



ग्रीड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उपक्रम)

GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)

[Formerly Power System Operation Corporation Limited (POSOCO)]

राष्ट्रीय भार प्रेषण केन्द्र/ National Load Despatch Centre

Notification of Transmission charges payable by DICs for Billing Month of January, 2024

No: TC/12/2023

Date: 25.12.2023

1. Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses), Regulations 2020 came into force with effect from 1.11.2020. National Load Despatch centre (NLDC) as the Implementing Agency under Sharing Regulations 2020 has been entrusted with the responsibility of computation of ISTS transmission charges and losses. As per Regulation (14)(5)(b), Transmission charges payable by DICs shall be notified by the Implementing Agency by 25th day of the month following billing period. The computation of transmission charges shall be done on the basis of inputs received from ISTS Licensees, DICs/ States, CTU as per the Regulations.
2. Central Electricity Regulatory Commission has notified three amendments to Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses), Regulations 2020 which came into force with effect from 1.10.2023, 1.11.2023 and 26.10.2023 respectively.
3. As per Regulation 24(1), all entities whose transmission elements have declared COD during the billing period shall submit to the Implementing Agency, network data, date(s) of commercial operation of the new transmission element and Yearly Transmission Charge (YTC) of such transmission element in the format stipulated by the Implementing Agency, on or before the end of the billing period.
4. As per Regulation 24(2), Implementing Agency shall publish the peak block of the billing period on the first day of the month following the billing period. Accordingly, NLDC had identified **47th time block (11:30 Hrs to 11:45 Hrs) on 3rd November, 2023** as a peak block for the billing period of Nov'23 and published the information of peak block on Grid-India website. Details of the inputs from entities have been received as per the stipulated timelines is enclosed as **Annexure-I**.
5. Based on the inputs furnished by ISTS licensees, Monthly Transmission Charges (MTC) to be considered in the computations have been shared with all ISTS licensees/ deemed ISTS licensees for review and comments on 15.12.2023 with last date of submission of comments as 18.12.2023.
6. Based on inputs furnished by DICs/ States, all India basic network has been prepared along with node wise generation and demand as per the peak block and made it available on Grid-India website on 15.12.2023 for review and comments of DICs/ States in line with the notified procedures with the last date for submission of comments as 18.12.2023.
7. The methodology involved in the computation exercise along with the assumptions followed in the computations are enclosed at **Annexure-II**.
8. CERC had notified the CERC (Connectivity and General Network Access to the inter-State Transmission System) (First Amendment) Regulations, 2023 on 01.04.2023 w.e.f 05.04.2023. As per Annexure-II of the said Regulations, titled as "Methodology to determine 'Direct drawal' by a State from a regional entity generating

station”, CTU will provide the list of regional entity generating stations (connected to STU and ISTS or only STU) to NLDC within a week of coming into effect of these Regulations for computation of Direct drawal by the state.

Accordingly, based on the inputs received from CTU, NLDC had computed GNash and GNAd and published the same on Grid-India website on 03.07.2023. Subsequently, CTUIL vide email dated 24.11.2023 has furnished revised list of eligible regional entity generating stations (connected to STU and ISTS or only STU) for computation of GNash and GNAd. Accordingly, NLDC has revised GNash and GNAd. Updated details of GNash and GNAd are uploaded on the Grid-India website and are also enclosed at Annexure- IX.

For computation of transmission charges of states, corresponding GNA has been reduced by quantum of GNAd of the state.

9. CERC vide notification dated 26.10.2023 has notified the CERC (Sharing of Inter-State Transmission Charges and Losses)(Third Amendment), Regulations 2023 w.e.f. 26th October,2023. Relevant part of the notification is as follows:

“(a) Regional Component of HVDC (RC-HVDC) comprising of 70% of Yearly Transmission Charges of HVDC transmission systems planned to supply power to the concerned region, except HVDC transmission systems covered under sub clauses (a), (b) and (c) of Clause (3) of Regulation 5:

Provided that where an inter-regional HVDC transmission system planned to supply power to a particular region is operated to carry power in the reverse direction due to system requirements, the percentage of Yearly Transmission Charges of such transmission systems to be considered in the Regional component and the National component shall be calculated as follows:

HVDCr (in %) = (MW capacity of power flow in the reverse direction / MW capacity of power flow in the forward direction) X100

Where, HVDCr (in %) is more than 30%, the Yearly Transmission Charges corresponding to HVDCr shall be considered in the National component and the balance in the regional component.

Where, HVDCr (in %) is equal to or less than 30%, 30% of Yearly Transmission Charges shall be considered in the National component and 70% in the Regional component:

.....”

Accordingly, Transmission charges for HVDC Raigarh-Pugalur has been computed based on the above methodology after considering 3000 MW capacity in the reverse direction and 6000MW capacity in the forward direction from date of coming into effect of CERC (Sharing of Inter-State Transmission Charges and Losses)(Third Amendment), Regulations 2023 which is 26.10.2023.

10. As per Annexure-III of CERC (Sharing of Inter-State Transmission Charges and Losses)(First Amendment), Regulations 2023, % waiver for transmission charges is to be computed based on the drawal schedule of drawee entities. Relevant part of the Regulations is as follows:

“(a) The transmission charges towards ISTS for each drawee DIC shall be computed in accordance with Regulations 5 to 8 of these regulations.

(b) The waiver of transmission charges shall be calculated in the following manner: -

(i) Waiver of a drawee DIC other than a drawee DIC which has obtained “GNARE” shall be calculated based on the following formulae:

$$\text{Waiver (\%)} = 100 \times \frac{\sum_{n=1}^T \frac{SDRTG}{SDTTG}}{T}$$

Where, "SDRG" is the drawl schedule (in MW) through ISTS under GNA from the sources eligible for waiver under Regulation 13 of these regulations in nth block;

"SDTG" is the total drawl schedule (in MW) under GNA through ISTS from all sources in nth block; "n" is the nth time block

"T" is number of time blocks in a month = 96 X number of days in a month

Provided that in case the "SDTG" for a time block is less than 75% of the maximum schedule corresponding to GNA, the "SDTG" shall be taken as 75% of maximum schedule corresponding to GNA for a time block. (ii) Waiver of a drawee DIC which has obtained "GNARE" shall be calculated based on the following formulae:

Waiver (%) = $100 \times (\text{sum of SDRTG for all time blocks in the month}) / (\text{total number of time blocks in the month} \times 0.3 \times T \text{-GNARE})$

Where, "GNARE" is the GNA to procure power only from the sources eligible for waiver under Regulation 13 of these regulations; "SDRG" is the drawl schedule (in MW) in a time block through ISTS under GNARE from the sources eligible for waiver under Regulation 13 of these regulations;

Provided that maximum waiver shall be limited to 100%: Provided further that if such an entity draws power from any source other than the sources eligible for waiver under Regulation 13 (2) of these regulations, except after obtaining additional GNA or T-GNA or converting GNARE into GNA by making an application to CTU, it shall be charged @TDR of the State in which such an entity is located."

In accordance with the above regulatory provisions, % waiver for drawee DICs has been computed considering the drawal schedule under GNA and GNA-RE.

11. Hon'ble CERC has notified order dated 15.12.2023 in Petition No. 638/MP/2020 in regard to applicability of Reliability Support Charges ('RSC') on NHPTL. Part of the order is as follows:

Quote

1. We are of the view that the Regional component comprising of STATCOMs and SVCs which are reactive power compensation devices or other transmission element(s) located in the concerned region are critical for providing stability, reliability and resilience to the grid and the same can be considered for purpose of levying grid charges. Further the short circuit power can be drawn only if grid is available, hence petitioner should be liable to pay a portion of transmission charges for transmission lines also. We are of the considered view that Petitioner should be charged at the rate equal to Regional Component rate for the State in which NHPTL is located for the corresponding billing period. The charges shall be levied to the Petitioner as follows:

Charge = Maximum MVA drawal achieved in previous quarter x pf (0.005) x Regional Component rate for Madhya Pradesh for the corresponding billing period

where: Regional component rate for Madhya Pradesh = Regional component charges for the month for Madhya Pradesh / (LTA +MTOA or GNA) for Madhya Pradesh

The rates as decided above shall be applicable from 01.11.2020. The charges recovered from NHPTL shall be reimbursed back to Designated ISTS customers in the next month bill.

2. Petitioner has requested for waiving of Reliability charges for past period prior to 1.11.2020 stating that it has not utilised the grid for 17 months as it did not carry out any test. We are not inclined to give any waiver of charges for the period covered under the 2010 Sharing Regulations,

where billing has been already been done in terms of our previous Orders. Accordingly, the Petitioner shall be liable to pay charges till 31.10.2020 in terms of our previous Orders and from 1.11.2020 in terms of the instant Order.

