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 August, 2024

No: TC/07/2024 **Date: 25.07.2024**

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 **60th time block (14:45 Hrs to 15:00 Hrs) on 01st June, 2024** as a peak block for the billing period of June'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 17.07.2024 with last date of submission of comments as 19.07.2024.
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 15.07.2024 for review and comments by DICs/ States in line with the notified procedures latest by 18.07.2024.
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:

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

Where, "SDRG" is the drawl schedule (in MW) through ISTS under GNA from the sources eligible for waiver under Regulation 13 of these regulations in nth block;
"SDTG" is the total drawl schedule (in MW) under GNA through ISTS from all sources in nth block; "n" is the nth time block
"T" is number of time blocks in a month = 96 X number of days in a month

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

Waiver (%) = 100 X (sum of SDRTG for all time blocks in the month) / (total number of time blocks in the month X 0.3 X T-GNARE)

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

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

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

11. Accordingly, the transmission charges are hereby notified for the billing month of August'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 August'24 shall be used by RPCs for preparation of Regional Transmission Account (RTA) for the billing month of August'24 considering details of GNA enclosed along with this notification.

d) The notified waiver % of Drawee DICs for the billing month of August'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.**

सुभेन्दु मुखर्जी

(सुभेन्दु मुखर्जी)
उप-महाप्रबंधक / रा. भा. प्रे. के.

Annexure-I

Input Data furnished by DICs/ ISTS Licensees/ CTU

1. As per Regulation 24(1) of Sharing Regulations 2020, some of the ISTS Licensees have submitted YTC data by 30.06.2024. Rajgarh Transmission Limited and Koppal-Narendra Transmission Limited have submitted its YTC on 01.07.2024. IndiGrid and Torrent Power Grid Ltd. have submitted its YTC on 09.07.2024. Further, IndiGrid submitted YTC of NER-II Transmission Limited on 16.07.2024. Damodar Valley Corporation has submitted its YTC on 23.07.2024. 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 June'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
19	Jindal Power Limited

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

Sl. No.	Name of ISTS Licensee
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	Transmission Corporation Of Andhra Pradesh (APTRANSCO)
66	Power Transmission Corporation Of Uttarakhand Ltd.
67	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 07.07.2024. NLDC had provided the detailed list of ISTS assets of all licensees for segregation into various components as per stipulated formats on 01.07.2024. 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 17.07.2024.

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 07.07.2024 is as mentioned below:

S.NO.	WR	SR	NR	NER	ER
1	Chattisgarh	Andhra Pradesh	Uttar Pradesh	Assam	
2	Gujarat	Telangana	Haryana	Manipur	
3	MP	Karnataka	Himachal Pradesh	Meghalaya	
4	Maharashtra	Kerala	Delhi	Nagaland	
5	Goa	Tamil Nadu	Rajasthan	Tripura	
6	D&D and DNH	Galiveedu (Karnal P1, Hisar P3 & Bhiwadi P6)	Punjab		
7	AMNSIL-Hazira	PVG ADYAH			
8	ACBIL	PVG Azure Earth			
9	Spectrum Power	Ayana NP Kunta			
10	Maruti Coal Power	ANP AZURE			
11	BALCO	PVG AMPLUS Tumkur and PVG AMPLUS Pavagada			
12	CGPL	Fortum Finnsurya Energy Private Ltd. (Pavagada Solar Park)			
13	DB Power Ltd.	Yarrow Infra Structure Private Ltd. (Pavagada Solar Park)			
14	DGEN	NTPC Ettayapuram			
15	Dhariwal				
16	GMR Warora (EMCO)				
17	Raipur Energen				

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

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

Annexure-II

Methodology of the computations and assumptions followed in the basic network

a) Modeling of the Basic Network

A. The All India network was modeled with the help of network data and node wise generation and demand data furnished by DICs. Wherever network data has not been provided by DICs, network data already available at RLDCs/NLDC has been considered. Wherever technical parameters were not furnished, standard parameters as per CEA Manual on Transmission Planning Criteria have been used.

B. Certain Transmission Lines included in the basic network were partly owned by ISTS Licensee and partly by STUs. There were cases where the existing lines originally owned by one utility have been made LILO by other utility. In cases where the line originally owned by ISTS Licensee has been made LILO by STU, the Monthly Transmission Charge for the entire line has been considered (including the section owned by STU). In cases where the line originally owned by STU has been made LILO by ISTS Licensee, the Monthly Transmission Charge for the entire line has not been considered.

C. All India basic network up to 66/ 33 kV level and at some nodes even till 0.4 kV level has been prepared. As per the Sharing Regulations 2020, basic network means power system at voltage levels of 110 kV and above, containing all power system elements including generating station and transmission systems.

D. In line with Sharing Regulations 2020, all India basic network has been truncated to 110 kV level. Power flow into lower voltage system has been considered as load at the substation at truncated point. Power flow from a lower voltage system has been considered as generation at the substation at truncated point.

E. To account for the transmission losses of the truncated lower voltage network and to ensure state drawal as per SEM data corresponding to peak block, minor adjustments in states generation has been done.

F. Interstate generating Stations (ISGS) connected at 220kV and below voltage level are created as separate control areas.

G. 400 kV Singrauli considered as slack bus.

b) Load Generation balance for the basic network

A. Node wise generation and demand data for the peak block as submitted by DICs has been considered to prepare Load Generation balance.

B. Wherever aggregate generation and demand data submitted by DICs, the generation and demand data has been distributed across the nodes of the DICs as per the node wise distribution of the TTC/ATC base case applicable for June'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 June'24. For the ISTS licensees who have not submitted YTC data for June'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 June'24 as furnished by ISTS licensees have been considered in the computations.

C. Yearly Transmission Charges (YTC) based on approved/ adopted tariff by CERC has only been considered in line with Sharing Regulations 2020. RPC certified non-ISTS lines as ISTS lines have not been considered in the computations.

D. The assets of State Utilities whose approved Tariff by the Commission is not available as on 31.03.2019 are not being considered in the computations since 2019-20 Q3 in line with Terms & Conditions of Tariff Regulations. The same is continued in this computation.

E. As per minutes of Validation Committee meeting held for 2020-21 Q2 PoC computations, for the assets of Essar Power transmission limited, combined tariff of LILO of 400kV Vindhyachal-Korba at Mahan, GIS S/s at Hazira and 400kV Hazira-Gandhar line) was being excluded from PoC computations in the absence of exclusive tariff of LILO of 400kV Vindhyachal-Korba at Mahan since 2020-21 Q2. As per CERC Order dated 04.06.2021 in I.A. No. 32/2021 in Petition No. 92/MP/2021, exclusive tariff of 400kV Hazira-Gandhar Line and GIS S/s at Hazira has been approved and same has been considered for billing period June'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:

   a. The indicative cost level of 765 kV lines (Quad Bersimis) charged at 400 kV has been considered to be same as cost of one circuit of 400 kV Quad Moose D/C.
   b. The indicative cost level of 400 kV Quad Bersimis D/C has been considered to be same as 400 kV Quad Moose D/C.
   c. The indicative cost level of 765 kV Hexa zebra has been considered to be same as 765 kV Quad Bersimis.
   d. The indicative cost levels of 400 kV ACKC, ACAR, AAAC, Moose, Zebra and Lapwing have been considered to be same as 400 kV Twin Moose depending on the no. of circuits.
   e. 400 kV lines (Twin Moose) charged at 220 kV are charged as per the rate of 220 kV D/C lines.

K. Circuit Kms of RE lines considered as National component has been considered as zero.

L. Circuit Kms of the assets covered under Regulation (13) clauses (3), (6), (9), have been pro-rata adjusted with respect to YTC considered for bilateral payment wherever YTC are to be partly included in the computations.

d) Computation of Usage part of AC system charges

A. The usage part of AC system charges has been computed by running AC load flow and determining the utilization of the lines with respect to SIL of the lines. For SIL of lines at various voltage levels, annexure-II to Regulations has been followed.

