



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
उत्तर क्षेत्रीय विद्युत समिति
Northern Regional Power Committee

Dated: 30 September, 2024

सेवामें/ To

संलग्न सूची के अनुसार/ As per list enclosed

विषय: अक्टूबर, 2024 माह के बिलिंग महीने (अगस्त, 2024 की बिलिंग अवधि) का आर.टी.ए. एवं सितम्बर, 2024 माह के बिलिंग महीने (जुलाई, 2024 की बिलिंग अवधि) का आर.टी.डी.ए. एवं जुलाई, 2024 और अगस्त, 2024 के बिलिंग महीने (मई, 2024 से जून, 2024 माह की बिलिंग अवधि) के आर.टी.डी.ए. में संशोधन-।

Subject: RTA for the billing month of October 2024 (billing period August 2024), RTDA for billing month of September, 2024 (billing period July, 2024) and Amendment-I to RTDA for billing month of July 2024 and August 2024 (billing period May, 2024 to June, 2024).

महोदय/ Sir,

The Regional Transmission Account (RTA) for the billing month of October 2024 (billing period August 2024) and Regional Transmission Deviation Account (RTDA) for the billing months of September 2024 (billing period July 2024) is issued herewith, prepared as per the provisions given in the CERC Sharing of Inter-State Transmission Charges and Losses Regulations, 2020, and amendments thereof, based on the following notification by the Implementing Agency:

1. Amendment to notification of Transmission charges payable by DICs for Billing Month of October, 2024 dated 25.09.2024.
2. Amendment to notification of Transmission charges payable by DICs for Billing Month of September, 2024 dated 25.08.2024.

Further, Amendment-I to the RTDA for the billing months of July 2024 and August 2024 (billing period May, 2024 to June, 2024), are issued herewith, prepared as per the provisions given in the CERC Sharing of Inter-State Transmission Charges and Losses Regulations, 2020, and amendments thereof, based on the following notifications by the Implementing Agency:

1. Amendment to notification of Transmission charges payable by DICs for Billing Month of July, 2024 dated 25.06.2024
2. Amendment to notification of Transmission charges payable by DICs for Billing Month of August, 2024 dated 25.07.2024

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

अनुलग्नक – यथोपरि।

Encl.: As above.

भवदीय

Yours faithfully

Signed by Anzum Parwej

Date: 30-09-2024 17:32:18

(अंजुम परवेज)

अधीक्षण अभियंता (वाणिज्य)

NORTHERN REGIONAL POWER COMMITTEE

Regional Transmission Deviation Account of DICs of Northern Region for the for the billing Month of September 2024

(billing period of July 2024)

Dedicated ISTS Customer	Location	Transmission Deviation Rate (Rs./MW/Block)	T-GNA Rate (Rs./MW/Block)	Transmission Deviation- Excess Drawal (MW)	Transmission Deviation- Excess Injection (MW)	Transmission Deviation Charges (Rs.)
DRAWL DIC						
Chandigarh	Chandigarh	131.99	116.15	30008.000	0	3960812
Delhi	Delhi	138.67	122.03	852.000	0	118072
Himachal Pradesh	Himachal Pradesh	129.24	113.73	0.000	0	0
Haryana	Haryana	185.80	163.50	132.000	0	24312
Jammu & Kashmir	Jammu and Kashmir	130.49	114.83	0.000	0	0
Punjab	Punjab	164.31	144.59	33392.000	0	5486324
PG(HVDC-NR)	NR	163.16	143.58	252.000	0	41168
Rajasthan	Rajasthan	129.96	114.37	68.000	0	8716
Railways NCR	Uttar Pradesh	154.19	135.69	68700.000	0	10592616
Uttarakhand	Uttarakhand	139.77	122.99	1224.000	0	171308
Uttar Pradesh	Uttar Pradesh	154.19	135.69	1512236.000	0	233171916
INJECTION DIC						
ADHPL	Himachal pradesh	129.24	113.73	0.000	564.000	72804
Anta	Rajasthan	129.96	114.37	3820.000	0.000	436808
Auraiya	Uttar Pradesh	154.19	135.69	6720.000	0.000	911880
Bairasul	Himachal pradesh	129.24	113.73	32.000	0.000	3520
Chamera I	Himachal pradesh	129.24	113.73	496.000	0.000	56228
Chamera II	Himachal pradesh	129.24	113.73	0.000	0.000	0
CHAMERA-III HPS	Himachal pradesh	129.24	113.73	0.000	0.000	0
Dadri GPP	Uttar Pradesh	154.19	135.69	5584.000	0.000	757604
Dadri - I TPP	Uttar Pradesh	154.19	135.69	0.000	0.000	0
Dadri - II TPP	Uttar Pradesh	154.19	135.69	0.000	0.000	0
DHAULIGANGA	Uttarakhand	139.77	122.99	16.000	0.000	1920
DULHASTI	Jammu and Kashmir	130.49	114.83	4.000	0.000	252
IGSTPS Jhajjar	Haryana	185.80	163.50	0.000	0.000	0
KWHEP	Himachal pradesh	129.24	113.73	0.000	0.000	0
Khurja STPP	Uttar Pradesh	154.19	135.69	17452.000	0.000	2368176
Koldam HEP	Himachal pradesh	129.24	113.73	284.000	1752.000	258908
KOTESHWAR	Uttarakhand	139.77	122.99	232.000	176.000	53116
Kishanganga HEP	Jammu and Kashmir	130.49	114.83	4.000	0.000	420
Nathpa Jhakri	Himachal pradesh	129.24	113.73	0.000	20.000	2456
Greenko Budhil	Himachal pradesh	129.24	113.73	0.000	18804.000	2430048

NORTHERN REGIONAL POWER COMMITTEE

Regional Transmission Deviation Account of DICs of Northern Region for the for the billing Month of September 2024

(billing period of July 2024)

Dedicated ISTS Customer	Location	Transmission Deviation Rate (Rs./MW/Block)	T-GNA Rate (Rs./MW/Block)	Transmission Deviation- Excess Drawal (MW)	Transmission Deviation- Excess Injection (MW)	Transmission Deviation Charges (Rs.)
PARBATI-II_Infirm	Himachal pradesh	129.24	113.73	0.000	0.000	0
PARBATI-III	Himachal pradesh	129.24	113.73	4.000	0.000	504
RAMPUR HEP	Himachal pradesh	129.24	113.73	0.000	3332.000	430600
Rihand - I	Uttar Pradesh	154.19	135.69	0.000	0.000	0
Rihand - II	Uttar Pradesh	154.19	135.69	0.000	0.000	0
RIHAND-III STPS	Uttar Pradesh	154.19	135.69	0.000	0.000	0
RAP7&8_StartupDrawl	Rajasthan	129.96	114.37	19300.000	0.000	2207268
SAINJ	Himachal pradesh	129.24	113.73	0.000	0.000	0
Singoli Bhatwari	Uttarakhand	139.77	122.99	0.000	4.000	488
Shree Cement	Rajasthan	129.96	114.37	0.000	0.000	0
Sewa II	Jammu and Kashmir	130.49	114.83	620.000	0.000	71144
Singrauli	Uttar Pradesh	154.19	135.69	0.000	0.000	0
SINGRAULI SHEP	Uttar Pradesh	154.19	135.69	4.000	0.000	360
Salal	Jammu and Kashmir	130.49	114.83	0.000	0.000	0
HIMACHAL SORANG	Himachal pradesh	129.24	113.73	0.000	0.000	0
TANDA-II STPS	Uttar Pradesh	154.19	135.69	0.000	0.000	0
Tehri	Uttarakhand	139.77	122.99	12.000	0.000	1392
Tanakpur	Uttarakhand	139.77	122.99	28.000	52.000	11076
Unchahar I	Uttar Pradesh	154.19	135.69	0.000	0.000	0
Unchahar II	Uttar Pradesh	154.19	135.69	0.000	0.000	0
Unchahar III	Uttar Pradesh	154.19	135.69	0.000	0.000	0
Unchahar IV	Uttar Pradesh	154.19	135.69	3868.000	0.000	525108
URI HPS	Jammu and Kashmir	130.49	114.83	0.000	0.000	0
URI-II	Jammu and Kashmir	130.49	114.83	0.000	0.000	0
Total						264177324



ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उपक्रम)

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

[Formerly Power System Operation Corporation Limited (POSOCO)]

राष्ट्रीय भार प्रेषण केन्द्र/National Load Despatch Centre

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

No: TC/08/2024

Date: 25.08.2024

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 **61st time block (15:00 Hrs to 15:15 Hrs) on 29th July, 2024** as a peak block for the billing period of July'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 14.08.2024 with last date of submission of comments as 16.08.2024.
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 was made available on Grid-India website on 15.08.2024 for review and comments by DICs/ States in line with the notified procedures latest by 18.08.2024.
7. The methodology involved in the computation exercise along with the assumptions followed in the computations are enclosed at **Annexure-II**.
8. CERC had notified the CERC (Connectivity and General Network Access to the inter-State Transmission System) (First Amendment) Regulations, 2023 on 01.04.2023 w.e.f 05.04.2023. As per Annexure-II of the said Regulations, titled as "Methodology to determine 'Direct drawal' by a State from a regional entity generating station", CTU will provide the list of regional entity generating stations (connected to STU and ISTS or only STU) to NLDC within a week of coming into effect of these Regulations for computation of Direct drawal by the state.

