 2023-24. Further, to estimate full cost tariff, the Petitioner has adopted the same principle as approved by the Hon'ble Commission in the Tariff Order for FY 2022-23.

7.1.2. It is further submitted that the subsidy for applicabe consumer category is not yet declared by the GoUP. Therefore, the Petitioner has considered the same per unit rate of subsidy and cross-subsidy as approved by the Hon'ble Commission for FY 2022-23.

7.1.3. The summary of category/sub-category/slab-wise existing and proposed tariff is as under:

TABLE 7-1 CATEGORY WISE SUMMARY OF EXISTING AND PROPOSED TARIFF

Consumer Category/ Sub-Category	Fixed Charges (Rs)	Energy Charges (Rs per kWh)	Fixed Charges (Rs)	Energy Charges (Rs per kWh)
	Payable		Payable	
	Existing Tariff		Proposed Tariff	
LMV-1: Domestic Light, Fan & Power				
Life Line Consumers (both Rural and Urban) (up to 100 kWh/month)	50	3.00	55	3.50
Dom: Rural Schedule (unmetered)	500		550	
Dom: Rural Schedule (metered) other than BPL				
0-100 kWh/month	90	3.35	100	4.35
101-150 kWh/month	90	3.85	100	4.85
151-300 kWh/month	90	5.00	100	6.00
Above 300 kWh/Month (Starting from 301 units)	90	5.50	100	7.00
Dom: Supply at Single Point for Bulk Load	110	7.00	120	8.50
Other Metered Domestic Consumers other than BPL				
0-100 kWh/month	110	5.50	120	6.50
101-150 kWh/month	110	5.50	120	6.50
151-300 kWh/month	110	6.00	120	7.00
Above 300 kWh/Month (Starting from 301 units)	110	6.50	120	8.00
LMV-2: Non Domestic Light, Fan & Power				
Non Dom: Rural Schedule (metered)	110	5.50	115	6.50
Non Dom: Other Metered Non-Domestic Supply				
Load upto 4 kW				
Upto 300 kWh / month	330	7.50	350	8.50
Above 300 kWh/Month	330	8.40	350	9.40
Above 4 kW				
Upto 1000 kWh / month	450	7.50	470	8.50
Above 1000 kWh/Month	450	8.75	470	9.75

Consumer Category/ Sub-Category	Fixed Charges (Rs)	Energy Charges (Rs per kWh)	Fixed Charges (Rs)	Energy Charges (Rs per kWh)
	Payable		Payable	
	Existing Tariff		Proposed Tariff	
LMV-3: Public Lamps				
Unmetered				
Unmetered - Gram Panchayat	2100	-	2200	-
Unmetered - Nagar Palika & Nagar Panchayat	3200	-	3300	-
Unmetered - Nagar Nigam	4200	-	4350	-
Metered				
Metered - Gram Panchayat	200	7.50	220	9.20
Metered - Nagar Palika & Nagar Panchayat	250	8.00	270	9.70
Metered - Nagar Nigam	250	8.50	270	10.20
LMV-4: Light, fan & Power for Institutions				
Inst: Public	300	8.25	330	9.90
Inst: Private	350	9.00	380	10.65
LMV-5: Private Tube Wells/ Pumping Sets				
Consumers getting supply as per "Rural Schedule"				
PTW: Rural Schedule (unmetered)	170	-	190	-
PTW: Rural Schedule (metered)	70	2.00	90	2.20
PTW: Rural Schedule (Energy Efficient Pumps) (metered)	70	1.65	90	1.80
Consumers getting supply as per "Urban Schedule (Metered Supply)"				
PTW: Urban Schedule (metered)	130	6.00	150	6.20
LMV 6: Small and Medium Power upto 100 HP (75 kW)				
Consumers getting supply as per "Rural Schedule"				
Up to 20 kW	268.3	6.75	287	7.91
Above 20 kW	268.3	6.75	287	7.91
Consumers getting supply other than "Rural Schedule"				
For load upto 20 kW	290	7.30	310	8.55
For load above 20 kW	290	7.30	310	8.55
LMV-7: Public Water Works				
Metered				
Rural	347	7.86	370	9.25
Urban	375	8.50	400	10.00
Unmetered				
Rural	3053		3237.5	-
Urban	3300		3500	-

Consumer Category/ Sub-Category	Fixed Charges (Rs)	Energy Charges (Rs per kWh)	Fixed Charges (Rs)	Energy Charges (Rs per kWh)
	Payable		Payable	
	Existing Tariff		Proposed Tariff	
LMV-9: Temporary Supply				
Metered				
Metered TS: Individual residential consumers	200	8.00	300	9.50
Metered TS: Others	300	9.00	400	10.50
Unmetered				
Unmetered TS: Ceremonies	4750		4750	-
Unmetered TS: Temp shops	560		560	-
LMV-11: Electrical Vehicles				
Multi Story Buildings				
LMV-1b		6.20	0	6.20
HV-1b		5.90	0	5.90
Public Charging Station				
LT		7.70		7.70
HT		7.30	0	7.30
-				
HV-1: Non-Industrial Bulk Loads				
Commercial Loads / Private Institutions / Non-Domestic Bulk Power with contracted Load 75 kW & above and getting supply at single point on 11 kV & above voltage level.				
Supply at 11 kV	430	8.32	450	9.57
Supply above 11 kV	400	8.12	425	9.37
Public Institutions, Registered Societies, Residential Colonies / Townships				
Supply at 11 kV	380	7.70	400	8.95
Supply above 11 kV	360	7.50	385	8.75
HV-2: Large and Heavy Power above 100 BHP (75 kW)				
HV2 Urban Schedule: Supply at 11 kV	300	7.10	330	8.30
HV2 Urban Schedule: Supply above 11 kV & upto 66 kV	290	6.80	315	8.00
HV2 Urban Schedule: Supply above 66 kV & upto 132 kV	270	6.40	295	7.60
HV2 Urban Schedule: Supply above 132 kV	270	6.10	295	7.30
HV2 Rural Schedule: Supply at 11 kV	277.5	6.57	305.25	7.68

Consumer Category/ Sub-Category	Fixed Charges (Rs)	Energy Charges (Rs per kWh)	Fixed Charges (Rs)	Energy Charges (Rs per kWh)
	Payable		Payable	
	Existing Tariff		Proposed Tariff	
HV-3: Railway Traction				
HV3 Railway Traction (at, below and above 132 kV)	400	8.50	440	9.90
HV3 Metro Traction (at, below and above 132 kV)	300	7.30	330	8.70
HV-4: Lift Irrigation & P. Canals above 100 BHP (75 kW)				
HV4 Supply at 11kV	350	8.50	375	9.95
HV4 Supply above 11kV & upto 66kV	340	8.40	370	9.85
HV4 Supply above 66 kV & upto 132kV	330	8.25	365	9.70

7.1.4. The consolidated details of Revenue from proposed tariff is as under:

TABLE 7-2 CATEGORY WISE CONSOLIDATED REVENUE FROM PROPOSED TARIFF

Consumer Category/ Sub-Category	Revenue (Rs. In Crore)
LMV-1: Domestic Light, Fan & Power	44,643
LMV-2: Non Domestic Light, Fan & Power	9,275
LMV-3: Public Lamps	949
LMV-4: Light, fan & Power for Institutions	1,632
LMV-5: Private Tube Wells/ Pumping Sets	12,088
LMV 6: Small and Medium Power upto 100 HP (75 kW)	3,833
LMV-7: Public Water Works	5,763
LMV-9: Temporary Supply	306
LMV-10: Departmental Employees	361
LMV-11: Electrical Vehicles	16
HV-1: Non-Industrial Bulk Loads	4,701
HV-2: Large and Heavy Power above 100 BHP (75 kW)	13,112
HV-3: Railway Traction	130
HV-4: Lift Irrigation & P. Canals above 100 BHP (75 kW)	786
Extra State Consumer	18
Bulk Supply Consumer	1,014
Grand Total	98,628

TABLE 7-3 REQUIREMENT FOR TARIFF INCREASE AND REVENUE GAP

Particulars	(Rs. In Crore)
Revenue Gap for FY 2021-22 (True-up)*	1,922
Revenue Gap for FY 2023-24 (ARR)	9,142
Total Gap	11,064
Revenue from increase in Tariff	11,064

*True-up gap without carrying cost

7.1.5. The detailed Rate Schedule for FY 2023-24 as proposed by the Petitioner is as under:

RATE SCHEDULE FOR FY 2023-24**(Proposed for DVVNL, MVVNL, PVVNL, PuVVNL and KESCO)****GENERAL PROVISIONS:**

These provisions shall apply to all categories unless specified otherwise and are integral part of the Rate Schedule.

1. NEW CONNECTIONS:

All new connections shall be given in kW, kVA, or BHP as agreed to be supplied by the Licensee. Further, if the contracted load (kW / kVA) of already existing consumer is in fractions then the same shall be treated as next higher kW / kVA load. If the contracted load is in kW and is being converted into kVA, the conversion factor of 0.90 will be used ($kVA = kW / 0.90$) for tariff application purposes and the same shall be rounded off up to two decimal places.

2. READING OF METERS:

As per applicable provisions of Electricity Supply Code 2005 and its amendments.

3. BILLING WHEN METER IS NOT MADE ACCESSIBLE:

A penalty of Rs. 50.00 / kW or as decided by the Commission through an Order shall be levied for the purposes of Clause 6.2 (c) of the applicable Electricity Supply Code 2005 and its amendments.

4. BILLING IN CASE OF DEFECTIVE METERS:

As per the applicable provisions of Electricity Supply Code 2005 and its amendments.

5. kVAh TARIFF:

'kVAh based tariffs' shall be applicable on all consumers having contracted load of 10 kW / 13.4 BHP and above, under different categories with TVM / TOD / Demand recording meters (as appropriate).

The rates prescribed in different categories in terms of kW and kWh will be converted into appropriate kVA and kVAh by multiplying Fixed / Demand Charges and Energy Charges by an average power factor of 0.90. Similarly, the Fixed / Demand Charges expressed in BHP can be converted into respective kVA rates in accordance with formula given below:

$$\text{Fixed Charges in kVA} = (\text{Fixed Charges in BHP} / 0.746) * 0.90$$

$$\text{Fixed Charges in kVA} = (\text{Fixed Charges in kW} * 0.90)$$

$$\text{Energy Charges in kVAh} = (\text{Energy Charges in kWh} * 0.90)$$

The converted rates (i.e. Energy charge in Rs. / kVAh and Fixed / Demand charges in Rs. / kVA) will be rounded up to two decimal places.

Further, for converting energy slabs of different categories specified in kWh to kVAh, average power factor of 0.90 will be used as a converting factor for converting each

energy slab (specified in kWh) into energy slabs (in kVAh). The converted energy slabs (in kVAh) will be rounded to next higher kVAh.

Note 1: In case of kVAh billing only kVAh reading will be used for billing purpose.

Note 2: If the average power factor of a consumer in a billing cycle is leading and is within the range of 0.95 - 1.00, then for tariff application purposes such leading power factor shall be treated as unity. The bills of such consumers shall be prepared on kwh basis. However, if the leading power factor is below 0.95 (lead) then the consumer shall be billed as per the kVAh reading indicated by the meter. However, the aforesaid provision of treating power factor below 0.95 (lead) as the commensurate lagging power factor, for the purposes of billing, shall not be applicable on HV-3 category and shall be treated as unity. Hence, for HV-3, "lag only" logic of the meter should be used which blocks leading kVArh.

6. BILLABLE LOAD / DEMAND:

For all consumers having TVM / TOD / Demand recording meters installed, the billable load / demand during a month shall be the actual maximum load / demand as recorded by the meter (can be in parts of kW or kVA) or 75% of the contracted load / demand (kW or kVA), whichever is higher.

In case the Licensee's meter reader does not note the actual maximum load / demand, then the Licensee will raise the bill at 75% of the contracted load and in cases where the consumer approaches the Licensee with a meter reading but does not provide the proof of actual maximum load / demand displayed on his meter, then in such case the Licensee will raise the bill at 100% of the contracted load.

Further in case a consumer feels that his maximum load / demand reading has been noted wrong, the consumer may approach the licensee with a photo of the actual maximum load / demand reading displayed on his meter of the concerned month. The Licensee shall accept the same for the purpose of computation of billable demand, however if the Licensee wishes to, it can get the same verified within 5 days.

7. SURCHARGE / PENALTY:

I. DELAYED PAYMENT: If a consumer fails to pay his electricity bill by the due date specified therein, a late payment surcharge shall be levied at 1.25% on the dues (excluding late payment surcharge) per month; up-to first three months of delay and subsequently at 2.00% on the dues (excluding late payment surcharge) per month of delay. Late payment surcharge shall be calculated proportionately for the number of days for which the payment is delayed beyond the due date specified in the bill and levied on the unpaid amount of the bill excluding delayed payment surcharge. Imposition of this surcharge is without prejudice to the right of the Licensee to disconnect the supply or take any other measure permissible under the law.