B. AC Usage Base Charges (AC-UBC) thus determined has been used for apportionment through hybrid method and computed total aggregated nodal charges in ₹ for each drawee DIC.

Annexure-III

Transmission Charges for Designated ISTS Customers (DICs) for the billing month of August,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	309,489,485	712,268,961	125,356,682	116,111,784	213,519,097	58,558,498		1,535,304,507
2	UP	NR	9,953	1,145,719,408	1,473,848,850	259,391,904	240,262,077	441,820,284	137,298,310		3,698,340,833
3	Punjab	NR	5,497	470,274,534	814,000,515	143,261,056	132,695,734	244,015,483	108,131,171		1,912,378,493
4	Haryana	NR	5,143	515,711,966	761,579,889	134,035,222	124,150,292	228,301,188	206,592,281		1,970,370,838
5	Chandigarh	NR	342	13,928,560	50,643,656	8,913,095	8,255,765	15,181,607	3,157,286		100,079,969
6	Rajasthan	NR	5,689	406,848,948	842,432,041	148,264,899	137,330,549	252,538,491	90,857,480		1,878,272,408
7	HP	NR	1,130	28,012,504	167,331,378	29,449,699	27,277,820	50,161,451	35,634,628		337,867,480
8	J&K	NR	1,977	62,135,967	292,755,870	51,523,942	47,724,116	87,760,344	54,161,638		596,061,877
9	Uttarakhand	NR	1,402	127,147,538	207,609,373	36,538,476	33,843,809	62,235,712	32,025,251		499,400,159
10	Railways-NR-ISTS-UP	NR	130	3,474,980	19,250,512	3,388,018	3,138,156	5,770,786			35,022,454
11	PG-HVDC-NR	NR	8	609,132	1,184,647	208,493	193,117	355,125			2,550,515
12	Northern Railways	NR							2,758,931		2,758,931
13	North Central Railways	NR							2,015,110		2,015,110
14	RAPP 7&8, NPCIL	NR								31,547,014	31,547,014
15	Adani Renewable Energy Park Rajasthan Limited	NR								19,091	19,091
16	ACME Solar Holdings Pvt. Ltd	NR								2,558,329	2,558,329
17	THDC India Ltd.	NR								41,779,973	41,779,973
18	ReNew Surya Vihan Pvt. Ltd.	NR								1,937,025	1,937,025
19	Renew Surya Roshni Pvt. Ltd.	NR								7,633,521	7,633,521
20	Adani Renewable Energy Holding Seventeen Pvt. Ltd.	NR								11,622,148	11,622,148
21	ReNew Surya Aayan Pvt. Ltd.	NR								5,811,074	5,811,074

S.No.	Zone	Region	GNA (in MW)	Usage based AC system charges (₹)	Balance AC system charges (₹)	National Component (₹)		Regional Component (₹)	Transformers component (₹)	Bilateral Charges (₹)	Total Transmission charges payable in ₹ (without waiver)
				AC-UBC	AC-BC	NC-RE	NC-HVDC	RC	TC		
22	Gujarat	WR	12,598	473,235,379	1,865,498,552	328,320,791	304,107,545	133,124,439	78,957,090	1,291,459	3,184,535,255
23	Madhya Pradesh	WR	10,587	542,816,371	1,567,755,812	275,919,179	255,570,486	111,877,124	149,065,047		2,903,004,019
24	Maharashtra	WR	9,410	1,073,584,637	1,393,408,363	245,234,678	227,148,928	99,435,460	82,039,365		3,120,851,431
25	Chhattisgarh	WR	3,276	76,619,152	485,112,914	85,378,065	79,081,540	34,618,298	22,075,983		782,885,951
26	Goa	WR	673	50,400,531	99,658,422	17,539,511	16,245,994	7,111,757	11,560,905		202,517,120
27	DNHDDPDCL	WR	1,206	101,775,952	178,585,523	31,430,386	29,112,435	12,744,099	37,008,261		390,656,656
28	ArcelorMittal Nippon Steel India Ltd (formerly Essar Steel)	WR	563	18,403,494	83,369,527	14,672,726	13,590,631	5,949,360	8,521,798		144,507,535
29	PG-HVDC-WR	WR	5	76,910	740,404	130,308	120,698	52,836			1,121,157
30	BARC	WR	5	235,471	740,404	130,308	120,698	52,836			1,279,719
31	Adani Power Limited	WR								253,489,742	253,489,742
32	Mahan Energen Limited (formerly Essar Power M.P. Ltd)	WR								48,946,521	48,946,521
33	Netra Wind Private Limited	WR								267,487	267,487
34	Andhra Pradesh	SR	4,199	345,423,795	621,791,552	109,432,995	101,362,450	200,817,945	42,832,077		1,421,660,815
35	Telangana	SR	5,801	260,331,155	859,017,098	151,183,807	140,034,191	277,433,889	36,586,570		1,724,586,711
36	Tamil Nadu	SR	8,765	676,793,105	1,297,928,782	228,430,627	211,584,156	419,187,733	91,475,015		2,925,399,418
37	Kerala	SR	2,679	163,226,112	396,708,638	69,819,241	64,670,160	128,123,666	68,277,551		890,825,368
38	Karnataka	SR	5,413	525,690,935	801,628,359	141,083,603	130,678,865	258,899,239	117,665,652		1,975,646,653
39	Pondicherry	SR	540	13,567,405	79,963,667	14,073,307	13,035,419	25,825,599	12,517,559		158,982,956
40	PG-HVDC-SR	SR	6	581,303	910,697	160,279	148,459	294,125			2,094,863
41	BHAVINI	SR								16,044,986	16,044,986
42	Betam	SR								467,938	467,938
43	JSW Renew Energy Ltd.	SR								18,386,301	18,386,301

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		
44	ReNew Solar Power Pvt Ltd.	SR								549,794	549,794
45	Renew Surya Ojas Pvt. Ltd.	SR								1,615,251	1,615,251
46	West Bengal	ER	3,540	284,232,766	524,206,262	92,258,348	85,454,411	75,398,312	55,519,502		1,117,069,602
47	Odisha	ER	2,157	228,471,628	319,410,426	56,215,044	52,069,255	45,941,853	66,012,887		768,121,093
48	Bihar	ER	4,847	292,832,982	717,747,953	126,320,964	117,004,952	103,236,050	169,910,912		1,527,053,814
49	Jharkhand	ER	1,580	44,507,027	233,967,767	41,177,455	38,140,669	33,652,354	56,540,085		447,985,357
50	Sikkim	ER	111	1,189,263	16,436,976	2,892,847	2,679,503	2,364,184	2,628,486		28,191,259
51	DVC	ER	956	37,632,305	141,565,307	24,914,966	23,077,519	20,361,804	9,633,951		257,185,852
52	Bangladesh	ER	982	22,777,437	145,415,410	25,592,570	23,705,150	20,915,577			238,406,144
53	Railways-ER-ISTS-Bihar	ER	20	135,979	2,961,617	521,234	482,793	425,979			4,527,602
54	PG-HVDC-ER	ER	2	85,229	296,162	52,123	48,279	42,598			524,391
55	NTPC, North Karanpura STPP, Jharkhand	ER								4,210,982	4,210,982
56	Arunachal Pradesh	NER	208	2,796,130	30,800,820	5,420,829	5,021,050	6,677,021	11,098,558		61,814,408
57	Assam	NER	1,767	75,266,674	261,658,889	46,050,989	42,654,786	56,722,577	21,769,788		504,123,703
58	Manipur	NER	177	2,790,655	26,210,313	4,612,917	4,272,721	5,681,888	3,173,317		46,741,811
59	Meghalaya	NER	238	4,651,899	35,243,246	6,202,680	5,745,240	7,640,053	390,200		59,873,318
60	Mizoram	NER	150	11,829,832	22,212,130	3,909,252	3,620,950	4,815,159	1,021,285		47,408,607
61	Nagaland	NER	139	5,774,038	20,583,240	3,622,574	3,355,413	4,462,048	20,145,378		57,942,691
62	Tripura	NER	311	5,932,772	46,053,149	8,105,183	7,507,436	9,983,430	20,132,083		97,714,053
63	PG-HVDC-NER	NER	1	68,167	177,697	31,274	28,968	38,521			344,627
	TOTAL		**118,994**	**8,427,089,513**	**17,620,671,772**	**3,101,172,548**	**2,872,464,970**	**3,715,567,383**	**1,927,749,889**	**448,178,636**	**38,112,894,710**