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

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

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

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

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

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

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

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

.....”

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

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

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

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

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

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

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

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

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

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

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

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

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

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

11. Accordingly, the transmission charges are hereby notified for the billing month of September'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 September'24 shall be used by RPCs for preparation of Regional Transmission Account (RTA) for the billing month of September'24 considering details of GNA enclosed along with this notification.
 - d) The notified waiver % of Drawee DICs for the billing month of September'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**.

सुभेनु मुखर्जी

(सुभेनु मुखर्जी)

उप-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 31.07.2024. Rajgarh Transmission Limited and Adani Energy Solutions Limited have submitted its YTC on 01.08.2024. Torrent Power Grid Limited has submitted its YTC on 03.08.2024. Power Transmission Corporation Of Uttarakhand Ltd. and Haryana Vidyut Prasaran Nigam Limited have submitted its YTC on 05.08.2024. Darbhanga-Motihari Transmission Company Limited, NRSS XXXI (B) Transmission Limited and Kudgi Transmission Ltd. have submitted its YTC on 08.08.2024. Further, Powergrid submitted its revised YTC on 14.08.2024. 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 July'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	Khavda-Bhuj Transmission Limited
17	Essar Power Transmission Company Limited
18	Essar Transco Limited

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

Sl. No.	Name of ISTS Licensee
45	Rajgarh Transmission Limited
46	Powergrid Vizag Transmission Limited
47	Powergrid NM Transmission Limited
48	Powergrid Unchahar Transmission Limited
49	Powergrid Parli Transmission Limited
50	Powergrid Kala Amb Transmission Limited
51	Powergrid Southern Interconnector Transmission System Limited
52	Powergrid Jabalpur Transmission Limited
53	Powergrid Warora Transmission Limited
54	Powergrid Medinipur Jeerat Transmission Limited
55	Powergrid Mithilanchal Transmission Limited
56	Powergrid Ajmer Phagi Transmission Limited
57	Powergrid Varanasi Transmissoin System Limited
58	Powergrid Fatehgarh Transmission Limited
59	Powergrid Khetri Transmission System Ltd.
60	Powergrid Bhuj Transmission Limited
61	Powergrid Bikaner Transmission System Limited
62	Powergrid Ramgarh Transmission Limited
63	Powergrid Neemuch Transmission System Limited
64	North East Transmission Company Limited
65	Power Transmission Corporation Of Uttarakhand Ltd.
66	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(H) within 7 days after the end of the billing period i.e. by 07.08.2024. NLDC had provided the detailed list of ISTS assets of all licensees for segregation into various components as per stipulated formats on 01.08.2024. 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 14.08.2024.

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 07.08.2024 is as mentioned below:

S.NO.	WR	SR	NR	NER	ER
1	Chattisgarh	Andhra Pradesh	Uttar Pradesh	Assam	Odisha
2	Gujarat	Telangana	Haryana	Manipur	
3	Madhya Pradesh	Karnataka	Himachal Pradesh	Meghalaya	
4	Maharashtra	Kerala	Delhi	Nagaland	
5	Goa	Tamil Nadu	Rajasthan	Tripura	
6	D&D and DNH	PVG Azure Earth	Punjab		
7	AMNSIL-Hazira	PVG AMPLUS Tumkur and PVG AMPLUS Pavagada	ReNew Solar Power Private Limited		
8	ACBIL	Yarrow Infra Structure Private Ltd. (Pavagada Solar Park)			
9	Spectrum Power				
10	Maruti Coal Power				
11	BALCO				
12	CGPL				
13	DB Power Ltd.				
14	DGEN				
15	GMR Warora (EMCO)				
16	Raipur Energen				
17	Jindal Stg-1				
18	JPL Stg-2				

S.NO.	WR	SR	NR	NER	ER
19	Jhabua Power				
20	JP Nigrie				
21	KAPS 1&2				
22	KAPS 3&4				
23	Raigarh Energy				
24	KSK Mahanadi				
25	LANCO				
26	MB Power				
27	Essar Mahan				
28	NSPCL Bhilai				
29	Ratnagiri Dabhol(RGPPL)				
30	RKM Power				
31	Sasan UMPP				
32	SKS Power				
33	SSP				
34	TAPS (3,4)				
35	TAPS (1,2)				
36	Naranpar Ostro				
37	ACME RUMS				
38	Mahindra Renewables Pvt. Ltd.				
39	ARINSUM				
40	Bhuvad Renew				
41	Vadwa Green Infra				
42	Roha Green infra				
43	Dayapar Inox				
44	Ratadiya AGEMPL				

S.NO.	WR	SR	NR	NER	ER
45	Alfanar wind				
46	Renew AP2 Gadhsisa				
47	Avikiran				
48	Powerica				
49	SESPL Morjar				
50	SKRPL				
51	SBESS				
52	Netra Wind				
53	AWEK4L				
54	Apraava				
55	SRSSFPL				
56	MSEPL				
57	Torrent Sidhpur				
58	Avaada(LADWAN)				

Methodology of the computations and assumptions followed in the basic network

a) Modeling of the Basic Network

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

b) Load Generation balance for the basic network

- A. Node wise generation and demand data for the peak block as submitted by DICs has been considered to prepare Load Generation balance.
- B. Wherever aggregate generation and demand data submitted by DICs, the generation and demand data has been distributed across the nodes of the DICs as per the node wise distribution of the TTC/ATC base case applicable for July'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 July'24. For the ISTS licensees who have not submitted YTC data for July'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 July'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 Vindhychal-Korba at Mahan, GIS S/s at Hazira and 400kV Hazira-Gandhar line) was being excluded from PoC computations in the absence of exclusive tariff of LILO of 400kV Vindhychal-Korba at Mahan since 2020-21 Q2. As per CERC Order dated 04.06.2021 in I.A. No. 32/2021 in Petition No. 92/MP/2021, exclusive tariff of 400kV Hazira-Gandhar Line and GIS S/s at Hazira has been approved and same has been considered for billing period July'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	357
2	± 500	HVDC	176
3	765	D/C	502
4	765	S/C	228
5	400	S/C	96
6	400	M/C TWIN	449
7	400	D/C Quad Moose	288
8	400	D/C Twin HTLS	225
9	400	D/C Twin Moose	168
10	400	M/C QUAD	851
11	400	D/C TRIPLE	235
12	400	S/C QUAD	159
13	220	D/C	71

Sl. No.	Voltage level (kV)	Type of conductor configuration	Indicative cost (Rs.Lakh/km)
14	220	S/C	53
15	220	M/C TWIN	321
16	132	D/C	48
17	132	S/C	28
18	132	M/C TWIN	226