Unquote

Accordingly, charges payable by NHPTL has been computed for billing period Nov'23 and given at Annexure-III.

12. Accordingly, the transmission charges are hereby notified for the billing month of January'24 mentioned as follows:

- a) Various components of the transmission charges determined have been added for each DIC in order to compute total transmission charges payable by the DIC.
- b) The transmission charges are computed separately for both GNA and T-GNA :
 - For GNA billing in ₹: These charges are calculated only for Drawee DICs.
 - For T-GNA billing in (Rs./MW/block) : These rates are calculated for all the states.
- c) The notified transmission charges payable by DICs for the billing month of January'24 shall be used by RPCs for preparation of Regional Transmission Account (RTA) for the billing month of January'24 considering details of GNA enclosed along with this notification.
- d) The notified waiver % of Drawee DICs for the billing month of January'24 shall be used by CTUIL for computation of waiver amount of drawee DICs.
- e) Transmission charges shall be payable by the entities who are granted T-GNA or T-GNARE under Regulation 26.1 of the GNA Regulations.
- f) The notified transmission charges for T-GNA bilateral transactions shall be applicable for the applications received on or after 00:00 Hrs of the next day (D+1) following the date of this notification (D). In the case of T-GNA collective transactions, both DAM and RTM, the notified transmission charges shall be applicable from the delivery day D+2 following the date of this notification.
- g) The transmission charges payable by DICs for GNA are given at **Annexure-III**.
- h) Waiver % of Drawee DICs are attached as **Annexure-IV**
- i) Applicable T-GNA rates are attached as **Annexure-V**.
- j) Details of GNA and GNA-RE is given at **Annexure-VI**.
- k) ISTS licensee wise break up of Monthly Transmission Charges (MTC) is given at **Annexure-VII**.
- l) Entity-wise details of bilateral billing are given separately at **Annexure-VIII**.
- m) Details of transmission charges to be paid to Transmission Licensees as per Regulation 13(12) are given separately at **Annexure-IX**.
- n) Details of GNash and GNAd is given at **Annexure-X**.

नीरज कुमार
25/12/2023

(नीरज कुमार)

महाप्रबंधक/ रा. भा. प्रे. के.

Input Data furnished by DICs/ ISTS Licensees/ CTU

1. As per Regulation 24(1) of Sharing Regulations 2020, some of the ISTS Licensees have submitted YTC data by 30.11.2023. Torrent Power Grid Limited and Koppal-Narendra Transmission Limited have submitted its YTC on 01.12.2023. PowerGrid has submitted its YTC and YTC of its SPV's on 03.12.2023. Power Transmission Corporation Of Uttarakhand Ltd. and Chhattisgarh State Power Transmission Company Limited have submitted their YTC on 07.12.2023. Further, PowerGrid submitted its Format I(C) on 15.12.2023. The list of ISTS licensees that have submitted YTC data is mentioned as below.

List of ISTS Licensees submitted the YTC data for the billing period November'23

Sl. No.	Name of ISTS Licensee
1	Powergrid Corporation Of India Ltd
2	Adani Transmission (India) Limited
3	Chhattisgarh-WR Transmission Limited.
4	Raipur Rajnandgaon-WR Transmission Limited.
5	Sipat Transmission Limited.
6	Western Transmission Gujarat Limited
7	Western Transco Power Limited
8	Alipurduar Transmission Limited
9	Fatehgarh-Bhadla Transmission Ltd.
10	North Karanpura Transco Limited
11	Bikaner-Khetri Transmission Limited
12	Jam Khambaliya Transco Limited
13	Lakadia-Banaskantha Transmission Limited
14	WRSS XXI (A) Transco Limited
15	Karur Transmission Limited
16	Essar Power Transmission Company Limited
17	Parbati Koldam Transmission Company Limited
18	Bhopal Dhule Transmission Company Ltd.
19	East North Interconnection Company Limited

Sl. No.	Name of ISTS Licensee
20	Gurgaon Palwal Transmission Limited
21	Jabalpur Transmission Company Limited
22	Maheshwaram Transmission Limited
23	Khargone Transmission Company Ltd.
24	Goa Tamnar Transmission Projects Limited
25	Mumbai Urja Marg Limited
26	Lakadia Vadodara Transmission Company Limited
27	NRSS-XXIX Transmission Limited
28	Odisha Generation Phase-II Transmission Limited
29	Patran Transmission Company Limited
30	Purulia & Kharagpur Transmission Company Limited
31	Rapp Transmission Company Limited
32	NER-II Transmission Limited
33	Torrent Power Grid Limited
34	Darbhanga-Motihari Transmission Company Limited
35	NRSS XXXI (B) Transmission Limited
36	Powergrid Himachal Transmission Ltd (Jaypee Powergrid Limited)
37	Kohima Mariani Transmission Limited
38	Raichur Sholapur Transmission Company Private Limited
39	Koppal-Narendra Transmission Limited
40	Powerlinks Transmission Limited
41	NRSS XXXVI Transmission Limited
42	Warora-Kurnool Transmission Limited
43	Powergrid Vizag Transmission Limited
44	Powergrid NM Transmission Limited
45	Powergrid Unchahar Transmission Limited
46	Powergrid Parli Transmission Limited

Sl. No.	Name of ISTS Licensee
47	Powergrid Kala Amb Transmission Limited
48	Powergrid Southern Interconnector Transmission System Limited
49	Powergrid Jabalpur Transmission Limited
50	Powergrid Warora Transmission Limited
51	Powergrid Medinipur Jeerat Transmission Limited
52	Powergrid Mithilanchal Transmission Limited
53	Powergrid Ajmer Phagi Transmission Limited
54	Powergrid Varanasi Transmissoin System Limited
55	Powergrid Fatehgarh Transmission Limited
56	Powergrid Khetri Transmission System Ltd.
57	Powergrid Bhuj Transmission Limited
58	Powergrid Bikaner Transmission System Limited
59	Transmission Corporation Of Andhra Pradesh
60	Power Transmission Corporation Of Uttarakhand Ltd.
61	Chhattisgarh State Power Transmission Company Ltd.
62	Haryana Vidyut Prasaran Nigam Limited

2. As per Sharing Regulations 2020 and NLDC notified Procedure for collection of data and information, CTU shall submit all required data and information as stipulated in Formats II(A) to II(G) within 7 days after the end of the billing period i.e. by 07.12.2023. NLDC had provided the detailed list of ISTS assets of all licensees for segregation into various components as per stipulated formats on 04.12.2023. CTU have submitted data in formats II(C), II(D), II(F), II-(G1) to II-(G4) & II(H) on 07.12.2023. Further, CTU have submitted data in formats II(A), II(B), II(E) and II-(G5) on 15.12.2023. Furthermore, CTU submitted revised format II(C) on 22.12.2023.

3. As per Regulation 24(4) and NLDC notified Procedure for collection of data and information, DICs shall submit the required information to the Implementing Agency as stipulated in Formats III and IV for the billing period within 7 days after end of the billing period. The list of the DICs that have submitted the data by 07.12.2023 is as mentioned below:

S.NO.	WR	SR	NR	NER	ER
1	Chattisgarh	Andhra Pradesh	Uttar Pradesh	Assam	Odisha
2	Gujarat	Telangana	Haryana	Manipur	
3	MP	Karnataka	Himachal Pradesh	Meghalaya	

4	Maharashtra	Kerala	Delhi	Mizoram	
5	Goa	Tamil Nadu	Rajasthan	Nagaland	
6	D&D and DNH	Galiveedu (Karnal P1, Hisar P3 & Bhiwadi P6)	Punjab	Tripura	
7	Hazira	PVG Renew-TN2	Renew Solar Power Private Ltd.		
8	ACBIL	PVG ADYAH			
9	Spectrum Power	PVG Azure Earth			
10	Maruti Coal Power	PVG Parampujya			
11	BALCO	Ayana NP Kunta			
12	DB Power Ltd.	ANP AZURE			
13	DGEN	PVG AMPLUS Tumkur and PVG AMPLUS Pavagada			
14	Dhariwal	Fortum Finnsurya Energy Private Ltd. (Pavagada Solar Park)			
15	GMR Warora	Yarrow Infra Structure Private Ltd. (Pavagada Solar Park)			
16	Raipur Energen	PVG AdaniKANine			
17	Jindal Stg-1	NTPC Ettayapuram			
18	JPL Stg-2				
19	Jhabua Power				
20	JP Nigrie				
21	KAPS 1&2				
22	Raigarh Energy				
23	KSK Mahanadi				
24	LANCO				