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	245.7	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	01.10.2023	54.30	162,900	
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	
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	

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
11	NTPC Renewable Energy Ltd.	WR	Bhuj-II PS	300	0	Yet to be commissioned	07.06.2024	300	720,000	As Deemed GNA for 300 MW made effective w.e.f. 07.06.2024. Charges computed for 24 days.
12	ReNew Green Energy Solutions Pvt. Ltd.	WR	Solapur PG	100	0	Yet to be commissioned	30.06.2024	100	10,000	As Deemed GNA for 100 MW made effective w.e.f. 30.06.2024. Charges computed for 1 day.
13	ReNew Green Energy Soluti`ons Pvt. Ltd	WR	Solapur PG	76	0	Yet to be commissioned	30.06.2024	76	7,600	As Deemed GNA for 76 MW made effective w.e.f. 30.06.2024. Charges computed for 1 day.
14	Renew Green Energy Solutions Pvt. Ltd	WR	Solapur PG	48	0	Yet to be commissioned	30.06.2024	48	4,800	As Deemed GNA for 48 MW made effective w.e.f. 30.06.2024. Charges computed for 1 day.
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	66,000	As Deemed GNA for 1320 MW made effective w.e.f. 30.06.2024. Charges computed for 1 day corresponding to delayed 660 MW capacity.

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	3,501	0.005	111,877,124	10,587	10,567	185,001

Annexure-IV

Details of Waiver % of DICs for August 2024 billing month

Region	State	DIC	Waiver(%)
ER	Bihar	Bihar DISCOMS	11.315
ER	Bihar	Railways-Bihar	0.000
ER	DVC	DVC DISCOM & JBVNL	1.415
ER	DVC	Railways-DVC	0.000
ER	DVC	Tata steel	0.000
ER	West Bengal	WBSEDCL	2.804
ER	West Bengal	CESC	0.018
ER	West Bengal	IPCL	52.889
ER	Jharkhand	JBVNL	20.635
ER	Jharkhand	SE Railways-Jharkhand	0.000
ER	Odisha	Odisha	14.993
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	3.286
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	10.078
NR	Punjab	Northern Railways	0.000
NR	Haryana	Haryana	12.531
NR	Haryana	Railways_BRBCL_HARYANA	0.000
NR	Rajasthan	Rajasthan DISCOMs	6.626
NR	Rajasthan	Railways	0.000
NR	Delhi	Delhi DISCOMs	13.569
NR	Delhi	Delhi Metro Rail Corporation Metro	100.000
NR	Uttar Pradesh	UPPCL	10.361
NR	Uttar Pradesh	NPCL	1.554
NR	Uttar Pradesh	Railway	12.128
NR	Uttrakhand	Uttrakhand	7.003
NR	Himachal pradesh	Himachal pradesh	0.571
NR	Jammu & Kashmir	Jammu & Kashmir	0.390
NR	Chandigarh	Chandigarh	5.659
NR		Railways-NR-ISTS-UP	4.675
NR		PG-HVDC-NR	0.000
SR	Andhra Pradesh	Andhra Pradesh	9.817
SR	Karnataka	Karnataka_DISCOMS	10.806
SR	Karnataka	Railways_Karnataka	7.263
SR	Kerala	KSEB	6.665
SR	Puducherry	Puducherry	24.159
SR	Tamil Nadu	TANGEDCO	1.966
SR	Tamil Nadu	SAIL Steel Plant Salem	0.000
SR	Telangana	TSSPDCL	13.293

SR		PG-HVDC_SR	0.000
WR	Chhattisgarh	CSPDCL	11.509
WR	DD&DNH	DD&DNH	0.000
WR	Goa	Goa	13.500
WR	Gujarat	GUVNL	1.344
WR	Gujarat	Indian Railways	4.133
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	10.091
WR	Madhya Pradesh	WCR	0.083
WR	Maharashtra	MSEDCL	9.327
WR	Maharashtra	Adani Electricity Mumbai Limited	63.034
WR	Maharashtra	Tata Power Company Ltd, Maharashtra	34.921
WR	Maharashtra	Central Railways	4.347
WR		PG-HVDC_WR	0.000
WR		Arcelormittal Nippon Steel India Ltd. (Essar Steel)	0.000
WR		BARC	0.000

Annexure-V

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

S.No.	State	Region	T-GNA rate (Rs./MW/block)
1	Delhi	NR	121.91
2	UP	NR	141.42
3	Punjab	NR	132.88
4	Haryana	NR	146.33
5	Chandigarh	NR	111.77
6	Rajasthan	NR	126.10
7	HP	NR	114.20
8	J&K	NR	115.16
9	Uttarakhand	NR	136.05
10	Gujarat	WR	96.58
11	Madhya Pradesh	WR	104.73
12	Maharashtra	WR	126.66
13	Chhattisgarh	WR	91.28
14	Goa	WR	115.07
15	Daman and Diu and Dadra and Nagar Haveli	WR	123.72
16	Andhra Pradesh	SR	129.32
17	Telangana	SR	113.55
18	Tamil Nadu	SR	127.48
19	Kerala	SR	127.00
20	Karnataka	SR	139.39
21	Pondicherry	SR	112.45
22	West Bengal	ER	120.53
23	Odisha	ER	136.01
24	Bihar	ER	120.19
25	Jharkhand	ER	108.29
26	Sikkim	ER	97.00
27	DVC	ER	102.75
28	Bangladesh	ER	92.73
29	Arunachal Pradesh	NER	113.51
30	Assam	NER	108.97
31	Manipur	NER	100.86
32	Meghalaya	NER	96.09
33	Mizoram	NER	120.72
34	Nagaland	NER	159.22
35	Tripura	NER	120.00

Annexure-VI

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

S.No.	Drawee DIC	Region	GNA/GNA-RE (in MW)
1	Delhi	NR	4810.0
2	UP	NR	9953.0
3	Punjab	NR	5497.0
4	Haryana	NR	5143.0
5	Chandigarh	NR	342.0
6	Rajasthan	NR	5689.0
7	HP	NR	1130.0
8	J&K	NR	1977.0
9	Uttarakhand	NR	1402.0
10	Railways-NR-ISTS-UP	NR	130.0
11	PG-HVDC-NR	NR	8.0
12	Gujarat	WR	12597.8
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
			118993.58