II. CHARGES FOR EXCEEDING CONTRACTED DEMAND:

a. If the maximum load / demand in any month of a domestic consumer having TVM / TOD / Demand recording meter exceeds the contracted load / demand, then such excess load / demand shall be levied equal to 100% of the normal rate apart from

the normal fixed / demand charge as per the maximum load / demand recorded by the meter. Further, if the consumer is found to have exceeded the contracted load / demand for continuous previous three months, the consumer shall be served a notice of one month advising him to get the contracted load enhanced as per the provisions of the Electricity Supply Code, 2005 and amendments thereof. However, the consumer shall be charged for excess load for the period the load is found to exceed the contracted load. The Licensee shall merge the excess load with the previously sanctioned load, and levy additional charges calculated as above, along with additional security. Subsequent action regarding the increase in contracted load, or otherwise shall be taken only after due examination of the consumer's reply to the notice and a written order in this respect by the Licensee.

- b. If the maximum load / demand in any month, for the consumers of other category (except (a) above) having TVM / TOD / Demand recording meter exceeds the contracted load / demand, then such excess load / demand shall be levied equal to 200% of the normal rate apart from the normal fixed / demand charges as per the maximum load / demand recorded by the meter.
- c. Any surcharge / penalty shall be over and above the minimum charge, if the consumption bill of the consumer is being prepared on the basis of minimum charge.
- d. Provided where no TVM / TOD / Demand recording meter is installed, the excess load / demand charge shall be levied as per the Electricity Supply Code, 2005 as amended from time to time.

8. POWER FACTOR SURCHARGE:

- I. Power factor surcharge shall not be levied where consumer is being billed on kVAh consumption basis.
- II. It shall be obligatory for all consumers to maintain an average power factor of 0.90 or more during any billing period. No new connections of motive power loads / inductive loads above 3 kW, other than under LMV-1 and LMV-2 category, and / or of welding transformers above 1 kVA shall be given, unless shunt capacitors having I.S.I specifications of appropriate ratings are installed, as described in - 'LIST OF POWER FACTOR APPARATUS' of annexed to this Rate Schedule.
- III. In respect of the consumers with or without TVM / TOD / Demand recording meters, excluding consumers under LMV-1 category up to contracted load of 10 kW and LMV-2 category up to contracted load of 5 kW, if on inspection it is found that capacitors of appropriate rating are missing or in-operational and Licensee can prove that the absence of capacitor is bringing down the power factor of the consumer below the obligatory norm of 0.90; then a surcharge of 15% on the 'RATE' shall be levied on such consumers. The Licensee may also initiate action under the relevant provisions of the Electricity Act, 2003, as amended from time to time.
- IV. Notwithstanding anything contained above, the Licensee also has a right to disconnect the power supply, if the power factor falls below 0.75.
- V. Power factor surcharge shall however, not be levied during the period of disconnection on account of any reason whatsoever.

9. ROUNDING OFF:

All bills will be rounded off to the nearest rupee i.e. up to 49 paise shall be rounded down to previous rupee and 50 paise upwards shall be rounded up to next rupee. The difference due to such rounding shall be adjusted in subsequent bills.

10. OPTION OF MIGRATION TO HV-1 & HV-2 CATEGORY:

The consumer under LMV-2 and LMV-4 with contracted load above 50 kW and getting supply at 11 kV & above voltage shall have an option to migrate to the HV-1 category and LMV-6 consumers with contracted load above 50 kW and getting supply at 11 kV & above voltage shall have an option to migrate to the HV-2 category. Furthermore, the consumers shall have an option of migrating back to the original category on payment of charges prescribed in Cost Data Book for change in voltage level.

11. PRE-PAID METERS / AUTOMATIC METER READING SYSTEM: Any consumer having prepaid meters shall also be entitled to a discount of 2.00 % on the 'RATE' as defined in the Tariff Order.

The token charges for code generation for prepaid meters shall be Rs. 10.00/- per token or as decided by the Commission from time to time.

12. CONSUMERS NOT COVERED UNDER ANY RATE SCHEDULE OR EXPRESSLY EXCLUDED FROM ANY CATEGORY:

For consumers of light, fan & power (excluding motive power loads) not covered under any rate schedule or expressly excluded from any LMV rate schedule will be categorized under LMV-2.

A consumer under metered category may undertake any extension work, in the same premises, on his existing connection without taking any temporary connection as long as his demand does not exceed his contracted demand and the consumer shall be billed in accordance with the tariff applicable to that category of consumer.

13. REBATE ON PAYMENT ON OR BEFORE DUE DATE:

A rebate at the rate of 1.00 % on the 'RATE' shall be given in case the payment is made on or before the due date. However, a rebate at the rate of 5.00% on the 'RATE' shall be given to LMV-5 (Rural) (i.e. PTW Rural Category Agricultural Consumers) category of electricity consumers in case the payment is made on or before the due date. The consumers having any arrears in the bill shall not be entitled for this rebate. The consumers who have made advance deposit against their future monthly energy bills shall also be eligible for the above rebate applicable on the 'RATE'.

14. SCHEME FOR ADVANCE DEPOSIT FOR FUTURE MONTHLY ENERGY BILLS:

If a consumer intends to make advance deposit against his future monthly energy bills, the Licensee shall accept such payment and this amount shall be adjusted only towards his future monthly energy bills. On such advance deposit the consumers shall be paid interest, at the interest rate applicable on security deposit, for the period during which advance exists for each month on reducing balance method and amount so accrued shall be adjusted in the electricity bills which shall be shown separately in the bill of

each month. Further, quarterly report regarding the same must be submitted to the Commission.

15. FACILITATION CHARGE FOR ONLINE PAYMENT:

No transaction charge shall be collected from the consumers making their payment through internet banking.

The Licensees shall bear the transaction charges for transactions up to Rs. 4,000.00 for payment of bill through internet using Credit Card / Debit Card.

16. MINIMUM CHARGE:

Minimum charge is the charge in accordance with the tariff in force from time to time and come into effect only when sum of Fixed / Demand Charges and Energy Charges are less than a certain prescribed amount i.e. Minimum Charges. For each month, consumer will pay an amount that is higher of the following:

Fixed / Demand Charges (if any) plus Energy Charge on the basis of actual consumption for the month and additional charges such as Electricity Duty, Regulatory Surcharges, Fuel Surcharges and any other charges as specified by the Commission from time to time.

Monthly minimum charge as specified by the Commission and computed at the contracted load and additional charges such as Electricity Duty, Regulatory Surcharges, Fuel Surcharges and any other charges as specified by the Commission from time to time.

17. INTEREST ON DUES PAYABLE TO CONSUMER BY THE LICENSEE:

If a consumer becomes eligible for dues from the Licensee which may arise out of rectification / adjustment / settlement of bill(s), then such consumer will also be entitled to get interest at rate applicable for interest on security deposits on all the dues payable by the Licensee to the consumer. The Licensee shall compute the interest amount for the period during which such pending amounts exists and adjust such interest towards the future monthly bills of consumers. After adjustment of the interest amount in a particular month, the balance amount, will be carried forward to next month for adjustment with interest on balance amount. The details of such interest amount and adjustment made during the month shall be shown separately in the bill. Further, separate accounting of interest paid must be maintained by the Licensees.

18. DEFINITION OF RURAL SCHEDULE:

Rural Schedule means supply schedule as defined and notified by State Load Despatch Centre (SLDC), Lucknow from time to time.

19. GREEN ENERGY TARIFF:

- a) The Commission had computed the Green Energy Tariff payable by opting consumers as Rs. 0.54 per kWh.

- b) This Tariff will be applicable for all the opting consumers except domestic and agriculture consumers. This Tariff will be in addition to the regular Tariff as approved by the Commission.
- c) However, such consumption cannot be taken into consideration in the RPO fulfilment of such consumers if any.
- d) The consumer can request for opting out, however the same shall only be come into force after the issuance of Commission's next Tariff Order.
- e) Further, the Licensees will display the same separately in the bill as well as in the receipt of such consumers who opted for Green Energy Tariff, in addition to the Fixed / Demand Charges and Energy Charges. They will also keep a separate account for this tariff and separate item in their annual financial statements and provide the full details to the Commission every year along with the tariff filings.

RETAIL TARIFFS FOR FINANCIAL YEAR 2023-24**RATE SCHEDULE LMV – 1: DOMESTIC LIGHT, FAN & POWER:****1. APPLICABILITY:**

This schedule shall apply to:

Premises for residential / domestic purpose, Accommodation for Paying Guests for Domestic purpose (Excluding Guest Houses), Janata Service Connections, Kutir Jyoti Connections, Jhuggi / Hutments, Places of Worship (e.g. Temples, Mosques, Gurudwaras, Churches) and Electric Crematoria, Shelter Homes, orphanages, old age homes, Institutions run for mentally retarded and forsaken children. Non-commercial places occupied by religious persons, of any religion, are also entitled in this category, for a maximum load up to 5 kW, subject to the condition that such non-commercial place shall have a valid registration/recognition from a charitable trust.

Mixed Loads**i. 50 kW and above**

a. Registered Societies, Residential Colonies / Townships, Residential Multi-Storied Buildings with mixed loads (getting supply at single point) with the condition that at least 70% of the total contracted load shall be exclusively for the purposes of domestic light, fan and power. The above mixed load, within 70%, shall also include the load required for lifts, water pumps and common lighting,

b. Military Engineer Service (MES) for Defence Establishments (Mixed load without any load restriction).

Less than 50 kW

Except for the case as specified in Regulation 3.3 (e) of Electricity Supply Code, 2005 as amended from time to time, if any portion of the load is utilized for conduct of business for non-domestic purposes, then the entire energy consumed shall be charged under the rate schedule of higher charge.

2. CHARACTER AND POINT OF SUPPLY:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE:

Rate, gives the fixed and energy charges at which the consumer shall be billed during the billing period applicable to the category:

(a) Consumers getting supply as per 'Rural Schedule':

Lifeline consumers: Consumers with contracted load upto 1 kW, energy consumption up to 100 kWh / month.

Description	Tariff Excluding Subsidy		As per the Hon'ble UPERC Order for FY 2022-23. The Same shall be updated based on the subsidy declared by the GoUP for FY 2023-24		Tariff Payable	
	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge
	A	B	A1	B1	= A - A1	= B - B1
Load upto 1 kW and for consumption up to 100 kWh / month	Rs. 55.00 / kW / month	Rs. 7.00/ kWh	-	Rs. 3.50 / kWh	Rs. 50.00 / kW / month	Rs. 3.50 / kWh

Others: Other than Lifeline consumers (i.e. consumers who do not qualify under the criteria laid above for lifeline consumers)

Description	Tariff Excluding Subsidy		As per the Hon'ble UPERC Order for FY 2022-23. The Same shall be updated based on the subsidy declared by the GoUP for FY 2023-24		Tariff Payable	
	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge
	A	B	A1	B1	= A - A1	= B - B1
i) Un-Metered	Rs. 985.00 / kW / month	-	Rs. 435.00 / kW / month	-	Rs. 550.00 / kW / month	-

Description	Consumption Range	Tariff Excluding Subsidy		As per the Hon'ble UPERC Order for FY 2022-23. The Same shall be updated based on the subsidy declared by the GoUP for FY 2023-24		Tariff Payable	
		Fixed Charge	Energy Charge	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge
		A	B	A1	B1	= A - A1	= B - B1
ii) Metered	Upto 100 kWh / month	Rs. 100.00/ kW / month	Rs. 7.50 / kWh	-	Rs. 3.15 / kWh	Rs. 90.00/ kW / month	Rs. 4.35 / kWh
	101 - 150 kWh / month		Rs. 7.50 / kWh		Rs. 2.65 / kWh		Rs. 4.85 / kWh
	151 - 300 kWh / month		Rs. 7.50/ kWh		Rs. 1.50/ kWh		Rs. 6.00 / kWh
	Above 300 kWh / month		Rs. 8.00 / kWh		Rs. 1.00/ kWh		Rs. 7.00 / kWh

(b) Supply at Single Point for bulk loads (50 kW and above, Supplied at any Voltage):

Description	Fixed Charge	Energy Charge
For Townships, Registered Societies, Residential Colonies, multi-storied residential complexes (including lifts, water pumps and common lighting within the premises) with loads 50 kW and above with the restriction that at least 70% of the total contracted load is meant exclusively for the domestic light, fan and power purposes and for Military Engineer Service (MES) for Defence Establishments (Mixed load without any load restriction).	Rs. 120.00 / kW / Month	Rs. 8.50 / kWh

The body seeking the supply at Single point for bulk loads under this category shall be considered as a deemed franchisee of the Licensee.

The deemed franchisee is required to provide to all its consumers and the licensee, a copy of the detailed computation of the details of the amounts realized from all the individual consumers and the amount paid to the licensee for every billing cycle on half yearly basis. If he fails to do so, then the consumers may approach the Consumer Grievance Redressal Forum (CGRF) having jurisdiction over their local area for the redressal of their grievances.

The deemed franchisee shall arrange to get its account(s) audited by a Chartered Accountant mandatorily. The audited accounts will be made available to all the consumers of the deemed franchisee within 3 months of the closure of that financial year. If he fails to do so, then the consumers may approach the Consumer Grievance Redressal Forum (CGRF) having jurisdiction over their local area for the redressal of their grievances.

