



ग्रिड 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 February, 2024

No: TC/01/2024

Date: 25.01.2024

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 **44th time block (10:45 Hrs to 11:00 Hrs) on 29th December, 2023** as a peak block for the billing period of Dec'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 16.01.2024 with last date of submission of comments as 18.01.2024. Comment was received from Powergrid Himachal Transmission Limited.
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 15.01.2024 for review and comments of DICs/ States in line with the notified procedures with the last date for submission of comments as 18.01.2024.
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.

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 Dec'23 and given at Annexure-III.

12. Accordingly, the transmission charges are hereby notified for the billing month of February'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 February'24 shall be used by RPCs for preparation of Regional Transmission Account (RTA) for the billing month of February'24 considering details of GNA enclosed along with this notification.
- d) The notified waiver % of Drawee DICs for the billing month of February'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 GNASH and GNAD is given at **Annexure-IX**.

Annexure
25/01/2024

(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 31.12.2023. Darbhanga-Motihari Transmission Co. Ltd. and NRSS XXXI (B) Transmission Ltd. have submitted its YTC on 01.01.2024. PowerGrid has submitted its YTC and YTC of its SPV's on 02.01.2024. Haryana Vidyut Prasaran Nigam Limited and NRSS XXXVI Transmission Limited have submitted its YTC on 02.01.2024. Koppal-Narendra Transmission Limited has submitted their YTC on 04.01.2024. Torrent Power Grid Limited and Chhattisgarh State Power Transmission Company Limited have submitted its YTC on 05.01.2024. PowerGrid has submitted YTC of PowerGrid Ramgarh Transmission Ltd. on 06.01.2024. Further, PowerGrid submitted its Format I(C) on 10.01.2024. 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 December'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	Aravali Power Company Private Limited
17	Parbati Koldam Transmission Company Limited
18	Bhopal Dhule Transmission Company Ltd.

Sl. No.	Name of ISTS Licensee
19	East North Interconnection Company Limited
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	Kohima Mariani Transmission Limited
37	Raichur Sholapur Transmission Company Private Limited
38	Koppal-Narendra Transmission Limited
39	NRSS XXXVI Transmission Limited
40	Warora-Kurnool Transmission Limited
41	Powergrid Vizag Transmission Limited
42	Powergrid NM Transmission Limited
43	Powergrid Unchahar Transmission Limited
44	Powergrid Parli Transmission Limited

Sl. No.	Name of ISTS Licensee
45	Powergrid Kala Amb Transmission Limited
46	Powergrid Southern Interconnector Transmission System Limited
47	Powergrid Jabalpur Transmission Limited
48	Powergrid Warora Transmission Limited
49	Powergrid Medinipur Jeerat Transmission Limited
50	Powergrid Mithilanchal Transmission Limited
51	Powergrid Ajmer Phagi Transmission Limited
52	Powergrid Varanasi Transmissoin System Limited
53	Powergrid Fatehgarh Transmission Limited
54	Powergrid Khetri Transmission System Ltd.
55	Powergrid Bhuj Transmission Limited
56	Powergrid Bikaner Transmission System Limited
57	Powergrid Ramgarh Transmission Limited
58	Transmission Corporation Of Andhra Pradesh (APTRANSCO)
59	Power Transmission Corporation Of Uttarakhand Ltd.
60	Chhattisgarh State Power Transmission Company Ltd.
61	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 07.01.2024. NLDC had provided the detailed list of ISTS assets of all licensees for segregation into various components as per stipulated formats on 03.01.2024. CTU have submitted data in formats II(A), II(B) and II(E) on 10.01.2024. CTU have submitted data in formats II(C), II(D), II-(G2) to II-(G4) and II(H) on 12.01.2024. CTU have submitted data in formats II-(G1) and II-(G5) on 17.01.2024 and format II(F) on 18.01.2024.