Annexure-VII

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

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for June'24 (₹ Cr)	Equivalent MTC to be considered for June'24 (₹ Cr)	Remarks
1	Powergrid Corporation Of India Ltd	35405.91	35405.91	2910.07	As per data furnished by ISTS Licensee for June'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	49.62	As per data furnished by ISTS Licensee for June'24
3	Chhattisgarh-WR Transmission Limited.	168.20	168.20	13.82	As per data furnished by ISTS Licensee for June'24
4	Raipur Rajnandgaon-WR Transmission Limited.	182.37	182.37	14.99	As per data furnished by ISTS Licensee for June'24
5	Sipat Transmission Limited.	84.89	84.89	6.98	As per data furnished by ISTS Licensee for June'24
6	Western Transmission Gujarat Limited	48.57	48.57	3.99	As per data furnished by ISTS Licensee for June'24
7	Western Transco Power Limited	89.04	89.04	7.32	As per data furnished by ISTS Licensee for June'24
8	Alipurduar Transmission Limited	149.84	149.84	12.32	As per data furnished by ISTS Licensee for June'24
9	Fatehgarh-Bhadla Transmission Ltd.	65.04	65.04	5.35	As per data furnished by ISTS Licensee for June'24
10	North Karanpura Transco Limited	39.01	39.01	3.21	As per data furnished by ISTS Licensee for June'24
11	Bikaner-Khetri Transmission Limited	128.95	128.95	10.60	As per data furnished by ISTS Licensee for June'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for June'24 (₹ Cr)	Equivalent MTC to be considered for June'24 (₹ Cr)	Remarks
12	Jam Khambaliya Transco Limited	44.08	44.08	3.62	As per data furnished by ISTS Licensee for June'24
13	Lakadia-Banaskantha Transmission Limited	100.28	100.28	8.24	As per data furnished by ISTS Licensee for June'24
14	WRSS XXI (A) Transco Limited	122.16	122.16	10.04	As per data furnished by ISTS Licensee for June'24
15	Karur Transmission Limited	22.37	22.37	1.84	As per data furnished by ISTS Licensee for June'24.
16	Khavda-Bhuj Transmission Limited	127.19	127.19	10.45	As per data furnished by ISTS Licensee for June'24.
17	Aravali Power Company Private Limited	6.76	6.76	0.56	Data not furnished for June'24. Considered the same as in the earlier billing period.
18	Essar Power Transmission Company Limited	69.07	69.07	5.68	As per data furnished by ISTS Licensee for June'24.
19	Essar Transco Limited	269.64	269.64	22.16	As per data furnished by ISTS Licensee for June'24.
20	Jindal Power Limited	31.06	31.06	2.55	As per data furnished by ISTS Licensee for June'24.
21	Kudgi Transmission Limited	196.29	196.29	16.13	Data not furnished for June'24. Considered the same as in the earlier billing period.
22	Parbati Koldam Transmission Company Limited	171.37	171.37	14.09	As per data furnished by ISTS Licensee for June'24.
23	Bhopal Dhule Transmission Company Ltd.	184.90	184.90	15.20	As per data furnished by ISTS Licensee for June'24.
24	East North Interconnection Company Limited	145.92	145.92	11.99	As per data furnished by ISTS Licensee for June'24.
25	Gurgaon Palwal Transmission Limited	134.68	134.68	11.07	As per data furnished by ISTS Licensee for June'24.

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for June'24 (₹ Cr)	Equivalent MTC to be considered for June'24 (₹ Cr)	Remarks
26	Jabalpur Transmission Company Limited	146.92	146.92	12.08	As per data furnished by ISTS Licensee for June'24.
27	Maheshwaram Transmission Limited	56.09	56.09	4.61	As per data furnished by ISTS Licensee for June'24.
28	Khargone Transmission Company Ltd.	178.41	178.41	14.66	As per data furnished by ISTS Licensee for June'24.
29	Goa Tamnar Transmission Projects Limited	42.70	42.70	3.51	As per data furnished by ISTS Licensee for June'24.
30	Mumbai Urja Marg Limited	70.57	70.57	5.80	As per data furnished by ISTS Licensee for June'24.
31	Lakadia Vadodara Transmission Company Limited	230.90	230.90	18.98	As per data furnished by ISTS Licensee for June'24.
32	NRSS-XXIX Transmission Limited	502.72	502.72	41.32	As per data furnished by ISTS Licensee for June'24.
33	Odisha Generation Phase-II Transmission Limited	148.47	148.47	12.20	As per data furnished by ISTS Licensee for June'24.
34	Patran Transmission Company Limited	30.80	30.80	2.53	As per data furnished by ISTS Licensee for June'24.
35	Purulia & Kharagpur Transmission Company Limited	72.41	72.41	5.95	As per data furnished by ISTS Licensee for June'24.
36	Rapp Transmission Company Limited	44.01	44.01	3.62	As per data furnished by ISTS Licensee for June'24.
37	NER-II Transmission Limited	481.87	481.87	39.61	As per data furnished by ISTS Licensee for June'24
38	Teestavalley Power Transmission Limited	248.37	248.37	20.41	Data not furnished for June'24. Considered the same as in the earlier billing period.
39	Torrent Power Grid Limited	26.03	26.03	2.14	As per data furnished by ISTS Licensee for June'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for June'24 (₹ Cr)	Equivalent MTC to be considered for June'24 (₹ Cr)	Remarks
40	Darbhanga-Motihari Transmission Company Limited	134.73	134.73	11.07	As per data furnished by ISTS Licensee for June'24
41	NRSS XXXI (B) Transmission Limited	98.09	98.09	8.06	As per data furnished by ISTS Licensee for June'24
42	A D Hydro Power Limited	43.19	43.19	3.55	Data not furnished for June'24. Considered the same as in the earlier billing period.
43	Powergrid Himachal Transmission Ltd (Jaypee Powergrid Limited)	126.73	126.73	10.42	Data not furnished for June'24. Considered the same as in the earlier billing period.
44	Kohima Mariani Transmission Limited	277.20	277.20	22.78	As per data furnished by ISTS Licensee for June'24
45	Raichur Sholapur Transmission Company Private Limited	25.70	25.70	2.11	As per data furnished by ISTS Licensee for June'24.
46	Koppal-Narendra Transmission Limited	77.19	77.19	6.34	As per data furnished by ISTS Licensee for June'24
47	Damodar Valley Corporation	109.09	109.09	8.97	As per data furnished by ISTS Licensee for June'24
48	Powerlinks Transmission Limited	135.93	135.93	11.17	Data not furnished for June'24. Considered the same as in the earlier billing period.
49	NRSS XXXVI Transmission Limited	22.10	22.10	1.82	As per data furnished by ISTS Licensee for June'24.
50	Warora-Kurnool Transmission Limited	409.60	409.60	33.67	As per data furnished by ISTS Licensee for June'24.
51	Rajgarh Transmission Limited	50.51	50.51	4.15	As per data furnished by ISTS Licensee for June'24.
52	Powergrid Vizag Transmission Limited	212.79	212.79	17.49	As per data furnished by ISTS Licensee for June'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for June'24 (₹ Cr)	Equivalent MTC to be considered for June'24 (₹ Cr)	Remarks
53	Powergrid NM Transmission Limited	160.11	160.11	13.16	As per data furnished by ISTS Licensee for June'24
54	Powergrid Unchahar Transmission Limited	18.76	18.76	1.54	As per data furnished by ISTS Licensee for June'24
55	Powergrid Parli Transmission Limited	326.22	326.22	26.81	As per data furnished by ISTS Licensee for June'24
56	Powergrid Kala Amb Transmission Limited	64.86	64.86	5.33	As per data furnished by ISTS Licensee for June'24.
57	Powergrid Southern Interconnector Transmission System Limited	462.10	462.10	37.98	As per data furnished by ISTS Licensee for June'24
58	Powergrid Jabalpur Transmission Limited	256.43	256.43	21.08	As per data furnished by ISTS Licensee for June'24
59	Powergrid Warora Transmission Limited	364.20	364.20	29.93	As per data furnished by ISTS Licensee for June'24
60	Powergrid Medinipur Jeerat Transmission Limited	579.70	579.70	47.65	As per data furnished by ISTS Licensee for June'24
61	Powergrid Mithilanchal Transmission Limited	170.00	170.00	13.97	As per data furnished by ISTS Licensee for June'24
62	Powergrid Ajmer Phagi Transmission Limited	74.79	74.79	6.15	As per data furnished by ISTS Licensee for June'24
63	Powergrid Varanasi Transmissoin System Limited	116.97	116.97	9.61	As per data furnished by ISTS Licensee for June'24
64	Powergrid Fatehgarh Transmission Limited	87.69	87.69	7.21	As per data furnished by ISTS Licensee for June'24
65	Powergrid Khetri Transmission System Ltd.	149.07	149.07	12.25	As per data furnished by ISTS Licensee for June'24
66	Powergrid Bhuj Transmission Limited	151.70	151.70	12.47	As per data furnished by ISTS Licensee for June'24