The deemed franchisee should separately meter the electricity supplied from back up arrangements like DG sets etc. The bill of its consumers should clearly depict the units and rate of electricity supplied through back up arrangement and electricity supplied through Licensee.

The deemed franchisee shall not disconnect the supply of electricity of its consumers on the pretext of defaults in payments related to other charges except for the electricity dues regarding the electricity consumed by its consumers and electricity charges for lift, water lifting pump, streetlight if any, corridor / campus lighting and other common facilities.

In case the deemed franchisee exceeds the contracted load / demand under the provisions of Clause 7(ii) – ‘Charges for Exceeding Contracted demand’ of the General Provisions of this Rate Schedule, only in such case the deemed franchisee will recover the same from the individual members who were responsible for it on the basis of their individual excess demands.

(c) OTHER METERED DOMESTIC CONSUMERS:

Lifeline Consumers: Consumers with contracted load of 1 kW, energy consumption up to 100 kWh / month.

Description	Tariff Excluding Subsidy		As per the Hon'ble UPERC Order for FY 2022-23. The Same shall be updated based on the subsidy declared by the GoUP for FY 2023-24		Tariff Payable	
	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge
	A	B	A1	B1	= A - A1	= B - B1
Load upto 1 kW and for consumption up to 100 kWh / month	Rs. 55.00 / kW / month	Rs. 7.00 / kWh	-	Rs. 3.50 / kWh	Rs. 55.00 / kW / month	Rs. 3.50 / kWh

Others: Other than Lifeline consumers (i.e. consumers who do not qualify under the criteria laid above for lifeline consumers).

Description	Consumption Range	Tariff Excluding Subsidy		Cross Subsidy		Tariff Payable	
		Fixed Charge	Tariff Excluding Subsidy	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge
		A	B	A1	B1	= A - A1	= B - B1
Metered	Upto 100 kWh / month	Rs. 120.00 / kW / month	Rs. 7.50 / kWh	-	Rs. 1.00 / kWh	Rs. 120.00 / kW / month	Rs. 6.50 / kWh
	101 - 150 kWh / month		Rs. 7.50 / kWh		Rs. 1.00 / kWh		Rs. 6.50 / kWh
	151- 300 kWh / month		Rs. 7.50 / kWh		Rs. 0.50 / kWh		Rs. 7.00 / kWh
	Above 300 kWh / month		Rs. 8.00 / kWh		-		Rs. 8.00 / kWh

Note: For all consumers under this category the maximum demand during the month recorded by the meter has to be essentially indicated in their monthly bills. However, this condition would be mandatory only in case meter reading is done by the Licensee. Accordingly, if the bill is being prepared on the basis of reading being submitted by the consumer, then the consumer would not be liable to furnish maximum demand during the month and his bill would not be held back for lack of data of maximum demand.

RATE SCHEDULE LMV – 2: NON - DOMESTIC LIGHT, FAN AND POWER:**1. APPLICABILITY:**

This schedule shall apply to all consumers using electric energy for Light, Fan and Power loads for Non-Domestic purposes, like all type of Shops including Patri Shopkeepers, Hotels, Restaurants, Private Guest Houses, Private Transit Hostels, Private Students Hostels, Marriage Houses, Show-Rooms, Commercial / Trading Establishments, Cinema and Theatres, Banks, Cable T.V. Operators, Telephone Booths / PCO (STD / ISD), Fax Communication Centres, Photo Copiers, Cyber Café, Private Diagnostic Centres including X-Ray Plants, MRI Centres, CAT Scan Centres, Pathologies and Private Advertising / Sign Posts / Sign Boards, Commercial Institutions / Societies, Automobile Service Centres, Coaching Institutes, Private Museums, Power Looms with less than 5 kW load and for all companies registered under the Companies Act, 1956 with loads less than 75 kW.

2. Character and Point of Supply:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE:

Rate, gives the fixed and energy charges at which the consumer shall be billed during the billing period applicable to the category:

(a) Consumers getting supply as per ‘Rural Schedule’:

Description	Tariff Excluding Subsidy		Cross Subsidy		Tariff Payable	
	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge
	A	B	A1	B1	= A - A1	= B - B1
Metered	Rs. 115.00 / kW / month	Rs. 7.50 / kWh	-	Rs. 1.00 / kWh	Rs. 115.00 / kW / month	Rs. 6.50 / kWh

In all other cases, including urban consumers and consumers getting supply through rural feeders but exempted from scheduled rostering / restrictions or through co-generating radial feeders in villages / towns.

Contracted Load	Fixed Charge	Consumption Range	Energy Charge
Up to 4 kW	Rs. 350.00 / kW / month	Upto 300 kWh / month	Rs. 8.50 / kWh
		Above 300 kWh / month	Rs. 9.40 / kWh
Above 4 kW	Rs. 470.00 / kW / month	Upto 1000 kWh / month	Rs. 8.50 / kWh
		Above 1000 kWh / month	Rs. 9.75 / kWh

* Minimum charge payable by a consumer under the category “(b) In all other cases “shall be Rs. 600.00 / kW / month (From April to September) and Rs. 475.00 / kW / month (From October to March).

Note: For all consumers under this category the maximum demand during the month recorded by the meter has to be essentially indicated in their monthly bills. However, this condition would be mandatory only in case meter reading is done by the Licensee. Accordingly, if the bill is being prepared on the basis of reading being submitted by the consumer, then the consumer would not be liable to furnish maximum demand during the month and his bill would not be held back for lack of data on maximum demand.

4. REBATE TO POWER LOOMS:

Rebate to Power Loom consumers shall be provided in accordance with the applicable Government orders subject to adherence of provision of advance subsidy.

RATE SCHEDULE LMV - 3: PUBLIC LAMPS:**1. APPLICABILITY:**

This schedule shall apply to Public Lamps including Street Lighting System, Road Traffic Control Signals, Lighting of Public Parks, etc. The street lighting in Harijan Bastis and Rural Areas are also covered by this rate schedule.

2. CHARACTER AND POINT OF SUPPLY:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE:

Rate gives the fixed and energy charges (including the TOD rates as applicable to the hour of operation) at which the consumer shall be billed during the billing period applicable to the category:

Un-metered Supply:

Description	Gram Panchayat	Nagar Palika and Nagar Panchayat	Nagar Nigam
To be billed on the basis of total connected load calculated as the summation of individual points.	Rs. 2200.00 / kW or part thereof per month	Rs. 3300.00 / kW or part thereof per month	Rs. 4350.00 / kW or part thereof per month

Metered Supply:

Description	Gram Panchayat		Nagar Palika and Nagar Panchayat		Nagar Nigam	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
Metered	Rs. 220.00 / kW / month	Rs. 9.20 / kWh	Rs. 270.00 / kW / month	Rs. 9.70 / kWh	Rs. 270.00 / kW / month	Rs. 10.20 / kWh

TOD Rates applicable for the metered supply (% of Energy Charges):

18:00 hrs – 06:00 hrs	0%
06:00 hrs – 18:00 hrs	(+) 20%

4. For 'Maintenance Charges', 'Provision of Lamps' and 'Verification of Load' Point refer to 'PUBLIC LAMPS' annexed to this Rate Schedule.

RATE SCHEDULE LMV – 4: LIGHT, FAN & POWER FOR PUBLIC INSTITUTIONS AND PRIVATE INSTITUTIONS:

1. APPLICABILITY:

Applicable for load less than 75 kW.

LMV- 4 (A) - PUBLIC INSTITUTIONS:

This schedule shall apply to:

(a) Government Hospitals / Government Research Institutions / Offices of the Government Organizations other than companies registered under Companies Act 1956.

(b) Government & Government aided (i) Educational Institutions (ii) Hostels (iii) Libraries.

Religious and charitable trusts & Institutions having a valid registration under Section 12 AA & 80 G issued by the Income Tax department including hospitals, colleges and those providing services free of cost or at the charges / structure of charges not exceeding those in similar Government operated institutions.

Railway Establishments (excluding railway traction, industrial premises & Metro) such as Booking Centres, Railway Stations & Railway Research and Development Organization, Railway rest houses, Railway holiday homes, Railway inspection houses.

All India Radio and Doordarshan.

Guest houses of Government, Semi-Government, Public Sector Undertaking Organisations.

LMV-4 (B) - PRIVATE INSTITUTIONS:

This schedule shall apply to non-Government hospitals, nursing homes / dispensaries / clinics, private research institutes, and schools / colleges / educational institutes & charitable institutions / trusts not covered under (A) above.

2. CHARACTER AND POINT OF SUPPLY:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE:

Rate, gives the fixed and energy charges at which the consumer shall be billed during the billing period applicable to the category:

Description	Fixed Charge	Energy Charge
(A) For Public Institutions	Rs. 330.00 / kW / month	Rs. 9.90 / kWh
(B) For Private Institutions	Rs. 380.00 / kW / month	Rs. 10.65 / kWh

RATE SCHEDULE LMV – 5: SMALL POWER FOR PRIVATE TUBE WELLS / PUMPING SETS FOR IRRIGATION PURPOSES:

1. APPLICABILITY:

This schedule shall apply to all power consumers getting supply as per Rural / Urban Schedule for Private Tube-wells / Pumping Sets for irrigation purposes having a contracted load up to 25 BHP and for additional agricultural processes confined to Chaff-Cutter, Thresher, Cane Crusher and Rice Huller. This schedule shall also be applicable for separate PTW connection for registered Goshalas for load up to 5 BHP having separate light and fan connection with the condition that such Gaushala – Cow shed shall not be used for commercial purpose. All new connections under this category shall necessarily have the ISI marked energy efficient mono-bloc pump sets with capacitors of adequate rating to qualify for the supply. All existing pump sets shall be required to install capacitors of adequate rating.

2. CHARACTER AND POINT OF SUPPLY:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE:

Rate gives the fixed and energy charges at which the consumer shall be billed during the billing period applicable to the category:

For consumers getting supply as per Rural Schedule:

(i) Un-metered Supply :

Description	Tariff Excluding Subsidy		As per the Hon'ble UPERC Order for FY 2022-23. The Same shall be updated based on the subsidy declared by the GoUP for FY 2023-24		Tariff Payable	
	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge	Fixed Charge	Energy Charge
	A	B	A1	B1	= A - A1	= B - B1
Un-Metered	Rs. 740.00 / BHP / month	-	Rs. 550.00 / BHP / month	-	Rs. 190.00 / BHP / month	-

* Consumer under this category will be allowed a maximum lighting load of 120 watts

(ii) Metered Supply :

Description	Tariff Excluding Subsidy			As per the Hon'ble UPERC Order for FY 2022-23. The Same shall be updated based on the subsidy declared by the GoUP for FY 2023-24			Tariff Payable		
	Fixed Charge	Minimum Charge Payable	Energy Charge	Fixed Charge	Minimum Charge Payable	Energy Charge	Fixed Charge	Minimum Charge Payable	Energy Charge
	A	B	C	A1	B1	C1	= A - A1	= B - B1	= C - C1
Metered	Rs. 640.00 / BHP / month	Rs. 710.00 / BHP / month	Rs. 6.70 / kWh	Rs. 550.00 / BHP / month	Rs. 550.00 / BHP / month	Rs. 4.50 / kWh	Rs. 90.00 / BHP / month	Rs. 160.00 / BHP / month	Rs. 2.20 / kWh

Note: Minimum amount payable by a consumer under the category "Rural Schedule (Metered Supply) shall be Rs. 160.00 per BHP per month, till the installation of the meter. Regulatory Surcharge, Duty, Taxes etc. will be payable extra.

(iii) Energy Efficient Pumps :

Description	Tariff Excluding Subsidy			As per the Hon'ble UPERC Order for FY 2022-23. The Same shall be updated based on the subsidy declared by the GoUP for FY 2023-24			Tariff Payable		
	Fixed Charge	Minimum Charge Payable	Energy Charge	Fixed Charge	Minimum Charge Payable	Energy Charge	Fixed Charge	Minimum Charge Payable	Energy Charge
	A	B	C	A1	B1	C1	= A - A1	= B - B1	= C - C1
Metered	Rs. 640.00 / BHP / month	Rs. 690.00 / BHP / month	Rs. 6.65 / kWh	Rs. 550.00 / BHP / month	Rs. 550.00 / BHP / month	Rs. 4.85 / kWh	Rs. 90.00 / BHP / month	Rs. 140.00 / BHP / month	Rs. 1.80 / kWh

Note: Minimum amount payable by a consumer under the category "Rural Schedule (Energy Efficient Pumps) shall be Rs. 140.00 per BHP per month, till the installation of the meter. Regulatory Surcharge, Duty, Taxes etc. will be payable extra

For consumers getting supply as per Urban Schedule (Metered Supply) including consumers getting supply through rural feeders exempted from scheduled rostering or through co-generating radial feeders in villages and towns.

Description	Tariff Excluding Subsidy			Cross Subsidy			Tariff Payable		
	Fixed Charge	Minimum Charge Payable	Energy Charge	Fixed Charge	Minimum Charge Payable	Energy Charge	Fixed Charge	Minimum Charge Payable	Energy Charge
	A	B	C	A1	B1	C1	= A - A1	= B - B1	= C - C1
Metered	Rs. 150.00 / BHP / month	Rs. 215.00 / BHP / month	Rs. 6.70 / kWh	-	-	Rs. 0.50 / kWh	Rs. 150.00 / BHP / month	Rs. 215.00 / BHP / month	Rs. 6.20 / kWh

Note: Minimum amount payable by a consumer under the category "Urban Schedule (Metered Supply) shall be Rs. 215.00 per BHP per month, till the installation of the meter. Regulatory Surcharge, Duty, Taxes etc. will be payable extra.