- 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 September,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	4,810	312,699,064	744,685,444	129,608,686	119,956,379	220,562,106	60,510,448		1,588,022,127
2	UP	NR	9,959	998,815,813	1,541,924,874	268,364,125	248,378,326	456,689,735	141,874,920		3,656,047,793
3	Punjab	NR	5,503	651,125,031	851,945,918	148,276,822	137,234,248	252,330,682	111,739,269		2,152,651,971
4	Haryana	NR	5,143	747,656,276	796,240,590	138,581,595	128,261,051	235,831,791	228,440,538		2,275,011,841
5	Chandigarh	NR	342	17,833,239	52,948,528	9,215,420	8,529,123	15,682,378	3,262,529		107,471,218
6	Rajasthan	NR	5,689	229,542,405	880,772,451	153,293,933	141,877,721	260,868,570	93,886,062		1,760,241,143
7	HP	NR	1,130	25,478,520	174,946,892	30,448,610	28,181,020	51,816,046	36,822,449		347,693,538
8	J&K	NR	1,977	58,928,653	306,079,651	53,271,595	49,304,316	90,655,153	55,967,026		614,206,394
9	Uttarakhand	NR	1,402	79,338,184	217,058,003	37,777,833	34,964,416	64,288,581	33,092,760		466,519,777
10	Railways-NR-ISTS-UP	NR	130	8,135,138	20,126,634	3,502,937	3,242,064	5,961,138			40,967,912
11	PG-HVDC-NR	NR	8	576,599	1,238,562	215,565	199,512	366,839			2,597,077
12	Northern Railways	NR							2,850,896		2,850,896
13	North Central Railways	NR							2,082,280		2,082,280
14	RAPP 7&8, NPCIL	NR								32,598,581	32,598,581
15	Adani Renewable Energy Park Rajasthan Limited	NR								19,728	19,728
16	ACME Solar Holdings Pvt. Ltd	NR								2,643,606	2,643,606
17	THDC India Ltd.	NR								43,172,638	43,172,638
18	ReNew Surya Vihan Pvt. Ltd.	NR								2,001,592	2,001,592
19	Renew Surya Roshni Pvt. Ltd.	NR								7,887,972	7,887,972
20	Adani Renewable Energy Holding Seventeen Pvt. Ltd.	NR								12,009,553	12,009,553
21	ReNew Surya Aayan Pvt. Ltd.	NR								6,004,777	6,004,777
22	Gujarat	WR	12,611	671,566,890	1,952,464,601	339,816,461	314,509,414	137,661,653	81,588,993	1,334,508	3,498,942,518
23	Madhya Pradesh	WR	10,587	525,615,486	1,639,106,849	285,278,149	264,032,718	115,567,861	154,033,882		2,983,634,946

S.No.	Zone	Region	GNA (in MW)	Usage based AC system charges (₹)	Balance AC system charges (₹)	National Component (₹)		Regional Component (₹)	Transformers component (₹)	Bilateral Charges (₹)	Total Transmission charges payable in ₹ (without waiver)
				AC-UBC	AC-BC	NC-RE	NC-HVDC	RC	TC		
24	Maharashtra	WR	9,410	733,160,767	1,456,824,573	253,552,853	234,670,090	102,715,756	84,774,010		2,865,698,050
25	Chhattisgarh	WR	3,276	76,472,810	507,191,167	88,274,024	81,700,020	35,760,328	22,811,849		812,210,198
26	Goa	WR	673	48,347,273	104,194,034	18,134,438	16,783,917	7,346,368	11,946,269		206,752,299
27	DNHDDPDCL	WR	1,206	147,930,376	186,713,232	32,496,481	30,076,381	13,164,516	38,241,869		448,622,856
28	ArcelorMittal Nippon Steel India Ltd (formerly Essar Steel)	WR	563	23,796,947	87,163,806	15,170,414	14,040,632	6,145,624	8,805,858		155,123,280
29	PG-HVDC-WR	WR	5	115,884	774,101	134,728	124,695	54,579			1,203,987
30	BARC	WR	5	246,869	774,101	134,728	124,695	54,579			1,334,973
31	Adani Power Limited	WR								261,939,401	261,939,401
32	Mahan Energen Limited (formerly Essar Power M.P. Ltd)	WR								50,578,071	50,578,071
33	Netra Wind Private Limited	WR								276,403	276,403
34	Andhra Pradesh	SR	4,199	334,530,505	650,090,266	113,144,880	104,718,676	207,511,877	44,259,813		1,454,256,017
35	Telangana	SR	5,801	516,708,422	898,112,320	156,311,848	144,670,884	286,681,685	37,806,122		2,040,291,282
36	Tamil Nadu	SR	8,765	425,656,360	1,356,999,567	236,178,822	218,589,950	433,160,657	94,524,182		2,765,109,537
37	Kerala	SR	2,679	139,886,115	414,763,473	72,187,457	66,811,463	132,394,455	70,553,469		896,596,432
38	Karnataka	SR	5,413	396,673,220	838,111,729	145,869,053	135,005,792	267,529,214	121,587,841		1,904,776,847
39	Pondicherry	SR	540	30,852,730	83,602,940	14,550,663	13,467,036	26,686,452	12,934,811		182,094,633
40	PG-HVDC-SR	SR	6	414,647	952,145	165,716	153,375	303,929			1,989,812
41	BHAVINI	SR								16,579,819	16,579,819
42	Betam	SR								483,536	483,536
43	JSW Renew Energy Ltd.	SR								18,999,178	18,999,178
44	ReNew Solar Power Pvt Ltd.	SR								568,121	568,121
45	Renew Surya Ojas Pvt. Ltd.	SR								880,655	880,655
46	West Bengal	ER	3,540	507,427,003	548,063,715	95,387,682	88,283,904	77,911,589	57,370,152		1,374,444,046
47	Odisha	ER	2,157	83,452,542	333,947,298	58,121,816	53,793,328	47,473,248	68,213,316		645,001,548
48	Bihar	ER	4,847	335,761,182	750,413,793	130,605,676	120,879,120	106,677,252	175,574,609		1,619,911,632

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		
49	Jharkhand	ER	1,580	62,178,956	244,616,009	42,574,163	39,403,551	34,774,099	58,424,755		481,971,532
50	Sikkim	ER	111	1,263,197	17,185,049	2,990,970	2,768,224	2,442,990	2,716,102		29,366,532
51	DVC	ER	956	62,318,368	148,008,167	25,760,063	23,841,642	21,040,531	9,955,082		290,923,854
52	Bangladesh	ER	982	24,265,610	152,033,494	26,460,651	24,490,055	21,612,763			248,862,572
53	Railways-ER-ISTS-Bihar	ER	20	295,027	3,096,405	538,913	498,779	440,178			4,869,304
54	PG-HVDC-ER	ER	2	235,856	309,641	53,891	49,878	44,018			693,284
55	NTPC, North Karanpura STPP, Jharkhand	ER								4,351,348	4,351,348
56	Arunachal Pradesh	NER	208	4,829,377	32,202,614	5,604,700	5,187,303	6,899,588	11,468,510		66,192,092
57	Assam	NER	1,767	157,598,429	273,567,397	47,613,004	44,067,135	58,613,330	22,495,448		603,954,743
58	Manipur	NER	177	5,988,792	27,403,186	4,769,384	4,414,195	5,871,284	3,279,094		51,725,935
59	Meghalaya	NER	238	10,600,490	36,847,222	6,413,070	5,935,472	7,894,721	403,207		68,094,182
60	Mizoram	NER	150	5,901,516	23,223,039	4,041,851	3,740,843	4,975,665	1,055,327		42,938,241
61	Nagaland	NER	139	8,148,312	21,520,016	3,745,449	3,466,515	4,610,783	20,816,891		62,307,965
62	Tripura	NER	311	6,277,380	48,149,100	8,380,104	7,756,015	10,316,211	20,803,153		101,681,964
63	PG-HVDC-NER	NER	1	196,031	185,784	32,335	29,927	39,805			483,882
TOTAL			119,019	8,478,842,290	18,426,578,379	3,207,051,562	2,968,213,802	3,839,430,610	2,006,973,792	462,329,486	39,389,419,921

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	Region	Pooling 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	WR	Bhachau S/s	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	209,700	
2	ReNew Power Limited	WR	Bhachau S/s	50	0	Yet to be commissioned	50MW: 23.11.19	50	150,000	
3	NTPC Ltd. (Rihand Solar)	NR	Intra-State	20	0	-	20MW: 20.10.2022	20	60,000	
4	JSW Neo Energy Ltd.	SR	Tuticorin-II	300	274.62	27 MW: 05.12.2022 51.3 MW: 22.04.2023 13.5 MW: 10.05.2023 24.3 MW: 27.05.2023 13.5 MW: 06.06.2023 18.9 MW: 06.07.2023 21.6 MW: 29.07.2023 27 MW: 30.08.2023 18.9 MW: 28.09.2023 16.2 MW: 11.11.2023 13.5 MW: 02.03.2024 18.9 MW: 21.06.2024 13.5 MW: 09.07.2024	01.10.2023	25.38	76,152	
5	NTPC Limited	WR	Bhuj PS	150	50	50 MW: 04.11.2023	28.02.2024	100	300,000	
6	Adani Renewable Energy Holding Four Limited	WR	KPS-1	1000	0	Yet to be commissioned	25.02.2024	1000	3,000,000	
7	IBEUL	ER	Sundargarh	350	339.6	20-07-2016	31-03-2024	10.4	31,200	
8	Rewa Ultra Mega Solar Power Limited (Agar & Shajapur Park)	WR	Pachora PS	1000	550	200MW: COD 11.04.2024 350MW: COD 15.04.2024	12.04.2024	450	1,350,000	
9	THDC India Ltd. (Khurja STPP)	NR	Aligarh S/s	465.6	0	Yet to be commissioned	30.04.2023	465.6	1,396,800	