25	MB Power				
26	Essar Mahan				
27	NSPCL Bhilai				
28	Ratnagiri Dabhol(RGPPL)				
29	RKM Power				
30	Sasan UMPP				
31	SKS Power				
32	SSP				
33	TRN Energy				
34	Naranpar Ostro				
35	ACME RUMS				
36	Mahindra Renewables Pvt. Ltd.				
37	ARINSUM				
38	Bhuvad Renew				
39	Vadwa Green Infra				
40	Roha Green infra				
41	Dayapar Inox				
42	Ratadiya AGEMPL				
43	Alfanar wind				
44	Renew AP2 Gadhsisa				
45	Avikiran				
46	Powerica				
47	SESPL Morjar				
48	SKRPL				
49	SBESS				
50	Netra Wind				

51	AWEK4L				
52	Apraava				
53	SRSSFPL				
54	MSEPL				
55	Torrent Sidhpur				

Methodology of the computations and assumptions followed in the basic network

a) Modeling of the Basic Network

- A. The All India network was modeled with the help of network data and node wise generation and demand data furnished by DICs. Wherever network data has not been provided by DICs, network data already available at RLDCs/NLDC has been considered. Wherever technical parameters were not furnished, standard parameters as per CEA Manual on Transmission Planning Criteria have been used.
- B. Certain Transmission Lines included in the basic network were partly owned by ISTS Licensee and partly by STUs. There were cases where the existing lines originally owned by one utility have been made LILO by other utility. In cases where the line originally owned by ISTS Licensee has been made LILO by STU, the Monthly Transmission Charge for the entire line has been considered (including the section owned by STU). In cases where the line originally owned by STU has been made LILO by ISTS Licensee, the Monthly Transmission Charge for the entire line has not been considered.
- C. All India basic network up to 66/ 33 kV level and at some nodes even till 0.4 kV level has been prepared. As per the Sharing Regulations 2020, basic network means power system at voltage levels of 110 kV and above, containing all power system elements including generating station and transmission systems.
- D. In line with Sharing Regulations 2020, all India basic network has been truncated to 110 kV level. Power flow into lower voltage system has been considered as load at the substation at truncated point. Power flow from a lower voltage system has been considered as generation at the substation at truncated point.
- E. To account for the transmission losses of the truncated lower voltage network and to ensure state drawal as per SEM data corresponding to peak block, minor adjustments in states generation has been done.
- F. Interstate generating Stations (ISGS) connected at 220kV and below voltage level are created as separate control areas.
- G. 400 kV Singrauli considered as slack bus.

b) Load Generation balance for the basic network

- A. Node wise generation and demand data for the peak block as submitted by DICs has been considered to prepare Load Generation balance.
- B. Wherever aggregate generation and demand data submitted by DICs, the generation and demand data has been distributed across the nodes of the DICs as per the node wise distribution of the TTC/ATC base case applicable for Nov'23.
- C. Wherever node wise generation and demand data has not been provided by DICs, SEM data/ SCADA data available with NLDC/RLDCs has been considered. In the absence of SEM/ SCADA data, the node wise generation and demand data as available from TTC/ ATC base case / recently submitted base case of states has been considered.

c) Commercial Data considered in the computations

- A. The data as submitted by the ISTS Licensees has been examined by NLDC and suitably considered for computation of transmission charges for DICs for the billing period Nov'23. For the ISTS licensees who have not submitted YTC data for Nov'23, the YTC data recently available with reference to the previous computations have been considered.
- B. All ISTS transmission assets commissioned by the end of Nov'23 as furnished by ISTS licensees have been considered in the computations.

- C. Yearly Transmission Charges (YTC) based on approved/ adopted tariff by CERC has only been considered in line with Sharing Regulations 2020. RPC certified non-ISTS lines as ISTS lines have not been considered in the computations.
- D. The assets of State Utilities whose approved Tariff by the Commission is not available as on 31.03.2019 are not being considered in the computations since 2019-20 Q3 in line with Terms & Conditions of Tariff Regulations. The same is continued in this computation.
- E. As per minutes of Validation Committee meeting held for 2020-21 Q2 PoC computations, for the assets of Essar Power transmission limited, combined tariff of LILO of 400kV Vindhyachal-Korba at Mahan, GIS S/s at Hazira and 400kV Hazira-Gandhar line) was being excluded from PoC computations in the absence of exclusive tariff of LILO of 400kV Vindhyachal-Korba at Mahan since 2020-21 Q2. As per CERC Order dated 04.06.2021 in I.A. No. 32/2021 in Petition No. 92/MP/2021, Exclusive tariff of 400kV Hazira-Gandhar Line and GIS S/s at Hazira has been approved and same has been considered for billing period Nov'23.
- F. As per Regulation (13) clauses (3), (6), (9), the YTC of assets claimed by licensees have been examined to find out whether the YTC to be completely or partly billed to generators. Accordingly, transmission charges have been computed for DICs in line with the Regulations.
- G. All ISTS assets corresponding to the bilateral payments on the basis of information furnished by ISTS licensees and the worked out bilateral payments in line with Regulation (13) have been considered while preparing final transmission charges for DICs.
- H. The components of Yearly Transmission Charges such as National Component for RE (NC-RE), National Component for HVDC (NC-HVDC), Regional Component (RC) and Transformers Component (TC) have been worked out on the basis of the inputs furnished by CTU.
- I. Indicative cost level of different conductor configuration was provided by CTU and is as follows:

Sl. No.	Voltage level (kV)	Type of conductor configuration	Indicative cost (Rs.Lakh/km)
1	± 800	HVDC	368
2	± 500	HVDC	179
3	765	D/C	521
4	765	S/C	234
5	400	S/C	98
6	400	M/C TWIN	461
7	400	D/C Quad Moose	291
8	400	D/C Twin HTLS	224
9	400	D/C Twin Moose	170
10	400	M/C QUAD	869
11	400	D/C TRIPLE	238
12	400	S/C QUAD	161
13	220	D/C	72
14	220	S/C	54
15	220	M/C TWIN	331

16	132	D/C	49
17	132	S/C	28
18	132	M/C TWIN	234

- J. The indicative cost levels provided by CTU are for only selected configurations and voltage level. Hence, for the conductor configurations which are not mentioned in the above list, following assumptions have been made:
- a. The indicative cost level of 765 kV lines (Quad Bersimis) charged at 400 kV has been considered to be same as cost of one circuit of 400 kV Quad Moose D/C.
 - b. The indicative cost level of 400 kV Quad Bersimis D/C has been considered to be same as 400 kV Quad Moose D/C.
 - c. The indicative cost level of 765 kV Hexa zebra has been considered to be same as 765 kV Quad Bersimis.
 - d. The indicative cost levels of 400 kV ACKC, ACAR, AAAC, Moose, Zebra and Lapwing have been considered to be same as 400 kV Twin Moose depending on the no. of circuits.
 - e. 400 kV lines (Twin Moose) charged at 220 kV are charged as per the rate of 220 kV D/C lines.
- K. Circuit Kms of RE lines considered as National component has been considered as zero.
- L. Circuit Kms of the assets covered under Regulation (13) clauses (3), (6), (9), have been pro-rata adjusted with respect to YTC considered for bilateral payment wherever YTC are to be partly included in the computations.

d) Computation of Usage part of AC system charges

- A. The usage part of AC system charges has been computed by running AC load flow and determining the utilization of the lines with respect to SIL of the lines. For SIL of lines at various voltage levels, annexure-II to Regulations has been followed.
- B. AC Usage Base Charges (AC-UBC) thus determined has been used for apportionment through hybrid method and computed total aggregated nodal charges in ₹ for each drawee DIC.

