



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

Dated: 01st March, 2024

सेवा में/ To

संलग्न सूची के अनुसार/ As per list enclosed

विषय: मार्च, 2024 माह के बिलिंग महीने (जनवरी, 2024 की बिलिंग अवधि) का आर.टी.ए।

Subject: RTA for billing month of March, 2024 (billing period January, 2024).

महोदय/ Sir,

केंद्रीय विद्युत विनियामक आयोग (अंतर-राजकीय पारेषण प्रभारी तथा हानियों की शेयरिंग) विनियम, 2020 एवं संशोधित विनियम; इम्प्लेमेंटिंग एजेंसी, एन.ल.डी.सी., द्वारा मार्च, 2024 बिलिंग माह (जनवरी, 2024 की बिलिंग अवधि) के लिए दिनांक 25.02.2024 को अधिसूचित डी.आई.सी. द्वारा देय पारेषण शुल्क (प्रति संलग्न) एवं एन.आर.ल.डी.सी. द्वारा प्रस्तुत मीटर आंकड़े के अनुसरण में तैयार क्षेत्रीय पारेषण लेखा Annexure-I पर सूचना एवं आवश्यक कार्यवाही हेतु संलग्न है।

सभी घटकों से अनुरोध है कि यदि इस लेखा में कोई त्रुटि हो, तो उसे इस लेखा की जारी होने के 15 दिन की भीतर इस कार्यालय को सूचित कर दे। यदि 15 दिन के भीतर इस संबंध में किसी भी घटक से कोई भी सूचना नहीं प्राप्त होती है, तो इस लेखा को उचित मानकर उससे पूर्णतया अंतिम समझा जायेगा।

Regional Transmission Account for the billing month of March, 2024 (billing period January, 2024) prepared in as per provisions given in CERC Sharing of Inter State Transmission Charges and Losses) Regulations, 2020 and Amendment thereof, based on Notification of Transmission charges payable by DICs for Billing Month of March, 2024 issued by Implementing Agency, NLDC, on 25.02.2024 (copy enclosed), and Net metered ex-bus injection data furnished by NRLDC are enclosed at **Annexure-I** for information and necessary action.

The concerned entities are requested to intimate the discrepancy / error, if any, within 15 days from the date of issue of this RTA. In case no such communication is received from any constituent within 15 days, the RTA will be treated as correct and closed.

अनुलग्नक – यथोपरि।

Encl.: As above.

भवदीय

Yours faithfully,

(अंजुम परवेज)

अधीक्षण अभियंता

Distribution list

1. Chief Operating Officer, CTUIL
2. Director (Finance), NPCIL
3. Chief Engineer (HPPC), UHBVNL, Haryana
4. Chief Engineer (Commercial), HPSEB, Himachal Pradesh
5. Chief Engineer (Commercial), JKPCL, Jammu and Kashmir
6. Chief Engineer (Commercial), PSPCL, Punjab
7. Chief Engineer, RUVNL, Rajasthan
8. Chief Engineer (Commercial), UPCL, Uttarakhand
9. Chief Engineer (Commercial), UPPCL, Uttar Pradesh
10. Executive Director (Commercial), NTPC Ltd.
11. General Manager (Commercial), NHPC Ltd.
12. General Manager (Commercial), THDC India Ltd.
13. General Manager (Commercial), SJVN Ltd.
14. General Manager (Commercial), PGCIL
15. Deptt. of Electrical, Chandigarh
16. CEO, ADHPL
17. CEO, APCPL
18. CEO, KWHEP (JSW)
19. CEO, Greekno Budhil Private Ltd.
20. CEO, Renew Power
21. CEO, Sree Cement
22. CEO, Himachal Sorang
23. CEO, Adani Green Energy Limited
24. CEO, Altra Xergi Power Pvt. Ltd.

NORTHERN REGIONAL POWER COMMITTEE

Regional Transmission Account of Northern Region for the billing month of March'2024 (billing period of January'2024)

Monthly Transmission Charges for Designated ISTS Customers (DICs)

S.No.	DIC	GNA (MW)	Usage based AC system charges (₹)	Balance AC system charges (₹)	National Component (₹)		Regional Component (₹)	Transformers component (₹)	Bilateral Charges (₹)	Total Transmission charges payable (without waiver) (₹)
			AC-UBC	AC-BC	NC-RE	NC-HVDC	RC	TC		
1	Delhi	4810.00	255088937	736941495	120800254	124965767	219607393	60345119		1517748964
2	UP	9953.00	883491137	1524902017	249963602	258583010	454418374	140578960		3511937100
3	Punjab	5497.00	609628730	842196965	138053845	142814308	250973355	108037183		2091704386
4	Haryana	5143.00	523842996	787960522	129163348	133617243	234810981	212513520		2021908611
5	Chandigarh	342.00	37797401	52397919	8589124	8885300	15614497	3253615		126537855
6	Rajasthan	5689.00	366301754	871613340	142875810	147802546	259739388	94366576		1882699414
7	HP	1130.00	185866069	173127628	28379270	29357862	51591758	38075446		506398032
8	J&K	1977.00	301313274	302896744	49651165	51363268	90262747	54342119		849829317
9	Uttarakhand	1402.00	182877779	214800827	35210386	36424533	64010304	33002342		566326171
10	Railways-NR-ISTS-UP	130.00	7461583	19917338	3264872	3377453	5935335			39956580
11	PG-HVDC-NR	8.00	339847	1225682	200915	207843	365251			2339539
12	Northern Railways							2843107		2843107
13	North Central Railways							2076591		2076591
14	RAPP 7&8, NPCIL								32509514	32509514
15	Adani Renewable Energy Park Rajasthan Limited								17384	17384
16	ACME Solar Holdings Pvt. Ltd								1949411	1949411
17	THDC India Ltd.								43054680	43054680
18	ReNew Surya Vihan Pvt. Ltd.								5988370	5988370
19	Renew Surya Roshni Pvt. Ltd.								7866419.92	7866419.92
20	Altra Xergi Power Pvt. Ltd.								7490809.96	7490809.96
21	Adani Renewable Energy Holding Seventeen Pvt. Ltd.								11976740.25	11976740.25
22	ReNew Surya Aayan Pvt. Ltd.								5988370.13	5988370.13

NORTHERN REGIONAL POWER COMMITTEE

Regional Transmission Account of Northern Region for the billing month of March'2024 (billing period of January'2024)

Details of Entity Wise bilateral Billing

S. No.	Name of the Asset	Transmission Licensee	Name of the beneficiary	Region	Monthly Transmission Charges 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
9	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
10	Establishment of 400 kV Pooling Station at Fatehgarh	Fatehgarh Badhla Transmission Limited	Adani Renewable Energy Park Rajasthan Limited	NR	6498		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	1949411		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 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
17	Space for future 400kV bus reactors (2 Nos) alongwith associated bays.			NR			As per Regulation 13(3) of Sharing Regulations 2020

NORTHERN REGIONAL POWER COMMITTEE

Regional Transmission Account of Northern Region for the billing month of March'2024 (billing period of January'2024)

Details of Entity Wise bilateral Billing

S. No.	Name of the Asset	Transmission Licensee	Name of the beneficiary	Region	Monthly Transmission Charges in ₹	State Control Area in which the Bilateral charges are included	Remarks
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	43054680		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
30	Establishment of 400/220kV, 4x500MVA Ramgarh-II PS (Fatehgarh-III PS) with 420kV (2x125MVA) Bus Reactor 400kV: 500MVA ICT - 4 ICT bays - 4 Line bays - 4 125MVA Bus Reactor - 2 Reactor Bays - 2 220kV: ICT bays - 4 Line Bays - 7	Powergrid Ramgarh Transmission Ltd.	ReNew Surya Vihan Pvt. Ltd.	NR	5988370		As per Regulation 13(3) of Sharing Regulations 2020

NORTHERN REGIONAL POWER COMMITTEE

Regional Transmission Account of Northern Region for the billing month of March'2024 (billing period of January'2024)

Details of Entity Wise bilateral Billing

S. No.	Name of the Asset	Transmission Licensee	Name of the beneficiary	Region	Monthly Transmission Charges in ₹	State Control Area in which the Bilateral charges are included	Remarks
31	Ramgarh-II PS(Fatehgarh-III) - Fatehgarh-II PS 400kV D/c line (Twin HTLS)		Renew Surya Roshni Pvt. Ltd.		7866420		
32	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.		7490810		
33	Ramgarh-II PS - Jaisalmer-II (RVPN) 400kV D/c line (Twin HTLS)		Adani Renewable Energy Holding Seventeen Pvt. Ltd.		11976740		
34	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.		5988370		

NORTHERN REGIONAL POWER COMMITTEE

Regional Transmission Account of Northern Region for the billing month of March'2024 (billing period of January'2024)

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

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

S.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	NTPC Ltd. (Rihand Solar)	20	0	-	20MW: 20.10.2022	20	60000	
4	Masaya Solar Energy Private Ltd	300	250	COD 150MW: 21.06.2023 COD 100MW: 08.09.2023	300 MW: 25.03.2022	50	150000	
5	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	
6	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	



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 March, 2024

No: TC/02/2024

Date: 25.02.2024

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 **51st time block (12:30 Hrs to 12:45 Hrs) on 19th January, 2024** as a peak block for the billing period of Jan'24 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 14.02.2024 with last date of submission of comments as 16.02.2024.
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 15.02.2024 for review and comments of DICs/ States in line with the notified procedures with the last date for submission of comments as 18.02.2024.
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 drawal 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 X (sum of SDRTG for all time blocks in the month) / (total number of time blocks in the month X 0.3 X T-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

- 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.