Sl.No.	Name of Generating Station	Region	Pooling 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
10	Rewa Ultra Mega Solar Power Limited (Neemuch Solar Park)	WR	Neemuch PS	500	0	Yet to be commissioned	06.05.2024	500	1,500,000	
11	NTPC Renewable Energy Ltd.	WR	Bhuj-II PS	300	0	Yet to be commissioned	07.06.2024	300	900,000	
12	ReNew Green Energy Solutions Pvt. Ltd.	WR	Solapur PG	100	0	Yet to be commissioned	30.06.2024	100	300,000	
13	ReNew Green Energy Solutions Pvt. Ltd	WR	Solapur PG	76	0	Yet to be commissioned	30.06.2024	76	228,000	
14	Renew Green Energy Solutions Pvt. Ltd	WR	Solapur PG	48	0	Yet to be commissioned	30.06.2024	48	144,000	
15	NTPC Limited (Barh-I)	ER	At generation switchyard	1320	660	Unit-2: 01-08-2023 Unit-3: Yet to be commissioned	30.06.2024	660	1,980,000	
16	Jalpower Corporation Limited	ER	New Melli	120	0	Yet to be commissioned	01.07.2024	120	360,000	

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

Name of DIC	Maximum MVA drawal achieved in previous quarter	pf	Regional Component for Madhya Pradesh for the corresponding billing period	GNA of Madhya Pradesh for the corresponding billing period	Regional Component rate for Madhya Pradesh for the corresponding billing period	Transmission Charges in Rs.
NHPTL	2298.303	0.005	115,567,861	10,587	10,916	125,440

Details of Waiver % of DICs for September 2024 billing month			
Region	State	DIC	Waiver(%)
ER	Bihar	Bihar DISCOMS	13.666
ER	Bihar	Railways-Bihar	0.000
ER	DVC	DVC DISCOM & JBVNL	1.118
ER	DVC	Railways-DVC	0.000
ER	DVC	Tata steel	0.000
ER	West Bengal	WBSEDCL	3.396
ER	West Bengal	CESC	0.000
ER	West Bengal	IPCL	50.772
ER	Jharkhand	JBVNL	19.901
ER	Jharkhand	SE Railways-Jharkhand	0.000
ER	Odisha	Odisha	15.024
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	3.546
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	9.385
NR	Punjab	Northern Railways	0.000
NR	Haryana	Haryana	13.041
NR	Haryana	Railways_BRBCL_HARYANA	2.927
NR	Rajasthan	Rajasthan DISCOMS	8.901
NR	Rajasthan	Railways	0.000
NR	Delhi	Delhi DISCOMS	13.643
NR	Delhi	Delhi Metro Rail Corporation Metro	100.000
NR	Uttar Pradesh	UPPCL	11.277
NR	Uttar Pradesh	NPCL	1.565
NR	Uttar Pradesh	Railway	24.083
NR	Uttrakhand	Uttrakhand	7.385
NR	Himachal pradesh	Himachal pradesh	0.442
NR	Jammu & Kashmir	Jammu & Kashmir	0.380
NR	Chandigarh	Chandigarh	4.321
NR		Railways-NR-ISTS-UP	3.840
NR		PG-HVDC-NR	0.000
SR	Andhra Pradesh	Andhra Pradesh	8.455
SR	Karnataka	Karnataka_DISCOMS	9.898
SR	Karnataka	Railways_Karnataka	6.327
SR	Kerala	KSEB	7.633
SR	Puducherry	Puducherry	24.972
SR	Tamil Nadu	TANGEDCO	1.667
SR	Tamil Nadu	SAIL Steel Plant Salem	0.000
SR	Telangana	TSSPDCL	12.893
SR		PG-HVDC_SR	0.000
WR	Chhattisgarh	CSPDCL	12.364
WR	DD&DNH	DD&DNH	0.000
WR	Goa	Goa	14.569
WR	Gujarat	GUVNL	1.393
WR	Gujarat	Indian Railways	3.254

Region	State	DIC	Waiver(%)
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	9.821
WR	Madhya Pradesh	WCR	2.649
WR	Maharashtra	MSEDCL	9.479
WR	Maharashtra	Adani Electricity Mumbai Limited	57.831
WR	Maharashtra	Tata Power Company Ltd, Maharashtra	33.937
WR	Maharashtra	Central Railways	3.635
WR		PG-HVDC_WR	0.000
WR		Arcelormittal Nippon Steel India Ltd. (Essar Steel)	0.000
WR		BARC	0.000

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

S.No.	State	Region	T-GNA rate (Rs./MW/block)
1	Delhi	NR	122.03
2	UP	NR	135.44
3	Punjab	NR	144.59
4	Haryana	NR	163.50
5	Chandigarh	NR	116.15
6	Rajasthan	NR	114.37
7	HP	NR	113.73
8	J&K	NR	114.83
9	Uttarakhand	NR	122.99
10	Gujarat	WR	102.48
11	Madhya Pradesh	WR	104.17
12	Maharashtra	WR	112.56
13	Chhattisgarh	WR	91.64
14	Goa	WR	113.61
15	Daman and Diu and Dadra and Nagar Haveli	WR	137.50
16	Andhra Pradesh	SR	128.01
17	Telangana	SR	130.00
18	Tamil Nadu	SR	116.61
19	Kerala	SR	123.70
20	Karnataka	SR	130.06
21	Pondicherry	SR	124.64
22	West Bengal	ER	143.51
23	Odisha	ER	110.53
24	Bihar	ER	123.39
25	Jharkhand	ER	112.75
26	Sikkim	ER	97.79
27	DVC	ER	112.48
28	Bangladesh	ER	93.67
29	Arunachal Pradesh	NER	117.63
30	Assam	NER	126.34
31	Manipur	NER	108.02
32	Meghalaya	NER	105.75
33	Mizoram	NER	105.81
34	Nagaland	NER	165.69
35	Tripura	NER	120.85

Details of GNA and GNA-RE for billing month September,2024

S.No.	Drawee DIC	Region	GNA/GNA-RE (in MW)
1	Delhi	NR	4810.0
2	UP	NR	9959.5
3	Punjab	NR	5502.8
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	12611.2
13	Madhya Pradesh	WR	10587.2
14	Maharashtra	WR	9409.8
15	Chhattisgarh	WR	3276.0
16	Goa	WR	673.0
17	DNHDDPDCL	WR	1206.0
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	5413.5
26	Pondicherry	SR	540.0
27	PG-HVDC-SR	SR	6.2
28	West Bengal	ER	3540.0
29	Odisha	ER	2157.0
30	Bihar	ER	4847.0
31	Jharkhand	ER	1580.0
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	208.0
38	Assam	NER	1767.0
39	Manipur	NER	177.0
40	Meghalaya	NER	238.0
41	Mizoram	NER	150.0
42	Nagaland	NER	139.0
43	Tripura	NER	311.0
44	PG-HVDC-NER	NER	1.2