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for June'24 (₹ Cr)	Equivalent MTC to be considered for June'24 (₹ Cr)	Remarks
67	Powergrid Bikaner Transmission System Limited	167.88	167.88	13.80	As per data furnished by ISTS Licensee for June'24
68	Powergrid Ramgarh Transmission Limited	46.41	46.41	3.81	As per data furnished by ISTS Licensee for June'24
69	Powergrid Neemuch Transmission System Limited	78.38	78.38	6.44	As per data furnished by ISTS Licensee for June'24
70	North East Transmission Company Limited	252.89	252.89	20.79	As per data furnished by ISTS Licensee for June'24
71	Transmission Corporation Of Andhra Pradesh (APTRANSCO)	411.29	139.14	11.44	As per data furnished by ISTS Licensee for June'24
72	Madhya Pradesh Power Transmision Co. Ltd.	12.54	12.54	1.03	Data not furnished for June'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 June'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 June'24. Data as furnished by ISTS Licensee for Dec'20 has been considered.
75	Power Transmission Corporation Of Uttarakhand Ltd	71.66	71.66	5.89	As per data furnished by ISTS Licensee for June'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	0.51	Data not furnished for June'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 June'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 June'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 June'24 (₹ Cr)	Equivalent MTC to be considered for June'24 (₹ Cr)	Remarks
79	Himachal Pradesh Power Transmission Corporation Ltd	2.61	2.61	0.21	Data not furnished for June'24. Considered the same as in the earlier billing period.
80	Odisha Power Transmission Corporation Limited	9.80	9.67	0.79	Data not furnished by ISTS Licensee for June'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 June'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 June'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 June'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 June'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 June'24. YTC has been considered as zero in line with CERC terms & conditions for Tariff Regulations 2019 as tariff as on 31.03.2019 is not available

S.No.	Name of the Transmission Licensee	Total YTC claimed by Licensees (₹ Cr)	Total YTC allowed for June'24 (₹ Cr)	Equivalent MTC to be considered for June'24 (₹ Cr)	Remarks
86	Haryana Vidyut Prasaran Nigam Limited	0.35	0.35	0.03	As per data furnished by ISTS Licensee for June'24
87	Assam Electricity Grid Corporation Limited	10.78	0.00	0.00	Data not furnished by ISTS Licensee for June'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 June'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 June'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 June'24 from the claimed assets of ISTS licensees (₹ Crores)	**3811.29**

Annexure-VIII

Entity-wise details of Bilateral billing for August,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	31,547,014		As per Regulation 13(3) of Sharing Regulations 2020
2	2X500MVA 400/230kV transformers along with associated bays andequipmentat new 400/230kV (GIS) Tirunelveli Pooling Sub-station	Powergrid	Betam	SR	467,938		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,Asset3. 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	16,044,986		As per Regulation 13(3) of Sharing Regulations 2020
4	HVDC Mundra-Mahendergarh	Powergrid	Adani Power Limited	WR	253,489,742		--
5	400 kV Banaskantha (Radhanesda) Pooling Station-Banaskantha (PG) D/C line alongwith 2 nos. 400 Kv line bays at Banaskanta (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	1,291,459	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	48,946,521		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	10,564		As per Regulation 13(3) of Sharing Regulations 2020
9	Establishment of 400 kV Pooling Station at Fatehgarh	Fatehgarh Badhla	Adani Renewable Energy Park Rajasthan Limited	NR	8,528		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	2,558,329		As per Regulation 13(3) of Sharing Regulations 2020
11	2 Nos. 400 kV line bays at Fatehgarh Pooling Station			NR			As per Regulation 13(3) of Sharing Regulations 2020
12	1x25 MVAR Bus Reactor at 400 kV Fatehgarh Pooling Station along with associated bay			NR			As per Regulation 13(3) of Sharing Regulations 2020

Sl.No.	Name of the Asset	Transmission Licensee	Name of the beneficiary	Region	MTC in ₹	State Control Area in which the Bilateral charges are included	Remarks
13	Space for future 220kV (12 Nos) Line Bays	Transmission Limited		NR			As per Regulation 13(3) of Sharing Regulations 2020
14	Space for future 400kV (8 Nos) Line Bays alongwith line reactors at at Fatehgarh Pooling Station			NR			As per Regulation 13(3) of Sharing Regulations 2020
15	Space for future 220/400kV transformers (5 Nos) alongwith associated transformer bays at each level.			NR			As per Regulation 13(3) of Sharing Regulations 2020
16	Space for future 400kV bus reactors (2 Nos) alongwith associated bays.			NR			As per Regulation 13(3) of Sharing Regulations 2020
17	765/400 kV 1500 MVA ICT along with associated bays at Meerut Sub-station under Transmission System associated with Tehri Pump Storage Plant (PSP)	Powergrid	THDC India Ltd.	NR	41,779,973		As per Regulation 13(3) of Sharing Regulations 2020
18	765/400 kV 800 MVA ICTI along with associated bays at Koteshwar (Tehri Pooling Station) under Transmission System associated with Tehri Pump Storage Plant (PSP)			NR			As per Regulation 13(3) of Sharing Regulations 2020
19	400 kV S/C Tehri (Generation)-Tehri (Koteshwar) (Quad) line along with associated bays at both ends under Transmission system associated with Tehri Pump Storage Plant (PSP)			NR			As per Regulation 13(3) of Sharing Regulations 2020

Sl.No.	Name of the Asset	Transmission Licensee	Name of the beneficiary	Region	MTC in ₹	State Control Area in which the Bilateral charges are included	Remarks
20	400 kV D/C North Karanpura-Chandwa (Jharkhand) Pooling Station line with quad moose conductor	North karanpura Transco Ltd.	NTPC, North Karanpura STPP, Jharkhand	ER	4,210,982		As per Regulation 13(3) of Sharing Regulations 2020
21	Establishment of 2x500 MVA, 400/230 kV Karur Pooling Station (at a location in between Karur Wind zone and Tiruppur wind zone)	Karur Transmission Limited	JSW Renew Energy Ltd.	SR	18,386,301		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 MVAr, 400 kV Bus reactors at Karur PS						
24	400 KV D/C Quad Moose Koppal PS – Narendra (New) Transmission Line		ReNew Solar Power Pvt Ltd.		549,794		
25	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**		Renew Surya Ojas Pvt. Ltd.		1,615,251		

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
	•ICT bay: 3 nos •Line bay: 5 nos. •Bus coupler bay: 1 no. •Transfer Bus coupler bay: 1 no.	Koppal-Narendra Transmission Limited		SR			As per Regulation 13(3) of Sharing Regulations 2020
26	2x125 MVAr, 420 kV bus reactor at Koppal Pooling station						
27	- 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	Establishmnet 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		ReNew Surya Vihan Pvt. Ltd.		1,937,025		As per Regulation

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
29	Ramgarh-II PS(Fatehgarh-III) - Fatehgarh-II PS 400kV D/c line (Twin HTLS)	Powergrid Ramgarh Transmission Ltd.	Renew Surya Roshni Pvt. Ltd.	NR	7,633,521		As per Regulation 13(3) of Sharing Regulations 2020
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.		11,622,148		
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.		5,811,074		
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	267,487		As per Regulation 13(3) of Sharing Regulations 2020
			TOTAL		**448,178,636**		