For PTW consumers of Bundelkhand Area located in Gram Sabha, the minimum amount payable by a consumer shall be Rs. 170.00 per BHP per month, till the installation of the meter. Regulatory Surcharge, Duty, Taxes etc. will be payable extra.

Provision Related to Single Crop Consumers of Bundelkhand Area:

This shall apply to all consumers of Bundelkhand area getting supply as per Rural / Urban Schedule for Private Tube-wells / Pumping Sets for irrigation purposes.

Only such consumers who use electrical pumps for irrigation purpose during the period from November to February, in a financial year, only will be entitled for the benefit of these seasonal tariffs. The other conditions for availing the benefit of seasonal tariff shall be as under:

In a Financial year, the continuous period of operation of such consumers shall in no case be more than 4 months i.e. from November to February.

Any consumer, desirous of availing this benefit, shall specifically declare his option of availing benefit of seasonal tariffs at the divisional office, which will be duly incorporated in the agreement as well as in the billing system.

For the off-season period i.e. period of 8 months depending upon the declaration of the consumer, metered consumers opting for seasonal use will get a discount of 75% on the normal monthly Fixed Charges or Minimum Charges as applicable. In case of consumers

under Rural Schedule, such Fixed Charges or Minimum Charges shall be Tariff Payable as provided in Rate Schedule for LMV – 5(A). In case of consumers under Urban Schedule the Fixed Charges or Minimum Charges shall be as provided in Rate Schedule for LMV – 5 (B).

Similarly, Un-Metered consumer opting for seasonal use will get a discount of 50% on the monthly Fixed Charges or Minimum Charges, as applicable for the off-season period of 8 months. In case of consumers under Rural Schedule, such Fixed Charges or Minimum Charges shall be Tariff Payable as provided in Rate Schedule for LMV – 5(A). In case of consumers under Urban Schedule the Fixed Charges or Minimum Charges shall be as provided in Rate Schedule for LMV – 5 (B).

During the period of off-season, the consumer will not be allowed to use electricity from this connection for any purpose. In case of default the consumers would be penalized by charging 50% higher than the normally applicable tariff (Fixed and Energy Charges or Minimum Charges, whichever is higher), for the complete period for which he has availed the seasonal benefit. In that case seasonal benefit for rest of the off-season period shall be forfeited. In case of consumers under Rural Schedule, such Fixed Charges or Minimum Charges shall be Tariff Payable as provided in Rate Schedule for LMV – 5(A). In case of consumers under Urban Schedule the Fixed Charges or Minimum Charges shall be as provided in Rate Schedule for LMV – 5 (B).

RATE SCHEDULE LMV – 6: SMALL AND MEDIUM POWER:

1. APPLICABILITY: This schedule shall apply to all consumers of electrical energy having a contracted load less than 100 HP (75 kW) for industrial / processing or agro-industrial purposes, power loom (load of 5 kW and above) and to other power consumers, not covered under any other rate schedule. Floriculture, Mushroom and Farming units with contracted load less than 100 BHP (75kW) shall also be covered under this rate schedule. This schedule shall also apply to pumping sets above 25 BHP.

2. CHARACTER AND POINT OF SUPPLY:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE: Rate, gives the fixed and energy charges (including the TOD rates as applicable to the hour of operation) at which the consumer shall be billed during the billing period applicable to the category:

Consumers getting supply other than Rural Schedule:

Contracted Load	Fixed Charge	Energy Charge
Upto 20 kW	Rs. 310.00 / kW / month	Rs. 8.55 / kWh
Above 20 kW	Rs. 310.00 / kW / month	Rs. 8.55 / kWh

TOD Structure:**Summer Months (April to September)**

Hours	% of Energy Charges
05:00 hrs – 11:00 hrs	(-) 15%
11:00 hrs – 17:00 hrs	0%
17:00 hrs – 23:00 hrs	(+) 15%
23:00 hrs – 05:00 hrs	0%

Winter Months (October to March)

Hours	% of Energy Charges
05:00 hrs – 11:00 hrs	0%
11:00 hrs – 17:00 hrs	0%
17:00 hrs – 23:00 hrs	(+) 15%
23:00 hrs – 05:00 hrs	(-) 15%

(B) Consumers getting supply as per Rural Schedule:

The consumer under this category shall be entitled to a rebate of 7.5% on 'RATE (Excluding the TOD rates as applicable to the hour of operation)' as given for 'Consumers getting supply other than Rural Schedule'. Further, no 'TOD RATE' shall be applicable for this category.

4. PROVISIONS RELATED TO SEASONAL INDUSTRIES:

Seasonal industries will be determined in accordance with the criteria laid down below. No exhaustive list can be provided but some examples of industries exhibiting such characteristics are sugar, ice, rice mill, kolhu and cold storage. The industries which operate during certain

period of the year, i.e. have seasonality of operation, can avail the benefits of seasonal industries provided:

The load of such industry is above 13.4 BHP (for motive power loads) & 10 kW (other loads) and have Tri-vector Meters / TOD meters installed at their premises, however for Kolhu consumers such load is of 10 HP or above.

The continuous period of operation of such industries shall be at least 4 (four) months but not more than 9 (nine) months in a financial year.

Any prospective consumer, desirous of availing the seasonal benefit, shall specifically declare his season at the time of submission of declaration / execution of agreement mentioning the period of operation unambiguously.

The seasonal period once notified cannot be reduced during the next consecutive 12 months. The off-season tariff is not applicable to composite units having seasonal and other category loads.

The off-season tariff is also not available to those units who have captive generation exclusively for process during season and who avail Licensees supply for miscellaneous loads and other non-process loads.

The consumer opting for seasonal benefit has a flexibility to declare his off-season maximum demand subject to a maximum of 25% of the contracted demand. The tariff rates (demand charge per kW / kVA and energy charge per kWh / kVAh) for such industries during off-season period will be the same as for normal period. Further, during the off-season period, fixed charges shall be levied on the basis of maximum demand recorded by the meter (not on normal billable demand or on percentage contracted demand). Rates for the energy charges shall however be the same as during the operational season. Further, first violation in the off-season would attract normal billable demand charges and energy charges calculated at the unit rate 50% higher than the applicable tariff during normal period but only for the month in which the consumer has defaulted. However, on second violation in the off-season, the consumer will be charged at the normal billable demand for the entire off-season and energy charges calculated at the unit rate 50% higher than the applicable tariff during normal period.

5. REBATE TO POWER LOOMS:

Rebate to Power Loom consumers shall be provided in accordance with the applicable Government orders subject to adherence of provision of advance subsidy.

6. FACTORY LIGHTING:

The electrical energy supplied shall also be utilized in the factory premises for lights, fans, coolers, etc. which shall mean and include all energy consumed for factory lighting in the offices, the main factory building, stores, time keeper's office, canteen, staff club, library, crèche, dispensary, staff welfare centres, compound lighting, etc. No separate connection for the same shall be provided.

RATE SCHEDULE LMV – 7: PUBLIC WATER WORKS:**1. APPLICABILITY:**

This schedule shall apply to Public Water Works, Sewage Treatment Plants and Sewage Pumping Stations functioning under Jal Sansthan, Jal Nigam or other local bodies.

2. CHARACTER AND POINT OF SUPPLY:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE:**(A) Consumers getting supply other than “Rural Schedule”:**

Rate gives the fixed and energy charges at which the consumer shall be billed during the billing period applicable to the category:

Description	Fixed Charge	Energy Charge
Metered	Rs. 400.00 / kW / month	Rs. 10.00 / kWh
Un - Metered	Rs. 3500.00 / BHP / month	-

(B) Consumers getting supply as per “Rural Schedule”:

The consumer under this category shall be entitled to a rebate of 7.5% on ‘RATE’ as given for ‘Consumer getting supply other than Rural Schedule’.

RATE SCHEDULE LMV – 9: TEMPORARY SUPPLY:**1. APPLICABILITY:****A) Un-metered Supply for Illumination / Public Address / Temporary Shops in Melas:**

This schedule shall apply to temporary supply of light, fan & power up to 20 KW, Public address system and illumination loads during functions, ceremonies and festivities and temporary shops, not exceeding three months and PTW consumers of Bundelkhand Area having requirement of electricity only for the Rabi Crop i.e., period between November to February in any year.

B) Metered Supply for all other purposes:

This schedule shall apply to all temporary supplies of light, fan and power load for the purpose other than mentioned in (A) above.

This schedule shall also apply for power taken for construction purposes including civil work by all consumers and Govt. Departments.

2. CHARACTER AND POINT OF SUPPLY:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE (SEPARATELY FOR EACH POINT OF SUPPLY):

Rate gives the fixed and energy charges at which the consumer shall be billed during the billing period applicable to the category:

A. Un-metered:

(i) Fixed charges for illumination / public address / ceremonies for load up to 20 kW per connection plus Rs. 100 per kW per day for each additional kW.	Rs. 4750.00 / day
(ii) Fixed charges for temporary shops set-up during festivals / melas or otherwise and having load up to 2KW	Rs. 560.00 / day / shop
(iii) PTW consumers of Bundelkhand Area having requirement of electricity only for the Rabi Crop i.e. period between November to February in any year.	Rs. 500.00 / BHP / month

B. Metered*:

Description	Fixed Charge	Energy Charge
Individual Residential Consumers	Rs. 300.00 / kW / Month	Rs. 9.50 / kWh
	From 3rd year onwards: Base Tariff applicable for current year plus additional 10% of the applicable Energy Charge.	
Others	Rs. 400.00 / kW / Month	Rs. 10.50 / kWh
	From 3rd year onwards: Base Tariff applicable for current year plus additional 10% of the applicable Energy Charge.	

* Minimum bill payable by a consumer under the category "Metered" shall be Rs. 450.00 / kW / week.

4. Charge/Rate as specified, above shall be paid by the consumer in advance.

RATE SCHEDULE LMV – 10: DEPARTMENTAL EMPLOYEES AND PENSIONERS:**1. APPLICABILITY:**

This schedule shall apply only to such employees (including the cases of retired / voluntary retired or deemed retired) of Licensees / successor entities of erstwhile Uttar Pradesh State Electricity Board (UPSEB), who own electricity connection in their own name and opt for the same for their own use for light, fan and power for domestic appliances, where the energy is being fed directly from Licensee mains. The Schedule shall also apply to spouse of employees served under Licensees / successor entities of erstwhile UPSEB.

2. RATE:

For all such consumers LMV-1 rate schedule will be applicable. However, the Licensees are authorized to provide “rebate” as they deem fit to the consumer eligible to get supply under this category.

3. ELECTRICITY DUTY:

Electricity duty on the above shall be levied in addition at the rates as may be notified by the State Government from time to time.

4. OTHER PROVISIONS:

For serving / retired employees and their spouse, the supply will only be given at one place where Licensee’s mains exist. The electric supply under this tariff will be given only at one place, within the area of erstwhile UPSEB / its successor companies.

Concerned executive engineers will take an affidavit from all employees and pensioners that the electricity supplied to their premises is being used exclusively for the purpose of domestic consumption of themselves and their dependants. It will have to be certified by the employees/pensioners that such electricity is not being used for any other purpose or to any individual to whom his house has been rented out. Without any prejudice to any legal action as provided in the legal framework, any misuse to above effect shall invalidate him from the facility of LMV-10 on permanent basis.

In the event of transfer of the employee, this tariff shall be applied at the new place of posting only when a certificate has been obtained from the concerned Executive Engineer of the previous place of posting, that the supply under this tariff has been withdrawn at previous place of posting. Further, the employee shall also be required to submit an affidavit that he is not availing the benefit of LMV-10 connection anywhere else in the state.

Those who are not availing this tariff shall also give a declaration to this effect. This declaration shall be pasted / kept in his service book / personal file / Pensioners record. If the declaration is found wrong, necessary action against the employee shall be taken as per the provisions of service rules. If declaration has already been given at the present place of posting then further declaration is not necessary, due to this revision. Pensioners shall also have to give a similar declaration for availing departmental tariff at only one place. In case this declaration is found wrong, this tariff shall be withdrawn forever.

No other concession shall be admissible on this tariff.

The schedule of miscellaneous charges as appended with Licensee's General Tariff as amended from time to time and Electricity Supply (Consumers) Regulation, 1984 as enforced from time to time shall also be applicable on the employee / pensioner receiving supply under this schedule.

Retired employees drawing pension from the Treasury / Bank will have to pay the monthly electricity charges as per the rates given in the rate schedule applicable to their category.

RATE SCHEDULE LMV - 11: ELECTRIC VEHICLE CHARGING**Domestic Consumers :**

All the metered domestic consumers covered under the LMV-1 category will be allowed to charge their Electric Vehicle at their residence, provided the load of Electric Vehicle does not exceed the connected / contracted load. The Tariff that is applicable as per the rate schedule will be applicable on Electric Vehicle Charging as well.