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 07.01.2024 is as mentioned below:

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

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

24	KSK Mahanadi				
25	LANCO				
26	MB Power				
27	Essar Mahan				
28	NSPCL Bhilai				
29	Ratnagiri Dabhol(RGPPL)				
30	RKM Power				
31	Sasan UMPP				
32	SSP				
33	TAPS (3,4)				
34	TAPS (1,2)				
35	Naranpar Ostro				
36	ACME RUMS				
37	Mahindra Renewables Pvt. Ltd.				
38	ARINSUM				
39	Bhuvad Renew				
40	Vadwa Green Infra				
41	Roha Green infra				
42	Dayapar Inox				
43	Ratadiya AGEMPL				
44	Alfanar wind				
45	Renew AP2 Gadhsisa				
46	Avikiran				
47	Powerica				
48	SESPL Morjar				
49	SKRPL				

50	SBESS				
51	Netra Wind				
52	AWEK4L				
53	Apraava				
54	SRSSFPL				
55	MSEPL				

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.
- H. HVDC BNC-Agra power flow adjusted in order to remove loop flows from the network.

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 Dec'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 Dec'23. For the ISTS licensees who have not submitted YTC data for Dec'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 Dec'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 Vindhychal-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 Vindhychal-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 Dec'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:
- 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.
 - The indicative cost level of 400 kV Quad Bersimis D/C has been considered to be same as 400 kV Quad Moose D/C.
 - The indicative cost level of 765 kV Hexa zebra has been considered to be same as 765 kV Quad Bersimis.
 - 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.
 - 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

- 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.
- 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 February,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	327953817	743299605	120792756	124197536	220671498	60345119		1597260331
2	UP	NR	9779	745943702	1511169820	245578453	252500562	448637543	140578960		3344409040
3	Punjab	NR	5497	432879025	849463187	138045276	141936352	252189444	108036725		1922550009
4	Haryana	NR	5143	439290084	794758808	129155331	132795827	235948756	212297962		1944246768
5	Chandigarh	NR	342	24012008	52849993	8588591	8830677	15690156	3253615		113225040
6	Rajasthan	NR	5689	536083230	879133358	142866941	146893925	260997953	94366576		2060341984
7	HP	NR	1130	191557912	174621321	28377508	29177384	51841745	38075446		513651316
8	J&K	NR	1977	297740761	305510045	49648083	51047511	90700115	54342119		848988633
9	Uttarakhand	NR	1402	160652091	216654064	35208200	36200612	64320466	33002342		546037776
10	Railways-NR-ISTS-UP	NR	130	8225248	20089179	3264669	3356690	5964095			40899880
11	PG-HVDC-NR	NR	8	281677	1236257	200903	206566	367021			2292424
12	Northern Railways	NR							2843107		2843107
13	North Central Railways	NR							2076591		2076591
14	RAPP 7&8, NPCIL	NR								32509514	32509514
15	Adani Renewable Energy Park Rajasthan Limited	NR								17384	17384
16	ACME Solar Holdings Pvt. Ltd	NR								1949411	1949411
17	THDC India Ltd.	NR								43054680	43054680
18	ReNew Surya Vihan Pvt. Ltd.	NR								1545386	1545386
19	Renew Surya Roshni Pvt. Ltd.	NR								2030044	2030044
20	Altra Xergi Power Pvt. Ltd.	NR								1933112	1933112
21	Adani Renewable Energy Holding Seventeen Pvt. Ltd.	NR								3090772	3090772
22	ReNew Surya Aayan Pvt. Ltd.	NR								1545386	1545386
23	Gujarat	WR	10704	741151766	1654184682	268819632	276396839	121282353	68434159	5323445	3135592878

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		
24	Madhya Pradesh	WR	10587	1103490929	1636056517	265873645	273367814	119953223	149359503		3548101630
25	Maharashtra	WR	9349	1154499879	1444687002	234774407	241391983	105922296	84542387		3265817955
26	Chhattisgarh	WR	3276	86445428	506247298	82269661	84588592	37117297	22749521		819417797
27	Goa	WR	548	48964631	84683614	13761836	14149740	6208876	11913629		179682326
28	DNHDDPDCL	WR	1126	176917938	174003192	28277057	29074101	12757654	38137383		459167326
29	ArcelorMittal Nippon Steel India Ltd (formerly Essar Steel)	WR	563	36009945	87001596	14138528	14537050	6378827	8781798		166847746
30	PG-HVDC-WR	WR	5	64707	772661	125564	129103	56650			1148686
31	BARC	WR	5	438915	772661	125564	129103	56650			1522894
32	Adani Power Limited	WR								261223719	261223719
33	Mahan Energen Limited (formerly Essar Power M.P. Ltd)	WR								50439880	50439880
34	Andhra Pradesh	SR	4199	351152125	648880466	105448811	108421092	212718280	44138885		1470759658
35	Telangana	SR	5801	271057266	896440958	145679579	149785843	293874432	37702826		1794540905
36	Tamil Nadu	SR	8765	515304104	1354474228	220114034	226318379	444028512	94265919		2854505176
37	Kerala	SR	2679	230863279	413991609	67277296	69173638	135716187	63267995		980290005
38	Karnataka	SR	4376	619113710	676232655	109893784	112991355	221684971	112838710		1852755184
39	Pondicherry	SR	540	14981330	83447357	13560933	13943174	27356006	12899470		166188271
40	PG-HVDC-SR	SR	6	545237	950373	154444	158797	311555			2120406
41	BHAVINI	SR								16534519	16534519
42	Betam	SR								482215	482215