119019.17

Transmission Charges claimed by ISTS licensees for the billing month September'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for July'24 (₹ Cr)	Equivalent MTC to be considered for July'24 (₹ Cr)	Remarks
1	Powergrid Corporation Of India Ltd	35412.40	35412.40	3007.63	As per data furnished by ISTS Licensee for July'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	603.73	603.73	51.28	As per data furnished by ISTS Licensee for July'24
3	Chhattisgarh-WR Transmission Limited.	168.20	168.20	14.29	As per data furnished by ISTS Licensee for July'24
4	Raipur Rajnandgaon-WR Transmission Limited.	182.37	182.37	15.49	As per data furnished by ISTS Licensee for July'24
5	Sipat Transmission Limited.	84.89	84.89	7.21	As per data furnished by ISTS Licensee for July'24
6	Western Transmission Gujarat Limited	48.57	48.57	4.13	As per data furnished by ISTS Licensee for July'24
7	Western Transco Power Limited	89.04	89.04	7.56	As per data furnished by ISTS Licensee for July'24
8	Alipurduar Transmission Limited	149.84	149.84	12.73	As per data furnished by ISTS Licensee for July'24
9	Fatehgarh-Bhadla Transmission Ltd.	65.04	65.04	5.52	As per data furnished by ISTS Licensee for July'24
10	North Karanpura Transco Limited	39.01	39.01	3.31	As per data furnished by ISTS Licensee for July'24
11	Bikaner-Khetri Transmission Limited	128.95	128.95	10.95	As per data furnished by ISTS Licensee for July'24
12	Jam Khambaliya Transco Limited	44.08	44.08	3.74	As per data furnished by ISTS Licensee for July'24
13	Lakadia-Banaskantha Transmission Limited	100.28	100.28	8.52	As per data furnished by ISTS Licensee for July'24
14	WRSS XXI (A) Transco Limited	122.16	122.16	10.38	As per data furnished by ISTS Licensee for July'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for July'24 (₹ Cr)	Equivalent MTC to be considered for July'24 (₹ Cr)	Remarks
15	Karur Transmission Limited	22.37	22.37	1.90	As per data furnished by ISTS Licensee for July'24.
16	Khavda-Bhuj Transmission Limited	127.19	127.19	10.80	As per data furnished by ISTS Licensee for July'24.
17	Aravali Power Company Private Limited	6.76	6.76	0.57	Data not furnished for July'24. Considered the same as in the earlier billing period.
18	Essar Power Transmission Company Limited	69.07	69.07	5.87	As per data furnished by ISTS Licensee for July'24.
19	Essar Transco Limited	269.64	269.64	22.90	As per data furnished by ISTS Licensee for July'24.
20	Jindal Power Limited	31.06	31.06	2.64	As per data furnished by ISTS Licensee for July'24.
21	Kudgi Transmission Limited	196.29	196.29	16.67	As per data furnished by ISTS Licensee for July'24.
22	Parbati Koldam Transmission Company Limited	171.37	171.37	14.55	As per data furnished by ISTS Licensee for July'24.
23	Bhopal Dhule Transmission Company Ltd.	185.06	185.06	15.72	As per data furnished by ISTS Licensee for July'24.
24	East North Interconnection Company Limited	146.10	146.10	12.41	As per data furnished by ISTS Licensee for July'24.
25	Gurgaon Palwal Transmission Limited	134.70	134.70	11.44	As per data furnished by ISTS Licensee for July'24.
26	Jabalpur Transmission Company Limited	146.98	146.98	12.48	As per data furnished by ISTS Licensee for July'24.
27	Maheshwaram Transmission Limited	56.10	56.10	4.77	As per data furnished by ISTS Licensee for July'24.
28	Khargone Transmission Company Ltd.	178.44	178.44	15.16	As per data furnished by ISTS Licensee for July'24.
29	Goa Tamnar Transmission Projects Limited	42.71	42.71	3.63	As per data furnished by ISTS Licensee for July'24.
30	Mumbai Urja Marg Limited	70.58	70.58	5.99	As per data furnished by ISTS Licensee for July'24.
31	Lakadia Vadodara Transmission Company Limited	230.93	230.93	19.61	As per data furnished by ISTS Licensee for July'24.

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for July'24 (₹ Cr)	Equivalent MTC to be considered for July'24 (₹ Cr)	Remarks
32	NRSS-XXIX Transmission Limited	502.80	502.80	42.70	As per data furnished by ISTS Licensee for July'24.
33	Odisha Generation Phase-II Transmission Limited	148.50	148.50	12.61	As per data furnished by ISTS Licensee for July'24.
34	Patran Transmission Company Limited	30.81	30.81	2.62	As per data furnished by ISTS Licensee for July'24.
35	Purulia & Kharagpur Transmission Company Limited	72.43	72.43	6.15	As per data furnished by ISTS Licensee for July'24.
36	Rapp Transmission Company Limited	44.03	44.03	3.74	As per data furnished by ISTS Licensee for July'24.
37	NER-II Transmission Limited	481.87	481.87	40.93	As per data furnished by ISTS Licensee for July'24
38	Teestavalley Power Transmission Limited	248.37	248.37	21.09	Data not furnished for July'24. Considered the same as in the earlier billing period.
39	Torrent Power Grid Limited	26.03	26.03	2.21	As per data furnished by ISTS Licensee for July'24
40	Darbhanga-Motihari Transmission Company Limited	134.73	134.73	11.44	As per data furnished by ISTS Licensee for July'24
41	NRSS XXXI (B) Transmission Limited	98.09	98.09	8.33	As per data furnished by ISTS Licensee for July'24
42	A D Hydro Power Limited	43.19	43.19	3.67	Data not furnished for July'24. Considered the same as in the earlier billing period.
43	Powergrid Himachal Transmission Ltd (Jaypee Powergrid Limited)	126.73	126.73	10.76	Data not furnished for July'24. Considered the same as in the earlier billing period.
44	Kohima Mariani Transmission Limited	277.20	277.20	23.54	As per data furnished by ISTS Licensee for July'24
45	Raichur Sholapur Transmission Company Private Limited	25.70	25.70	2.18	As per data furnished by ISTS Licensee for July'24.
46	Koppal-Narendra Transmission Limited	77.19	77.19	6.56	As per data furnished by ISTS Licensee for July'24
47	Damodar Valley Corporation	109.09	109.09	9.26	Data not furnished for July'24. Considered the same as in the earlier billing period.
48	Powerlinks Transmission Limited	135.93	135.93	11.55	Data not furnished for July'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 July'24 (₹ Cr)	Equivalent MTC to be considered for July'24 (₹ Cr)	Remarks
49	NRSS XXXVI Transmission Limited	22.10	22.10	1.88	As per data furnished by ISTS Licensee for July'24.
50	Warora-Kurnool Transmission Limited	409.60	409.60	34.79	As per data furnished by ISTS Licensee for July'24.
51	Rajgarh Transmission Limited	50.51	50.51	4.29	As per data furnished by ISTS Licensee for July'24.
52	Powergrid Vizag Transmission Limited	212.81	212.81	18.07	As per data furnished by ISTS Licensee for July'24
53	Powergrid NM Transmission Limited	160.12	160.12	13.60	As per data furnished by ISTS Licensee for July'24
54	Powergrid Unchahar Transmission Limited	18.76	18.76	1.59	As per data furnished by ISTS Licensee for July'24
55	Powergrid Parli Transmission Limited	326.22	326.22	27.71	As per data furnished by ISTS Licensee for July'24
56	Powergrid Kala Amb Transmission Limited	64.86	64.86	5.51	As per data furnished by ISTS Licensee for July'24.
57	Powergrid Southern Interconnector Transmission System Limited	462.10	462.10	39.25	As per data furnished by ISTS Licensee for July'24
58	Powergrid Jabalpur Transmission Limited	256.43	256.43	21.78	As per data furnished by ISTS Licensee for July'24
59	Powergrid Warora Transmission Limited	364.20	364.20	30.93	As per data furnished by ISTS Licensee for July'24
60	Powergrid Medinipur Jeerat Transmission Limited	579.70	579.70	49.23	As per data furnished by ISTS Licensee for July'24
61	Powergrid Mithilanchal Transmission Limited	170.00	170.00	14.44	As per data furnished by ISTS Licensee for July'24
62	Powergrid Ajmer Phagi Transmission Limited	74.79	74.79	6.35	As per data furnished by ISTS Licensee for July'24
63	Powergrid Varanasi Transmissoin System Limited	116.97	116.97	9.93	As per data furnished by ISTS Licensee for July'24
64	Powergrid Fatehgarh Transmission Limited	87.69	87.69	7.45	As per data furnished by ISTS Licensee for July'24
65	Powergrid Khetri Transmission System Ltd.	149.07	149.07	12.66	As per data furnished by ISTS Licensee for July'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for July'24 (₹ Cr)	Equivalent MTC to be considered for July'24 (₹ Cr)	Remarks
66	Powergrid Bhuj Transmission Limited	151.70	151.70	12.88	As per data furnished by ISTS Licensee for July'24
67	Powergrid Bikaner Transmission System Limited	167.88	167.88	14.26	As per data furnished by ISTS Licensee for July'24
68	Powergrid Ramgarh Transmission Limited	46.41	46.41	3.94	As per data furnished by ISTS Licensee for July'24
69	Powergrid Neemuch Transmission System Limited	78.38	78.38	6.66	As per data furnished by ISTS Licensee for July'24
70	North East Transmission Company Limited	252.89	252.89	21.48	As per data furnished by ISTS Licensee for July'24
71	Transmission Corporation Of Andhra Pradesh (APTRANSCO)	411.29	139.14	11.82	Data not furnished for July'24. Considered the same as in the earlier billing period.
72	Madhya Pradesh Power Transmission Co. Ltd.	12.54	12.54	1.06	Data not furnished for July'24. Considered the same as in the earlier billing period.
73	Karnataka Power Transmission Corporation Limited	1.42	1.42	0.12	Data not furnished by ISTS Licensee for July'24. CERC Tariff Order dated 12.06.2019 has been considered
74	Delhi Transco Limited	3.12	3.12	0.26	Data not furnished by ISTS Licensee for July'24. Data as furnished by ISTS Licensee for Dec'20 has been considered.
75	Power Transmission Corporation Of Uttarakhand Ltd	71.66	71.66	6.09	As per data furnished by ISTS Licensee for July'24. CERC Tariff Order dated 09.11.2021, 25.11.2021, 13.06.2021 and 20.01.2024 have been considered.
76	Rajasthan Rajya Vidhyut Prasaran Nigam Ltd.	6.26	6.26	0.53	Data not furnished for July'24. Considered the same as in the earlier billing period.
77	Tamilnadu Transmission Corporation Limited	0.59	0.59	0.05	Data not furnished by ISTS Licensee for July'24. CERC Tariff 148/TT/2018 Order dated 16.11.2018 has been considered
78	Chhattisgarh State Power Transmission Company Ltd	0.75	0.75	0.06	Data not furnished for July'24. Considered the same as in the earlier billing period.
79	Himachal Pradesh Power Transmission Corporation Ltd	2.61	2.61	0.22	Data not furnished for July'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 July'24 (₹ Cr)	Equivalent MTC to be considered for July'24 (₹ Cr)	Remarks
80	Odisha Power Transmission Corporation Limited	9.80	9.67	0.82	Data not furnished by ISTS Licensee for July'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.
81	Uttarpradesh Power Transmission Corporation Limited	27.23	0.00	0.00	Data not furnished by ISTS Licensee for July'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	Power Development Department, Jammu & Kashmir	10.11	0.00	0.00	Data not furnished by ISTS Licensee for July'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
83	Gujarat Energy Transmission Corporation Limited	5.71	0.00	0.00	Data not furnished by ISTS Licensee for July'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
84	Maharashtra State Electricity Transmission Company Ltd	97.68	0.00	0.00	Data not furnished by ISTS Licensee for July'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	West Bengal State Electricity Transmission Company Ltd	32.05	0.00	0.00	Data not furnished by ISTS Licensee for July'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
86	Haryana Vidyut Prasaran Nigam Limited	0.35	0.35	0.03	As per data furnished by ISTS Licensee for July'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for July'24 (₹ Cr)	Equivalent MTC to be considered for July'24 (₹ Cr)	Remarks
87	Assam Electricity Grid Corporation Limited	10.78	0.00	0.00	Data not furnished by ISTS Licensee for July'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
88	Meghalaya Power Transmission Corporation Limited	3.61	0.00	0.00	Data not furnished by ISTS Licensee for July'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
89	Kerala State Electricity Board	10.06	0.00	0.00	Data not furnished by ISTS Licensee for July'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 July'24 from the claimed assets of
ISTS licensees (₹ Crores)