Multi Storey Buildings (covered under LMV-1b & HV-1b of the Rate Schedule)

Those who wish to install Electric Vehicle Charging station in the premises Multi Storey Building, will have to take a separate connection for EV Charging Station. The Tariff applicable for such Charging Station in the Multi Storey Building will be as follows:

Category	Demand Charge	Energy Charge
Multi Story Buildings (Covered under LMV-1b)	-	Rs. 6.20 / kWh
Multi Story Buildings (Covered under HV-1b)	-	Rs. 5.90 / kWh

The consumer will be required to pay one-time charges etc. wherever applicable.

Public Charging Stations :

The Tariff applicable for Public Charging Stations will be as follows:

Category	Demand Charge	Energy Charge
Public Charging Station (LT)	-	Rs. 7.70 / kWh
Public Charging Station (HT)	-	Rs. 7.30 / kWh

The consumer will be required to pay one-time charges etc. wherever applicable.

Time of Day (ToD) Structure for public Charging Stations:**Summer Months (April to September)**

Hours	% of Energy Charges
05:00 hrs – 11:00 hrs	(-) 15%
11:00 hrs – 17:00 hrs	0%
17:00 hrs – 23:00 hrs	(+) 15%
23:00 hrs – 05:00 hrs	0%

Winter Months (October to March)

Hours	% of Energy Charges
05:00 hrs – 11:00 hrs	0%
11:00 hrs – 17:00 hrs	0%
17:00 hrs – 23:00 hrs	(+) 15%
23:00 hrs – 05:00 hrs	(-) 15%

Other Consumers :

The consumers of other categories (any metered consumers of LMV-2, LMV-4, LMV-6, LMV-7, LMV-8 (Metered), LMV-9 (Metered), HV-1 (excluding Multi Storey Buildings covered under LMV-1b & HV-1b of the Rate Schedule), HV-2, HV-3 and HV-4), will be charged as per the Tariff applicable for their respective category or to say they need not to take a separate connection, they can do the Charging within their respective connections, provided the load of EV does not exceed the connected / contracted load.

Note: It is advised that the consumer should take precaution to take adequate contracted load in order to meet the load of Charging of Electrical Vehicle. In case the contracted / connected load is breached then the consumer will be liable to pay penalty. Further, the other provisions of General Provisions of Rate Schedule and Electricity Supply Code will also come into effect in case consumers load breaches the contract demand.

RATE SCHEDULE HV – 1: NON - INDUSTRIAL BULK LOADS**1. APPLICABILITY:**

This rate schedule shall apply to:

Commercial loads (as defined within the meaning of LMV-2) with contracted load of 75 kW & above and getting supply at single point on 11 kV & above voltage levels.

Private institutions (as defined within the meaning of LMV-4 (b)) with contracted load of 75 kW & above and getting supply at single point on 11 kV & above voltage levels.

Non domestic bulk power consumer (other than industrial loads covered under HV-2) with contracted load 75 kW & above and getting supply at single point on 11 kV & above voltage levels and feeding multiple individuals (owners / occupiers / tenants of some area within the larger premises of the bulk power consumer) through its own network and also responsible for maintaining distribution network.

Public institutions (as defined within the meaning of LMV-4 (a)) with contracted load of 75 kW & above and getting supply at single point on 11 kV & above voltage levels. The institution / consumer seeking the supply at Single point for non-industrial bulk loads under this category shall be considered as a deemed franchisee of the Licensee.

Registered Societies, Residential Colonies / Townships, Residential Multi-Storied Buildings with mixed loads (getting supply at single point) with contracted load 75 kW & above and getting supply at single point on 11 kV & above voltage levels and having less than 70% of the total contracted load exclusively for the purposes of domestic light, fan and power. Figure of 70%, shall also include the load required for lifts, water pumps and common lighting,

For Offices / Buildings / Guesthouses of UPPCL / UPRVUNL / UPJVNL / UPPTCL / Distribution Licensees having loads above 75 kW and getting supply at 11 kV & above voltages.

2. CHARACTER AND POINT OF SUPPLY:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE:

Rate, gives the demand and energy charges at which the consumer shall be billed during the billing period applicable to the category:

Commercial Loads / Private Institutions / Non - domestic bulk power consumer with contracted load 75 kW & above and getting supply at Single Point on 11 kV & above:

Contracted Load	Fixed Charge	Energy Charge
For supply at 11kV	Rs. 450.00 / kVA / month	Rs. 9.57 / kVAh
For supply above 11kV	Rs. 425.00 / kVA / month	Rs. 9.37 / kVAh

Public Institutions, Registered Societies, Residential Colonies / Townships, Residential Multi-Storied Buildings including Residential Multi-Storied Buildings with contracted load 75 kW & above and getting supply at Single Point on 11 kV & above voltage levels:

Contracted Load	Fixed Charge	Energy Charge
For supply at 11kV	Rs. 400.00 / kVA / month	Rs. 8.95 / kVAh
For supply above 11kV	Rs. 385.00 / kVA / month	Rs. 8.75/ kVAh

The body seeking the supply at Single point for bulk loads under this category shall be considered as a deemed franchisee of the Licensee.

The deemed franchisee is required to provide to all its consumers and the licensee, a copy of the detailed computation of the details of the amounts realized from all the individual consumers and the amount paid to the licensee for every billing cycle on half yearly basis. If he fails to do so, then the consumers may approach the Consumer Grievance Redressal Forum (CGRF) having jurisdiction over their local area for the redressal of their grievances.

The deemed franchisee shall arrange to get its account(s) audited by a Chartered Accountant mandatorily. The audited accounts will be made available to all the consumers of the deemed franchisee within 3 months of the closure of that financial year. If he fails to do so, then the consumers may approach the Consumer Grievance Redressal Forum (CGRF) having jurisdiction over their local area for the redressal of their grievances.

The deemed franchisee should separately meter the electricity supplied from back up arrangements like DG sets etc. The bill of its consumers should clearly depict the units and rate of electricity supplied through back up arrangement and electricity supplied through Licensee.

The deemed franchisee shall not disconnect the supply of electricity of its consumers on the pretext of defaults in payments related to other charges except for the electricity dues regarding the electricity consumed by its consumers and electricity charges for lift, water lifting pump, streetlight if any, corridor / campus lighting and other common facilities.

In case the deemed franchisee exceeds the contracted load / demand under the provisions of Clause 7(ii) – ‘Charges for Exceeding Contracted demand’ of the General Provisions of this Rate Schedule, only in such case the deemed franchisee will recover the same from the individual members who were responsible for it on the basis of their individual excess demands.

RATE SCHEDULE HV – 2: LARGE AND HEAVY POWER:**1. APPLICABILITY:**

This rate schedule shall apply to all consumers with contracted load of 75 kW (100 BHP) and above for industrial and / or processing purposes as well as to Arc / induction furnaces, rolling / re-rolling mills, mini-steel plants and Floriculture, Mushroom and Farming units and to any other HT consumer not covered under any other rate schedule.

Supply to Induction and Arc furnaces shall be made available only after ensuring that the loads sanctioned are corresponding to the load requirement of tonnage of furnaces. The minimum load of one-ton furnace shall in no case be less than 400 kVA and all loads will be determined on this basis. No supply will be given on loads below this norm.

For all HV-2 consumers, conditions of supply, apart from the rates, as agreed between the Licensee and the consumer shall continue to prevail as long as they are in line with the existing Regulations & Acts.

2. CHARACTER AND POINT OF SUPPLY:

As per the applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE:

Rate, gives the demand and energy charges (including the TOD rates as applicable to the hour of operation) at which the consumer shall be billed during the billing period applicable to the category:

(A) Urban Schedule:

Description	For supply up to 11 kV	For supply above 11 kV and up to 66 kV	For supply above 66 kV and up to 132 kV	For supply above 132 kV
BASE RATE				
Demand Charges	Rs. 330.00 / kVA / month	Rs. 315.00 / kVA / month	Rs. 295.00 / kVA / month	Rs. 295.00 / kVA / month
Energy Charges	Rs. 8.30 / kVAh	Rs. 8.00 / kVAh	Rs. 7.60 / kVAh	Rs. 7.30 / kVAh

TOD Structure:**Summer Months (April to September)**

Hours	% of Energy Charges
05:00 hrs – 11:00 hrs	(-) 15%
11:00 hrs – 17:00 hrs	0%
17:00 hrs – 23:00 hrs	(+) 15%
23:00 hrs – 05:00 hrs	0%

Winter Months (October to March)

Hours	% of Energy Charges
05:00 hrs – 11:00 hrs	0%
11:00 hrs – 17:00 hrs	0%
17:00 hrs – 23:00 hrs	(+) 15%
23:00 hrs – 05:00 hrs	(-) 15%

(B) Rural Schedule:

This schedule shall be applicable only to consumers getting supply up to 11 kV as per 'Rural Schedule'. The consumer under this category shall be entitled to a rebate of 7.5% on 'BASE RATE' as given for 11 kV consumers under urban schedule. Further, no 'TOD RATE' shall be applicable for this category.

Consumers already existing under HV-2 category with metering arrangement at low voltage:

Existing consumer under HV-2 with metering at 0.4 kV shall be required to pay as per schedule applicable to 11 kV consumers under HV-2 category.

4. PROVISIONS RELATED TO SEASONAL INDUSTRIES:

Seasonal industries will be determined in accordance with the criteria laid down below. No exhaustive list can be provided but some examples of industries exhibiting such characteristics are sugar, ice, rice mill and cold storage. The industries which operate during certain period of the year, i.e. have seasonality of operation, can avail the benefits of seasonal industries provided:

The continuous period of operation of such industries shall be at least 4 (four) months but not more than 9 (nine) months in a financial year.

Any prospective consumer, desirous of availing the seasonal benefit, shall specifically declare his season at the time of submission of declaration / execution of agreement mentioning the period of operation unambiguously.

The seasonal period once notified cannot be reduced during the next consecutive 12 months. The off-season tariff is not applicable to composite units having seasonal and other category loads.

The off-season tariff is also not available to those units who have captive generation exclusively for process during season and who avail Licensees supply for miscellaneous loads and other non-process loads.

The consumer opting for seasonal benefit has a flexibility to declare his off seasonal maximum demand subject to a maximum of 25% of the contracted demand. The tariff rates (demand charge per kW / kVA and energy charge per kWh / kVAh) for such industries during off-season period will be the same as for normal period. Further, during the off season fixed charges shall be levied on the basis of maximum demand recorded by the meter (not on normal billable demand or on percentage contracted demand). Rates for the energy charges shall however be the same as during the operational season. Further, first violation in the off-season would attract full billable demand charges and energy charges calculated at the unit rate 50% higher than the applicable tariff during normal period but only for the month in which the consumer has defaulted. However, on second violation in the off-season, the consumer will forfeit the benefit of seasonal rates for the entire season and energy charges shall be calculated at the unit rate 50% higher than the applicable tariff during normal period.

5. FACTORY LIGHTING:

The electrical energy supplied shall also be utilized in the factory premises for lights, fans, coolers, etc. which shall mean and include all energy consumed for factory lighting in the offices, the main factory building, stores, time keeper's office, canteen, staff club, library, crèche, dispensary, staff welfare centres, compound lighting, etc. No separate connection for the same shall be provided.

RATE SCHEDULE HV – 3: RAILWAY TRACTION LOADS**A: RAILWAY TRACTION:****1. APPLICABILITY:**

This schedule shall apply to the Railways for Traction loads only.

2. CHARACTER OF SERVICE AND POINT OF SUPPLY:

Alternating Current, single phase, two phase or three phase, 50 cycles, at, below and above 132 kV depending on the availability of voltage of supply and the sole discretion of the Licensee. The supply at each sub-station shall be separately metered and charged.

3. RATE:

Rate, gives the demand and energy charges at which the consumer shall be billed for consumption during the billing period applicable to the category:

Description	Charges
Demand Charge	Rs. 440.00 / kVA / month
Energy Charge	Rs. 9.90 / kVAh

Note: Minimum charge payable by a consumer under this category shall be Rs. 950.00 / kVA / month.

DETERMINATION OF THE DEMAND:

Demand measurement at a particular time will be made on basis of simultaneous maximum demands recorded in summation kilovolt-ampere meter installed at contiguous substation serviced by same grid transformer.

The maximum demand for any month shall be defined as the highest average load measured in Kilo Volt amperes during any fifteen consecutive minutes period of the month.

B: METRO RAIL CORPORATION:**1. APPLICABILITY:**

This schedule shall apply to the Metro Rail Corporation.

2. CHARACTER OF SERVICE AND POINT OF SUPPLY:

Alternating Current, single phase, two phase or three phase, 50 cycles, at, below and above 132 kV depending on the availability of voltage of supply and the sole discretion of the Licensee. The supply at each sub-station shall be separately metered and charged.

3. RATE:

Rate, gives the energy charges at which the consumer shall be billed for consumption during the billing period applicable to the category:

Description	Charges
Demand Charges	Rs. 330.00 / kVA / month
Energy Charges	Rs. 8.70 / kVAh

Note: Minimum charge payable by a consumer under this category shall be Rs. 900.00 / kVA / month.