- 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 Jan'24 and given at Annexure-III.

12. Accordingly, the transmission charges are hereby notified for the billing month of March'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 March'24 shall be used by RPCs for preparation of Regional Transmission Account (RTA) for the billing month of March'24 considering details of GNA enclosed along with this notification.
 - d) The notified waiver % of Drawee DICs for the billing month of March'24 are to 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**.
 - n) Details of commercial data of RE transmission network to be considered for NC-RE component as furnished by CTU is given at **Annexure-X**.



(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 31.01.2024. Torrent Power Grid Limited and Adani Energy Solutions Limited have submitted its YTC on 01.02.2024. Power Transmission Corporation Of Uttarakhand Ltd. has submitted its YTC on 02.02.2024. PowerGrid has submitted its YTC and YTC of its SPV's on 02.02.2024. Further, PowerGrid submitted its Format I(C) on 05.02.2024. Chhattisgarh State Power Transmission Company Limited has submitted its YTC on 07.02.2024. Jindal power Limited and A D Hydro Power Limited have submitted its YTC on 09.02.2024. 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 Jan'24

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	Jindal Power 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	A D Hydro Power Limited
37	Powergrid Himachal Transmission Ltd (Jaypee Powergrid Limited)
38	Kohima Mariani Transmission Limited
39	Raichur Sholapur Transmission Company Private Limited
40	Koppal-Narendra 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

Sl. No.	Name of ISTS Licensee
46	Powergrid Parli Transmission Limited
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	Powergrid Ramgarh Transmission Limited
60	Transmission Corporation Of Andhra Pradesh (APTRANSCO)
61	Power Transmission Corporation Of Uttarakhand Ltd
62	Chhattisgarh State Power Transmission Company Ltd
63	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 07.02.2024. NLDC had provided the detailed list of ISTS assets of all licensees for segregation into various components as per stipulated formats on 05.02.2024. CTU have submitted data in formats II(A), II(B), II(C), II(D), II(E), II(F), II(G1) to II(G5) and II(H) on 15.02.2024.

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 07.02.2024 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	ACBIL	PVG ADYAH	Renew Solar Power Private Ltd.		
8	Spectrum Power	PVG Azure Earth			
9	Maruti Coal Power	PVG Parampujya			
10	DB Power Ltd.	Ayana NP Kunta			
11	DGEN	ANP AZURE			
12	Dhariwal	PVG AMPLUS Tumkur and PVG AMPLUS Pavagada			
13	GMR Warora	Fortum Finnsurya Energy Private Ltd. (Pavagada Solar Park)			
14	Raipur Energen	Yarrow Infra Structure Private Ltd. (Pavagada Solar Park)			
15	Jindal Stg-1	PVG AdaniKANine			
16	JPL Stg-2	NTPC Ettayapuram			
17	Jhabua Power				
18	KAPS 1&2				
19	KAPS 3&4				
20	Raigarh Energy				
21	KSK Mahanadi				
22	LANCO				
23	MB Power				

24	Essar Mahan				
25	NSPCL Bhilai				
26	RKM Power				
27	TAPS (3,4)				
28	TRN Energy				
29	TAPS (1,2)				
30	Naranpar Ostro				
31	ACME RUMS				
32	Mahindra Renewables Pvt. Ltd.				
33	ARINSUM				
34	Bhuvad Renew				
35	Dayapar Inox				
36	Ratadiya AGEMPL				
37	Alfanar wind				
38	Renew AP2 Gadhsisa				
39	Avikiran				
40	Powerica				
41	SESPL Morjar				
42	SKRPL				
43	SBESS				
44	Netra Wind				
45	AWEK4L				
46	Apraava				
47	SRSSFPL				
48	MSEPL				
49	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 Jan'24.
- 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 Jan'24. For the ISTS licensees who have not submitted YTC data for Jan'24, the YTC data recently available with reference to the previous computations have been considered.

- B. All ISTS transmission assets commissioned by the end of Jan'24 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 Jan'24.
- 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 March,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	255088937	736941495	120800254	124965767	219607393	60345119		1517748964
2	UP	NR	9953	883491137	1524902017	249963602	258583010	454418374	140578960		3511937100
3	Punjab	NR	5497	609628730	842196965	138053845	142814308	250973355	108037183		2091704386
4	Haryana	NR	5143	523842996	787960522	129163348	133617243	234810981	212513520		2021908611
5	Chandigarh	NR	342	37797401	52397919	8589124	8885300	15614497	3253615		126537855
6	Rajasthan	NR	5689	366301754	871613340	142875810	147802546	259739388	94366576		1882699414
7	HP	NR	1130	185866069	173127628	28379270	29357862	51591758	38075446		506398032
8	J&K	NR	1977	301313274	302896744	49651165	51363268	90262747	54342119		849829317
9	Uttarakhand	NR	1402	182877779	214800827	35210386	36424533	64010304	33002342		566326171
10	Railways-NR-ISTS-UP	NR	130	7461583	19917338	3264872	3377453	5935335			39956580
11	PG-HVDC-NR	NR	8	339847	1225682	200915	207843	365251			2339539
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								5988370	5988370
19	Renew Surya Roshni Pvt. Ltd.	NR								7866420	7866420
20	Altra Xergi Power Pvt. Ltd.	NR								7490810	7490810
21	Adani Renewable Energy Holding Seventeen Pvt. Ltd.	NR								11976740	11976740

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		
22	ReNew Surya Aayan Pvt. Ltd.	NR								5988370	5988370
23	Gujarat	WR	10704	459211407	1640034954	268836319	278106508	121282578	68434159	5323445	2841229371
24	Madhya Pradesh	WR	10587	904956626	1622061855	265890149	275058746	119953446	149359503		3337280325
25	Maharashtra	WR	9349	1097182794	1432329296	234788981	242885127	105922492	84542387		3197651077
26	Chhattisgarh	WR	3276	89664576	501916910	82274768	85111820	37117366	22749521		818834960
27	Goa	WR	548	57744464	83959239	13762690	14237264	6208888	11913629		187826174
28	DNHDDPDCL	WR	1126	154539028	172514787	28278812	29253940	12757678	38137383		435481628
29	ArcelorMittal Nippon Steel India Ltd (formerly Essar Steel)	WR	563	14294900	86257393	14139406	14626970	6378839	8781798		144479307
30	PG-HVDC-WR	WR	5	326264	766051	125572	129902	56650			1404440
31	BARC	WR	5	350147	766051	125572	129902	56650			1428323
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	457293391	643330008	105455357	109091737	212718280	44138885		1572027657
35	Telangana	SR	5801	406787465	888772893	145688622	150712352	293874432	37702826		1923538591
36	Tamil Nadu	SR	8765	613038280	1342888193	220127698	227718284	444028512	94265919		2942066885
37	Kerala	SR	2679	255765732	410450367	67281472	69601515	135716187	63267995		1002083269
38	Karnataka	SR	4376	579688649	670448229	109900605	113690269	221684971	112838710		1808251434
39	Pondicherry	SR	540	15546562	82733557	13561775	14029421	27356006	12899470		166126791
40	PG-HVDC-SR	SR	6	614572	942243	154454	159780	311555			2182603
41	BHAVINI	SR								16534519	16534519