3938.94

Entity-wise details of Bilateral billing for September,2024 billing month

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	32,598,581		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	483,536		As per Regulation 13(3) of Sharing Regulations 2020
3	Asset 1. Kalpakkam PFBR-Sirucheri 230 kV D/C Line, Asset 2. Kalpakkam PFBR - Arani 230 KV D/C Line, Asset 3. 230 kV D/C Kalpakkam PFBR-Kanchipuram transmission line and 2 numbers of 230 kV Bays at Kanchipuram Sub-station of TNEB	Powergrid	Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI)	SR	16,579,819		As per Regulation 13(3) of Sharing Regulations 2020
4	HVDC Mundra-Mahendergarh	Powergrid	Adani Power Limited	WR	261,939,401		--
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	1,334,508	Gujarat	As per Regulation 13(3) of Sharing Regulations 2020
7	Mahan Bilaspur Line	Essar Transco Limited	Mahan Energen Limited (formerly Essar Power M.P. Ltd)	WR	50,578,071		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	10,916		As per Regulation 13(3) of Sharing Regulations 2020
9	Establishment of 400 kV Pooling Station at Fatehgarh	Fatehgarh Badhla Transmission Limited	Adani Renewable Energy Park Rajasthan Limited	NR	8,812		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	2,643,606		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
13	Space for future 220kV (12 Nos) Line Bays			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
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	43,172,638		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
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	4,351,348		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
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	18,999,178		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	Koppal-Narendra Transmission Limited	ReNew Solar Power Pvt Ltd.	SR	568,121		As per Regulation 13(3) of Sharing Regulations 2020
25	400/220 kV Koppal Pooling Station		Renew Surya Ojas Pvt. Ltd.		880,655		
	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.						
26	2x125 MVA, 420 kV bus reactor at Koppal Pooling station						

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
27	- 400 kV GIS Line bay at Narendra (New): 2 nos. - 400 kV GIS Bay for future 765/400kV Transformer: 2 nos. - 400 kV Auxiliary GIS bay module for switching of future 765/400 kV Transformer: 1 no.						
28	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	2,001,592		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.		7,887,972		
30	2 nos. of 400kV line bays at Fatehgarh-II PS for Ramgarh-II PS - Fatehgarh-II PS 400kV D/c line						
31	Ramgarh-II PS - Jaisalmer-II (RVPN) 400kV D/c line (Twin HTLS)		Adani Renewable Energy Holding Seventeen Pvt. Ltd.		12,009,553		

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
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.		6,004,777		
33	1 No. 220 kV GIS Line Bay at Bhuj Sub-station associated with Part-B: Extension works at Bhuj Pooling Station for interconnection of RE projects	Powergrid	Netra Wind Private Limited	WR	276,403		As per Regulation 13(3) of Sharing Regulations 2020

TOTAL

462,329,486

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 as furnished by CTU

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	In case of Transmission line			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 (BTS) 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	42762.75000	2019-24	Final 19-24	10/6/2018	10/6/2018	328/TT/2022	4/28/2023		
		400	Green Energy Corridors-Inter State Transmission Scheme (BTS) Part-B	1 no. 400 kV, 125 MVAR Bus reactor along with associated bay at Banaskantha SS	RE BR													
		765		765kV Banaskantha - Chittorgarh TL with 2 nos. 330 MVAR SLR at Banskota SS & 2 nos. 240 MVAR SLR	RE Line	765kV Banaskantha - Chittorgarh TL	Hexa Zebra	6	715.652									
		400		400 kV Banaskantha - Sankhari TL	RE Line	400 kV Banaskantha - Sankhari TL	Twin Moose	2	43.41									
		765	Green Energy Corridors-Inter State Transmission Scheme (BTS) Part-B	1500 MVA, ICTs along with ass. bays and 1 no. 765 kV, 330 MVAR BR with ass. bay at Banskota SS	RE SLR													
		765			RE ICT													
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 Sub-station	RE-Line	LILO of 400 kV Kadapa-Kolar S/C Line at NP Kunta	ACSR Moose	2	19.02	3804.02000	2019-24	Final 19-24	10/5/2016	10/5/2016	360/TT/2020	2/18/2022		
		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 Vindhyaachal-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 Vindhyaachal-Jabalpur 400 kV 2nd D/C line (Ckt 3 & 4) at 400/220 kV Rewa Pooling station	Moose	2	129.024	3785.45706	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 AP.L 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 AP.L No. 605 OF 2023 & IA No. 1783 OF 2022 & IA No. 1782 OF 2022	
6		400	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh - Part C (Phase-III)	1 no. 500 MVA 400/220 kV Transformer along with associated bays at NP Kunta Sub-Station	NC-RE						2019-24	Final 19-24	30-09-2018	30-09-2018	185/TT/2022	9/Feb/23	Set aside by APTEL vide Order dtd 15.12.2023 under AP.L No. 605 OF 2023 & IA No. 1783 OF 2022 & IA No. 1782 OF 2022	
7		400	Green Energy Corridors-Inter State Transmission Scheme (BTS) PartC	2 nos. 500MVA, 400/220 kV ICTs along with associated bays at Bhui Pooling Station	RE ICT					28425.17	2019-24	Final 19-24	3/20/2019	3/20/2019	42/TT/2022	10/12/2022		
		400	Green Energy Corridors-Inter State Transmission Scheme (BTS) PartC	1 no. 400 kV, 125 MVAR Bus Reactor along with associated bays at Bhui Pooling Station	RE													
		765	Green Energy Corridors-Inter State Transmission Scheme (BTS) PartC	1 no. 1500 MVA, 765/400 kV ICT-1 along with associated bays at Bhui Pooling Station	RE													
		765		765kV D/C Bhuj PS-Banaskantha TL with ass. Bays at both ends, 2x330 MVAR SLRs with ass. bays at both ends, 1 no. 1500 MVA, 765/400 kV ICT-2 and 1 no. 765 kV, 330 MVAR BR with ass. bays at Bhuj PS	RE Line	765kV D/C Bhuj PS-Banaskantha TL	Hexa Zebra	6	579.394									
		765			RE SLR													
		765			RE ICT													
8		765	Green Energy Corridor ISTS-Part D in Northern Region	765 kV D/C Bikaner (New)-Moga TL with 2x330 MVAR, 765 kV SLR and ass. bays at Bikaner end and 2 Nos. 330 MVAR, 765 kV SLR and ass. bays at Moga end	RE	765 kV D/C Bikaner (New)-Moga TL	Hexa Zebra	6	734.734	24069.25000	2019-24	Final 19-24	11-03-2020	11-03-2020	34/TT/2021	8/Mar/22		
9		765	Green Energy Corridor ISTS-Part D in Northern Region	765 kV D/C Ajmer (New)-Bikaner (New) TL with SLR & ass. bays at Ajmer & Bikaner; 2 Nos. 3x500 MVA ICT at Bikaner Ss, 3x110 MVAR & 1x125 MVAR BRs at Bikaner (New) Ss, LILO of one ckt. of 400 kV Badhla (RVPNL) - Bikaner (RVPNL) D/C TL at Bikaner (New)	RE	765 kV D/C Ajmer (New)-Bikaner (New) TL	Hexa Zebra	6	526	24473.95000	2019-24	Final 19-24	7/7/2019	7/7/2019	34/TT/2021	3/8/2022		
10		400	Transmission system for Ultra Mega Solar Power Park at Tumkur (Pavagada), Karnataka Phase-I	Tumkur (Pavagada) Pool-Hiriyur400 kV D/C line along with associated bays and equipment at both ends	RE-Line	Tumkur (Pavagada) Pool-Hiriyur400 kV D/C line	ACSR Moose	2	218.7	2687.83000	2019-24	Final 19-24	27-09-2018	27-09-2018	653/TT/2020	13/Mar/22		
11		400	Transmission System for Ultra mega Solar Power Park at Tumkur (Pavagada), Karnataka-Phase-I	LILO of one circuit of 400 kV D/C Gooty/Tumkur (Vasantnarsapur) D/C line at Tumkur (Pavagada) pooling station	RE-Line	LILO of one circuit of 400 kV D/C Gooty/Tumkur (Vasantnarsapur) D/C line at Tumkur (Pavagada) pooling station	Moose	2	0.45	7645.03000	2019-24	Final 19-24	3/14/2018	3/14/2018	357/TT/2020	3/14/2022		
		400	Transmission System for Ultra mega Solar Power Park at Tumkur (Pavagada), Karnataka-Phase-I	LILO of second circuit of 400 kV D/C Gooty/Tumkur (Vasantnarsapur) D/C line at Tumkur (Pavagada) pooling station along with associated bays and equipment	RE-Line	LILO of second circuit of 400 kV D/C Gooty/Tumkur (Vasantnarsapur) D/C line at Tumkur (Pavagada) pooling station	Moose	2	0.45									
			Transmission System for Ultra mega Solar Power Park at Tumkur (Pavagada), Karnataka-Phase-I	New 400/220 kV pooling station at Tumkur (Pavagada) with 1 X 500MVA 400/220 kV ICT along with associated bays & equipment	RE													
			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 & equipments at 400/220 kV Tumkur (Pavagada) pooling station	RE													