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		
43	JSW Renew Energy Ltd.	SR								18947268	18947268
44	ReNew Solar Power Pvt Ltd.	SR								4199455	4199455
45	Renew Surya Ojas Pvt. Ltd.	SR								13498801	13498801
46	Ayana Renewable Power Six Private Limited	SR								11596776	11596776
47	West Bengal	ER	3516	110250419	543335013	88296742	90785558	80940116	57213403		970821250
48	Odisha	ER	2157	65422218	333325831	54168394	55695236	49655242	70865973		629132894
49	Bihar	ER	4847	229657592	749017294	121721931	125152901	111580415	180046308		1517176441
50	Jharkhand	ER	1110	51950789	171530678	27875251	28660970	25552767	60851905		366422360
51	Sikkim	ER	111	3479898	17153068	2787525	2866097	2555277	2708681		31550545
52	DVC	ER	956	53492741	147732728	24007874	24684583	22007608	9480670		281406204
53	Bangladesh	ER	982	6940671	151750564	24660808	25355921	22606141			231314105
54	Railways-ER-ISTS-Bihar	ER	20	154919	3090643	502257	516414	460410			4724643
55	PG-HVDC-ER	ER	2	38480	309064	50226	51641	46041			495452
56	NTPC, North Karanpura STPP, Jharkhand	ER								8678918	8678918
57	Arunachal Pradesh	NER	117	10360760	18080261	2938202	3021021	4577436	11437175		50414855
58	Assam	NER	1396	38425320	215726871	35057523	36045688	54616249	22433985		402305635
59	Manipur	NER	177	9163903	27352189	4444973	4570263	6924840	3270135		55726301
60	Meghalaya	NER	238	8622071	36778650	5976856	6145325	9311366	402105		67236373
61	Mizoram	NER	135	6816132	20861839	3390233	3485794	5281657	1052444		40888099
62	Nagaland	NER	128	6907634	19780114	3214443	3305049	5007794	22662543		60877577
63	Tripura	NER	311	2407082	48059496	7810093	8030236	12167373	23294110		101768391
64	PG-HVDC-NER	NER	1	88784	185439	30135	30985	46948			382291

TOTAL

114640.76 9119800157 17715682248 2878954953 2960103928 3806090243 1963970183 478600685 38923202397

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	60	30MW:24.11.2023 30MW: 04.12.2023	60MW: 30.09.2022	0	8710	Charges computed for 3 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	203400	

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 Chareges in Rs.
NHPTL	4079.87	0.005	119953223	10587	11330	231126