Annexure-IX

Date of publication: 25.11.2023

Revised GNAsh and GNAd as per CERC(Connectivity and General Network Access to the inter-State Transmission System)(First Amendment) Regulations,2023												
State	Yearly Average of Daily Max ISTS drawal (X_1)(MW)	Yearly Max ISTS drawal(Y_1)(MW)	Z_1= 0.5*x+0.5*y (MW)	Yearly Average of Daily Max ISTS drawal (X_2)(MW)	Yearly Max ISTS drawal(Y_2)(MW)	Z_2= 0.5*x+0.5*y (MW)	Yearly Average of Daily Max ISTS drawal (X_3)(MW)	Yearly Max ISTS drawal(Y_3)(MW)	Z_3= 0.5*x+0.5*y (MW)	GNAsh* (MW)=Avg of Z1 Z2 & Z3	GNA (MW) As per Annexure-I of GNA Regulations ,2022	GNAd (MW) (=GNA-GNAsh)
	2018-19			2019-20			2020-21					
Northern Region												
Haryana	4660	7321	5991	5433	7778	6606	5499	9132	7316	**5143**	5418	275
Rajasthan	3874	5596	4735	4359	7759	6059	5080	7466	6273	**5689**	5755	66
Uttar Pradesh	7068	10304	8686	8136	12090	10113	8492	12582	10537	**9779**	10165	386
Southern Region												
Tamil Nadu	6707	9560	8134	7361	9984	8673	7501	11475	9488	**8765**	9177	412
Telangana	4160	6115	5137	4104	7854	5979	4380	8193	6286	**5801**	6140	339
Andhra Pradesh	2635	4578	3606	2741	5357	4049	3771	6110	4941	**4199**	4516	317
Western Region												
Chhattishgarh	1100	2219	1659	1491	2353	1922	1459	2714	2086	**1889**	2149	260
Gujarat	5346	8699	7023	4284	6260	5272	4675	8611	6643	**6312**	6434	122
Maharashtra	6481	10207	8344	6437	8790	7613	7409	10238	8824	**8260**	8496	236
Easten Region												
Bihar	4095	4782	4438	4320	5494	4907	4553	5840	5196	**4847**	5043	196
North Easten Region												
Arunachal Pradesh	118	145	132	99	132	115	84	128	106	**117**	134	17
Assam	1171	1468	1319	1186	1608	1397	1251	1690	1470	**1396**	1529	133
Manipur	135	196	166	147	201	174	166	218	192	**177**	204	27
Nagaland	112	145	128	117	140	128	113	140	126	**128**	134	6

Note:

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

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

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

Annexure-X

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 (ISTS)-Part-B in Northern Region	Chittorgarh-Ajmer 765 kV D/C line along with associated bays and 240 MVAR Switchable Line reactors at both end	RE-Line	Chittorgarh-Ajmer 765 kV D/C line	Zebra	6	422.34	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 (ISTS) Part-B	1 no. 400 kV, 125 MVAR Bus Reactor along with associated bay at Banaskantha SS	RE BR												
		765	Green Energy Corridors-Inter State Transmission Scheme (ISTS) Part-B	765kV Banaskantha - Chittorgarh TL with 2 nos. 330 MVAR, SLR at Bansknta. SS & 2 nos. 240 MVAR, SLR at Chittrgrh SS, 400 kV Bansknta - Sankhari TL, 2 nos. 1500 MVA, ICTs along with ass. bays and 1 no. 765 kV, 330 MVAR BR with ass. bay at Bansknta SS	RE Line	765kV Banaskantha - Chittorgarh TL	Hexa Zebra	6	715.652								
		400			RE Line	400 kV Banskantha - Sankhari TL	Twin Moose	2	43.41								
		765			RE SLR												
		765			RE ICT												
		765			RE BR												
2		400	Transmission System for Ultra Mega Solar Park in Anantpur District,Andhra Pradesh-Part A (Phase-I)	LILO of 400 kV Kadapa-Kolar S/C Line at NP Kunta alongwith associated line bays and 1 no of 500 MVA ICT along with its bays at NP Kunta 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 Vindhyachal-Jabalpur 400 kV 2nd D/C line (Ckt 3 & 4) alongwith 2 nos. ICTs, Bus reactor associated bays and 1 no. 220 kV line bays at 400/220 kV Rewa Pooling station	RE Line	LILO of Vindhyachal-Jabalpur 400 kV 2nd D/C line (Ckt 3 & 4) at 400/220 kV Rewa Pooling station	Moose	2	129.024	3785.45706	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 APL No. 605 OF 2023 & IA No. 1783 OF 2022 & IA No. 1782 OF 2022
5		220	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh - Part C (Phase-III)	2 nos. 220 kV Line bays (Bay No 210 & 212) at NP Kunta substation	NC-RE						2019-24	Final 19-24	03-07-2018	03-07-2018	185/TT/2022	9/Feb/23	Set aside by APTEL vide Order dtd 15.12.2023 under APL No. 605 OF 2023 & IA No. 1783 OF 2022 & IA No. 1782 OF 2022
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 APL No. 605 OF 2023 & IA No. 1783 OF 2022 & IA No. 1782 OF 2022
7		400	Green Energy Corridors-Inter State Transmission Scheme (ISTS) PartC	2 nos. 500MVA, 400/220 kV ICTs along with associated bays at Bhuj 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 (ISTS) PartC	1 no. 400 kV, 125 MVAR Bus Reactor along with associated bays at Bhuj Pooling Station	RE												
		765	Green Energy Corridors-Inter State Transmission Scheme (ISTS) PartC	1 no. 1500 MVA, 765/400 kV ICT-1 along with associated bays at Bhuj Pooling Station	RE												
		765	Green Energy Corridors-Inter State Transmission Scheme (ISTS) PartC	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												
		765			RE BR												
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	

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks
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. 3*500 MVA ICT at Bikaner Ss, 3*110 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 GootyTumkur (Vasantnarsapur) D/C line at Tumkur (Pavagada) pooling station	RE-Line	LILO of one circuit of 400 kV D/C GootyTumkur (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 GootyTumkur (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 GootyTumkur (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 & equipment's at 400/220 kV Tumkur (Pavagada) pooling station	RE												
		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.(RVPN)TL awab at BE(2)125 MVAR BR awab at Aj.(N)(3)ICT-I awab at Aj.(N)(4)D/C Chit.(New)Chit.(R)TL awab at BE(5)240 MVAR BR awab at Chit.(N)(6)125MVAR BR awab at Chit.(N)(7)ICT-I awab at Chit.(N)(8)ICT-II awab at Chit.(N)	RE-Line	400 kV D/C Ajmer (New)- Ajmer (RVPN) TL	Moose	4	131.23	18363.27000	2019-24	Final 19-24	2/2/2018	2/2/2018	476/TT/2020	3/28/2022	
		400			RE-Line	400 kV D/C Chittorgarh (New)-Chittorgarh (RVPN) TL	Moose	4	97.48								
			Transmission System Associated with"Green Energy Corridors: Inter State Transmission Scheme (ISTS)-Part A	Combined Assets of(1) 765 kV, 240 MVAR BR along with associated bay at Ajmer (New) SS(2) 765/400 kV, 3X500 MVA ICT-II along with associated bays at Ajmer (New) SS	RE												
		400	Transmission System Associated with"Green Energy Corridors: Inter State Transmission Scheme (ISTS)-Part A	2 X400 kV D/C(Quad)Tirunelveli Pooling Station-Tuticorin Pooling station line along with new 400/230kV (GIS) Tirunelveli Pooling SS with 2X125MVAR 400kV BR & associated bays at 400/230kV Tuticorin Pooling station	RE-Line	2 X 400 kV D/C (Quad) Tirunelveli Pooling Station-Tuticorin Pooling station line	Moose	4	24.06								
14			Transmission System Associated with"Green Energy Corridors: Inter State Transmission Scheme (ISTS)-Part A	2X500MVA 400/230kV transformers along with associated bays andequipmentat new 400/230kV (GIS) Tirunelveli Pooling Sub-station	RE					1690.3600	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)