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		
42	Betam	SR								482215	482215
43	JSW Renew Energy Ltd.	SR								18947268	18947268
44	ReNew Solar Power Pvt Ltd.	SR								3520487	3520487
45	Renew Surya Ojas Pvt. Ltd.	SR								13498801	13498801
46	Ayana Renewable Power Six Private Limited	SR								7730023	7730023
47	West Bengal	ER	3516	233334836	538687380	88302223	91347118	79954438	57213403		1088839397
48	Odisha	ER	2157	65462790	330474596	54171756	56039742	49050547	68026941		623226372
49	Bihar	ER	4847	248224295	742610276	121729487	125927042	110221604	176814762		1525527466
50	Jharkhand	ER	1110	47502698	170063422	27876982	28838254	25241589	58265124		357788068
51	Sikkim	ER	111	11765714	17006342	2787698	2883825	2524159	2708681		39676419
52	DVC	ER	956	43459082	146469037	24009364	24837271	21739603	9480670		269995026
53	Bangladesh	ER	982	8452219	150452505	24662339	25512762	22330847			231410671
54	Railways-ER-ISTS-Bihar	ER	20	88988	3064206	502288	519608	454803			4629893
55	PG-HVDC-ER	ER	2	143839	306421	50229	51961	45480			597929
56	NTPC, North Karanpura STPP, Jharkhand	ER								8678918	8678918
57	Arunachal Pradesh	NER	117	16474123	17925604	2938385	3039708	4577436	11437175		56392430
58	Assam	NER	1396	109716732	213881565	35059699	36268651	54616249	22433985		471976881
59	Manipur	NER	177	8420783	27118221	4445248	4598532	6924840	3270135		54777759
60	Meghalaya	NER	238	24922087	36464049	5977227	6183337	9311366	402105		83260171
61	Mizoram	NER	135	6599240	20683389	3390444	3507355	5281657	1052444		40514529
62	Nagaland	NER	128	7597186	19610917	3214643	3325492	5007794	22662543		61418575
63	Tripura	NER	311	3392544	47648400	7810578	8079907	12167373	23294110		102392912
64	PG-HVDC-NER	NER	1	62140	183852	30137	31176	46948			354255

TOTAL 114814.76 9296633657 17590802686 2883503569 2982934412 3802250646 1955528841 503220975 39014874786

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	NTPC Ltd. (Rihand Solar)	20	0	-	20MW: 20.10.2022	20	60000	
4	Masaya Solar Energy Private Ltd	300	250	COD 150MW: 21.06.2023 COD 100MW: 08.09.2023	300 MW: 25.03.2022	50	150000	
5	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	
6	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	3782.00	0.005	119953446	10587	11330	214252

Details of Waiver % of DICs for January,2024 billing period

Region	State	DIC	Waiver(%)
ER	Bihar	Bihar DISCOMS	8.723
ER	Bihar	Railways-Bihar	0.000
ER	DVC	DVC DISCOM & JBVNL	0.850
ER	DVC	Railways-DVC	0.000
ER	DVC	Tata steel	0.000
ER	West Bengal	WBSEDCL	0.806
ER	West Bengal	CESC	0.000
ER	West Bengal	IPCL	44.203
ER	Jharkhand	JBVNL	19.100
ER	Jharkhand	SE Railways-Jharkhand	0.000
ER	Odisha	Odisha	11.072
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	2.211
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	7.895
NR	Punjab	Northern Railways	0.000
NR	Haryana	Haryana	10.796
NR	Haryana	Railways_BRBCL_HARYANA	0.000
NR	Rajasthan	Rajasthan DISCOMS	2.040
NR	Rajasthan	Railways	0.000
NR	Delhi	Delhi DISCOMS	9.145
NR	Delhi	Delhi Metro Rail Corporation Metro	100.000
NR	Uttar Pradesh	UPPCL	7.791
NR	Uttar Pradesh	NPCL	0.714
NR	Uttar Pradesh	Railway	1.230
NR	Uttrakhand	Uttrakhand	0.000
NR	Himachal pradesh	Himachal pradesh	0.634
NR	Jammu & Kashmir	Jammu & Kashmir	0.325
NR	Chandigarh	Chandigarh	3.178
NR		Railways-NR-ISTS-UP	4.341
NR		PG-HVDC-NR	0.000
SR	Andhra Pradesh	Andhra Pradesh	9.138
SR	Karnataka	Karnataka_DISCOMS	10.949
SR	Karnataka	Railways_Karnataka	8.048
SR	Kerala	KSEB	1.485
SR	Puducherry	Puducherry	12.660
SR	Tamil Nadu	TANGEDCO	1.340
SR	Tamil Nadu	SAIL Steel Plant Salem	0.000
SR	Telangana	TSSPDCL	9.106
SR		PG-HVDC_SR	0.000
WR	Chhattisgarh	CSPDCL	8.258
WR	DD&DNH	DD&DNH	0.000
WR	Goa	Goa	5.344
WR	Gujarat	GUVNL	1.778

Region	State	DIC	Waiver(%)
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	3.842
WR	Madhya Pradesh	WCR	0.000
WR	Maharashtra	MSEDCL	6.500
WR	Maharashtra	Adani Electricity Mumbai Limited	40.760
WR	Maharashtra	Tata Power Company Ltd, Maharashtra	25.656
WR	Maharashtra	Central Railways	0.000
WR		PG-HVDC_WR	0.000
WR		Arcelormittal Nippon Steel India Ltd. (Essar Steel)	0.059
WR		BARC	0.000

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

S.No.	State	Region	T-GNA rate (Rs./MW/block)
1	Delhi	NR	116.63
2	UP	NR	130.21
3	Punjab	NR	140.65
4	Haryana	NR	145.31
5	Chandigarh	NR	136.76
6	Rajasthan	NR	122.32
7	HP	NR	165.64
8	J&K	NR	158.89
9	Uttarakhand	NR	149.31
10	Gujarat	WR	97.77
11	Madhya Pradesh	WR	116.51
12	Maharashtra	WR	126.41
13	Chhattisgarh	WR	92.39
14	Goa	WR	126.74
15	Daman and Diu and Dadra and Nagar Haveli	WR	142.95
16	Andhra Pradesh	SR	138.38
17	Telangana	SR	122.56
18	Tamil Nadu	SR	124.07
19	Kerala	SR	138.26
20	Karnataka	SR	152.74
21	Pondicherry	SR	113.71
22	West Bengal	ER	114.47
23	Odisha	ER	106.80
24	Bihar	ER	116.21
25	Jharkhand	ER	119.14
26	Sikkim	ER	132.12
27	DVC	ER	104.39
28	Bangladesh	ER	87.10
29	Arunachal Pradesh	NER	178.15
30	Assam	NER	124.97
31	Manipur	NER	114.39
32	Meghalaya	NER	129.31
33	Mizoram	NER	110.93
34	Nagaland	NER	177.36
35	Tripura	NER	121.69

Details of GNA and GNA-RE for billing period January,2024

S.No.	Drawee DIC	Region	GNA/GNA-RE (in MW)
1	Delhi	NR	4810.0
2	UP	NR	9953.0
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