Penalty @ Rs. 540.00 / kVA / month will be charged on excess demand, if maximum demand exceeds contracted load.

4. DETERMINATION OF THE DEMAND:

Demand measurement shall be made by suitable kilovolt ampere indicator at the point of delivery. The demand for any month shall be defined as the highest average load measured in Kilo Volt Amperes during any fifteen consecutive minutes period of the month.

RATE SCHEDULE HV – 4: LIFT IRRIGATION WORKS:**1. APPLICABILITY:**

This Rate Schedule shall apply to medium and large pumped canals with contracted load of 100 BHP (75kW) and above.

2. CHARACTER OF SERVICE & POINT OF SUPPLY:

As per applicable provisions of Electricity Supply Code, 2005 and its amendments.

3. RATE:

Rate, gives the demand and energy charges at which the consumer shall be billed during the billing period applicable to the category:

a) Demand Charges:

Voltage Level	Charges
For supply at 11 kV	Rs. 375.00 / kVA / month
For supply above 11 kV upto 66 kV	Rs. 370.00 / kVA / month
For supply above 66 kV upto 132 kV	Rs. 365.00 / kVA / month

b) Energy Charges:

Voltage Level	Charges
For supply at 11 kV	Rs. 9.95 / kVAh
For supply above 11 kV upto 66 kV	Rs. 9.85 / kVAh
For supply above 66 kV upto 132 kV	Rs. 9.70 / kVAh

c) Minimum Charges:

Minimum charge payable by a consumer under this category shall be Rs. 1125.00 / kVA / month irrespective of supply voltage

4. DETERMINATION OF THE DEMAND:

Demand measurement shall be made by suitable kilovolt ampere indicator at the point of supply. In the absence of suitable demand indicator, the demand as assessed by the Licensee shall be final and binding. If, however, the number of circuits is more than one, demand and energy measurement will be done on the principle of current transformer summation metering.

PUBLIC LAMPS:**1. MAINTENANCE CHARGE:**

In addition to the “Rate of Charge” mentioned above, a sum of Rs. 10.00 per light point per month will be charged for operation and maintenance of street lights. This Maintenance Charge will cover only labour charges, where all required materials are supplied by the local bodies. However, the local bodies will have an option to operate and maintain the public lamps

themselves and, in such case, no maintenance charge shall be recovered. This charge shall not apply to the consumers with metered supply.

2. PROVISION OF LAMPS:

Streets where distribution mains already exist, the Licensee will provide a separate single-phase, 2-wire system for the street lights including light fitting and incandescent lamps of rating not exceeding 100 Watts each. In case the above maintenance charge is being levied, the labour involved in replacements or renewal of lamps shall be provided by the Licensee. However, all the required materials shall be provided by the local bodies. The cost of all other types of street light fittings shall be paid by the local bodies.

The cost involved in extension of street light mains (including cost of sub - stations, if any) in areas where distribution mains of the Licensee have not been laid, will be paid for by the local bodies.

3. VERIFICATION OF LOAD:

The number of light points including that of traffic signals together with their wattage will be verified jointly by the representatives of Licensee and Town Area / Municipal Board / Corporation at least once in a year. However, additions will be intimated by the Town Area / Municipal Board / Corporation on monthly basis. The Licensee will carry out the checking of such statements to satisfy themselves of the correctness of the same. The monthly bills shall be issued on the basis of verified number of points at the beginning of the year and additions, if any, during the months as intimated above. The difference, if any, detected during joint verification in the following year shall be reconciled and supplementary bills shall be issued.

Further, if the authorized representative of concerned local body does not participate in the work of verification of light points, a notice will be sent by concerned Executive Engineer in writing to such local bodies for deputing representative on specific date(s), failing which the verification of the light points shall be done by the concerned representative of Licensee which shall be final and binding upon such local body.

STATE TUBE-WELLS

NET LOAD:

Net load hereinafter shall mean the total load connected during the quarter less the load of failed and abandoned tube-wells accounted for during that quarter.

The connected load as on 31st March of the preceding year will be worked out on the basis of 'Net load' reported by the Executive Engineers of concerned Divisions after joint inspection and verification of the same by the concerned officers of the State Government / Panchayat, joint meter reading shall also be taken during the inspection on quarterly basis. The monthly bills for three months of the first quarter will be issued on the connected load worked out as such at the above rates. The same process shall be repeated for subsequent quarters.

SCHEDULE OF MISCELLANEOUS CHARGES

S. No.	NATURE OF CHARGES	UNIT	RATES (₹)
1.	Checking and Testing of Meters:		
	a. Single Phase Meters	Per Meter	50.00
	b. Three Phase Meters	Per Meter	50.00
	c. Recording Type Watt-hour Meters / Prepaid Meters / Smart Meters	Per Meter	175.00
	d. Maximum Demand Indicator	Per Meter	350.00
	e. Tri-vector Meters	Per Meter	1000.00
	f. Ammeters and Volt Meters	Per Meter	50.00
	g. Special Meters / Net Meters	Per Meter	400.00
	h. Initial Testing of Meters	Per Meter	NIL
2.	Disconnection and Reconnection of supply for any reason whatsoever (Disconnection & Reconnection to be separately treated as single job)		
	a. Consumer having load above 100 BHP/75kW	Per Job	1000.00
	b. Power consumers up to 100BHP/75kW	Per Job	500.00
	c. All other categories of consumers.	Per Job	300.00
	d. Smart Meters consumers having load upto 5 kW	Per Job	50.00
	e. Smart Meters consumers having load above 5 kW	Per Job	100.00
	f. Pre-Paid Meters	Per Job	NIL
3.	Replacement of Meters:		
	a. By higher capacity Meter	Per Job	50.00
	b. Installation of Meter and its subsequent removal in case of Temporary Connections	Per Job	75.00
	c. Changing of position of Meter Board at the consumer's request	Per Job	100.00
4.	Service of Wireman:		
	a. Replacement of Fuse	Per Job	20.00
	b. Inserting and Removal of Fuse in respect of night loads.	Per Job	25.00
	c. Hiring of services by the consumer during temporary supply or otherwise.	Per wireman /day of 6 Hrs.	60.00
5.	Resealing of Meters on account of any reason in addition to other charges payable in terms of other provision of charging of penalties, etc.)	Per Meter	100.00
6.	Checking of Capacitors (other than initial checking) on consumer's request:		
	a. At 400 V / 230 V	Per Job	100.00
	b. At 11 kV and above.	Per Job	200.00

LIST OF POWER FACTOR APPARATUS**FOR MOTORS:**

S. No.	Rating of Individual Motor	KVAR Rating of Capacitor			
		750 RPM	1000 RPM	1500 RPM	3000 RPM
1.	Up to 3 HP	1	1	1	1
2.	5 HP	2	2	2	2
3.	7.5 HP	3	3	3	3
4.	10 HP	4	4	4	3
5.	15 HP	6	5	5	4
6.	20 HP	8	7	6	5
7.	25 HP	9	8	7	6
8.	30 HP	10	9	8	7
9.	40 HP	13	11	10	9
10.	50 HP	15	15	12	10
11.	60 HP	20	20	16	14
12.	75 HP	24	23	19	16
13.	100 HP	30	30	24	20
14.	125 HP	39	38	31	26
15.	150 HP	45	45	36	30
16.	200 HP	60	60	48	40

FOR WELDING TRANSFORMERS:

S. No.	Name Plate Rating in KVA of Individual Welding Transformer	Capacity of the Capacitors (KVAR)
1.	1	1
2.	2	2
3.	3	3
4.	4	3
5.	5	4
6.	6	5
7.	7	6
8.	8	6
9.	9	7
10.	10	8
11.	11	9
12.	12	9
13.	13	10
14.	14	11
15.	15	12
16.	16	12
17.	17	13
18.	18	14
19.	19	15
20.	20	15
21.	21	16
22.	22	17

S. No.	Name Plate Rating in KVA of Individual Welding Transformer	Capacity of the Capacitors (KVAR)
23.	23	18
24.	24	19
25.	25	19
26.	26	20
27.	27	21
28.	28	22
29.	29	22
30.	30	23
31.	31	24
32.	32	25
33.	33	25
34.	34	26
35.	35	27

8. Compliance to Directives as per Tariff Order dated 20th July 2022.

TABLE-8-1: COMPLIANCE TO DIRECTIVES ISSUED UNDER TARIFF ORDER FOR FY 2022-23

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
11.3.1	The Commission also directs the Petitioners to submit the voltage wise (440V, 11kV, 33kV, 66kV, 132 kV) - Energy Sales and Losses. Also, it is mandatory energy audit report and the cost audit report (prepared in accordance with Companies (Cost Records and Audit) Rules 2014) shall also be submitted every year along with the ARR Petitions.	Immediate	The Petitioner complies the directives as per P1 Format submission under ARR Filing under Section No. 2.2.11. Energy Audit Report for FY22 is submitted to BEE as per Section 6(1) and 9(1) of Second Schedule of Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies) Regulations, 2021 attached under Annexure-01 and Cost Audit Report is under progress and the same would be provided along with the Filing.
11.3.2	The Commission directs the Petitioners, not to book excess sales under the unmetered categories.	Immediate	The State DISCOMS submitted that they are obligated to follow the Hon'ble Commission's Directive and complies the directions mentioned under Section 2.1.2 along with this Petition.
11.3.3	The Petitioners must submit the details of each investment scheme / project exceeding Rs. 10 Crore and obtain prior approval of the Commission as per Regulations for inclusion as regulatory expenditure in the ARR. Failure to do so will result in disallowance of such investment in the ARR in order to safeguard the consumers from unjust and unfair charges.	Immediate	The Licensee has submitted the Petition for Capex approval of RDSS Scheme along with the break-up of its components to the Hon'ble Commission on 18.10.2022 and the same are included in APR/ARR Section along with this Petition attached herewith Annexure-02 .
11.3.4	The Commission directs the Petitioners to submit the detailed Fixed Asset Register (FAR) in excel with all the details of the assets opening, addition, deduction & closing values, as well as	Immediate	The State DISCOMS submitted that they are obligated to follow the Hon'ble Commission's Directive. FAR for FY 2021-

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
	depreciation & cumulative depreciations, with the bifurcation of the assets owned by the Petitioners, assets created out of Grants and assets created out of consumer contribution.		22 is attached herewith under Annexure-03 along with the Filing.
11.3.5	The details of category / sub-category wise billing determinants and revenue of consumers of Franchisee for DVVNL is to be properly submitted in similar manner as is done for own consumers i.e. rather than showing billing determinants of Torrent Power Ltd as bulk supply, category wise billing determinants are to be submitted from next filing otherwise the Torrent Power Ltd could be subsidize rest of the consumers which should not be the case. DVVNL also to get an audit done every year on the operational parameters, implementation of Tariff approved by the Commission, billing and collection, infrastructure and service delivery adequacy, status of defaults and dues etc of Torrent Power Ltd (franchisee of Agra) and submit the report to the Commission, along with the ARR / Tariff filing each year.		DVVNL has submitted the details of Distribution Franchisee along with the Petition under Para 4.1.6.
11.3.6	There is lack of clarity on the interest of security deposited that has been given to the consumers. Petitioners in its submission should clearly demonstrate how much interest on security deposit was required to be given and how much interest has been actually disbursed.	Immediate	The Petitioner humbly submits to the Hon'ble Commission to deal this matter separately under Petition No. 780 of 2012.
11.3.7	The Petitioners are directed to ensure 100% feeder metering and DT metering.	Immediate	The Petitioner has already submitted that 100% feeder metering is completed. Further, it is submitted that 5.69% (as on 31.03.2022) of DTs have been metered as on date and the metering of balance DTs will done under RDSS.
11.3.8	The Petitioners are directed to submit year wise data regarding Surcharge Waiver in various One-Time Settlement (OTS) schemes from the year the same was abolished, to FY 2021-22, in the next filing.	Immediate	Data is being compiled.

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
11.3.9	All procurements made by the Petitioners should be through Competitive Bidding only.	Immediate	It is hereby submitted that all the power procurement made by UPPCL is through Competitive Bidding and as per the directions provided by the Hon'ble Commission from time to time.
11.3.10	The Petitioners are directed to procure all power through tariff-based competitive bidding process or power exchange or DEEP Portal and obtain approval of the Commission. The Petitioners may procure short term power within approved ARR limits through power exchange without prior approval of the Commission.	Immediate	It is humbly submitted to the Hon'ble Commission that as per requirement, this is submitted under ARR submissions for FY 2023-24.
11.3.11	The Commission directs the Petitioners to submit the MOD stack in accordance with MOD Regulation 2021.	Immediate	<p>The Petitioner respectfully submits that as per clause 5(2) of UPERC Merit Order Despatch and Optimization of Power Purchase Regulations 2021, UPPCL on behalf of the DISCOM submits the details of variable charges (includes transmission charges and losses) at DISCOM periphery for all the Generating Stations/units to SLDC for preparation of the MOD Stack on fortnightly basis.</p> <p>Further, SLDC schedules power based on the lower variable cost taking into account technical, regulatory, and operational limits of generation and transmission facilities. MOD Stack for the month of Sept, 2022 is attached under Annexure-04.</p>
11.3.12	The Commission directs the Petitioners to ensure to file its ARR/ Tariff Petition on time strictly in accordance with the applicable MYT Regulations, 2019.	Immediate	The State DISCOMS submitted that they are obligated to follow the Commission's Directive.