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks
15	POWERGRID	400	Tr. System for Ultra Mega Solar Power Park (700 MW) at Banaskantha (Radhanesda), Gujarat in WR	400 kV Banaskantha (Radhanesda) Pooling Station-Banaskantha (PG) D/C line alongwith 2 nos. 400 Kv line bays at Banaskanta (PG)	RE Line	400 kV Banaskantha (Radhanesda) Pooling Station-Banaskantha (PG) D/C line	Twin Moose	2	130.38	2026.1000	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		400	Supplementary Transmission System for Ultra Mega Solar Power Park (700 MW) at Banaskantha (Radhanesda), Gujarat in WR	Est. of 2x500 MVA, 400/220 kV PS at Banaskantha (Radhanesda) (GIS) with 1X125 MVAR BR, 2 nos of 400 kV line bays at Bnsknta (Radhanesda) (GIS) for interconnection of Bnsknta (Radhanesda) PS-Bnsknta (PG) 400 kV D/C (twin AL59) TL & 4 Nos 220 kV Line bays	RE					2373.4700	2019-24	Final 19-24	05-09-2020	05-09-2020	74/TT/2021	9/Jun/22	Breakup of Pool & Bilateral portion already given in Format II G(1)
17		765	Transmission System for Solar Power Park at Bhadla in the Northern Region	a) 765 kV D/C Bhadla (PG)- Bikaner (PG) with 2x240 MVAR SLR at Bhadla (PG) Ss & 2x240 MVAR SLRs at Bikaner (PG) Ss; (b) 765/400 kV, 1500 MVA ICT-I, II & III with ass. bays at Bhadla (PG) Ss; (c) 1 no of 240 MVAR BR with ass. bays at Bhadla (PG) Ss	RE	765 kV D/C Bhadla (PG)- Bikaner (PG)	Hexa ACSR Zebra	6	338.876	18629.5	2019-24	Final 19-24	17-10-2019	17-10-2019	9/TT/2021	11/Jun/22	
18		400	Transmission System for Solar Power Park at Bhadla in the Northern Region	2 numbers 400 kV line bays at Bhadla (POWERGRID) Sub-station	RE					321.3100	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)
19		220	Transmission System for Solar Power Park at Bhadla in the Northern Region	2 numbers 220 kV line bays (205 & 206) at Badhla (POWERGRID) Sub-station	RE					225.7	2019-24	Final 19-24	07-08-2019	07-08-2019	9/TT/2021	11/Jun/22	
20			Transmission System for Solar Power Park at Bhadla in the Northern Region	500 MVA ICT-I along with associated bays at Bhadla (POWERGRID) Sub-station	RE					503.629	2019-24	Final 19-24	01-06-2019	01-06-2019	9/TT/2021	11/Jun/22	As per APTEL Order dtd 10.08.2023 under DFR No : 541 of 2022, the CERC order under appeal is set aside to the limited extent it has been made applicable to the Appellant (ESUCRL). Accordingly the bilateral portion has been removed here.
21			Transmission System for Solar Power Park at Bhadla in the Northern Region	500 MVA ICT-III along with associated bays at Bhadla (POWERGRID) Sub-station	RE					502.929	2019-24	Final 19-24	17-05-2019	17-05-2019	9/TT/2021	11/Jun/22	As per APTEL Order dtd 10.08.2023 under DFR No : 541 of 2022, the CERC order under appeal is set aside to the limited extent it has been made applicable to the Appellant (ESUCRL). Accordingly the bilateral portion has been removed here.
22		220	Transmission System for Solar Power Park at Bhadla in the Northern Region	220 kV Sourya Urja line-2 Bay at Bhadla (POWERGRID) Sub-station	RE					105.27	2019-24	Final 19-24	04-05-2019	04-05-2019	9/TT/2021	11/Jun/22	
23		400	Transmission System for Solar Power Park at Bhadla in the Northern Region	Comb Asset(a) 400 kV D/C Bhadla (PG)-Bhadla (RVPNL) CKts 1&2 with ass. bays; (b) 400 kV,1X125 MVAR BR with ass. bays at Bhadla (PG) Ss; (c) 400 kV, 500 MVA ICT-2 with ass. bays at Bhadla (PG) Ss; (d) 220 kV, Adani Bhadla (Ps) line-1 bay at Bhadla (PG) Ss	RE	400 kV D/C Bhadla (PG)- Bhadla (RVPNL) CKts 1&2 with ass. bays	Quad ACSR Moose	4	53.084	2291.201	2019-24	Final 19-24	29-04-2019	29-04-2019	9/TT/2021	11/Jun/22	As per APTEL Order dtd 10.08.2023 under DFR No : 541 of 2022, the CERC order under appeal is set aside to the limited extent it has been made applicable to the Appellant (ESUCRL). Accordingly the bilateral portion has been removed here.
24		220	Transmission System for Ultra Mega Solar Park in Anantpur District, Andhra Pradesh - Part B (Phase-II)	4 Numbers of 220 kV line bays (Bay No. 213, 214, 219 & 220) at NP Kunta Substation	RE					113.81	2019-24	Final 19-24	03-08-2018	03-08-2018	8/TT/2023	7/Feb/24	
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	

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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-Barsaita Desh 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 Tumur (Pavagada) under Transmission system for Ultra Mega Solar Power Park at Tumkur (Pavgada), 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	

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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	7,479.30000	-	-	-	5/6/2021	398/AT/2019	04.03.2020	
		765		2 nos. of 765 kV line bays(AIS) at Ajmer PG-Phagi(RVPN) 765 kV D/C line	RE Line bays									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									5/6/2021			
		765		3x80 MVAR, 765 kV bus reactor with GIS bay (2nd main bay of new DIA being created for termination of 765 kV D/C line from Ajmer) at Phagi S/s.	RE Bus Reactor									5/6/2021			
47	FATEGARH-BHADLA TRANSMISSION LIMITED	400		Establishment of 400 kV Pooling Station at Fatehgarh						6503.6916				Deemed COD 31.07.2021	94/TL/2018		Breakup of Pool & Bilateral portion already given in Format II G(1)
		765		Fatehgarh Pooling Station – Bhadla (PG) 765 kV D/C line (To be operated at 400 kV)	Line	Fatehgarh Pooling Station – Bhadla (PG) 765 kV D/C line (To be operated at 400 kV)		6	292					Deemed COD 31.07.2021	94/TL/2018		
		400		2 Nos. 400 kV line bays at Fatehgarh Pooling Station										Deemed COD 31.07.2021	94/TL/2018		
		400		1x25 MVAR Bus Reactor at 400 kV Fatehgarh Pooling Station along with associated bay										Deemed COD 31.07.2021	94/TL/2018		
		220		Space for future 220kV (12 Nos) Line Bays										Deemed COD 31.07.2021	94/TL/2018		
		400		Space for future 400kV (8 Nos) Line Bays alongwith line reactors at at Fatehgarh Pooling Station										Deemed COD 31.07.2021	94/TL/2018		
		400		Space for future 220/400kV transformers (5 Nos) alongwith associated transformer bays at each level.										Deemed COD 31.07.2021	94/TL/2018		
		400		Space for future 400kV bus reactors (2 Nos) alongwith associated bays.										Deemed COD 31.07.2021	94/TL/2018		
48	POWERGRID FATEHGARH TRANSMISSION LIMITED	765		Fatehgarh-II - Bhadhla-II 765 kV D/C Line	Line	Fatehgarh-II - Bhadhla-II 765 kV D/C Line	ACSR ZEBRA	6	373.5	8,769.10				9/1/2021	441/AT/2019	05.03.2020	
		765		2 nos. of 765 kV bays each at Fatehgarh-II & Bhadhla-II S/s for Fatehgarh-II to Bhadhla-II 765 kV D/C line	Bays		NA	NA	NA					9/1/2021			
		765		240 MVAR Switchable Line Reactor with NGR of 400 ohm at Fatehgarh-II on each circuit of Fatehgarh II -Bhadhla-II 765 kV D/C Line	SLR		NA	NA	NA					9/1/2021			
		765		Bikaner (PG) – Khetri S/s 765kV D/c line	Line	Bikaner (PG) – Khetri S/s 765kV D/c line	Zebra	6	481	11299.450				4-Sep-21			