Transmission Charges for Designated ISTS Customers (DICs) for the billing month of January,2024

S.No.	Zone	Region	GNA (in MW)	Usage based AC system charges (₹)	Balance AC system charges (₹)	National Component (₹)		Regional Component (₹)	Transformers component (₹)	Bilateral Charges (₹)	Total Transmission charges payable in ₹ (without waiver)
				AC-UBC	AC-BC	NC-RE	NC-HVDC	RC	TC		
1	Delhi	NR	4810	195505836	737243813	116769235	120210737	213665365	58398502		1441793487
2	UP	NR	9779	586498472	1498858055	237398409	244395177	434393680	136044155		3137587947
3	Punjab	NR	5497	232021615	842542461	133447086	137380130	244182642	106806459		1696380393
4	Haryana	NR	5143	297951586	788283769	124853259	128533019	228457582	205449640		1773528855
5	Chandigarh	NR	342	9070591	52419415	8302511	8547208	15192007	3148659		96680391
6	Rajasthan	NR	5689	393145424	871970904	138108145	142178562	252711489	91322493		1889437017
7	HP	NR	1130	65151445	173198650	27432274	28240776	50195813	36847206		381066164
8	J&K	NR	1977	181271733	303021002	47994340	49408862	87820463	52589147		722105548
9	Uttarakhand	NR	1402	123379681	214888945	34035440	35038556	62278345	31937751		501558718
10	Railways-NR-ISTS-UP	NR	130	6811725	19925508	3155925	3248939	5774740			38916837
11	PG-HVDC-NR	NR	8	445145	1226185	194211	199935	355369			2420844
12	Northern Railways	NR							2751393		2751393
13	North Central Railways	NR							2009604		2009604
14	RAPP 7&8, NPCIL	NR								31460820	31460820
15	Adani Renewable Energy Park Rajasthan Limited	NR								16823	16823
16	ACME Solar Holdings Pvt. Ltd	NR								1886528	1886528
17	THDC India Ltd.	NR								41665820	41665820
18	NRSS XXXVI Transmission Ltd.	NR								493828	493828
19	Gujarat	WR	10704	781522738	1640707749	259865442	267524372	117370019	66226606	5151721	3138368647
20	Madhya Pradesh	WR	10587	919921976	1622727277	257017583	264592580	116083764	144541454		3324884635

S.No.	Zone	Region	GNA (in MW)	Usage based AC system charges (₹)	Balance AC system charges (₹)	National Component (₹)		Regional Component (₹)	Transformers component (₹)	Bilateral Charges (₹)	Total Transmission charges payable in ₹ (without waiver)
				AC-UBC	AC-BC	NC-RE	NC-HVDC	RC	TC		
21	Maharashtra	WR	9349	1338471643	1432916884	226954239	233643188	102505448	81815214		3416306615
22	Chhattisgarh	WR	3276	105671613	502122813	79529317	81873259	35919965	22015666		827132632
23	Goa	WR	548	52299826	83993682	13303439	13695527	6008590	11529318		180830382
24	DNHDDPDCL	WR	1126	150206268	172585558	27335168	28140809	12346117	36907145		427521065
25	ArcelorMittal Nippon Steel India Ltd (formerly Essar Steel)	WR	563	30216593	86292779	13667584	14070404	6173059	8498514		158918933
26	PG-HVDC-WR	WR	5	95533	766366	121382	124959	54823			1163062
27	BARC	WR	5	419113	766366	121382	124959	54823			1486642
28	Adani Power Limited	WR								252797148	252797148
29	Mahan Energen Limited (formerly Essar Power M.P. Ltd)	WR								48812787	48812787
30	Andhra Pradesh	SR	4199	388740438	643593923	101936386	104940725	205856400	42715050		1487782921
31	Telangana	SR	5801	371682239	889137496	140827096	144977648	284394612	36486606		1867505697
32	Tamil Nadu	SR	8765	591853804	1343439089	212782192	219053454	429705011	91225083		2888058633
33	Kerala	SR	2679	268351245	410618747	65036337	66953132	131338246	61227092		1003524799
34	Karnataka	SR	4376	583206011	670723269	106233300	109364280	214533842	109198752		1793259454
35	Pondicherry	SR	540	19552325	82767497	13109228	13495592	26473555	12483358		167881554
36	PG-HVDC-SR	SR	6	519909	942630	149300	153700	301504			2067043
37	BHAVINI	SR								16001148	16001148

S.No.	Zone	Region	GNA (in MW)	Usage based AC system charges (₹)	Balance AC system charges (₹)	National Component (₹)		Regional Component (₹)	Transformers component (₹)	Bilateral Charges (₹)	Total Transmission charges payable in ₹ (without waiver)
				AC-UBC	AC-BC	NC-RE	NC-HVDC	RC	TC		
38	Betam	SR								466659	466659
39	AP Solar Power Corporation Pvt Ltd (APSPCL)	SR								790164	790164
40	JSW Renew Energy Ltd.	SR								18336066	18336066
41	ReNew Solar Power Pvt Ltd.	SR								10966099	10966099
42	Renew Surya Ojas Pvt. Ltd.	SR								13063356	13063356
43	Ayana Renewable Power Six Private Limited	SR								13063356	13063356
44	West Bengal	ER	3516	219479587	538908367	85355640	87871300	78329144	55367809		1065311847
45	Odisha	ER	2157	79607306	330610167	52364083	53907393	48053460	68579974		633122383
46	Bihar	ER	4847	129980024	742914919	117667460	121135435	107981047	174238363		1393917248
47	Jharkhand	ER	1110	40136512	170133188	26946747	27740939	24728484	58888940		348574810
48	Sikkim	ER	111	2410422	17013319	2694675	2774094	2472848	2621304		29986662
49	DVC	ER	956	38838720	146529124	23208189	23892196	21297685	9174842		262940756
50	Bangladesh	ER	982	18091457	150514225	23839374	24541984	21876911			238863951
51	Railways-ER-ISTS-Bihar	ER	20	58861	3065463	485527	499837	445558			4555246
52	PG-HVDC-ER	ER	2	255216	306546	48553	49984	44556			704855
53	NTPC, North Karanpura STPP, Jharkhand	ER								8398953	8398953
54	Arunachal Pradesh	NER	117	20132630	17932958	2840333	2924045	4463059	11068234		59361258

S.No.	Zone	Region	GNA (in MW)	Usage based AC system charges (₹)	Balance AC system charges (₹)	National Component (₹)		Regional Component (₹)	Transformers component (₹)	Bilateral Charges (₹)	Total Transmission charges payable in ₹ (without waiver)
				AC-UBC	AC-BC	NC-RE	NC-HVDC	RC	TC		
55	Assam	NER	1396	125198934	213969306	33889782	34888605	53251537	21710308		482908472
56	Manipur	NER	177	6626399	27129346	4296914	4423555	6751807	3164646		52392667
57	Meghalaya	NER	238	30618893	36479008	5777771	5948057	9078700	389134		88291564
58	Mizoram	NER	116	4217297	17830776	2824149	2907384	4437628	1018494		33235727
59	Nagaland	NER	128	7023012	19618962	3107373	3198955	4882662	21931493		59762457
60	Tripura	NER	311	3571562	47667947	7549944	7772461	11863344	22542687		100967945
61	PG-HVDC-NER	NER	1	189841	183928	29132	29990	45775			478666
TOTAL			114622.09	8420421198	17568488376	2782605854	2864616705	3684151479	1902871096	463371275	37686525983

Transmission Charges to be paid by DICs under Regulation 13(7)

Where Connectivity is granted to a generating station on existing margins and COD of the generating station or unit(s) thereof is delayed

Sl.No.	Name of Generating Station	Connectivity Granted by CTU (MW)	Commissioned Connectivity Capacity (MW)	Date of Commercial Operation	Details of effectiveness of connectivity / GNA	Delayed Connectivity Capacity (MW)	Transmission Charges (₹)	Remarks
1	ReNew Power Limited	300	230.1	126MW:18.05.19 58.5MW: 01.10.19 27.6MW: 02.09.20 18MW: 07.02.2021	300MW: 01.05.19	69.9	209700	
2	ReNew Power Limited	50	0	Yet to be commissioned	50MW: 23.11.19	50	150000	
3	SJVN Ltd. (Naitwar Mori HEP)	60	30	30MW:24.11.2023	60MW: 30.09.2022	30	159000	Charges computed for 23 days corresponding to 60MW and for 7 days corresponding to 30MW.
4	NTPC Ltd. (Rihand Solar)	20	0	-	20MW: 20.10.2022	20	60000	
5	Masaya Solar Energy Private Ltd	300	250	COD 150MW: 21.06.2023 COD 100MW: 08.09.2023	300 MW: 25.03.2022	50	150000	
6	Nuclear Power Corporation of India Ltd (Kakrapar)	1400	700	700MW (U3): 30.06.2023	30.06.2023 (NPCIL vide email dated 29.06.2023 requested to operationalise 700MW out of 1400MW w.e.f. 30.06.2023 upon commissioning of 700MW)	700	2100000	
7	JSW Neo Energy Ltd.	300	232.2	27 MW: 05.12.2022 (COD) 51.3 MW: 22.04.2023 (COD) 13.5 MW: 10.05.2023 (COD) 24.3 MW: 27.05.2023 (COD) 13.5 MW: 06.06.2023 (COD) 18.9 MW: 06.07.2023 (COD) 21.6 MW: 29.07.2023 (COD) 27 MW: 30.08.2023 (COD) 18.9 MW: 28.09.2023 (COD) 16.2 MW: 11.11.2023 (COD)	01.10.2023	67.8	219600	Charges computed for 10 days corresponding to 84MW and for 20 days corresponding to 67.8MW.