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
11.3.13	The Commission directs that metering of LMV-10 consumers should be completed immediately.	Immediate	Total consumers for LMV-10 as on 31.03.2022 is 17,195. The Petitioner humbly requests the Hon'ble Commission to allow additional time till Mar-23 for installation of meters.
11.3.14	There are several upcoming opportunities for the Licensees to enhance their non-tariff income particularly from the broadband and 5G telecom companies for installation of their equipments on the electric poles and infrastructure of the licensees. The licensees are directed to develop a business plan in this regard and submit the same for the approval of the Commission. The Commission may allow some part of this income as incentive to the licensee through revenue sharing based on implementation of the same.	Next ARR Filing	The Petitioner submitted that various initiatives are being taken-up at its associated Stations/Sub-Stations at Discom Level. Further, UPERC (Facilitation of Telecommunication Network) Regulations, 2022 is under progress on it and submission is already given in this regard to the Hon'ble Commission from UPPCL vide letter no. 528 dated 18.10.2022. (Annexure-05)
11.3.15	The Petitioners shall upload on its website the Petition filed before the Commission along with all regulatory filings, information, particulars and related documents, which shall be signed digitally and in searchable pdf formats along with all Excel files and as per any other provision of the Regulations and Orders of the Commission. The Petitioner shall also ensure that these files are broken into such size which can be easily downloaded and will not keep them in compressed form as the stakeholders find it difficult to extract the files.	As per the timelines specified	Tariff Petitions are filed online as per the directions of the Hon'ble Commission and the Petitioner complies the same.
11.3.16	The Commission has noted that the Petitioners have successfully completed a pilot implementation of peer to peer (P2P) trading of electricity in rooftop solar energy using Blockchain technology and has undertaken a pilot study on Time of Use Metering structure. The Commission directs the Licensees to take the pilot forward to its next phase for integrating it with the existing billing system (ERP)/ financial settlement etc. so that P2P rooftop solar energy may become	As per the timelines specified	As per the direction of the Hon'ble Commission. UPPCL has appointed M/s ISGF for the same. The Pilot Project report on Block Chain Technology is attached as Annexure-06.

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
	operational for the prosumers and consumers of the State.		
11.3.17	The Commission encourages the Petitioners to implement a few projects of battery storage. The Licensees are directed to seek innovative solutions based on energy storage systems, other innovative technologies to reduce the system losses, provide better services to the consumers etc.	Next ARR Filing	The Petition is filed on 25.07.2022 for seeking approval of long term battery energy storage purchase agreement and bidding document for invitation of e-tender for installation of energy storage system in State of Uttar Pradesh under Petition no. 1868/2022. It is humbly submitted that directions from the Hon'ble Commission for implementation of Battery Storage would be complied along with Energy Storage Obligations (ESO) as per guidelines and the Bidding for energy storage systems has been floated on 22.10.2022 by UPPCL.
11.3.18	Provide the details of all the pending cases filed by Petitioners against the Commission in various forums along with the status of the same.	Immediate	Details are furnished under Annexure-07 .
11.3.19	The Petitioners are directed to submit DSM account details separately from the power purchase along with ARR/ Tariff fillings.	Immediate	The Petitioner humbly submits that State DISCOMS would comply the Suo-Moto proceedings no. 59SM/60SM/61SM of 2022. Accordingly, UPSLDC will provide the DSM accounts to the Hon'ble Commission as per the Commission's order dated 29.09.2022.
11.3.20	Provide the details of land capitalized during the year, along with the purpose of usage and status of usage of land, along with the lease deed for each land capitalized. Also, provide the list of unutilized land capitalized.	Immediate	Not Applicable. (No land has been capitalized during the year.)
11.3.21	Provide the list of Open Access consumers (Long Term, Short Term, Medium Term) along with their consumption and consumer category, along with Petition.	Immediate	The required details are provided under MYT Format F7A along with the Petition.

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
11.3.22	Wherever the opening values in the new audited account the closing shown in the previous audited account, the reasons for the same to be provided as part of balance sheet.	Immediate	The Petitioner complies as per the Hon'ble Commission's directions and for FY 2021-22; audited financial statements are finalized from respective Finance Dept. Difference, if any, between the opening value of current year and previous year is on account of IND AS8 which requires a retrospective adjustment of prior period items as per which the prior period items identified during the current year are re-stated in the previous relevant year.
11.3.23	Provide the detailed breakup of CWIP claimed for the year along with the Petition.	Immediate	The details are captured in the ARR Formats/ Balance Sheet and the same is provided along with the Filing.
11.3.24	Provide the portion of electricity duty in the Bad Debts along with the Petition and reconcile the same with the balance sheet for the year.	Immediate	It is humbly submitted to Hon'ble Commission that the Petitioner has claimed the provisions for bad debts as per the audited balance sheet. It is further submitted that the provisioning is being done on the basis of bad debts policy and the bifurcation of electricity duty is not possible from the same.
11.3.25	Submit the month-wise actual category / sub-category wise Billing Determinants (No. of Consumers, Connected Load & Sales) & actual Revenue for the year along with the Petition.	Immediate	Complied and submitted along with ARR Tariff Filing as per compliance directives.
11.3.26	Submit the reconciliation of the actual O&M expenses (i.e. employee expenses, A&G expenses, R&M expenses) vis-à-vis the normative expenses for the year.	Immediate	Reconciliation of the actual O&M expenses (i.e. employee expenses, A&G expenses, R&M expenses) vis-à-vis the normative expenses is submitted in the ARR Petition.

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
11.3.27	The Petitioners are directed to ensure that actual Power Purchased Cost with detailed break-up of each source, inter-state transmission charges, intra-state transmission charges are made part of the Audited Balance Sheet.	Immediate	Audited Balance Sheet is prepared as per the provisions of Company's Act. Further, Petitioner submits that UPPCL is the sole power supplier for all State DISCOMS. The Petitioner receives the energy bill from UPPCL only. However, the reconciled statement duly certified by Auditor is attached as Annexure-08 .
11.3.28	Ensure that the actual category / sub-category wise Billing Determinants (No. of Consumers, Connected Load & Sales) & category wise actual Revenue are made part of the Audited Balance Sheet.	Next ARR Filing	Audited Balance Sheet is prepared as per the provisions of Company's Act. Further, category-wise Revenue is already a part of the Balance Sheet.
11.3.29	The Petitioners are directed to ensure that actual Power Purchased (MUs) & ex-bus & energy delivered at Discom periphery (MUs), inter & intra power purchase (MUs) along with inter & intra state losses are made part of the Audited Balance Sheet.	Immediate	Audited Balance Sheet is prepared as per the requirements of Company's Act.
11.3.30	Submit the PPA's, Commission's approval and bills of each source from which power is procured, along with the True-up / ARR Petition.	Immediate	The required details are provided under Annexure-9.1 and Annexure-9.2 .
11.3.31	The Petitioners are directed to provide Discom wise details of all the expenses allocated by UPPCL, along with the True-up / ARR petition.	Immediate	The details are captured in the ARR Formats/ Balance Sheet and the same is provided along with the Filing. Audited Balance Sheet for FY 2021-22 is attached under Annexure-10 .
11.3.32	Submit the details of actual Number of consumers, Connected Load, Sales and Revenue for LMV-10 category consumer, along with the True-up Petition.	Immediate	The Petitioner humbly submitted that as on 31.03.2022; LMV-10 consumers: 17,195; Connected Load: 81,534kW and Sales: 163.44MU for FY2021-22.
11.3.33	Provide the daily load curves and monthly load curves for last year along with the corresponding N2 region demand curves of exchange.	Immediate	N2 region demand curves of exchange is not available at Petitioner's end. Daily load curve and Monthly load curve provided from SLDC

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
			with reference to letter no. 2202 vide dated 05.08.2022 attached under Annexure-11.
11.3.34	The Commission observed that the Petitioners have not filled a few formats like P10. and in the few formats the data is incomplete. Also, it has been observed that the Excel files are not linked and formula driven which delay the proceedings. Therefore, the Petitioner is directed to ensure that all the Tariff and additional Formats are completely filled and are with formulas and links.	Immediate	The Petitioner submitted that the required details of Fatal / Non-Fatal accidents at HV/LV sides of Feeder/Substations of DISCOM is complied from the Petitioner under P10 Format.
11.3.35	The Petitioners are directed to define a roadmap for cross-subsidy reduction and take steps to reduce such subsidy to +/- 20% of the Average Cost of Supply (ACoS) in compliance with the provisions of the Tariff Policy, 2016.	Immediate	Complied as per the provisions of the Tariff Policy, 2016. Roadmap for cross-subsidy reduction to be done as per directions/guidelines of the Hon'ble Commission.
11.3.36	The Petitioners are directed to provide consolidated data for all Discoms along with each Discoms in ARR / Tariff Petition.	Immediate	The State DISCOMS submitted that they are obligated to follow the Commission's Directive.
11.3.37	The Petitioners are directed to show SOP and CGRF expenses separately in the Audited Balance Sheet.	Immediate	The State DISCOMS submitted that they are obligated to follow the Commission's Directive.
11.3.38	The Petitioners are directed to provide the details of approval of power purchase sources in the annexed format (Annexure II).	Immediate	The State DISCOMS submitted that they are obligated to follow the Commission's Directive and is covered under Energy Balance tables as prescribed under Annexure-II.
11.3.39	Apart from the above directions the Petitioners to comply to the directions provided at various places in this Tariff Order.	Immediate	The State DISCOMS submitted that they are obligated to follow the Commission's Directive.
11.3.40	The proceedings under Petition No. 780 of 2012 are going on in the matter of Security Deposit and the final Orders of the Commission will have a bearing on the Security Deposit treatments for the years that have been Trued Up and due to the above proceedings all approvals will be treated as provisional. The Petitioners are directed to make a	Immediate	The Petitioner complies the proceedings under Petition No. 780 of 2012.

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
	detailed filing due to the impact of the final order in the above proceedings in the ARR / Tariff filings to be made after issuance of the final order.		
11.3.41	As per the approved roll out plan for the Smart Meter opex of the Petitioners is approximately Rs. 101.42/Meter/Month. The monthly bill of the lifeline consumers will be around Rs. 350 as per the Rate Schedule, excluding other charges i.e., Electricity Duty etc. Therefore, cost benefit of providing Smart Meters to such consumers on opex model as for each bill the Licensee needs careful consideration. Accordingly, the Petitioners are directed to take decisions in prudent manner while taking forward the initiatives as per the Smart Meter Roll Out Plan approved by the Commission. The Petitioners are also directed to make detailed submission on the benefits that have been realised viz-a viz the benefits that were submitted for approval of the Smart Meter Roll Out Plan in the next ARR/ Tariff filing.	Immediate	The Petitioner has noted the directions of the Hon'ble Commission and the appropriate study in this regard will be conducted in due course of time.
11.3.42	The Petitioners are directed to enhance the quality of distribution network by employing state-of-the-art technology and contemporary technological solutions which is essential to address the upcoming and new challenges in the sector. Further, the Licensees are directed to focus on institutional capacity building, especially for operations related smart metering, prepaid charging infrastructure, demand response, time of use (TOU), cyber security and privacy of data, usage of AI tools etc. As part of this, inhouse Training Centers/ Programs need to be developed to widen the knowledge-base and upgradation competencies of their employees in line with the trend in technology implementation in the sector which will assist them in bridging the capacity gaps and reduce the reliance on outsourcing of such essential and sensitive services. The Petitioners are	Immediate	UPPCL and its associated DISCOMs are very keen for the capacity building of its employees. In this context, various departmental trainings to the new joiners as well as existing employees are being conducted time to time on various technical, commercial and IT related matters. Further, the Petitioner has prepared software for compliance of UPERC SOP Regulations, 2019 and making required arrangements. The initial training in this regard has been conducted by the implementing agency.

SN	Description of Directive(s)	Directives in the Tariff Order for FY 2022-23	Compliance Status
	required to conduct trainings on SOP and CGRF of the concern and responsible.		
11.3.43	The Petitioners are directed to make submission at the time of True Up for the provisions for R&M expenses that were approved provisionally by the Commission for FY 2021-22 towards implementation of the SOP Regulations failing which disallowance may be done and action may be taken accordingly.	Immediate	The State DISCOMs submitted that the provisions for Additional R&M expenses that were approved by the Hon'ble Commission for FY 2021-22 are already included under R&M expenses and part of it and the mechanism of SOP Regulations are complied. Further, the Petitioner has prepared software for compliance of UPERC SOP Regulations, 2019 and making required arrangements. These expenditures fall in various heads under O&M Expenses. Hon'ble Commission is requested to allow the R&M expenses as mentioned under True-up Section.
11.3.44	The Commission directs that the direction of earlier Tariff Orders which have not been complied shall be complied immediately.	Immediate	The State DISCOMS submitted that they are obligated to follow the Commission's Directive.