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

Region	State	DIC	Waiver(%)
ER	Bihar	Bihar DISCOMS	9.585
ER	Bihar	Railways-Bihar	0.000
ER	DVC	DVC DISCOM & JBVNL	0.865
ER	DVC	Railways-DVC	0.000
ER	DVC	Tata steel	0.000
ER	West Bengal	WBSEDCL	0.509
ER	West Bengal	CESC	0.000
ER	West Bengal	IPCL	46.434
ER	Jharkhand	JBVNL	21.282
ER	Jharkhand	SE Railways-Jharkhand	0.000
ER	Odisha	Odisha	12.439
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	2.541
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	8.569
NR	Punjab	Northern Railways	0.000
NR	Haryana	Haryana	12.497
NR	Haryana	Railways_BRBCL_HARYANA	0.000
NR	Rajasthan	Rajasthan DISCOMS	2.151
NR	Rajasthan	Railways	0.000
NR	Delhi	Delhi DISCOMS	11.144
NR	Delhi	Delhi Metro Rail Corporation Metro	100.000
NR	Uttar Pradesh	UPPCL	8.891
NR	Uttar Pradesh	NPCL	0.977
NR	Uttar Pradesh	Railway	0.000
NR	Uttrakhand	Uttrakhand	0.000
NR	Himachal pradesh	Himachal pradesh	0.606
NR	Jammu & Kashmir	Jammu & Kashmir	0.342
NR	Chandigarh	Chandigarh	3.982
NR		Railways-NR-ISTS-UP	4.287
NR		PG-HVDC-NR	0.000
SR	Andhra Pradesh	Andhra Pradesh	8.147
SR	Karnataka	Karnataka_DISCOMS	10.473
SR	Karnataka	Railways_Karnataka	8.591
SR	Kerala	KSEB	1.963
SR	Puducherry	Puducherry	16.197

Region	State	DIC	Waiver(%)
SR	Tamil Nadu	TANGEDCO	1.417
SR	Tamil Nadu	SAIL Steel Plant Salem	0.000
SR	Telangana	TSSPDCL	9.708
SR		PG-HVDC_SR	0.000
WR	Chhattisgarh	CSPDCL	9.901
WR	DD&DNH	DD&DNH	0.000
WR	Goa	Goa	6.008
WR	Gujarat	GUVNL	1.689
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	3.968
WR	Madhya Pradesh	WCR	0.000
WR	Maharashtra	MSEDCL	7.290
WR	Maharashtra	Adani Electricity Mumbai Limited	52.653
WR	Maharashtra	Tata Power Company Ltd, Maharashtra	27.977
WR	Maharashtra	Central Railways	0.000
WR		PG-HVDC_WR	0.000
WR		Arcelormittal Nippon Steel India Ltd. (Essar Steel)	0.699
WR		BARC	0.000

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

S.No.	State	Region	T-GNA rate (Rs./MW/block)
1	Delhi	NR	122.74
2	UP	NR	126.28
3	Punjab	NR	129.27
4	Haryana	NR	139.73
5	Chandigarh	NR	122.37
6	Rajasthan	NR	133.86
7	HP	NR	168.02
8	J&K	NR	158.73
9	Uttarakhand	NR	143.96
10	Gujarat	WR	108.16
11	Madhya Pradesh	WR	123.87
12	Maharashtra	WR	129.11
13	Chhattisgarh	WR	92.45
14	Goa	WR	121.26
15	Daman and Diu and Dadra and Nagar Haveli	WR	150.73
16	Andhra Pradesh	SR	129.47
17	Telangana	SR	114.34
18	Tamil Nadu	SR	120.38
19	Kerala	SR	135.25
20	Karnataka	SR	156.50
21	Pondicherry	SR	113.75
22	West Bengal	ER	102.06
23	Odisha	ER	107.81
24	Bihar	ER	115.58
25	Jharkhand	ER	122.02
26	Sikkim	ER	105.06
27	DVC	ER	108.80
28	Bangladesh	ER	87.07
29	Arunachal Pradesh	NER	159.27
30	Assam	NER	106.52
31	Manipur	NER	116.37
32	Meghalaya	NER	104.42
33	Mizoram	NER	111.95
34	Nagaland	NER	175.80
35	Tripura	NER	120.95

Details of GNA and GNA-RE for billing period December,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	135.0
42	Nagaland	NER	128.0
43	Tripura	NER	311.0
44	PG-HVDC-NER	NER	1.2