114814.76

Transmission Charges claimed by ISTS licensees for the billing period January'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for January'24 (₹ Cr)	Equivalent MTC to be considered for January'24 (₹ Cr)	Remarks
1	Powergrid Corporation Of India Ltd	35357.04	35357.04	2994.72	As per data furnished by ISTS Licensee for January'24. 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 January'24
3	Chhattisgarh-WR Transmission Limited.	168.20	168.20	14.25	As per data furnished by ISTS Licensee for January'24
4	Raipur Rajnandgaon-WR Transmission Limited.	200.49	200.49	16.98	As per data furnished by ISTS Licensee for January'24
5	Sipat Transmission Limited.	92.92	92.92	7.87	As per data furnished by ISTS Licensee for January'24
6	Western Transmission Gujarat Limited	50.66	50.66	4.29	As per data furnished by ISTS Licensee for January'24
7	Western Transco Power Limited	93.02	93.02	7.88	As per data furnished by ISTS Licensee for January'24
8	Alipurduar Transmission Limited	149.84	149.84	12.69	As per data furnished by ISTS Licensee for January'24
9	Fatehgarh-Bhadla Transmission Ltd.	48.09	48.09	4.07	As per data furnished by ISTS Licensee for January'24
10	North Karanpura Transco Limited	39.01	39.01	3.30	As per data furnished by ISTS Licensee for January'24
11	Bikaner-Khetri Transmission Limited	128.95	128.95	10.92	As per data furnished by ISTS Licensee for January'24
12	Jam Khambaliya Transco Limited	44.08	44.08	3.73	As per data furnished by ISTS Licensee for January'24
13	Lakadia-Banaskantha Transmission Limited	100.28	100.28	8.49	As per data furnished by ISTS Licensee for January'24
14	WRSS XXI (A) Transco Limited	122.16	122.16	10.35	As per data furnished by ISTS Licensee for January'24
15	Karur Transmission Limited	22.37	22.37	1.89	As per data furnished by ISTS Licensee for January'24.
16	Aravali Power Company Private Limited	6.76	6.76	0.57	Data not furnished for January'24. Considered the same as in the earlier billing period.
17	Essar Power Transmission Company Limited	339.64	339.64	28.77	Data not furnished for January'24. Considered the same as in the earlier billing period.
18	Jindal Power Limited	31.06	31.06	2.63	As per data furnished by ISTS Licensee for January'24
19	Kudgi Transmission Limited	196.29	196.29	16.63	Data not furnished for January'24. 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 January'24
21	Bhopal Dhule Transmission Company Ltd.	185.15	185.15	15.68	As per data furnished by ISTS Licensee for January'24
22	East North Interconnection Company Limited	145.79	145.79	12.35	As per data furnished by ISTS Licensee for January'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for January'24 (₹ Cr)	Equivalent MTC to be considered for January'24 (₹ Cr)	Remarks
23	Gurgaon Palwal Transmission Limited	137.84	137.84	11.68	As per data furnished by ISTS Licensee for January'24
24	Jabalpur Transmission Company Limited	147.14	147.14	12.46	As per data furnished by ISTS Licensee for January'24
25	Maheshwaram Transmission Limited	56.08	56.08	4.75	As per data furnished by ISTS Licensee for January'24
26	Khargone Transmission Company Ltd.	178.06	178.06	15.08	As per data furnished by ISTS Licensee for January'24
27	Goa Tamnar Transmission Projects Limited	42.70	42.70	3.62	As per data furnished by ISTS Licensee for January'24
28	Mumbai Urja Marg Limited	79.48	79.48	6.73	As per data furnished by ISTS Licensee for January'24
29	Lakadia Vadodara Transmission Company Limited	230.88	230.88	19.56	As per data furnished by ISTS Licensee for January'24
30	NRSS-XXIX Transmission Limited	503.11	503.11	42.61	As per data furnished by ISTS Licensee for January'24
31	Odisha Generation Phase-II Transmission Limited	151.96	151.96	12.87	As per data furnished by ISTS Licensee for January'24
32	Patran Transmission Company Limited	30.80	30.80	2.61	As per data furnished by ISTS Licensee for January'24
33	Purulia & Kharagpur Transmission Company Limited	72.48	72.48	6.14	As per data furnished by ISTS Licensee for January'24
34	Rapp Transmission Company Limited	44.06	44.06	3.73	As per data furnished by ISTS Licensee for January'24
35	NER-II Transmission Limited	480.91	480.91	40.73	As per data furnished by ISTS Licensee for January'24
36	Teestavalley Power Transmission Limited	248.37	248.37	21.04	Data not furnished for January'24. 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 January'24
38	Darbhangha-Motihari Transmission Company Limited	134.73	134.73	11.41	As per data furnished by ISTS Licensee for January'24
39	NRSS XXXI (B) Transmission Limited	98.09	98.09	8.31	As per data furnished by ISTS Licensee for January'24
40	A D Hydro Power Limited	43.19	43.19	3.66	As per data furnished by ISTS Licensee for January'24. CERC order 209/MP/2017 dated 05.02.2024 considered.
41	Powergrid Himachal Transmission Ltd (Jaypee Powergrid Limited)	126.73	126.73	10.73	As per data furnished by ISTS Licensee for January'24
42	Kohima Mariani Transmission Limited	286.90	286.90	24.30	As per data furnished by ISTS Licensee for January'24
43	Raichur Sholapur Transmission Company Private Limited	35.20	35.20	2.98	As per data furnished by ISTS Licensee for January'24
44	Koppal-Narendra Transmission Limited	47.81	47.81	4.05	As per data furnished by ISTS Licensee for January'24
45	Damodar Valley Corporation	109.09	109.09	9.24	Data not furnished for January'24. Considered the same as in the earlier billing period.
46	Powerlinks Transmission Limited	135.93	135.93	11.51	Data not furnished for January'24. 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 January'24 (₹ Cr)	Equivalent MTC to be considered for January'24 (₹ Cr)	Remarks
47	NRSS XXXVI Transmission Limited	22.09	22.09	1.87	As per data furnished by ISTS Licensee for January'24.
48	Warora-Kurnool Transmission Limited	409.61	409.61	34.69	As per data furnished by ISTS Licensee for January'24.
49	Powergrid Vizag Transmission Limited	213.07	213.07	18.05	As per data furnished by ISTS Licensee for January'24
50	Powergrid NM Transmission Limited	164.21	164.21	13.91	As per data furnished by ISTS Licensee for January'24
51	Powergrid Unchahar Transmission Limited	19.28	19.28	1.63	As per data furnished by ISTS Licensee for January'24
52	Powergrid Parli Transmission Limited	326.22	326.22	27.63	As per data furnished by ISTS Licensee for January'24
53	Powergrid Kala Amb Transmission Limited	66.82	66.82	5.66	As per data furnished by ISTS Licensee for January'24.
54	Powergrid Southern Interconnector Transmission System Limited	462.10	462.10	39.14	As per data furnished by ISTS Licensee for January'24
55	Powergrid Jabalpur Transmission Limited	256.43	256.43	21.72	As per data furnished by ISTS Licensee for January'24
56	Powergrid Warora Transmission Limited	364.20	364.20	30.85	As per data furnished by ISTS Licensee for January'24
57	Powergrid Medinipur Jeerat Transmission Limited	579.70	579.70	49.10	As per data furnished by ISTS Licensee for January'24
58	Powergrid Mithilanchal Transmission Limited	170.00	170.00	14.40	As per data furnished by ISTS Licensee for January'24
59	Powergrid Ajmer Phagi Transmission Limited	74.79	74.79	6.33	As per data furnished by ISTS Licensee for January'24
60	Powergrid Varanasi Transmissoin System Limited	116.97	116.97	9.91	As per data furnished by ISTS Licensee for January'24
61	Powergrid Fatehgarh Transmission Limited	87.69	87.69	7.43	As per data furnished by ISTS Licensee for January'24
62	Powergrid Khetri Transmission System Ltd.	149.07	149.07	12.63	As per data furnished by ISTS Licensee for January'24
63	Powergrid Bhuj Transmission Limited	128.95	128.95	10.92	As per data furnished by ISTS Licensee for January'24
64	Powergrid Bikaner Transmission System Limited	167.88	167.88	14.22	As per data furnished by ISTS Licensee for January'24
65	Powergrid Ramgarh Transmission Limited	46.41	46.41	3.93	As per data furnished by ISTS Licensee for January'24
66	North East Transmission Company Limited	252.89	252.89	21.42	Data not furnished for January'24. 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 January'24
68	Madhya Pradesh Power Transmision Co. Ltd.	12.54	12.54	1.06	Data not furnished for January'24. 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 January'24. 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 January'24. Data as furnished by ISTS Licensee for Dec'20 has been considered.
71	Power Transmission Corporation Of Uttarakhand Ltd	71.66	71.66	6.07	As per data furnished by ISTS Licensee for January'24. CERC Tariff Order dated 09.11.2021, 25.11.2021, 13.06.2021 and 20.01.2024 have been considered.

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for January'24 (₹ Cr)	Equivalent MTC to be considered for January'24 (₹ Cr)	Remarks
72	Rajasthan Rajya Vidhyut Prasaran Nigam Ltd.	33.98	6.37	0.54	Data not furnished by ISTS Licensee for January'24. 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 January'24. 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	Data not furnished for January'24. Considered the same as in the earlier billing period.
75	Himachal Pradesh Power Transmission Corporation Ltd	2.61	2.61	0.22	Data not furnished for January'24. 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 January'24. 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.
77	Uttarpradesh Power Transmission Corporation Limited	27.23	0.00	0.00	Data not furnished by ISTS Licensee for January'24. 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 January'24. 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 January'24. 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 January'24. 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 January'24. 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 January'24
83	Assam Electricity Grid Corporation Limited	10.78	0.00	0.00	Data not furnished by ISTS Licensee for January'24. 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 January'24 (₹ Cr)	Equivalent MTC to be considered for January'24 (₹ Cr)	Remarks
84	Meghalaya Power Transmission Corporation Limited	3.61	0.00	0.00	Data not furnished by ISTS Licensee for January'24. 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 January'24. 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 January'24 from the claimed assets of ISTS licensees (₹ Crores)

3901.49

Entity-wise details of Bilateral billing for January,2024 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-Sirucheru 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 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		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
12	1x25 MVAR Bus Reactor at 400 kV Fatehgarh Pooling Station along with associated bay			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
13	Space for future 220kV (12 Nos) Line Bays	Fatehgarh Badhla Transmission Limited		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	THDC India Ltd.	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)			NR			As per Regulation 13(3) of Sharing Regulations 2020
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

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
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.		3520487		
	400/220 kV Koppal Pooling Station		Renew Surya Ojas Pvt. Ltd.		13498801		
	400kV •ICT: 3x500MVA, 400/220kV •ICT bay: 3 nos.		Ayana Renewable Power Six Private Limited		7730023		

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"> •Line bay: 2 nos. •Bus Reactor bay: 2 nos. <li style="text-align: center;">220kV •ICT bay: 3 nos •Line bay: 5 nos. •Bus coupler bay: 1 no. •Transfer Bus coupler bay: 1 no. 	Koppal-Narendra Transmission Limited		SR			As per Regulation 13(3) of Sharing Regulations 2020
26	2x125 MVAR, 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. 						