S.No.	Name of the ISIS 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	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					711.07000	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(RVFN)TL awab at BE(2)125 MVAR BR awab at Aj(N)(5)ICT-I awab at Aj(N)(4)D/C Chit.(New)Chit.(RTL) 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 (RVFN) TL	Moose	4	131.23	18363.27000	2019-24	Final 19-24	2/2/2018	2/2/2018	476/TT/2020	3/28/2022				
			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) 3X300 MVA ICT-II along with associated bays at Ajmer (New) SS	RE															
		400	Transmission System Associated with Green Energy Corridors: Inter State Transmission Scheme (ISTS)-Part A	2 X 400 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											
		Transmission System Associated with Green Energy Corridors: Inter State Transmission Scheme (ISTS)-Part A	2X500MVA 400/230kV transformers along with associated bays and equipment at new 400/230kV (GIS) Tirunelveli Pooling Sub-station	RE																
14		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 along with 2 nos. 400 Kv line bays at Banaskantha (PG)	RE Line	400 kV Banaskantha (Radhanesda) Pooling Station-Banaskantha (PG) D/C line	Twin Moose	2	130.38	1690.3600	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)			
15		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 Biskota (Radhanesda) (GIS) for interconnection of Biskota (Radhanesda) PS-Biskota (PG) 400 kV D/C (twin AL59) TL & 4 Nos 220 kV Line bays	RE					2026.1000	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	POWERGRID	400	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 SLR at Bikaner (PG) Ss; (b) 765/400 kV, 1500 MVA ICT-L, 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	18629.5	2019-24	Final 19-24	17-10-2019	17-10-2019	9/TT/2021	11/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	2 numbers 400 kV line bays at Bhadla (POWERGRID) Sub-station	RE					321.3100	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)			
18		400	Transmission System for Solar Power Park at Bhadla in the Northern Region	2 numbers 220 kV line bays (205 & 206) at Bhadla (POWERGRID) Sub-station	RE					225.7	2019-24	Final 19-24	07-08-2019	07-08-2019	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	500 MVA ICT-I along with associated bays at Bhadla (POWERGRID) Sub-station	RE					575.576	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.			
20			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					574.776	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.			
21		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					105.27	2019-24	Final 19-24	04-05-2019	04-05-2019	9/TT/2021	11/Jun/22				
22		400	Transmission System for Solar Power Park at Bhadla in the Northern Region	Comb Asset(a) 400 kV D/C Bhadla (PG)- Bhadla (RVPNL) CKs 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 (P) line-1 bay at Bhadla (PG) Ss	RE	400 kV D/C Bhadla (PG)- Bhadla (RVPNL) CKs 1&2 with ass. bays	Quad ACSR Moose	4	53.084	2346.934	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.			
23		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					113.81	2019-24	Final 19-24	03-08-2018	03-08-2018	8/TT/2023	7/Feb/24				

S.No.	Name of the IS IS 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
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					78.71	2019-24	Final 19-24	26-04-2017	26-04-2017	8/TT/2023	7/Feb/24	
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	487.47	2019-24	Final 19-24	12-10-2018	12-10-2018	8/TT/2023	7/Feb/24	
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	442.34	2019-24	Final 19-24	04-08-2018	04-08-2018	8/TT/2023	7/Feb/24	
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	5576.02	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					625.64	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					165.68	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 Sub-station in NR	The Bus splitting scheme at Moga Substation	NC-RE					770.15	2019-24	Final 19-24	10-09-2021	10-09-2021	301/TT/2022	15/Feb/23	
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-Barsaito Dsh circuit 2 line at Rewa Pooling Station	NC-RE					172.2216	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					114.5050898	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					179.1869231	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					517.3173077	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	8152.82	2019-24	Final 19-24	01-03-2021	01-03-2021	83/TT/2022	31/Mar/23	
37		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					529.87	2019-24	Final 19-24	09-10-2019	09-10-2019	110/TT/2022	30/Jun/23	
38		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					531.69	2019-24	Final 19-24	23-10-2019	23-10-2019	110/TT/2022	30/Jun/23	
39		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					628.74	2019-24	Final 19-24	17-09-2020	17-09-2020	110/TT/2022	30/Jun/23	
40		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					2642.74	2019-24	Final 19-24	02-05-2021	02-05-2021	110/TT/2022	30/Jun/23	
41		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					768.86	2019-24	Final 19-24	04-05-2021	04-05-2021	110/TT/2022	30/Jun/23	
42		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					2610.14	2019-24	Final 19-24	05-05-2021	05-05-2021	110/TT/2022	30/Jun/23	
43		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					839.77	2019-24	Final 19-24	28-02-2022	28-02-2022	110/TT/2022	30/Jun/23	
44		220	Extension works at POWERGRID Sub-stations for inter-connection of RE projects in the Western Region.	1 No. 220 kV GIS Line Bay at Bhuj Sub-station associated with Part-B. Extension works at Bhuj Pooling Station for interconnection of RE projects	NC-RE					104.42	2019-24	Final 19-24	29-09-2021	29-09-2021	293/TT/2022	29/Mar/24	Breakup of Pool & Bilateral portion shall be given in Format II G(1)
45		400	Extension works at POWERGRID Sub-stations for inter-connection of RE projects in the Western Region	Conversion of existing 2x63MVAR Line Reactors at Bhachau end of Bhachau-EPGL 400 kV D/C line to Switchable Line Reactors along with two nos. of 400 kV Reactor bays associated with Part A: PG works associated with Western Region Strengthening Scheme-21	NC-RE					120.04	2019-24	Final 19-24	09-08-2021	09-08-2021	293/TT/2022	29/Mar/24	
46	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					5/6/2021			
		765		2 nos. of 765 kV line bays (AIS) at Ajmer PG-Phagi (RVPN) 765 kV D/C line	RE Line bays									5/6/2021			
		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					7,479.30000	-	-	-	5/6/2021	398/AT/2019	04.03.2020	