114640.8

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

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for December'23 (₹ Cr)	Equivalent MTC to be considered for December'23 (₹ Cr)	Remarks
1	Powergrid Corporation Of India Ltd	35366.64	35366.64	2995.54	As per data furnished by ISTS Licensee for December'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	50.43	As per data furnished by ISTS Licensee for December'23
3	Chhattisgarh-WR Transmission Limited.	168.20	168.20	14.25	As per data furnished by ISTS Licensee for December'23
4	Raipur Rajnandgaon-WR Transmission Limited.	200.49	200.49	16.98	As per data furnished by ISTS Licensee for December'23
5	Sipat Transmission Limited.	92.92	92.92	7.87	As per data furnished by ISTS Licensee for December'23
6	Western Transmission Gujarat Limited	50.66	50.66	4.29	As per data furnished by ISTS Licensee for December'23
7	Western Transco Power Limited	93.02	93.02	7.88	As per data furnished by ISTS Licensee for December'23
8	Alipurduar Transmission Limited	149.84	149.84	12.69	As per data furnished by ISTS Licensee for December'23
9	Fatehgarh-Bhadla Transmission Ltd.	48.09	48.09	4.07	As per data furnished by ISTS Licensee for December'23
10	North Karanpura Transco Limited	39.01	39.01	3.30	As per data furnished by ISTS Licensee for December'23

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for December'23 (₹ Cr)	Equivalent MTC to be considered for December'23 (₹ Cr)	Remarks
11	Bikaner-Khetri Transmission Limited	128.95	128.95	10.92	As per data furnished by ISTS Licensee for December'23
12	Jam Khambaliya Transco Limited	44.08	44.08	3.73	As per data furnished by ISTS Licensee for December'23
13	Lakadia-Banaskantha Transmission Limited	100.28	100.28	8.49	As per data furnished by ISTS Licensee for December'23
14	WRSS XXI (A) Transco Limited	122.16	122.16	10.35	As per data furnished by ISTS Licensee for December'23
15	Karur Transmission Limited	22.37	22.37	1.89	As per data furnished by ISTS Licensee for December'23.
16	Aravali Power Company Private Limited	6.76	6.76	0.57	As per data furnished by ISTS Licensee for December'23.
17	Essar Power Transmission Company Limited	339.64	339.64	28.77	Data not furnished for December'23. Considered the same as in the earlier billing period.
18	Jindal Power Limited	19.12	19.12	1.62	Data not furnished for December'23. Considered the same as in the earlier billing period.
19	Kudgi Transmission Limited	196.29	196.29	16.63	Data not furnished for December'23. Considered the same as in the earlier billing period.
20	Parbati Koldam Transmission Company Limited	171.37	171.37	14.52	As per data furnished by ISTS Licensee for December'23
21	Bhopal Dhule Transmission Company Ltd.	185.13	185.13	15.68	As per data furnished by ISTS Licensee for December'23
22	East North Interconnection Company Limited	145.77	145.77	12.35	As per data furnished by ISTS Licensee for December'23
23	Gurgaon Palwal Transmission Limited	137.84	137.84	11.68	As per data furnished by ISTS Licensee for December'23
24	Jabalpur Transmission Company Limited	147.13	147.13	12.46	As per data furnished by ISTS Licensee for December'23

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for December'23 (₹ Cr)	Equivalent MTC to be considered for December'23 (₹ Cr)	Remarks
25	Maheshwaram Transmission Limited	56.08	56.08	4.75	As per data furnished by ISTS Licensee for December'23
26	Khargone Transmission Company Ltd.	178.06	178.06	15.08	As per data furnished by ISTS Licensee for December'23
27	Goa Tamnar Transmission Projects Limited	42.70	42.70	3.62	As per data furnished by ISTS Licensee for December'23
28	Mumbai Urja Marg Limited	79.48	79.48	6.73	As per data furnished by ISTS Licensee for December'23
29	Lakadia Vadodara Transmission Company Limited	230.88	230.88	19.56	As per data furnished by ISTS Licensee for December'23
30	NRSS-XXIX Transmission Limited	503.10	503.10	42.61	As per data furnished by ISTS Licensee for December'23
31	Odisha Generation Phase-II Transmission Limited	151.96	151.96	12.87	As per data furnished by ISTS Licensee for December'23
32	Patran Transmission Company Limited	30.80	30.80	2.61	As per data furnished by ISTS Licensee for December'23
33	Purulia & Kharagpur Transmission Company Limited	72.48	72.48	6.14	As per data furnished by ISTS Licensee for December'23
34	Rapp Transmission Company Limited	44.05	44.05	3.73	As per data furnished by ISTS Licensee for December'23
35	NER-II Transmission Limited	480.91	480.91	40.73	As per data furnished by ISTS Licensee for December'23
36	Teestavalley Power Transmission Limited	248.37	248.37	21.04	Data not furnished for December'23. Considered the same as in the earlier billing period.
37	Torrent Power Grid Limited	26.03	26.03	2.20	As per data furnished by ISTS Licensee for December'23
38	Darbhanga-Motihari Transmission Company Limited	134.73	134.73	11.41	As per data furnished by ISTS Licensee for December'23