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
28	Establishment of 400/220kV, 4x500MVA Ramgarh-II PS (Fatehgarh-III PS) with 420kV (2x125MVAR) Bus Reactor 400kV: 500MVA ICT - 4 ICT bays - 4 Line bays - 4 125MVAR Bus Reactor - 2 Reactor Bays - 2 220kV: ICT bays - 4 Line Bays - 7	Powergrid Ramgarh Transmission Ltd.	ReNew Surya Vihan Pvt. Ltd.	NR	5988370		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.		7866420		
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.		7490810		
31	Ramgarh-II PS - Jaisalmer-II (RVPN) 400kV D/c line (Twin HTLS)		Adani Renewable Energy Holding Seventeen Pvt. Ltd.		11976740		
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.		5988370		

TOTAL

503220975

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(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

Commercial data of RE transmission network to be considered for NC-RE component for January, 2024 Billing period

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	In case of Transmission			YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks										
							Type of Conductor	No. of sub-Conductors	Line Length (ckt km)																		
1		765	Green Energy Corridors-Inter-State Transmission Scheme (ISTS)-Part-B in Northern Region	Chittorgarh-Ajmer 765 kV D/C line along with associated bays and 240 MVAR Switchable Line reactors at both end	RE-Line	Chittorgarh-Ajmer 765 kV D/C line	Zebra	6	422.34	42763	2019-24	Final 19-24	06-10-2018	06-10-2018	328/TT/2022	28-04-2023											
		400	Green Energy Corridors-Inter State Transmission Scheme (ISTS) Part-B	1 no. 400 kV, 125 MVAR Bus Reactor along with associated bay at Banaskantha SS	RE BR																						
		765	Green Energy Corridors-Inter State Transmission Scheme (ISTS) Part-B	765kV Banaskantha - Chittorgarh TL with 2 nos. 330 MVAR, SLR at Bansknta. SS & 2 nos. 240 MVAR, SLR at Chittgrh SS, 400 kV Bansknta - Sankhari TL, 2 nos. 1500 MVA, ICTs along with ass. bays and 1 no. 765 kV, 330 MVAR BR with ass. bay at Bansknta SS	RE Line	765kV Banaskantha - Chittorgarh TL	Hexa Zebra	6	715.652																		
		400			RE Line	400 kV Bansknta - Sankhari TL	Twin Moose	2	43.41																		
		765			RE SLR																						
		765			RE ICT																						
		765			RE BR																						
2		400	Transmission System for Ultra Mega Solar Park in Anantpur District,Andhra Pradesh-Part A (Phase-I)	LILO of 400 kV Kadapa-Kolar S/C Line at NP Kunta alongwith associated line bays and 1 no of 500 MVA ICT along with its bays at NP Kunta Substation	RE-Line	LILO of 400 kV Kadapa-Kolar S/C Line at NP Kunta	ACSR Moose	2	19.02	3804	2019-24	Final 19-24	05-10-2016	05-10-2016	360/TT/2020	18-02-2022											
		400/220	Transmission System for Ultra Mega Solar Park in Anantpur District,Andhra Pradesh-Part A (Phase-I)	2x500 MVA transformer & 1x125 MVAR reactor alongwith associated bays at NP Kunta	RE-ICT																						
		400	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh-Part A (Phase-I)	±100 MVAR STATCOM at NP Kunta Pooling Station	RE-STATCOM																						
3		400	Transmission System for Ultra Mega Solar Park (750MW) in Rewa District, Madhya Pradesh in Western Region	LILO of Vindhyachal-Jabalpur 400 kV 2nd D/C line (Ckt 3 & 4) alongwith 2 nos. ICTs, Bus reactor associated bays and 1 no. 220 kV line bays at 400/220 kV Rewa Pooling station	RE Line	LILO of Vindhyachal-Jabalpur 400 kV 2nd D/C line (Ckt 3 & 4) at 400/220 kV Rewa Pooling station	Moose	2	129.024	3785	2014-19	Final 14-19	06-07-2018	06-07-2018	7/TT/2018	5-Nov-18											
4		220	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh - Part C (Phase-III)	2 nos. 220 kV Line bays (Bay No 209 & 211) at NP Kunta substation	NC-RE						2019-24	Final 19-24	03-07-2018	03-07-2018	185/TT/2022	9-Feb-23	Set aside by APTEL vide Order dtd 15.12.2023 under APL No. 605 OF 2023 & IA No. 1783 OF 2022 & IA No. 1782 OF 2022										
5		220	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh - Part C (Phase-III)	2 nos. 220 kV Line bays (Bay No 210 & 212) at NP Kunta substation	NC-RE						2019-24	Final 19-24	03-07-2018	03-07-2018	185/TT/2022	9-Feb-23	Set aside by APTEL vide Order dtd 15.12.2023 under APL No. 605 OF 2023 & IA No. 1783 OF 2022 & IA No. 1782 OF 2022										

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks		
11			Transmission System for Ultra mega Solar Power Park at Tumkur (Pavagada), Karnataka-Phase-I	1x 125 MVAR 400 kV Bus reactor and along with associated bays & equipment's at 400/220 kV Tumkur (Pavagada) pooling station	RE					7645	2019-24	Final 19-24	14-03-2018	14-03-2018	357/TT/2020	14-03-2022			
		400	Transmission System for Ultra mega Solar Power Park at Tumkur (Pavagada), Karnataka-Phase-I	LILO of 400 kV D/C Bellary -Tumkur (Vasantnarsapur) D/C (Quad Moose) TL at Tumkur (Pavagada) pooling station along with associated bays & equipment	RE-Line	LILO of 400 kV D/C Bellary - Tumkur (Vasantnarsapur) D/C (Quad Moose) TL at Tumkur (Pavagada) pooling station	Moose	4	222.96										
			Transmission System for Ultra mega Solar Power Park at Tumkur (Pavagada), Karnataka-Phase-I	1 X 500 MVA 400/220 kV ICT-I at 400/220 kV Tumkur (Pavagada) pooling station along with associated bays & equipment	RE														
			Transmission System for Ultra mega Solar Power Park at Tumkur (Pavagada), Karnataka-Phase-I	1 X 500 MVA 400/220 kV ICT-II at 400/220 kV Tumkur (Pavagada) pooling station along with associated bays & equipment	RE														
12		400	Transmission system for Ultra Mega Solar Power Park at Tumkur (Pavagada), Karnataka -Phase II (Part A) in Southern Region	1X500 MVA 400/220 kV ICT along with associated bays at Tumkur (Pavagada) Substation	RE-ICT					711	2019-24	Final 19-24	31-03-2019	31-03-2019	656/TT/2020	21-Mar-22			
13		400	Transmission System Associated with "Green Energy Corridors: Inter State Transmission Scheme (ISTS)-Part A	(1)400 kV D/C Ajmer(N)-Aj.(RVPN)TL awab at BE(2)125 MVAR BR awab at Aj.(N)(3)ICT-I awab at Aj.(N)(4)D/C Chit.(New)Chit.(R)TL awab at BE(5)240 MVAR BR awab at Chit.(N)(6)125MVAR BR awab at Chit.(N)(7)ICT-I awab at Chit.(N)(8)ICT-II awab at Chit.(N)	RE-Line	400 kV D/C Ajmer (New)-Ajmer (RVPN) TL	Moose	4	131.23										
		400		RE-Line	400 kV D/C Chittorgarh (New)- Chittorgarh (RVPN) TL	Moose	4	97.48											
			Transmission System Associated with "Green Energy Corridors: Inter State Transmission Scheme (ISTS)-Part A	Combined Assets of(1) 765 kV, 240 MVAR BR along with associated bay at Ajmer (New) SS(2) 765/400 kV, 3X500 MVA ICT-II along with associated bays at Ajmer (New) SS	RE						18363	2019-24	Final 19-24	02-02-2018	02-02-2018	476/TT/2020	28-03-2022		
		400	Transmission System Associated with "Green Energy Corridors: Inter State Transmission Scheme (ISTS)-Part A	2 X400 kV D/C(Quad)Tirunelveli Pooling Station-Tuticorin Pooling station line along with new 400/230kV (GIS) Tirunelveli Pooling SS with 2X125MVAR 400kV BR & associated bays at 400/230kV Tuticorin Pooling station	RE-Line	2 X 400 kV D/C (Quad) Tirunelveli Pooling Station-Tuticorin Pooling station line	Moose	4	24.06										
14			Transmission System Associated with "Green Energy Corridors: Inter State Transmission Scheme (ISTS)-Part A	2X500MVA 400/230kV transformers along with associated bays andequipmentat new 400/230kV (GIS) Tirunelveli Pooling Sub-station	RE				1690	2019-24	Final 19-24	10-06-2018	10-06-2018	476/TT/2020	28-Mar-22	Breakup of Pool & Bilateral portion already given in Format II G(1)			