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53	POWERGRID BHUJ TRANSMISSION LIMITED	400/220		500 MVA, 400/220 kV ICT-3 along with associated 400 kV & 220 kV transformer bays	ICT					14,411.595				02.08.2022* (* To be considered in ISIS Pool from 17.10.2022)	448/AT/2019	05.03.2020	
		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					758.51				16.11.2022					
54	WRSS XXI (A) TRANSCO LIMITED	765		Establishment of 2x1500MVA, 765/400kV Lakadia PS with 765kV (1x330MVAR) & 420kV (1x125 MVAR) bus reactor	Sub-Station		NA	NA	NA	3354.4600				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	930.8400							
		765		Bhuj PS - Lakadia PS 765kV D/c line	Transmission Line	Bhuj PS - Lakadia PS 765kV D/c line	Zebra	Six	215	7482.1800							
		765		2 nos of 765kV bays at Bhuj PS for Bhuj PS - Lakadia PS 765kV D/c line	Bays		NA	NA	NA	448.3200							
55	LAKADIA VADODARA TRANSMISSION COMPANY LIMITED	765kV		765kV D/C Lakadia Vadodara Transmission Line	Line		Hexa Zebra ACSR	36	669.53	20649.9150				28.01.2023	444/AT/2019	05.03.2020	
		765kV		330MVA switchable line reactors at both end of Lakadia-Vadodara 765kV D/C line along with 500 OHMs NGR at Both ends of Lakadia Vadodara 765kV D/C line.	Substation					1519.5308							
		765kV		2 Nos of 765kV bays each at Lakadia and Vadodara S/s for Lakadia Vadodara 765kV D/C line.	Substation					923.7269							
56	POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED	400 kV		Establishment of 400 kV switching station at Bikaner -II PS with 420kV (2x125 MVAR) bus reactor. 400 kV line bays - 4 numbers. 125 MVA, 420 kV bus reactor - 2 numbers. 400 kV bus reactor bay - 2 numbers. 400 kV, 80MVA line reactor on each circuit at Bikaner -II end of Bikaner -II - Khetri 400 kV 2x2D/c Line - 4 numbers. Switching equipment for 400 kV switchable line reactor - 4 numbers	Switching station					16787.60				24.07.2023	98/AT/2021	12.06.2021	
		400 kV		Bikaner-II PS - Khetri 400 kV 2x2D/c line (Twin HTLS on M/c Tower)	Line	Bikaner-II PS - Khetri 400 kV 2x2D/c line (Twin HTLS on M/c Tower)	HTLS	2	1101.42								
		400 kV		1x80 MVA Fixed Line reactor on each circuit at Khetri end of end of Bikaner -II - Khetri 400 kV 2x2D/c Line - 4 numbers.	Fixed Line reactor												
		400 kV		4 number of 400 kV line bays at Khetri for Bikaner -II PS - Khetri 400kV 2x2D/c line	Bay												
		400 kV		Khetri- Bhiwadi 400 kV D/c line (Twin HTLS)	Line	Khetri- Bhiwadi 400 kV D/c line (Twin HTLS)	HTLS	2	251.31								
		400 kV		2 number of 400 kV line bays at Khetri for Khetri - Bhiwadi 400kV D/c line	Bay												
		400 kV		2 number of 400 kV(GIS) line bays at Bhiwadi for Khetri- Bhiwadi 400 kV D/c line	Bay												
57	KARUR TRANSMISSION LIMITED	400kV		Establishment of 2x500 MVA, 400/230 kV Karur Pooling Station (at a location in between Karur Wind zone and Tiruppur wind zone)	Sub-Station					2,237.00				24-Sep-2023	103/AT/2022	5/17/2022	Breakup of Pool & Bilateral portion already given in Format II G(1)
		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								
		400kV		2x125 MVA, 400 kV Bus reactors at Karur PS	Bus Reactor												
		400		400 kV D/C Quad Moose Koppal PS - Narendra (New) Transmission Line	Transmission Line		ACSR Moose	4	275.618	1,758.39							

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58	KOPPAL-NARENDRA TRANSMISSION LIMITED	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		-	-	-	4,178.29				10/20/2023	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		-	-	-	637.59									
		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			-	-	-	159.78								
		400/220		400/220 kV Koppal Pooling Station (Ph-II) 400kV • ICT: 2x500MVA, 400/220kV • ICT bay: 2 nos. 220kV • ICT bay: 2 nos • Line bay: 4 nos. • Bus sectionalizer bay: 2 no. • Bus coupler bay: 1 no. • Transfer Bus coupler bay: 1 no.	Substation						984.94				27-Jan-24	283/AT/2021	25.02.2022		
59	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	4641.20				00.00 HRS, 24.12.2023	90/AT/2021	5/5/2021	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		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														
		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														
		60	KHAHVDA-BHUJ TRANSMISSION LIMITED	765kV		Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor	Sub-Station						12,718.60						
765kV				Khavda PS (GIS) - Bhuj PS 765 kV D/c line	Transmission Line	Khavda PS (GIS) - Bhuj PS 765 kV D/c line	AI 59	Six	216.86										
765kV				2 nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) - Bhuj PS 765 kV D/c	Bay Extension														
61	RAJGARH TRANSMISSION LIMITED	400 kV		Establishment of 400/220 kV, 3x500 MVA at Pachora SEZ PP with 420 kV (125 MVAR) bus reactor	SS					1376.50				2-Apr-24	Petition No. 170/AT/2022	08.08.2022			
		400 kV		Pachora SEZ PP -Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS) (with minimum capacity of 2100 MVA/ckt at nominal voltage) along with 80MVAR switchable line reactors	TL	Pachora SEZ PP -Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS) (with minimum capacity of 2100 MVA/ckt at nominal voltage) along with 80MVAR switchable line reactors	HTLS	Twin	287.95	3507.30				2-Apr-24	Petition No. 170/AT/2022	08.08.2022			
		400 kV		2 no. of 400 kV line bays at Bhopal (Sterlite) for Pachora SEZ PP -Bhopal (Sterlite) 400 kV D/c line (Quad/HTLS)	Bays					167.40				2-Apr-24	Petition No. 170/AT/2022	08.08.2022			

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62	POWERGRID NEEMUCH TRANSMISSION SYSTEM LIMITED	400/220		Establishment of 2x500 MVA, 400/220 kV Pooling Station (AIS) at Neemuch with 1x125 MVAR Bus Reactor 400/220 kV, 500 MVA ICT - 2 nos. 400 kV ICT bays - 2 nos. 220 kV ICT bays - 2 nos. 400 kV line bays - 4 nos. (2 each for Chhittorgarh & Mandsaur lines) 220 kV line bays - (2 nos. of bays corresponding to 500 MW Connectivity / LTA granted to M/s RUMSL) 220kV Bus coupler bay- 1 no.# 220kV Transfer Bus Coupler (TBC) bay - 1 no.# 125 MVAR, 420 kV reactor-1 no. 420 kV reactor bay - 1 no. Future provisions: Space for 400/220 kV ICTs along with bays: 2 nos. 400 kV line bays: 6 nos. 220 kV line bays: 5 nos. 420kV bus reactor along with bays:1						1789.45				00.00 HRS, 24.04.2024	248/AT/2022	09.12.2022		
		400		Neemuch PS - Chhittorgarh (PG) s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage)		Neemuch PS - Chhittorgarh (PG) s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage)	AL59 Moose	Quadruple	232.4	2872.16					248/AT/2022	09.12.2022		
		400		2 nos. of 400 kV line bays at Chhittorgarh (PG) 400 kV s/s for Neemuch PS - Chhittorgarh (PG) s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage)							262.49					248/AT/2022	09.12.2022	
		400		Neemuch PS- Mandsaur s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage)		Neemuch PS- Mandsaur s/s 400 kV D/C line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage)	AL59 Moose	Quadruple	236.418	2651.21						248/AT/2022	09.12.2022	
		400		2 no. of 400 kV line bays at Mandsaur 400 kV s/s for Neemuch PS- Mandsaur s/s 400 kV D/c line (conductor with minimum capacity of 2100 MVA/Ckt at nominal voltage)							262.49					248/AT/2022	09.12.2022	
										383857.68844								