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for December'23 (₹ Cr)	Equivalent MTC to be considered for December'23 (₹ Cr)	Remarks
39	NRSS XXXI (B) Transmission Limited	98.09	98.09	8.31	As per data furnished by ISTS Licensee for December'23
40	A D Hydro Power Limited	35.97	35.97	0.00	Data not furnished for December'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	10.73	Data not furnished for December'23. Considered the same as in the earlier billing period.
42	Kohima Mariani Transmission Limited	286.90	286.90	24.30	As per data furnished by ISTS Licensee for December'23
43	Raichur Sholapur Transmission Company Private Limited	35.20	35.20	2.98	As per data furnished by ISTS Licensee for December'23
44	Koppal-Narendra Transmission Limited	47.81	47.81	4.05	As per data furnished by ISTS Licensee for December'23
45	Damodar Valley Corporation	109.09	109.09	9.24	Data not furnished for December'23. Considered the same as in the earlier billing period.
46	Powerlinks Transmission Limited	135.93	135.93	11.51	Data not furnished for December'23. Considered the same as in the earlier billing period.
47	NRSS XXXVI Transmission Limited	22.09	22.09	1.87	As per data furnished by ISTS Licensee for December'23.

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for December'23 (₹ Cr)	Equivalent MTC to be considered for December'23 (₹ Cr)	Remarks
48	Warora-Kurnool Transmission Limited	409.61	409.61	34.69	As per data furnished by ISTS Licensee for December'23.
49	Powergrid Vizag Transmission Limited	213.07	213.07	18.05	As per data furnished by ISTS Licensee for December'23
50	Powergrid NM Transmission Limited	164.21	164.21	13.91	As per data furnished by ISTS Licensee for December'23
51	Powergrid Unchahar Transmission Limited	19.28	19.28	1.63	As per data furnished by ISTS Licensee for December'23
52	Powergrid Parli Transmission Limited	326.22	326.22	27.63	As per data furnished by ISTS Licensee for December'23
53	Powergrid Kala Amb Transmission Limited	66.82	66.82	5.66	As per data furnished by ISTS Licensee for December'23.
54	Powergrid Southern Interconnector Transmission System Limited	462.10	462.10	39.14	As per data furnished by ISTS Licensee for December'23
55	Powergrid Jabalpur Transmission Limited	256.43	256.43	21.72	As per data furnished by ISTS Licensee for December'23
56	Powergrid Warora Transmission Limited	364.20	364.20	30.85	As per data furnished by ISTS Licensee for December'23
57	Powergrid Medinipur Jeerat Transmission Limited	579.70	579.70	49.10	As per data furnished by ISTS Licensee for December'23
58	Powergrid Mithilanchal Transmission Limited	170.00	170.00	14.40	As per data furnished by ISTS Licensee for December'23
59	Powergrid Ajmer Phagi Transmission Limited	74.79	74.79	6.33	As per data furnished by ISTS Licensee for December'23
60	Powergrid Varanasi Transmissoin System Limited	116.97	116.97	9.91	As per data furnished by ISTS Licensee for December'23