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks
15	POWERGRID	400	Tr. System for Ultra Mega Solar Power Park (700 MW) at Banaskantha (Radhanesda), Gujarat in WR	400 kV Banaskantha (Radhanesda) Pooling Station-Banaskantha (PG) D/C line alongwith 2 nos. 400 Kv line bays at Banaskanta (PG)	RE Line	400 kV Banaskantha (Radhanesda) Pooling Station-Banaskantha (PG) D/C line	Twin Moose	2	130.38	2026	2019-24	Final 19-24	05-09-2020	05-09-2020	203/TT/2021	26-May-22	Breakup of Pool & Bilateral portion already given in Format II G(1)
16		400	Supplementary Transmission System for Ultra Mega Solar Power Park (700 MW) at Banaskantha (Radhanesda), Gujarat in WR	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	RE					2373	2019-24	Final 19-24	05-09-2020	05-09-2020	74/TT/2021	9-Jun-22	Breakup of Pool & Bilateral portion already given in Format II G(1)
17		765	Transmission System for Solar Power Park at Bhadla in the Northern Region	a) 765 kV D/C Bhadla (PG)- Bikaner (PG) with 2x240 MVAR SLR at Bhadla (PG) Ss & 2x240 MVAR SLRs at Bikaner (PG) Ss; (b) 765/400 kV, 1500 MVA ICT-I, II & III with ass. bays at Bhadla (PG) Ss; (c) 1 no of 240 MVAR BR with ass. bays at Bhadla (PG) Ss	RE	765 kV D/C Bhadla (PG)-Bikaner (PG)	Hexa ACSR Zebra	6	338.876	18630	2019-24	Final 19-24	17-10-2019	17-10-2019	9/TT/2021	11-Jun-22	
18		400	Transmission System for Solar Power Park at Bhadla in the Northern Region	2 numbers 400 kV line bays at Bhadla (POWERGRID) Sub-station	RE					321	2019-24	Final 19-24	27-09-2019	27-09-2019	9/TT/2021	11-Jun-22	Breakup of Pool & Bilateral portion already given in Format II G(1)
19		220	Transmission System for Solar Power Park at Bhadla in the Northern Region	2 numbers 220 kV line bays (205 & 206) at Badhla (POWERGRID) Sub-station	RE					226	2019-24	Final 19-24	07-08-2019	07-08-2019	9/TT/2021	11-Jun-22	
20				Transmission System for Solar Power Park at Bhadla in the Northern Region	500 MVA ICT-I along with associated bays at Bhadla (POWERGRID) Sub-station	RE				504	2019-24	Final 19-24	01-06-2019	01-06-2019	9/TT/2021	11-Jun-22	As per APTEL Order dtd 10.08.2023 under DFR No : 541 of 2022, the CERC order under appeal is set aside to the limited extent it has been made applicable to the Appellant (ESUCRL). Accordingly the bilateral portion has been removed here.
21				Transmission System for Solar Power Park at Bhadla in the Northern Region	500 MVA ICT-III along with associated bays at Bhadla (POWERGRID) Sub-station	RE				503	2019-24	Final 19-24	17-05-2019	17-05-2019	9/TT/2021	11-Jun-22	As per APTEL Order dtd 10.08.2023 under DFR No : 541 of 2022, the CERC order under appeal is set aside to the limited extent it has been made applicable to the Appellant (ESUCRL). Accordingly the bilateral portion has been removed here.
22		220	Transmission System for Solar Power Park at Bhadla in the Northern Region	220 kV Sourya Urja line-2 Bay at Bhadla (POWERGRID) Sub-station	RE				105	2019-24	Final 19-24	04-05-2019	04-05-2019	9/TT/2021	11-Jun-22		

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks
23		400	Transmission System for Solar Power Park at Bhadla in the Northern Region	Comb Asset(a) 400 kV D/C Bhadla (PG)- Bhadla (RVPNL) CKTs 1&2 with ass. bays; (b) 400 kV,1X125 MVAR BR with ass. bays at Bhadla (PG) Ss; (c) 400 kV, 500 MVA ICT-2 with ass. bays at Bhadla (PG) Ss; (d) 220 kV, Adani Bhadla (Ps) line-1 bay at Bhadla (PG) Ss	RE	400 kV D/C Bhadla (PG)-Bhadla (RVPNL) CKTs 1&2 with ass. bays	Quad ACSR Moose	4	53.084	2291	2019-24	Final 19-24	29-04-2019	29-04-2019	9/TT/2021	11-Jun-22	As per APTEL Order dtd 10.08.2023 under DFR No : 541 of 2022, the CERC order under appeal is set aside to the limited extent it has been made applicable to the Appellant (ESUCRL). Accordingly the bilateral portion has been removed here.
24		220	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh - Part B (Phase-II)	4 Numbers of 220 kV line bays (Bay No. 213, 214, 219 & 220) at NP Kunta Substation	RE					206	2014-19	Final 14-19	03-08-2018	03-08-2018	171/TT/2019	18-Jul-22	
25		220	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh - Part B (Phase-II)	2 numbers of 220 kV line bays (Bay No. 217 & 218) at NP Kunta Sub-station	RE					127	2014-19	Final 14-19	26-04-2017	26-04-2017	171/TT/2019	18-Jul-22	
26		400	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh - Part B (Phase-II)	Loop out Portion of LILO of Kadapa-Hindupur 400 kV D/C line (both circuits) at NP Kunta Sub-station along with associated bays	RE Line	Loop out Portion of LILO of Kadapa-Hindupur 400 kV D/C line (both circuits) at NP Kunta Sub-station	Quad Moose	2	18.32	562	2014-19	Final 14-19	12-10-2018	12-10-2018	171/TT/2019	18-Jul-22	
27		400	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh - Part B (Phase-II)	Loop in Portion of LILO of Kadapa-Hindupur 400 Kv Double Circuit (D/C) line (both circuits) at NP Kunta Sub-station along with associated bays	RE Line	Loop in Portion of LILO of Kadapa-Hindupur 400 Kv Double Circuit (D/C) line (both circuits) at NP Kunta Sub-station	Quad Moose	2	19.18	472	2014-19	Final 14-19	04-08-2018	04-08-2018	171/TT/2019	18-Jul-22	
28		400 kV	Transmission System for Ultra Mega Solar Power Park at Tumkur (Pavagada), Karnataka - Phase II (Part A) in SR	400 kV D/C Hiriyur - Mysore transmission line along with associated bays and 2X80 MVAR switchable line reactors along with associated bays at 400/220 Kv Mysore Sub-station	NC-RE	400 kV D/C Hiriyur - Mysore transmission line	Twin ACSR Moose	2	411.448	5576	2019-24	Final 19-24	01-05-2020	01-05-2020	112/TT/2021	3-Jan-23	
29		400/220 kV	Transmission System for Ultra Mega Solar Power Park at Tumkur (Pavagada), Karnataka - Phase II (Part A) in SR	1X500 MVA 400/220 kV ICTs along with associated bays at Tumkur (Pavagada) Sub-station	NC-RE					626	2019-24	Final 19-24	28-04-2019	28-04-2019	112/TT/2021	3-Jan-23	
30		400 kV	Transmission System for Ultra Mega Solar Power Park at Tumkur (Pavagada), Karnataka - Phase II (Part A) in SR	1X125 MVA 400kV Bus Reactor along with associated bays at Tumkur (Pavagada) pooling Sub-station	NC-RE					166	2019-24	Final 19-24	03-06-2019	03-06-2019	112/TT/2021	3-Jan-23	
31		400	Transmission Scheme for controlling high loading and high short circuit level at Moga Substation in NR	The Bus splitting scheme at Moga Substation	NC-RE					770	2019-24	Final 19-24	10-09-2021	10-09-2021	301/TT/2022	15-Feb-23	