Transmission charges for NHPTL as per CERC order dated 15.12.2023 in Petition No. 638/MP/2020

Name of DIC	Maximum MVA drawal achieved in previous quarter	pf	Regional Component for Madhya Pradesh for the corresponding billing period	GNA of Madhya Pradesh for the corresponding billing period	Regional Component rate for Madhya Pradesh for the corresponding billing period	Transmission Charges in Rs.
NHPTL	4079.87	0.005	116083764	10587	10965	223670

Details of Waiver % of DICs for November,2023 billing period

Region	State	DICs	Waiver(%)
ER	Bihar	Bihar DISCOMS	7.675
ER	Bihar	Railways-Bihar	0.000
ER	DVC	DVC DISCOM & JBVNL	0.713
ER	DVC	Railways-DVC	0.000
ER	DVC	Tata steel	0.000
ER	West Bengal	WBSEDCL	0.236
ER	West Bengal	CESC	0.000
ER	West Bengal	IPCL	46.125
ER	Jharkhand	JBVNL	17.929
ER	Jharkhand	SE Railways-Jharkhand	0.000
ER	Odisha	Odisha	10.428
ER	Sikkim	Sikkim	0.000
ER	Bangladesh	Bangladesh	0.000
ER		PG_HVDC_ER	0.000
ER		Railways-ER-ISTS-Bihar	0.000
NER	Arunachal Pradesh	Arunachal Pradesh	0.000
NER	Assam	Assam	1.918
NER	Manipur	Manipur	0.000
NER	Meghalaya	Meghalaya	0.000
NER	Mizoram	Mizoram	0.000
NER	Nagaland	Nagaland	0.000
NER	Tripura	Tripura	0.000
NER		PG-HVDC-NER	0.000
NR	Punjab	PSPCL	7.616
NR	Punjab	Northern Railways	0.000
NR	Haryana	Haryana	10.609
NR	Haryana	Railways_BRBCL_HARYANA	0.000
NR	Rajasthan	Rajasthan DISCOMs	1.236
NR	Rajasthan	Railways	0.000
NR	Delhi	Delhi DISCOMs	9.845
NR	Delhi	Delhi Metro Rail Corporation Metro	100.000
NR	Uttar Pradesh	UPPCL	7.381
NR	Uttar Pradesh	NPCL	0.793
NR	Uttar Pradesh	Railway	0.000
NR	Uttrakhand	Uttrakhand	0.000
NR	Himachal pradesh	Himachal pradesh	0.591
NR	Jammu & Kashmir	Jammu & Kashmir	0.313
NR	Chandigarh	Chandigarh	2.953
NR		Railways-NR-ISTS-UP	5.035
NR		PG-HVDC-NR	0.000
SR	Andhra Pradesh	Andhra Pradesh	8.615
SR	Karnataka	Karnataka_DISCOMS	11.470

Region	State	DICs	Waiver(%)
SR	Karnataka	Railways_Karnataka	7.292
SR	Kerala	KSEB	1.556
SR	Puducherry	Puducherry	13.628
SR	Tamil Nadu	TANGEDCO	1.315
SR	Tamil Nadu	SAIL Steel Plant Salem	0.000
SR	Telangana	TSSPDCL	9.092
SR		PG-HVDC_SR	0.000
WR	Chhattisgarh	CSPDCL	9.248
WR	DD&DNH	DD&DNH	0.000
WR	Goa	Goa	4.936
WR	Gujarat	GUVNL	1.629
WR	Gujarat	Indian Railways	0.000
WR	Gujarat	MPSEZ Utilities Ltd., Mundra	0.000
WR	Gujarat	Torrent Power Limited Dahej	0.000
WR	Gujarat	Torrent Power Ltd Discom Ahmedabad	0.000
WR	Gujarat	Torrent Power Limited DISCOM Surat	0.000
WR	Gujarat	Heavy Water Board_DAE	0.000
WR	Madhya Pradesh	MPPMCL	4.039
WR	Madhya Pradesh	WCR	0.000
WR	Maharashtra	MSEDCL	6.444
WR	Maharashtra	Adani Electricity Mumbai Limited	47.670
WR	Maharashtra	Tata Power Company Ltd, Maharashtra	25.985
WR	Maharashtra	Central Railways	0.000
WR		PG-HVDC_WR	0.000
WR		Arcelormittal Nippon Steel India Ltd. (Essar Steel)	0.000
WR		BARC	0.000

**Transmission Charges for Temporary General Network Access (T-GNA) for billing
month January,2024**

S.No.	State	Region	T-GNA rate (Rs./MW/block)
1	Delhi	NR	114.49
2	UP	NR	122.44
3	Punjab	NR	117.87
4	Haryana	NR	131.71
5	Chandigarh	NR	107.97
6	Rajasthan	NR	126.85
7	HP	NR	128.80
8	J&K	NR	139.51
9	Uttarakhand	NR	136.64
10	Gujarat	WR	111.60
11	Madhya Pradesh	WR	119.95
12	Maharashtra	WR	139.56
13	Chhattisgarh	WR	96.43
14	Goa	WR	126.06
15	Daman and Diu and Dadra and Nagar Haveli	WR	145.02
16	Andhra Pradesh	SR	135.33
17	Telangana	SR	122.96
18	Tamil Nadu	SR	125.85
19	Kerala	SR	143.07
20	Karnataka	SR	156.52
21	Pondicherry	SR	118.74
22	West Bengal	ER	115.73
23	Odisha	ER	112.11
24	Bihar	ER	109.75
25	Jharkhand	ER	119.94
26	Sikkim	ER	103.18
27	DVC	ER	105.05
28	Bangladesh	ER	92.91
29	Arunachal Pradesh	NER	193.78
30	Assam	NER	132.12
31	Manipur	NER	113.06
32	Meghalaya	NER	141.69
33	Mizoram	NER	109.12
34	Nagaland	NER	178.33
35	Tripura	NER	124.00

Details of GNA and GNA-RE for billing period November,2023

S.No.	Drawee DIC	Region	GNA/GNA-RE (in MW)
1	Delhi	NR	4810.0
2	UP	NR	9779.0
3	Punjab	NR	5497.0
4	Haryana	NR	5143.0
5	Chandigarh	NR	342.0
6	Rajasthan	NR	5689.0
7	HP	NR	1130.0
8	J&K	NR	1977.0
9	Uttarakhand	NR	1402.0
10	Railways-NR-ISTS-UP	NR	130.0
11	PG-HVDC-NR	NR	8.0
12	Gujarat	WR	10704.5
13	Madhya Pradesh	WR	10587.2
14	Maharashtra	WR	9348.8
15	Chhattisgarh	WR	3276.0
16	Goa	WR	548.0
17	DNHDDPDCL	WR	1126.0
18	ArcelorMittal Nippon Steel India Ltd (formerly Essar Steel)	WR	563.0
19	PG-HVDC-WR	WR	5.0
20	BARC	WR	5.0
21	Andhra Pradesh	SR	4199.0
22	Telangana	SR	5801.0
23	Tamil Nadu	SR	8765.0
24	Kerala	SR	2679.0
25	Karnataka	SR	4376.0
26	Pondicherry	SR	540.0
27	PG-HVDC-SR	SR	6.2
28	West Bengal	ER	3516.0
29	Odisha	ER	2157.0
30	Bihar	ER	4847.0
31	Jharkhand	ER	1110.0
32	Sikkim	ER	111.0
33	DVC	ER	956.0
34	Bangladesh	ER	982.0
35	Railways-ER-ISTS-Bihar	ER	20.0
36	PG-HVDC-ER	ER	2.0
37	Arunachal Pradesh	NER	117.0
38	Assam	NER	1396.0
39	Manipur	NER	177.0
40	Meghalaya	NER	238.0
41	Mizoram	NER	116.3
42	Nagaland	NER	128.0
43	Tripura	NER	311.0
44	PG-HVDC-NER	NER	1.2

TOTAL**114622.1**

Transmission Charges claimed by ISTS licensees for the billing period November'23