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for December'23 (₹ Cr)	Equivalent MTC to be considered for December'23 (₹ Cr)	Remarks
61	Powergrid Fatehgarh Transmission Limited	87.69	87.69	7.43	As per data furnished by ISTS Licensee for December'23
62	Powergrid Khetri Transmission System Ltd.	149.07	149.07	12.63	As per data furnished by ISTS Licensee for December'23
63	Powergrid Bhuj Transmission Limited	128.95	128.95	10.92	As per data furnished by ISTS Licensee for December'23
64	Powergrid Bikaner Transmission System Limited	167.88	167.88	14.22	As per data furnished by ISTS Licensee for December'23
65	Powergrid Ramgarh Transmission Limited	46.41	46.41	1.01	As per data furnished by ISTS Licensee for December'23. As all the elements of the transmission licensee commissioned on 24.12.2023, so equivalent MTC is considered for 8 days for December'23 billing period.
66	North East Transmission Company Limited	252.89	252.89	21.42	Data not furnished for December'23. Considered the same as in the earlier billing period.
67	Transmission Corporation Of Andhra Pradesh (APTRANSCO)	732.52	139.14	11.78	As per data furnished by ISTS Licensee for December'23
68	Madhya Pradesh Power Transmission Co. Ltd.	12.54	12.54	1.06	Data not furnished for December'23. Considered the same as in the earlier billing period.
69	Karnataka Power Transmission Corporation Limited	1.42	1.42	0.12	Data not furnished by ISTS Licensee for December'23. CERC Tariff Order dated 12.06.2019 has been considered
70	Delhi Transco Limited	3.12	3.12	0.26	Data not furnished by ISTS Licensee for December'23. Data as furnished by ISTS Licensee for Dec'20 has been considered.

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for December'23 (₹ Cr)	Equivalent MTC to be considered for December'23 (₹ Cr)	Remarks
71	Power Transmission Corporation Of Uttarakhand Ltd	43.47	43.47	3.68	As per data furnished by ISTS Licensee for December'23. CERC Tariff Order dated 09.11.2021, 25.11.2021 and 13.06.2021 have been considered.
72	Rajasthan Rajya Vidhyut Prasaran Nigam Ltd.	33.98	6.37	0.54	Data not furnished by ISTS Licensee for December'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
73	Tamilnadu Transmission Corporation Limited	0.59	0.59	0.05	Data not furnished by ISTS Licensee for December'23. CERC Tariff 148/TT/2018 Order dated 16.11.2018 has been considered
74	Chhattisgarh State Power Transmission Company Ltd	0.75	0.75	0.06	As per data furnished by ISTS Licensee for December'23
75	Himachal Pradesh Power Transmission Corporation Ltd	2.61	2.61	0.22	Data not furnished for December'23. Considered the same as in the earlier billing period.
76	Odisha Power Transmission Corporation Limited	9.80	9.67	0.82	Data not furnished by ISTS Licensee for December'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.

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for December'23 (₹ Cr)	Equivalent MTC to be considered for December'23 (₹ Cr)	Remarks
77	Uttarpradesh Power Transmission Corporation Limited	27.23	0.00	0.00	Data not furnished by ISTS Licensee for December'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	Power Development Department, Jammu & Kashmir	10.11	0.00	0.00	Data not furnished by ISTS Licensee for December'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	Gujarat Energy Transmission Corporation Limited	5.71	0.00	0.00	Data not furnished by ISTS Licensee for December'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	Maharashtra State Electricity Transmission Company Ltd	97.68	0.00	0.00	Data not furnished by ISTS Licensee for December'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	West Bengal State Electricity Transmission Company Ltd	32.05	0.00	0.00	Data not furnished by ISTS Licensee for December'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
82	Haryana Vidyut Prasaran Nigam Limited	0.35	0.35	0.03	As per data furnished by ISTS Licensee for December'23

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for December'23 (₹ Cr)	Equivalent MTC to be considered for December'23 (₹ Cr)	Remarks
83	Assam Electricity Grid Corporation Limited	10.78	0.00	0.00	Data not furnished by ISTS Licensee for December'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	Meghalaya Power Transmission Corporation Limited	3.61	0.00	0.00	Data not furnished by ISTS Licensee for December'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
85	Kerala State Electricity Board	10.06	0.00	0.00	Data not furnished by ISTS Licensee for December'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 December'23 from the claimed assets of
ISTS licensees (₹ Crores)