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks
32		220	Transmission System for Ultra Mega Solar Park (750MW) in Rewa District, Madhya Pradesh in Western Region.	1 Number 220 kV Line Bay for 220 kV Rewa Pooling-Ramnagar circuit- 2 line and 1 Number 220 kV Line Bay for 220 kV Rewa pooling-Barsaita Desh circuit 2 line at Rewa Pooling Station	NC-RE					172	2014-19	Final 14-19	25-07-2018	25-07-2018	06/TT/2020	24-Feb-23	
33		220	Transmission System for Ultra Mega Solar Park (750MW) in Rewa District, Madhya Pradesh in Western Region.	1 Number 220 kV Line Bay for 220 kV Rewa Pooling - Ramnagar circuit - 1 line at Rewa Pooling Station	NC-RE					115	2014-19	Final 14-19	16-10-2018	16-10-2018	06/TT/2020	24-Feb-23	
34		220	Transmission System for Ultra Mega Solar Park (750MW) in Rewa District, Madhya Pradesh in Western Region.	2 Number 220 kV line bays for 220 kV Rewa Pooling-Badwar circuit- 1 and circuit- 2 line at Rewa Pooling Station	NC-RE					179	2014-19	Final 14-19	22-11-2018	22-11-2018	06/TT/2020	24-Feb-23	
35		400/220	Transmission System for Ultra Mega Solar Park (750MW) in Rewa District, Madhya Pradesh in Western Region.	1 Number 500 MVA, 400/220 kV ICT 3 along with associated 400 kV and 220 kV transformer bays at Rewa Pooling Station	NC-RE					517	2014-19	Final 14-19	08-02-2019	08-02-2019	06/TT/2020	24-Feb-23	
36		400	Additional ATS for Tumkur (Pavagada) under Transmission system for Ultra Mega Solar Power Park at Tumkur (Pavagada), Karnataka-Phase II (Part B)	Tumkur (Pavagada) Pooling station-Devanahally (KPTCL) 400 kV D/C (Quad) line along with associated bays and equipment's at Tumkur (Pavagada) Pooling Station & Devanahally (KPTCL)	NC-RE	Tumkur (Pavagada) Pooling station-Devanahally (KPTCL) 400 kV D/C (Quad) line	Quad ACSR Moose	4	314.84	8153	2019-24	Final 19-24	01-03-2021	01-03-2021	83/TT/2022	31-Mar-23	
		400/220 kV	System Strengthening Scheme at Tuticorin- II and Bhuj PS in the WR and SR	1 no. 500 MVA 400/220 kV ICT-4 along with associated 400 Kv and 220 Kv bays at Bhuj Sub-station	NC-RE					530	2019-24	Final 19-24	09-10-2019	09-10-2019	110/TT/2022	30-Jun-23	
		400/220 kV	System Strengthening Scheme at Tuticorin- II and Bhuj PS in the WR and SR	1 no. 500 MVA 400/220 kV ICT5 along with associated 400 Kv & 220 Kv bays at Bhuj Sub-station	NC-RE					532	2019-24	Final 19-24	23-10-2019	23-10-2019	110/TT/2022	30-Jun-23	
		400/220 kV	System Strengthening Scheme at Tuticorin- II and Bhuj PS in the WR and SR	1 no. 500 MVA 400/220 kV ICT-3 along with associated 400 Kv & 220 Kv bays at Bhuj Sub-station	NC-RE					629	2019-24	Final 19-24	17-09-2020	17-09-2020	110/TT/2022	30-Jun-23	
		400/220 kV	System Strengthening Scheme at Tuticorin- II and Bhuj PS in the WR and SR	1 no. 500 MVA, 400/220 kV ICT-8 along with associated 400kV and 220kV transformer bays at Bhuj PS and 1 no. 1500 MVA, 765/400 kV ICT-4 along with associated 765 kV and 400 kV transformer bays at Bhuj PS	NC-RE					2643	2019-24	Final 19-24	02-05-2021	02-05-2021	110/TT/2022	30-Jun-23	
		400/220 kV	System Strengthening Scheme at Tuticorin- II and Bhuj PS in the WR and SR	1 no. 500 MVA, 400/220 kV ICT-7 along with associated 400 kV and 220 kV transformer bays at Bhuj PS	NC-RE					769	2019-24	Final 19-24	04-05-2021	04-05-2021	110/TT/2022	30-Jun-23	
		765/400 kV	System Strengthening Scheme at Tuticorin- II and Bhuj PS in the WR and SR	1 no. 1500 MVA, 765/400 kV ICT-3 along with associated 765 kV & 400 kV transformer bays at Bhuj PS and 1 No. 500 MVA, 400/220 kV ICT-6 along with associated 400 kV & 220 kV transformer bays at Bhuj PS	NC-RE					2610	2019-24	Final 19-24	05-05-2021	05-05-2021	110/TT/2022	30-Jun-23	

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks	
		400/220 kV	System Strengthening Scheme at Tuticorin- II and Bhuj PS in the WR and SR	1 X 500 MVA, 400/220 kV Transformer along with associated bays at Tuticorin-II (GIS) Sub-station	NC-RE					840	2019-24	Final 19-24	28-02-2022	28-02-2022	110/TT/2022	30-Jun-23		
37	POWERGRID AJMER PHAGI TRANSMISSION LIMITED	765		Ajmer(PG)-Phagi(RVPN) 765 kV D/C line	RE Line	Ajmer(PG)-Phagi(RVPN) 765 kV D/C line	Hexa Zebra	6	269.6	7479	-	-	-	06-05-2021	398/AT/2019	04.03.2020		
		765		2 nos. of 765 kV line bays(AIS) at Ajmer PG-Phagi(RVPN) 765 kV D/C line	RE Line bays									06-05-2021				
		765		1 no. 765 kV bay (AIS) & 1 complete GIS dia 765 kV (2 Main breaker & 1 Tie breaker) at Phagi S/s for Ajmer(PG)-Phagi (RVPN) 765 kV D/C line	RE Line bays									06-05-2021				
		765		3x80 MVAR, 765 kV bus reactor with GIS bay (2nd main bay of new DIA being created for termination of 765 kV D/C line from Ajmer) at Phagi S/s.	RE Bus Reactor									06-05-2021				
38	Fatehgarh-Bhadla Transmission Ltd.	400		Establishment of 400 kV Pooling Station at Fatehgarh						4809				Deemed COD 31.07.2021	94/TL/2018		Breakup of Pool & Bilateral portion already given in Format II G(1)	
		765		Fatehgarh Pooling Station - Bhadla (PG) 765 kV D/C line (To be operated at 400 kV)	Line	Fatehgarh Pooling Station - Bhadla (PG) 765 kV D/C line (To be operated at 400 kV)		6	292					Deemed COD 31.07.2021	94/TL/2018			
		400		2 Nos. 400 kV line bays at Fatehgarh Pooling Station										Deemed COD 31.07.2021	94/TL/2018			
		400		1x25 MVAR Bus Reactor at 400 kV Fatehgarh Pooling Station along with associated bay										Deemed COD 31.07.2021	94/TL/2018			
		220		Space for future 220kV (12 Nos) Line Bays										Deemed COD 31.07.2021	94/TL/2018			
		400		Space for future 400kV (8 Nos) Line Bays alongwith line reactors at at Fatehgarh Pooling Station										Deemed COD 31.07.2021	94/TL/2018			
		400		Space for future 220/400kV transformers (5 Nos) alongwith associated transformer bays at each level.										Deemed COD 31.07.2021	94/TL/2018			
		400		Space for future 400kV bus reactors (2 Nos) alongwith associated bays.										Deemed COD 31.07.2021	94/TL/2018			
39	POWERGRID FATEHGARH TRANSMISSION LIMITED	765		Fatehgarh-II - Bhadhla-II 765 kV D/C Line	Line	Fatehgarh-II - Bhadhla-II 765 kV D/C Line	ACSR ZEBRA	6	373.5	8769				01-09-2021	441/AT/2019	05.03.2020		
		765		2 nos. of 765 kV bays each at Fatehgarh-II & Bhadhla-II S/s for Fatehgarh-II to Bhadhla-II 765 kV D/C line	Bays			NA	NA					NA			01-09-2021	
		765		240 MVAR Switchable Line Reactor with NGR of 400 ohm at Fatehgarh-II on each circuit of Fatehgarh II - Bhadhla-II 765 kV D/C Line	SLR			NA	NA					NA			01-09-2021	