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for November'23 (₹ Cr)	Equivalent MTC to be considered for November'23 (₹ Cr)	Remarks
1	Powergrid Corporation Of India Ltd	35417.63	35417.63	2903.08	As per data furnished by ISTS Licensee for November'23. MTC of the assets listed under Regulation 13(3) shall be partly settled through the bilateral payments from respective entities as detailed in the transmission charges bill. PowerGrid assets for bilateral payments as mentioned in format I-C are also included in this total YTC claimed.
2	Adani Transmission (India) Limited	595.43	595.43	48.81	As per data furnished by ISTS Licensee for November'23
3	Chhattisgarh-WR Transmission Limited.	168.20	168.20	13.79	As per data furnished by ISTS Licensee for November'23
4	Raipur Rajnandgaon-WR Transmission Limited.	200.49	200.49	16.43	As per data furnished by ISTS Licensee for November'23
5	Sipat Transmission Limited.	92.92	92.92	7.62	As per data furnished by ISTS Licensee for November'23
6	Western Transmission Gujarat Limited	50.66	50.66	4.15	As per data furnished by ISTS Licensee for November'23
7	Western Transco Power Limited	93.02	93.02	7.62	As per data furnished by ISTS Licensee for November'23
8	Alipurduar Transmission Limited	149.84	149.84	12.28	As per data furnished by ISTS Licensee for November'23
9	Fatehgarh-Bhadla Transmission Ltd.	48.09	48.09	3.94	As per data furnished by ISTS Licensee for November'23
10	North Karanpura Transco Limited	39.01	39.01	3.20	As per data furnished by ISTS Licensee for November'23
11	Bikaner-Khetri Transmission Limited	128.95	128.95	10.57	As per data furnished by ISTS Licensee for November'23
12	Jam Khambaliya Transco Limited	44.08	44.08	3.61	As per data furnished by ISTS Licensee for November'23
13	Lakadia-Banaskantha Transmission Limited	100.28	100.28	8.22	As per data furnished by ISTS Licensee for November'23
14	WRSS XXI (A) Transco Limited	122.16	122.16	10.01	As per data furnished by ISTS Licensee for November'23
15	Karur Transmission Limited	22.37	22.37	1.83	As per data furnished by ISTS Licensee for November'23.
16	Aravali Power Company Private Limited	6.76	6.76	0.55	Data not furnished for November'23. Considered the same as in the earlier billing period.
17	Essar Power Transmission Company Limited	339.64	339.64	27.84	As per data furnished by ISTS Licensee for November'23
18	Jindal Power Limited	19.12	19.12	1.57	Data not furnished for November'23. Considered the same as in the earlier billing period.

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for November'23 (₹ Cr)	Equivalent MTC to be considered for November'23 (₹ Cr)	Remarks
19	Kudgi Transmission Limited	196.29	196.29	16.09	Data not furnished for November'23. Considered the same as in the earlier billing period.
20	Parbati Koldam Transmission Company Limited	171.37	171.37	14.05	As per data furnished by ISTS Licensee for November'23
21	Bhopal Dhule Transmission Company Ltd.	185.13	185.13	15.17	As per data furnished by ISTS Licensee for November'23
22	East North Interconnection Company Limited	145.77	145.77	11.95	As per data furnished by ISTS Licensee for November'23
23	Gurgaon Palwal Transmission Limited	137.84	137.84	11.30	As per data furnished by ISTS Licensee for November'23
24	Jabalpur Transmission Company Limited	147.13	147.13	12.06	As per data furnished by ISTS Licensee for November'23
25	Maheshwaram Transmission Limited	56.08	56.08	4.60	As per data furnished by ISTS Licensee for November'23
26	Khargone Transmission Company Ltd.	178.06	178.06	14.59	As per data furnished by ISTS Licensee for November'23
27	Goa Tamnar Transmission Projects Limited	42.70	42.70	3.50	As per data furnished by ISTS Licensee for November'23
28	Mumbai Urja Marg Limited	74.45	74.45	6.10	As per data furnished by ISTS Licensee for November'23
29	Lakadia Vadodara Transmission Company Limited	230.88	230.88	18.92	As per data furnished by ISTS Licensee for November'23
30	NRSS-XXIX Transmission Limited	503.10	503.10	41.24	As per data furnished by ISTS Licensee for November'23
31	Odisha Generation Phase-II Transmission Limited	151.96	151.96	12.46	As per data furnished by ISTS Licensee for November'23
32	Patran Transmission Company Limited	30.80	30.80	2.52	As per data furnished by ISTS Licensee for November'23
33	Purulia & Kharagpur Transmission Company Limited	72.48	72.48	5.94	As per data furnished by ISTS Licensee for November'23
34	Rapp Transmission Company Limited	44.05	44.05	3.61	As per data furnished by ISTS Licensee for November'23
35	NER-II Transmission Limited	480.91	480.91	39.42	As per data furnished by ISTS Licensee for November'23
36	Teestavalley Power Transmission Limited	248.37	248.37	20.36	Data not furnished for November'23. Considered the same as in the earlier billing period.
37	Torrent Power Grid Limited	26.03	26.03	2.13	As per data furnished by ISTS Licensee for November'23
38	Darbhanga-Motihari Transmission Company Limited	134.73	134.73	11.04	As per data furnished by ISTS Licensee for November'23
39	NRSS XXXI (B) Transmission Limited	98.09	98.09	8.04	As per data furnished by ISTS Licensee for November'23

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for November'23 (₹ Cr)	Equivalent MTC to be considered for November'23 (₹ Cr)	Remarks
40	A D Hydro Power Limited	35.97	35.97	0.00	Data not furnished for November'23. And in view of APTEL order dated 31st August, 2023 in APPEAL NO. 410 OF 2019 & IA NO. 360 OF 2020, YTC has not been considered for recovery.
41	Powergrid Himachal Transmission Ltd (Jaypee Powergrid Limited)	126.73	126.73	10.39	As per data furnished by ISTS Licensee for November'23
42	Kohima Mariani Transmission Limited	286.90	286.90	23.52	As per data furnished by ISTS Licensee for November'23
43	Raichur Sholapur Transmission Company Private Limited	35.20	35.20	2.89	As per data furnished by ISTS Licensee for November'23
44	Koppal-Narendra Transmission Limited	47.81	47.81	3.92	As per data furnished by ISTS Licensee for November'23
45	Damodar Valley Corporation	109.09	109.09	8.94	Data not furnished for November'23. Considered the same as in the earlier billing period.
46	Powerlinks Transmission Limited	135.93	135.93	11.14	As per data furnished by ISTS Licensee for November'23
47	NRSS XXXVI Transmission Limited	22.09	22.09	1.19	As per data furnished by ISTS Licensee for November'23. Babai (RRVPL)- Bhiwani (PGCIL) 400 kV D/C Transmission line Circuit 1 and 2 commissioned on 11.11.2023, so equivalent MTC is considered for 19 days for the said transmission element.
48	Warora-Kurnool Transmission Limited	409.61	409.61	33.57	As per data furnished by ISTS Licensee for November'23.
49	Powergrid Vizag Transmission Limited	213.06	213.06	17.46	As per data furnished by ISTS Licensee for November'23
50	Powergrid NM Transmission Limited	164.21	164.21	13.46	As per data furnished by ISTS Licensee for November'23
51	Powergrid Unchahar Transmission Limited	19.28	19.28	1.58	As per data furnished by ISTS Licensee for November'23
52	Powergrid Parli Transmission Limited	326.22	326.22	26.74	As per data furnished by ISTS Licensee for November'23
53	Powergrid Kala Amb Transmission Limited	66.82	66.82	5.48	As per data furnished by ISTS Licensee for November'23.
54	Powergrid Southern Interconnector Transmission System Limited	462.10	462.10	37.88	As per data furnished by ISTS Licensee for November'23
55	Powergrid Jabalpur Transmission Limited	256.43	256.43	21.02	As per data furnished by ISTS Licensee for November'23

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for November'23 (₹ Cr)	Equivalent MTC to be considered for November'23 (₹ Cr)	Remarks
56	Powergrid Warora Transmission Limited	364.20	364.20	29.85	As per data furnished by ISTS Licensee for November'23
57	Powergrid Medinipur Jeerat Transmission Limited	579.70	579.70	47.52	As per data furnished by ISTS Licensee for November'23
58	Powergrid Mithilanchal Transmission Limited	170.00	170.00	13.93	As per data furnished by ISTS Licensee for November'23
59	Powergrid Ajmer Phagi Transmission Limited	74.79	74.79	6.13	As per data furnished by ISTS Licensee for November'23
60	Powergrid Varanasi Transmissoin System Limited	116.97	116.97	9.59	As per data furnished by ISTS Licensee for November'23
61	Powergrid Fatehgarh Transmission Limited	87.69	87.69	7.19	As per data furnished by ISTS Licensee for November'23
62	Powergrid Khetri Transmission System Ltd.	149.07	149.07	12.22	As per data furnished by ISTS Licensee for November'23
63	Powergrid Bhuj Transmission Limited	128.95	128.95	10.57	As per data furnished by ISTS Licensee for November'23
64	Powergrid Bikaner Transmission System Limited	167.88	167.88	13.76	As per data furnished by ISTS Licensee for November'23
65	North East Transmission Company Limited	252.89	252.89	20.73	Data not furnished for November'23. Considered the same as in the earlier billing period.
66	Transmission Corporation Of Andhra Pradesh (APTRANSCO)	533.98	139.14	11.40	As per data furnished by ISTS Licensee for November'23
67	Madhya Pradesh Power Transmission Co. Ltd.	12.54	12.54	1.03	Data not furnished for November'23. Considered the same as in the earlier billing period.
68	Karnataka Power Transmission Corporation Limited	1.42	1.42	0.12	Data not furnished by ISTS Licensee for November'23. CERC Tariff Order dated 12.06.2019 has been considered
69	Delhi Transco Limited	3.12	3.12	0.26	Data not furnished by ISTS Licensee for November'23. Data as furnished by ISTS Licensee for Dec'20 has been considered.
70	Power Transmission Corporation Of Uttarakhand Ltd	43.47	43.47	3.56	As per data furnished by ISTS Licensee for November'23. CERC Tariff Order dated 09.11.2021, 25.11.2021 and 13.06.2021 have been considered.
71	Rajasthan Rajya Vidhyut Prasaran Nigam Ltd.	33.98	6.37	0.52	Data not furnished by ISTS Licensee for November'23. Data as furnished by ISTS Licensee for Jan'21 has been considered. RPC certified non-ISTS as ISTS has not been considered in line with clause 13 (13) of Sharing Regulations,2020