3892.32

Entity-wise details of Bilateral billing for December,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	32509514		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	482215		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	16534519		As per Regulation 13(3) of Sharing Regulations 2020
4	HVDC Mundra-Mahendergarh	Powergrid	Adani Power Limited	WR	261223719		--
5	400 kV Banaskantha (Radhanesda) Pooling Station-Banaskantha (PG) D/C line alongwith 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		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
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	5323445	Gujarat	As per Regulation 13(3) of Sharing Regulations 2020
7	Mahan Bilaspur Line	Essar Power Transmission Company Ltd.	Mahan Energen Limited (formerly Essar Power M.P. Ltd)	WR	50439880		CERC order dated 22.11.2023 in Petition No. Petition No. 24/TT/2023
8	2 numbers 400 kV line bays at Bhadla (POWERGRID) Sub-station	Powergrid	Adani Renewable Energy Park Rajasthan Limited	NR	10886		As per Regulation 13(3) of Sharing Regulations 2020
9	Establishment of 400 kV Pooling Station at Fatehgarh		Adani Renewable Energy Park Rajasthan Limited	NR	6498		As per Regulation 13(3) of Sharing Regulations 2020
10	Fatehgarh Pooling Station – Bhadla (PG) 765 kV D/C line (To be operated at 400 kV)		ACME Solar Holdings Pvt. Ltd	NR	1949411		As per Regulation 13(3) of Sharing Regulations 2020
11	2 Nos. 400 kV line bays at Fatehgarh Pooling Station			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
12	1x25 MVAR Bus Reactor at 400 kV Fatehgarh Pooling Station along with associated bay	Fatehgarh Badhla Transmission Limited		NR			As per Regulation 13(3) of Sharing Regulations 2020
13	Space for future 220kV (12 Nos) Line Bays			NR			As per Regulation 13(3) of Sharing Regulations 2020
14	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
15	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
16	Space for future 400kV bus reactors (2 Nos) alongwith associated bays.			NR			As per Regulation 13(3) of Sharing Regulations 2020
17	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		NR	43054680		As per Regulation 13(3) of Sharing Regulations 2020
18	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)		THDC India Ltd.	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
19	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
20	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	8678918		As per Regulation 13(3) of Sharing Regulations 2020
21	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	18947268		As per Regulation 13(3) of Sharing Regulations 2020
22	LILO of both circuits of Pugalur – Pugalur (HVDC) 400 kV D/C line (with Quad Moose ACSR Conductor) at Karur PS						
23	2x125 MVA, 400 kV Bus reactors at Karur PS						
24	400 KV D/C Quad Moose Koppal PS – Narendra (New) Transmission Line		ReNew Solar Power Pvt Ltd.		4199455		
	400/220 kV Koppal Pooling Station 400kV •ICT: 3x500MVA, 400/220kV •ICT bay: 3 nos. •Line bay: 2 nos.		Renew Surya Ojas Pvt. Ltd.		13498801		

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	<ul style="list-style-type: none"> •Bus Reactor bay: 2 nos. 220kV •ICT bay: 3 nos •Line bay: 5 nos. •Bus coupler bay: 1 no. •Transfer Bus coupler bay: 1 no. 	Koppal-Narendra Transmission Limited	Ayana Renewable Power Six Private Limited	SR	11596776		As per Regulation 13(3) of Sharing Regulations 2020
26	2x125 MVA, 420 kV bus reactor at Koppal Pooling station						
27	<ul style="list-style-type: none"> - 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. 						
28	<p>Establishment of 400/220kV, 4x500MVA Ramgarh-II PS (Fatehgarh-III PS) with 420kV (2x125MVA) Bus Reactor</p> <p>400kV: 500MVA ICT - 4 ICT bays - 4 Line bays - 4 125MVA Bus Reactor - 2 Reactor Bays - 2</p>	Powergrid Ramgarh Transmission Ltd.	ReNew Surya Vihan Pvt. Ltd.	NR	1545386		As per Regulation 13(3) of Sharing Regulations 2020
29	Ramgarh-II PS(Fatehgarh-III) - Fatehgarh-II PS 400kV D/c line (Twin HTLS)		Renew Surya Roshni Pvt. Ltd.		2030044		

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
30	2 nos. of 400kV line bays at Fatehgarh-II PS for Ramgarh-II PS - Fatehgarh-II PS 400kV D/c line		Altra Xergi Power Pvt. Ltd.		1933112		
31	Ramgarh-II PS - Jaisalmer-II (RVPN) 400kV D/c line (Twin HTLS)		Adani Renewable Energy Holding Seventeen Pvt. Ltd.		3090772		
32	2 nos. of 400kV line bays at Jaisalmer-II (RVPN) for Ramgarh-II PS - Jaisalmer-II (RVPN) 400kV D/c line		ReNew Surya Aayan Pvt. Ltd.		1545386		

TOTAL

478600685

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 drawl 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(Jhajjhar)
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