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks	
40	BIKANER-KHETRI TRANSMISSION LIMITED	765		Bikaner (PG) - Khetri S/s 765kV D/c line	Line	Bikaner (PG) - Khetri S/s 765kV D/c line	Zebra	6	481	11299				04-Sep-21	344/TL/2019			
		765		765kV Bays at Bikaner (PG) & Khetri for Bikaner (PG)-Khetri S/s 765kV D/c line. (765kV line bays-4 nos.)						633				04-Sep-21				
		765		1x240 MVAR Switchable line reactor for each circuit at each end of Bikaner-Khetri 765kV D/c line along with reactor bays (1x240 MVAR Line reactor-4 nos., 765kV Reactor bay-4 nos.) 1x80 MVAR, 765 kV, 1-ph Reactor (spare unit) (For 2x240 MVAR line reactor on Bikaner-Khetri 765kV D/c line at Bikaner end)							962					04-Sep-21		
41	POWERGRID KHETRI TRANSMISSION SYSTEM LIMITED	765/400		765/400 kV, 2x1500 MVA ICT along with 765 kV, 2x240 MVAR and 400 kV, 1x125 MVAR Bus reactor at Khetri Substation			NA	NA	NA	3254				04-10-2021	297/AT/2019	23.12.2019		
		765		400 kV, D/C Khetri-Sikar Transmission line		400 kV, D/C Khetri-Sikar Transmission line	Moose	2	156.2	1646				04-10-2021				
		400		400 kV line bays at Sikar (PG) for Khetri-Sikar (PG) 400 kV D/C line				NA	NA	NA	185						04-10-2021	
		765		765 kV, D/C Khetri-Jhatikara Transmission Line		765 kV, D/C Khetri-Jhatikara Transmission Line	ACSR ZEBRA	6	292.1	8755				04-10-2021				
		765		765 kV line bays at Jhatikara for Khetri-Jhatikara 765 kV D/C line				NA	NA	NA	411						04-10-2021	
		765		1x240 MVAR Switchable Line reactors for each circuit at Jhatikara end of Khetri-Jhatikara 765 kV D/C line along with reactor bays				NA	NA	NA	656						04-10-2021	
42	JAM KHAMBA LIYA TRANSCO LIMITED	400kV		Establishment of 4x500MVA, 400/220kV Jam Khambhaliya PS (GIS)	Sub-Station					2389				12-Apr-2022	47/AT/2020	24-03-2020		
		400kV		1x125MVAR, 420kV Bus reactor at Jam Khabhaliya PS along with reactor bay	Bus Reactor					245								
		400kV		Extension of Essar-Lakadia/ Bhachau 400kV D/c (triple snowbird) line upto Jam Khambhaliya PS	Transmission Line	Extension of Essar-Lakadia/ Bhachau 400kV D/c (triple snowbird) line upto Jam Khambhaliya PS	ACSR Snow Bird	Three	37.234	636								
		400kV		2 nos. of 400kV line bays at Jam Khambhaliya PS for termination of Jam Khambhaliya PS-Lakadia 400kV D/C (triple) line	Line Bays					294								
		400kV		63MVAR switchable Line Reactor at both ends of Lakadia - Jam Khambhaliya 400kV D/c line along with 500 Ohms NGR on both circuits & at both ends of Lakadia - Jam Khambhaliya 400 kV D/c line	Line Reactor					473								
		765		Lakadia PS - Banaskantha PS 765kV D/c line	Transmission Line	Lakadia PS - Banaskantha PS 765kV D/c line	Zebra	Six	351	8629								

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks
43	BANASKANTHA TRANSMISSION LIMITED	765		765kV Bays at Lakadia and Banaskantha sub-stations for Lakadia PS - Banaskantha PS 765kV D/c line	Bays		NA	NA	NA	690				01-Sep-2022	442/TL/2019	23.01.2020	
		765		2x240MVAr switchable Line reactor along with bays at Lakadia PS end of Lakadia PS - Banaskantha PS 765kV D/c line	Reactor		NA	NA	NA	709							
44	POWERGRID BHUJ TRANSMISSION LIMITED	765		765 kV D/C Bhuj PS-Bhuj II (PBTL)	Transmission Line	765 kV D/C Bhuj PS-Bhuj II (PBTL)	ACSR ZEBRA	6 (Hexa)	52.6	12250				02.08.2022* (* To be considered in ISTS Pool from 17.10.2022)	448/AT/2019	05.03.2020	
		765		330 MVAR 765 kV Bus Reactor along with associated 765 kV bay	Bus Reactor												
		765/400		1500 MVA, 765/400 kV ICT-2 along with associated 765 kV & 400 kV transformer bays	ICT												
		400		125 MVAR 400 kV Bus Reactor along with associated 400 kV bay	Bus Reactor												
		400/220		500 MVA, 400/220 kV ICT-2 along with associated 400 kV & 220 kV transformer bays	ICT												
		400/220		500 MVA, 400/220 kV ICT-3 along with associated 400 kV & 220 kV transformer bays	ICT												
		400/220		500 MVA, 400/220 kV ICT-1 along with associated 400 kV & 220 kV transformer bays	ICT												
		765		240 MVAR 765 kV Bhuj II - Lakadia Ckt-1 Line Reactor at Bhuj II end	Line Reactor												
		765		240 MVAR 765 kV Bhuj II - Lakadia Ckt-2 Line Reactor at Bhuj II end	Line Reactor												
		400/220		500 MVA, 400/220 kV ICT-4 along with associated 400 kV & 220 kV transformer bays	ICT												
		220		220 kV line bay-1	Bay												
		220		220 kV line bay-2	Bay												
		220		220 kV line bay-3	Bay												
		220		220 kV line bay-4	Bay												
		220		220 kV line bay-5	Bay												
		220		220 kV line bay-6	Bay												
		220		220 kV line bay-7	Bay												
765		110 MVAR 765 kV Spare Bus Reactor	Bus Reactor														
765		765 kV D/C Bhuj II - Lakadia Line (up to tapping point)	Transmission Line	765 kV D/C Bhuj II - Lakadia Line (up to tapping point)	ACSR ZEBRA	6 (Hexa)	52.7										
765/400		1500 MVA, 765/400 kV ICT-1 along with associated 765 kV & 400 kV transformer bays	ICT					645				16.11.2022					
45	WRSS XXI (A) TRANSC	765		Establishment of 2x1500MVA, 765/400kV Lakadia PS with 765kV (1x330MVAR) & 420kV (1x125 MVAR) bus reactor	Sub-Station		NA	NA	NA	3354				17-10-2022	409/TL/2019	27.12.2019	
		765		LILO of Bhachau - EPGL 400kV D/c (triple) line at Lakadia PS	Transmission Line	LILO of Bhachau - EPGL 400kV D/c (triple) line at Lakadia PS	Zebra	Six	79	931							

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks	
48	Karur Transmission Limited	400kV		LILO of both circuits of Pugalur – Pugalur (HVDC) 400 kV D/C line (with Quad Moose ACSR Conductor) at Karur PS	Transmission Line	LILO of both circuits of Pugalur – Pugalur (HVDC) 400 kV D/C line (with Quad Moose ACSR Conductor) at Karur PS	ACSR Quad Moose		8.51	2237				24-Sep-2023	103/AT/2022	17-05-2022	Breakup of Pool & Bilateral portion already given in Format II G(1)	
		400kV		2x125 MVAR, 400 kV Bus reactors at Karur PS	Bus Reactor													
49	Koppal-Narendra Transmission Limited	400		400 kV D/C Quad Moose Koppal PS – Narendra (New) Transmission Line	Transmission Line		ACSR Moose	4	275.618	1248								
		400/220		400/220 kV Koppal Pooling Station 400kV •ICT: 3x500MVA, 400/220kV •ICT bay: 3 nos. •Line bay: 2 nos. •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.	Substation		-	-	-		2967			20-10-2023	283/AT/2021	25.02.2022	Breakup of Pool & Bilateral portion already given in Format II G(1)	
		400		2x125 MVAR, 420 kV bus reactor at Koppal Pooling station	Substation		-	-	-		453							
		400		- 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.	Substation		-	-	-		113							
50	Powergrid Ramgarh Transmission Limited	400		400kV D/C Fatehgarh III (Ramgarh-II) - Fatehgarh II Ckt # 1,2	Line	400kV D/C Fatehgarh III (Ramgarh-II) - Fatehgarh II Ckt # 1,2	TWIN HTLS ACSS	2 Nos per phase	88.272									
		400		400kV D/C Fatehgarh III (Ramgarh-II) - Jaisalmer II Ckt # 1,2	Line	400kV D/C Fatehgarh III (Ramgarh-II) - Jaisalmer II Ckt # 1,2	TWIN HTLS ACSS	2 Nos per phase	99.848									
		400/220		Establishment of 400/220 kV, 4x500 MVA at Ramgarh-II (Fatehgarh-III) PS with 420 kV (2x125 MVAR) bus reactor 400/220 kV, 500 MVA ICT- 4 400 kV ICT bays – 4 220 kV ICT bays – 4 400 kV Line bays – 4 220 kV line bays – 7 125 MVAR, 420 kV bus reactor – 2 420 kV reactor bay – 2	Substation						4641		C		00:00 HRS, 24.12.2023	90/AT/2021	05-05-2021	The said tr. System is considered as ATS of various generators, granted connectivity at Fatehgarh-III (PS). Details were attached at Format II G(1).
		400		400 kV Line Bays at Fatehgarh-II S/s - 2 Nos. (for 400 kV Ramgarh-II (Fatehgarh-3)- Fatehgarh-II D/c lines)	Line Bays													
		400		400 kV Line Bays at Jaisalmer-II S/s -2 Nos. (for 400 kV Jaisalmer-II- Ramgarh-II (Fatehgarh-3) D/c lines)	Line Bays													

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