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49	BIKANER-KHETRI TRANSMISSION LIMITED	765		765kV Bays at Bikaner (PG) & Khetri for Bikaner (PG)-Khetri S/s 765kV D/c line. (765kV line bays-4 nos.)						633.120				4-Sep-21	344/TL/2019		
		765		1x240 MVAr Switchable line reactor for each circuit at each end of Bikaner-Khetri 765kV D/c line along with reactor bays (1x240 MVAr Line reactor-4 nos., 765kV Reactor bay-4 nos.) 1x80 MVAR, 765 kV, 1-ph Reactor (spare unit) (For 2×240 MVAr line reactor on Bikaner-Khetri 765kV D/c line at Bikaner end)						961.930				4-Sep-21			
50	POWERGRID KHETRI TRANSMISSION SYSTEM LIMITED	765/400		765/400 kV, 2x1500 MVA ICT along with 765 kV, 2x240 MVAR and 400 kV, 1x125 MVAR Bus reactor at Khetri Substation			NA	NA	NA	3254.24176				10/4/2021	297/AT/2019	23.12.2019	
		765		400 kV, D/C Khetri-Sikar Transmission line		400 kV, D/C Khetri-Sikar Transmission line	Moose	2	156.2	1645.75488				10/4/2021			
		400		400 kV line bays at Sikar (PG) for Khetri-Sikar (PG) 400 kV D/C line			NA	NA	NA	184.84928				10/4/2021			
		765		765 kV, D/C Khetri-Jhatikara Transmission Line		765 kV, D/C Khetri-Jhatikara Transmission Line	ACSR ZEBRA	6	292.1	8754.99856				10/4/2021			
		765		765 kV line bays at Jhatikara for Khetri-Jhatikara 765 kV D/C line			NA	NA	NA	411.43872				10/4/2021			
		765		1x240 MVAR Switchable Line reactors for each circuit at Jhatikara end of Khetri-Jhatikara 765 kV D/C line along with reactor bays			NA	NA	NA	655.91680				10/4/2021			
51	JAM KHAMBALIYA TRANSCO LIMITED	400kV		Establishment of 4x500MVA, 400/220kV Jam Khambhaliya PS (GIS)	Sub-Station					2388.9100				12-Apr-2022	47/AT/2020	3/24/2020	
		400kV		1x125MVAr, 420kV Bus reactor at Jam Khabhaliya PS along with reactor bay	Bus Ractor					244.6700							
		400kV		Extension of Essar–Lakadia/ Bhachau 400kV D/c (triple snowbird) line upto Jam Khambhaliya PS	Transmission Line	Extension of Essar–Lakadia/ Bhachau 400kV D/c (triple snowbird) line upto Jam Khambhaliya PS	ACSR Snow Bird	Three	37.234	635.6900							
		400kV		2 nos. of 400kV line bays at Jam Khambhaliya PS for termination of Jam Khambhaliya PS-Lakadia 400kV D/C (tripple) line	Line Bays					294.0400							
		400kV		63MVAr switchable Line Reactor at both ends of Lakadia - Jam Khambhaliya 400kV D/c line along with 500 Ohms NGR on both circuits & at both ends of Lakadia – Jam Khambhalia 400 kV D/c line	Line Reactor					472.5800							
52	LAKADIA-BANASKANTHA TRANSMISSION LIMITED	765		Lakadia PS – Banaskantha PS 765kV D/c line	Transmission Line	Lakadia PS – Banaskantha PS 765kV D/c line	Zebra	Six	351	8628.75				01-Sep-2022	442/TL/2019	23.01.2020	
		765		765kV Bays at Lakadia and Banaskantha sub-stations for Lakadia PS – Banaskantha PS 765kV D/c line	Bays		NA	NA	NA	689.90							
		765		2x240MVAr switchable Line reactor along with bays at Lakadia PS end of Lakadia PS – Banaskantha PS 765kV D/c line	Reactor		NA	NA	NA	708.95							
		765		765 kV D/C Bhuj PS-Bhuj II (PBTL)	Transmission Line	765 kV D/C Bhuj PS-Bhuj II (PBTL)	ACSR ZEBRA	6 (Hexa)	52.6								
		765		330 MVAR 765 kV Bus Reactor along with associated 765 kV bay	Bus Reactor												
		765/400		1500 MVA, 765/400 kV ICT-2 along with associated 765 kV & 400 kV transfermer bays	ICT												
		400		125 MVAR 400 kV Bus Reactor along with associated 400 kV bay	Bus Reactor												
		400/220		500 MVA, 400/220 kV ICT-2 along with associated 400 kV & 220 kV transformer bays	ICT												
		400/220		500 MVA, 400/220 kV ICT-3 along with associated 400 kV & 220 kV transformer bays	ICT												

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks
53	POWERGRID BHUJ TRANSMISSION LIMITED	400/220		500 MVA, 400/220 kV ICT-1 along with associated 400 kV & 220 kV transformer bays	ICT					14,411.595				02.08.2022* (* To be considered in ISTS Pool from 17.10.2022)	448/AT/2019	05.03.2020	
		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	20647.4361				28.01.2023	444/AT/2019	05.03.2020	
		765kV		330MVAr 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					1519.3483							
		765kV		2 Nos of 765kV bays each at Lakadia and Vadodara S/s for Lakadia Vadodara 765kV D/C line.	Substation					923.6160							
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 MVAr, 420 kV bus reactor - 2 numbers. 400 kV bus reactor bay – 2 numbers. 400 kV, 80MVAr line reactor on each circuit at Bikaner –II end of Bikaner -II – Khetri 400 kV 2xD/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 2xD/c line (Twin HTLS on M/c Tower)	Line	Bikaner-II PS – Khetri 400 kV 2xD/c line (Twin HTLS on M/c Tower)	HTLS	2	1101.42								
		400 kV		1x80 MVAr Fixed Line reactor on each circuit at Khetri end of end of Bikaner -II – Khetri 400 kV 2xD/c Line - 4 numbers.	Fixed Line reactor												
		400 kV		4 number of 400 kV line bays at Khetri for Bikaner –II PS – Khetri 400kV 2xD/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												

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks
				STATCOM at Bikaner-II S/s ± 300 MVAr, 2x125 MVAr MSC, 1x125 MVAr MSR	STATCOM												
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 MVAr, 400 kV Bus reactors at Karur PS	Bus Reactor												
58	**KOPPAL-NARENDRA TRANSMISSION LIMITED**	400		400 KV D/C Quad Moose Koppal PS – Narendra (New) Transmission Line	Transmission Line		ACSR Moose	4	275.618	1,758.39				10/20/2023	283/AT/2021	25.02.2022	Breakup of Pool & Bilateral portion already given in Format II G(1)
		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							
		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		C		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												

S.No.	Name of the ISTS Licensee	Voltage level	Project Name	Asset name	Equipment type	Line name	Type of Conductor	No. of sub-Conductors	Line Length (ckt km)	YTC in Lakhs	Block	Order Status	Petition COD	Actual COD	Petition No.	Order date	Remarks
		400		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	KHAVDA-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		C		21-Feb-2024	101/AT/2022	5/10/2022	
		765kV		Khavda PS (GIS) – Bhuj PS 765 kV D/c line	Transmission Line	Khavda PS (GIS) – Bhuj PS 765 kV D/c line	Al 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		C		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		C		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		C		2-Apr-24	Petition No. 170/AT/2022	08.08.2022	
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 Chittorgarh & 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		C		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	
										383655.38925							