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for November'23 (₹ Cr)	Equivalent MTC to be considered for November'23 (₹ Cr)	Remarks
72	Tamilnadu Transmission Corporation Limited	0.59	0.59	0.05	Data not furnished by ISTS Licensee for November'23. CERC Tariff 148/TT/2018 Order dated 16.11.2018 has been considered
73	Chhattisgarh State Power Transmission Company Ltd	0.75	0.75	0.06	As per data furnished by ISTS Licensee for November'23
74	Himachal Pradesh Power Transmission Corporation Ltd	2.61	2.61	0.21	Data not furnished for November'23. Considered the same as in the earlier billing period.
75	Odisha Power Transmission Corporation Limited	9.80	9.67	0.79	Data not furnished by ISTS Licensee for November'23. Data as furnished by ISTS Licensee for Jan'21 has been considered. Filing and Publication fee of ₹ 13.67 Lacs as claimed by the licensee is not considered. The same may be claimed in Bill-2 or Bill-3 as applicable.
76	Uttarpradesh Power Transmission Corporation Limited	27.23	0.00	0.00	Data not furnished by ISTS Licensee for November'23. YTC has been considered as zero in line with CERC terms & conditions for Tariff Regulations 2019 as tariff as on 31.03.2019 is not available
77	Power Development Department, Jammu & Kashmir	10.11	0.00	0.00	Data not furnished by ISTS Licensee for November'23. YTC has been considered as zero in line with CERC terms & conditions for Tariff Regulations 2019 as tariff as on 31.03.2019 is not available
78	Gujarat Energy Transmission Corporation Limited	5.71	0.00	0.00	Data not furnished by ISTS Licensee for November'23. YTC has been considered as zero in line with CERC terms & conditions for Tariff Regulations 2019 as tariff as on 31.03.2019 is not available
79	Maharashtra State Electricity Transmission Company Ltd	97.68	0.00	0.00	Data not furnished by ISTS Licensee for November'23. YTC has been considered as zero in line with CERC terms & conditions for Tariff Regulations 2019 as tariff as on 31.03.2019 is not available
80	West Bengal State Electricity Transmission Company Ltd	32.05	0.00	0.00	Data not furnished by ISTS Licensee for November'23. YTC has been considered as zero in line with CERC terms & conditions for Tariff Regulations 2019 as tariff as on 31.03.2019 is not available
81	Haryana Vidyut Prasaran Nigam Limited	0.35	0.35	0.03	As per data furnished by ISTS Licensee for November'23
82	Assam Electricity Grid Corporation Limited	10.78	0.00	0.00	Data not furnished by ISTS Licensee for November'23. YTC has been considered as zero in line with CERC terms & conditions for Tariff Regulations 2019 as tariff as on 31.03.2019 is not available

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for November'23 (₹ Cr)	Equivalent MTC to be considered for November'23 (₹ Cr)	Remarks
83	Meghalaya Power Transmission Corporation Limited	3.61	0.00	0.00	Data not furnished by ISTS Licensee for November'23. YTC has been considered as zero in line with CERC terms & conditions for Tariff Regulations 2019 as tariff as on 31.03.2019 is not available
84	Kerala State Electricity Board	10.06	0.00	0.00	Data not furnished by ISTS Licensee for November'23. YTC has been considered as zero in line with CERC terms & conditions for Tariff Regulations 2019 as tariff as on 31.03.2019 is not available

TOTAL MTC considered for the billing period November'23 from the claimed assets of ISTS licensees (₹ Crores)

3768.92

Entity-wise details of Bilateral billing for November,2023 billing period

Sl.No.	Name of the Asset	Transmission Licensee	Name of the beneficiary	Region	MTC in ₹	State Control Area in which the Bilateral charges are included	Remarks
1	400KV D/C Kota - Jaipur (South) line along with associated bays at Kota and Jaipur(South) (part of RAPPJaipur (S) 400KV D/C line with one ckt LILO at Kota)	Powergrid	RAPP 7&8, NPCIL	NR	31460820		As per Regulation 13(3) of Sharing Regulations 2020
2	2X500MVA 400/230kV transformers along with associated bays and equipment at new 400/230kV (GIS) Tirunelveli Pooling Sub-station	Powergrid	Betam	SR	466659		As per Regulation 13(3) of Sharing Regulations 2020
3	Asset 1. Kalpakkam PFBR-Sirucheri 230 kV D/C Line, Asset 2. Kalpakkam PFBR - Arani 230 kV D/C Line, Asset 3. 230 kV D/C Kalpakkam PFBR-Kanchipuram transmission line and 2 numbers of 230 kV Bays at Kanchipuram Sub-station of TNEB	Powergrid	Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI)	SR	16001148		As per Regulation 13(3) of Sharing Regulations 2020
4	HVDC Mundra-Mahendergarh	Powergrid	Adani Power Limited	WR	252797148		--
5	400 kV Banaskantha (Radhanesda) Pooling Station-Banaskantha (PG) D/C line along with 2 nos. 400 Kv line bays at Banaskantha (PG) under Tr. System for Ultra Mega Solar Power Park (700 MW) at Banaskantha (Radhanesda), Gujarat in WR	Powergrid	Gujarat Power Corporation Limited (GPCL)	WR	5151721	Gujarat	As per Regulation 13(3) of Sharing Regulations 2020
6	Est. of 2x500 MVA, 400/220 kV PS at Banaskantha (Radhanesda) (GIS) with 1X125 MVAR BR, 2 nos of 400 kV line bays at Bnsknta (Radhanesda) (GIS) for interconnection of Bnsknta (Radhanesda) PS Bnsknta (PG) 400 kV D/C (twin AL59) TL & 4 Nos 220 kV Line bays	Powergrid	Gujarat Power Corporation Limited (GPCL)	WR		Gujarat	As per Regulation 13(3) of Sharing Regulations 2020

Sl.No.	Name of the Asset	Transmission Licensee	Name of the beneficiary	Region	MTC in ₹	State Control Area in which the Bilateral charges are included	Remarks
7	2 nos. 220 kV Line bays (Bay No 209 & 211) at NP Kunta substation	Powergrid	AP Solar Power Corporation Pvt Ltd (APSPCL)	SR	790164		As per Regulation 13(3) of Sharing Regulations 2020
8	Mahan Bilaspur Line	Essar Power Transmission Company Ltd.	Mahan Energen Limited (formerly Essar Power M.P. Ltd)	WR	48812787		CERC order dated 22.11.2023 in Petition No. Petition No. 24/TT/2023
9	2 numbers 400 kV line bays at Bhadla (POWERGRID) Sub-station	Powergrid	Adani Renewable Energy Park Rajasthan Limited	NR	10535		As per Regulation 13(3) of Sharing Regulations 2020
10	Establishment of 400 kV Pooling Station at Fatehgarh	Fatehgarh Badhla Transmission Limited	Adani Renewable Energy Park Rajasthan Limited	NR	6288		As per Regulation 13(3) of Sharing Regulations 2020
11	Fatehgarh Pooling Station – Bhadla (PG) 765 kV D/C line (To be operated at 400 kV)		ACME Solar Holdings Pvt. Ltd	NR	1886528		As per Regulation 13(3) of Sharing Regulations 2020
12	2 Nos. 400 kV line bays at Fatehgarh Pooling Station			NR			As per Regulation 13(3) of Sharing Regulations 2020
13	1x25 MVAR Bus Reactor at 400 kV Fatehgarh Pooling Station along with associated bay			NR			As per Regulation 13(3) of Sharing Regulations 2020
14	Space for future 220kV (12 Nos) Line Bays			NR			As per Regulation 13(3) of Sharing Regulations 2020
15	Space for future 400kV (8 Nos) Line Bays alongwith line reactors at at Fatehgarh Pooling Station			NR			As per Regulation 13(3) of Sharing Regulations 2020
16	Space for future 220/400kV transformers (5 Nos) alongwith associated transformer bays at each level.			NR			As per Regulation 13(3) of Sharing Regulations 2020