9. Retail and Wheeling Business ARR Summary

- 9.1.1. Clause 39.1 of the MYT (Transmission and Distribution) Regulations, 2019 provide that ARR/Tariff filing by the Distribution Licensee shall separately records for the Distribution Wires Business and Retail Supply Business and shall prepare an Allocation Statement to enable the Hon'ble Commission to determine the Tariff separately for the Distribution Wires Business and Retail Supply Business. In case complete accounting segregation has not been done between the Distribution Wires Business and Retail Supply Business of the Distribution Licensee, the ARR of the Distribution Licensee shall be apportioned between the Distribution Wires Business and Retail Supply Business in accordance with an Allocation Matrix to be prepared by the Licensee and submitted for the Hon'ble Commission's approval.
- 9.1.2. The Petitioner humbly submits that complete segregation of account between wheeling and retail supply has still not taken place, therefore the Petitioner has adopted the basis of allocation of the expenses in line with the methodology used by the Hon'ble Commission in its last Tariff Order.
- 9.1.3. Allocations of Consolidated ARR into wheeling & retail supply for FY 2023-24 have been estimated into following table:

TABLE 9-1: WHEELING AND RETAIL SUPPLY FOR THE FY 2023-24 (IN RS. CR)

Particulars	Allocation %		Allocation (FY 2023-24)		
	Wheeling	Supply	Wheeling	Supply	Total
Power Purchase Expenses (incl PGCIL charges)	0%	100%	0.00	12,513.14	12,513.14
Apportionment of O&M Expenses & Interest & Finance Charges of UPPCL	0%	100%	0.00	0.00	0.00
Transmission Charges - Intra state (incl SLDC Charges)	0%	100%	0.00	675.51	675.51
Gross O&M Expenses					
Gross Employee cost	60%	40%	568.28	378.86	947.14
Gross A&G expenses	40%	60%	57.84	86.76	144.60
Gross R&M expenses	90%	10%	589.73	65.53	655.25
Smart Metering OPEX	0%	100%	0.00	85.87	85.87
Gross Interest & Finance charges	90%	10%	678.63	75.40	754.03
Depreciation	90%	10%	521.21	57.91	579.13
Gross Expenditure			2,415.69	13,938.97	16,354.66
Expense capitalization					
Employee cost capitalized	60%	40%	202.11	134.74	336.85
Interest capitalized	90%	10%	0.00	0.00	0.00
A&G expenses capitalized	40%	60%	0.00	0.00	0.00
Net Expenditure			2,213.58	13,804.23	16,017.81
Provision for Bad & Doubtful debts	0%	100%	0.00	258.11	258.11
Provision for Contingency Reserve	0%	100%	0.00	0.00	0.00
Total net expenditure with provisions			2,213.58	14,062.34	16,275.93
Add: Return on Equity	90%	10%	597.65	66.41	664.05
Less: Non-Tariff Income	0%	100%	0.00	50.65	50.65

Particulars	Allocation %		Allocation (FY 2023-24)		
	Wheeling	Supply	Wheeling	Supply	Total
Aggregate Revenue Requirement (ARR)			2,811.23	14,078.10	16,889.33

10. Wheeling Charges from Open Access Consumers

- 10.1.1. Clause 39.1 of the MYT (Transmission and Distribution) Regulations, 2019 provide that ARR/Tariff filing by the Distribution Licensee shall separately records for the Distribution Wires Business and Retail Supply Business and shall prepare an Allocation Statement to enable the Hon'ble Commission to determine the Tariff separately for the Distribution Wires Business and Retail Supply Business.
- 10.1.2. The wheeling charge has been computed on overall consolidated Discom basis keeping in line with the consistent philosophy of the Hon'ble Commission in past Tariff Orders and Clause 51 of the MYT (Transmission and Distribution) Regulations, 2019.

TABLE 10-1: WHEELING CHARGES FOR FY 2023-24

Wheeling Charges For FY 2023-24			
S.No..	Particulars	Units	FY 2023-24
1	Wheeling ARR	Rs. Crores	11884.70
2	Retail sales (PVVNL, DVVNL, MVVNL, PuVVNL, KESCO)	MU	114673.95
3	Average Wheeling Charge	Rs./kWh	1.04

TABLE 10-2: VOLTAGE-WISE WHEELING CHARGES FOR FY 2023-24

Voltage-Wise Wheeling Charges For FY 2023-24				
S.No..	Particulars	Units	% of Avg. wheeling charge	FY 2023-24
1	Connected at 11 kV			
I	Long Term	Rs./kWh	80%	0.83
ii	Medium Term	Rs./kWh	80%	0.83
iii	Short Term	Rs./kWh	80%	0.83
2	Connected above 11 kV			
I	Long Term	Rs./kWh	50%	0.52
ii	Medium Term	Rs./kWh	50%	0.52
iii	Short Term	Rs./kWh	50%	0.52

11. Cross Subsidy Surcharge (CSS)

11.1.1. The cross-subsidy surcharge for Open Access consumers has been computed in accordance with the methodology specified in Clause 49 of the UPERC MYT (Transmission and Distribution) Regulations, 2019.

11.1.2. As per Clause 49.2 of the UPERC MYT (Transmission and Distribution) Regulations, 2019, the cross-subsidy surcharge is to be computed based on the difference between (i) the tariff applicable to the relevant category of consumers and (ii) the cost of the Distribution Licensees to supply electricity to the consumers of the applicable class. In case of a consumer opting for open access, the Distribution Licensees could be in a position to discontinue purchase of power at the margin in the merit order. Accordingly, the cost of supply to the consumer for this purpose is computed as the aggregate of (a) per unit weighted average cost of power purchase including meeting the Renewable Purchase Obligation; (b) transmission and distribution losses applicable to the relevant voltage level and commercial losses allowed by the Hon'ble Commission; (c) transmission, distribution and wheeling charges up to the relevant voltage level; and (d) per unit cost of carrying regulatory assets, if applicable.

11.1.3. The Petitioner has computed the cross-subsidy surcharge for the relevant consumer categories as per the formula prescribed in Clause 49.2 of UPERC MYT (Transmission and Distribution) Regulations, 2019, which is reproduced as follows:

$$S = T - [C / (1 - L / 100) + D + R]$$

Where:

S is the Cross-Subsidy Surcharge;

T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation;

C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligation;

D is the aggregate of transmission, distribution and wheeling charge applicable to the relevant voltage level;

L is the aggregate of transmission, distribution and commercial losses, expressed as a percentage applicable to the relevant voltage level;

R is the per unit cost of carrying regulatory assets:

Provided that the Cross-Subsidy Surcharge shall not exceed 20% of the Tariff applicable to the category of the consumers seeking Open Access."

11.1.4. The category-wise Cross Subsidy Surcharge computed by the Petitioner for FY 2023-24 as per above formula is as given in the Table below:

TABLE 11-1: CROSS SUBSIDY SURCHARGE FOR FY 2023-24

CROSS SUBSIDY SURCHARGE FOR FY 2023-24																
S. No.	Categories	Revenue (IN RS. CR)	Sales (MU)	Average Billing Rate (T)* (Rs./kWh)	Wt. Avg. Pur. Cost (C)** (Rs./kWh)	Aggregate of Trasn., Dist. & Wh. Charges applicable to the relevant voltage level (Rs./kWh)					System Loss (% to the relevant voltage level)			Carrying Cost of Regulatory Assets (Rs./kWh) (R)	S=T-[C/(1-L/100)+D+R]	S*** (Rs./kWh)
						Transmission Charge		Distribution Charge	Wheeling Charge	Aggregate of Trasn., Dist. & Wh. Charges applicable to the relevant voltage level (D)	PGCIL	UPPTCL	Dist. Loss			
						Inter-State Trns. Charges	Intra-State Trns. Charges									
1	HV-1 (Supply at 11 kV)	3636.13	3874.79	9.38	4.84	0.26	0.25	0.39	0.83	1.73	0.04	0.03	0.15	0.00	1.58	1.58
2	HV-1 (Supply above 11 kV)	495.99	340.86	14.55	4.84	0.26	0.25	0.39	0.52	1.42	0.04	0.03	0.01	0.00	7.90	2.91
3	HV-2 (Supply upto 11 kV)	8046.64	9997.89	8.05	4.84	0.26	0.25	0.39	0.83	1.73	0.04	0.03	0.15	0.00	0.24	0.24
4	HV-2 (Supply above 11 kV & upto 66 kV)	2108.75	2754.16	7.66	4.84	0.26	0.25	0.39	0.52	1.42	0.04	0.03	0.01	0.00	1.01	1.01
5	HV-2 (Supply above 66 kV & above 132 kV)	442.54	600.46	7.37	4.84	0.26	0.25	0.39	0.52	1.42	0.04	0.03	0.00	0.00	0.76	0.76
6	HV-2 (above 132 kV)	145.37	210.20	6.92	4.84	0.26	0.25	0.39	0.52	1.42	0.04	0.03	0.00	0.00	0.31	0.31
7	HV-3 (For Metro Traction)	108.87	127.56	8.53	4.84	0.26	0.25	0.39	0.67	1.57	0.04	0.03	0.00	0.00	1.77	1.71
8	HV-4 (Supply at 11 kV)	360.68	383.41	9.41	4.84	0.26	0.25	0.39	0.83	1.73	0.04	0.03	0.15	0.00	1.60	1.60
9	HV-4 (Supply above 11 kV upto 66kV)	314.30	338.04	9.30	4.84	0.26	0.25	0.39	0.52	1.42	0.04	0.03	0.01	0.00	2.65	1.86

*Including reflecting the Renewable Purchase Obligation.
**Including meeting the Renewable Purchase Obligation.
***CSS shall not exceed 20% of the Tariff Applicable to the category of the consumer seeking Open Access.

12. Appeal before the Hon'ble APTEL on previous Tariff Orders

- 12.1.1. It is submitted that some of the claim in the Petition for FY 2018-19, was disallowed by the Hon'ble Commission in Order dated 03.09.2019. UPPCL has filed an Appeal bearing Appeal No. 389 of 2019 before the Hon'ble Appellate Tribunal for Electricity challenging the disallowance by the Hon'ble Commission. The said Appeal has been admitted by the Hon'ble Tribunal and is pending adjudication and will have a bearing in this Petition. In view thereof, it is submitted that UPPCL's claim in the present Petition is without prejudice to UPPCL's contentions in Appeal No. 389 of 2019.
- 12.1.2. It is submitted that some of the claim in the Tariff Petition for FY 2020-21, was disallowed by the Hon'ble Commission in Tariff Order dated 11.11.2020. DVVNL has filed an Appeal bearing DFR No. 159 of 2021 before the Hon'ble Appellate Tribunal for Electricity challenging the disallowance by the Hon'ble Commission. The said Appeal has been admitted by the Hon'ble Tribunal and is pending adjudication and will have a bearing in this Petition. In view thereof, it is submitted that UPPCL's claim in the present Petition is without prejudice to UPPCL's contentions in Appeal No. 159 of 2021.
- 12.1.3. It is submitted that some of the claim in the Petition for FY 2021-22, was disallowed by the Hon'ble Commission in Tariff Order dated 29.07.2021. This has been challenged before Hon'ble Appellate Tribunal for Electricity challenging the disallowance by the Hon'ble Commission
- 12.1.4. It is submitted that some of the claim in the Petition for FY 2022-23, was disallowed by the Hon'ble Commission in Tariff Order dated 20.07.2022. This has been challenged before Hon'ble Appellate Tribunal for Electricity challenging the disallowance by the Hon'ble Commission. DVVNL has filed an Appeal bearing DFR No. 385 of 2022 on 16.09.2022, before the Hon'ble Appellate Tribunal for Electricity challenging the disallowance by the Hon'ble Commission.

13. Prayers

The Petitioner humbly prays that the Hon'ble Commission may be pleased to:

- a) Admit the Petition accompanying True-Up for FY 2021-22, APR of 2022-23 and ARR for 2023-24.
- b) Allow the Petitioner to procure power through bilateral contracts/exchanges/short term contracts to maintain the desired schedule of supply in the Licensee area in case the power procurement from long term sources falls short of levels envisaged and accordingly allow the Petitioner to claim Incremental Power Purchase Cost on such purchases on quarterly basis and allow the variations in final truing up if any balance adjustment remains;
- c) Allow the Smart Meter OPEX expenses over and above the O&M expenses claim;
- d) Allow the expenses incurred by the Petitioner on account of Licensee fees paid to the Hon'ble Commission, over and above the O&M expenses claim;
- e) The norm approved by the Hon'ble Commission is based on historical parameters and does not cover the actual expenses incurred by the Licensee. It is prayed that the Hon'ble Commission may kindly allow the deviation in O&M norms as submitted under respective sections and amend the norms for parameters of O&M in accordance to the revisional power inherent under Regulation 56 "Power to remove difficulties" and Regulation 57 "Power to amend" of UPERC MYT for Distribution and Transmission Regulations 2019. To approve the Revenue Gap along with the carrying cost as claimed in True-Up and ARR section of this instant Petition;
- f) Allow the Petitioner to add/change / alter / modify this application at a future date;
- g) To condone any inadvertent omissions/ errors/ shortcomings and permit the Petitioners to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date;
- h) To pass such Orders as deemed fit and proper in the facts and circumstances of the case in the interest of justice.