Sl.No.	Name of the Asset	Transmission Licensee	Name of the beneficiary	Region	MTC in ₹	State Control Area in which the Bilateral charges are included	Remarks
17	Space for future 400kV bus reactors (2 Nos) alongwith associated bays.			NR			As per Regulation 13(3) of Sharing Regulations 2020
18	765/400 kV 1500 MVA ICT along with associated bays at Meerut Sub-station under Transmission System associated with Tehri Pump Storage Plant (PSP)	Powergrid	THDC India Ltd.	NR	41665820		As per Regulation 13(3) of Sharing Regulations 2020
19	765/400 kV 800 MVA ICTI along with associated bays at Koteshwar (Tehri Pooling Station) under Transmission System associated with Tehri Pump Storage Plant (PSP)			NR			As per Regulation 13(3) of Sharing Regulations 2020
20	400 kV S/C Tehri (Generation)-Tehri (Koteshwar) (Quad) line along with associated bays at both ends under Transmission system associated with Tehri Pump Storage Plant (PSP)			NR			As per Regulation 13(3) of Sharing Regulations 2020
21	400 kV D/C North Karanpura-Chandwa (Jharkhand) Pooling Station line with quad moose conductor	North karanpura Transco Ltd.	NTPC, North Karanpura STPP, Jharkhand	ER	8398953		As per Regulation 13(3) of Sharing Regulations 2020
22	400 kV line bays at Bhiwani Substation for termination of 400 kV Babai-Bhiwani D/C Line	Powergrid	NRSS XXXVI TL	NR	493828		As per Regulation 13(12) of Sharing Regulations 2020
23	Establishment of 2x500 MVA, 400/230 kV Karur Pooling Station (at a location in between Karur Wind zone and Tiruppur wind zone)	Karur Transmission Limited	JSW Renew Energy Ltd.	SR	18336066		As per Regulation 13(3) of Sharing Regulations 2020
24	LILO of both circuits of Pugalur – Pugalur (HVDC) 400 kV D/C line (with Quad Moose ACSR Conductor) at Karur PS						

Sl.No.	Name of the Asset	Transmission Licensee	Name of the beneficiary	Region	MTC in ₹	State Control Area in which the Bilateral charges are included	Remarks
25	2x125 MVAr, 400 kV Bus reactors at Karur PS						
26	400 KV D/C Quad Moose Koppal PS – Narendra (New) Transmission Line	Koppal-Narendra Transmission Limited	ReNew Solar Power Pvt Ltd.	SR	10966099		As per Regulation 13(3) of Sharing Regulations 2020
27	400/220 kV Koppal Pooling Station 400kV •ICT: 3x500MVA, 400/220kV •ICT bay: 3 nos. •Line bay: 2 nos. •Bus Reactor bay: 2 nos.		For Renew Surya Ojas Pvt. Ltd.		13063356		
	220kV •ICT bay: 3 nos •Line bay: 5 nos. •Bus coupler bay: 1 no. •Transfer Bus coupler bay: 1 no.		For Ayana Renewable Power Six Private Limited		13063356		
28	2x125 MVAr, 420 kV bus reactor at Koppal Pooling station						
29	- 400 kV GIS Line bay at Narendra (New): 2 nos. - 400 kV GIS Bay for future 765/400kV Transformer: 2 nos. - 400 kV Auxiliary GIS bay module for switching of future 765/400 kV Transformer: 1 no.						

TOTAL

463371275

Commercial data containing Monthly Transmission Charges of Inter-State Network elements to be paid as per Regulation 13(12)

Sl. No.	Name of Inter-State Transmission Licensee	Voltage Level	Name of Inter-State Network element	Type of Network element	MTC (Rs.)	COD	Details of the CERC Order
1	POWERGRID	400 kV	400 kV line bays at Bhiwani Substation for termination of 400 kV Babai-Bhiwani D/C Line under "Provision of 400 kV Line bays at Bhiwani (PG) in the NR"	Line bays	2693607	19-06-2021	11/TT/2022 dtd 18.09.2023

Date of publication: 25.11.2023

Revised GNash and GNAd as per CERC(Connectivity and General Network Access to the inter-State Transmission System)(First Amendment) Regulations,2023												
State	Yearly Average of Daily Max ISTS drawal (X ₁)(MW)	Yearly Max ISTS drawal(Y ₁)(MW)	Z ₁ = 0.5*x+0.5*y (MW)	Yearly Average of Daily Max ISTS drawal (X ₂)(MW)	Yearly Max ISTS drawal(Y ₂)(MW)	Z ₂ = 0.5*x+0.5*y (MW)	Yearly Average of Daily Max ISTS drawal (X ₃)(MW)	Yearly Max ISTS drawal(Y ₃)(MW)	Z ₃ = 0.5*x+0.5*y (MW)	GNash* (MW)=Avg of Z1 Z2 & Z3	GNA (MW) As per Annexure-I of GNA Regulations ,2022	GNAd (MW) (=GNA-GNash)
	2018-19			2019-20			2020-21					
Northern Region												
Haryana	4660	7321	5991	5433	7778	6606	5499	9132	7316	5143	5418	275
Rajasthan	3874	5596	4735	4359	7759	6059	5080	7466	6273	5689	5755	66
Uttar Pradesh	7068	10304	8686	8136	12090	10113	8492	12582	10537	9779	10165	386
Southern Region												
Tamil Nadu	6707	9560	8134	7361	9984	8673	7501	11475	9488	8765	9177	412
Telangana	4160	6115	5137	4104	7854	5979	4380	8193	6286	5801	6140	339
Andhra Pradesh	2635	4578	3606	2741	5357	4049	3771	6110	4941	4199	4516	317
Western Region												
Chhattishgarh	1100	2219	1659	1491	2353	1922	1459	2714	2086	1889	2149	260
Gujarat	5346	8699	7023	4284	6260	5272	4675	8611	6643	6312	6434	122
Maharashtra	6481	10207	8344	6437	8790	7613	7409	10238	8824	8260	8496	236
Easten Region												
Bihar	4095	4782	4438	4320	5494	4907	4553	5840	5196	4847	5043	196
North Easten Region												
Arunachal Pradesh	118	145	132	99	132	115	84	128	106	117	134	17
Assam	1171	1468	1319	1186	1608	1397	1251	1690	1470	1396	1529	133
Manipur	135	196	166	147	201	174	166	218	192	177	204	27
Nagaland	112	145	128	117	140	128	113	140	126	128	134	6

Note:

1. For computation of GNash, ISTS drawal has been considered after subtracting the Direct drawal based on the details of generating stations as provided by CTU as per CERC(Connectivity and General Network Access to the inter-State Transmission System) (First Amendment) Regulations,2023.
2. Block-wise meter data has been used for computation of ISTS drawal by State.
3. For Haryana, GNash has been reduced by 1495MW in line with the Annexure-I of GNA Regulations,2022
4. #As the power from Telangana STPP,, Dhariwal(unit-1 of 300MW) and Chuzachen HEP were not included in ISTS drawal for the period 2018-19, 2019-20 and 2020-21,so for the computation of GNAd & GNash these Generating stations have not been considered.

List of generating stations as provided by CTU, from which drawal through STU lines and Scheduled quantum of States have been considered for computation of Direct drawal and GNash

Northern Region	Generating Stations
Haryana	IGTPS(Jhajjar)
Rajasthan	Anta GPS, RAPS B
Uttar Pradesh	Unchahar Stage-I,Tanda Stage-II,Narora Atomic Power Station(NAPS)
Southern Region	
Tamil Nadu	Madras Atomic Power Station (MAPS), Neyveli TS-II Stage-I, New Neyveli TPS
Telangana	Ramagundam STPS St-I&II, Telangana STPP(#)
Andhra Pradesh	Simhadri- Stage-1
Western Region	
Chhattishgarh	NSPCL (formerly BESCL)
Gujarat	Tarapur 1&2 APS, Kawas GPS, Gandhar GPS
Maharashtra	Tarapur 1&2 APS, Ratnagiri Gas & Power Pvt.Ltd, Dhariwal(# unit-1 of 300MW)
Easten Region	
Bihar	Kanti Stage-2 (at 220kV level)
Sikkim	Chuzachen HEP(#)
North Easten Region	
Arunachal Pradesh	Pare HEP, Ranganadi HEP
Assam	Bongaigaon TPS
Manipur	Loktak HEP
Nagaland	Doyang HEP