CENTRAL ELECTRICITY REGULATORY COMMISSION
3rd & 4th floor, Chanderlok Building, 36-Janpath,
New Delhi-110001

No. Engg/Tr.Pricing/Validation/L-1/44/2013/CERC Dated: 11 /09/2020

To

Members of the Validation Committee
& Generating Companies
(As per list enclosed)

Subject: Minutes of the 3rd Meeting of Validation Committee for the Application Period from 1st October 2020 to 31st December, 2020 for implementation of CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010

Sir,

Please find enclosed herewith minutes of the **3rd** Meeting of the Validation Committee for the **year 2020-21 (Application Period from 1st October 2020 to 31st December, 2020)** for implementation of CERC (Sharing of Inter-State Transmission Charges and Losses) **Regulations, 2010** held on 21.08.2020 through video conferencing for information and necessary action.

Yours faithfully,

Sd/-
(Shilpa Agarwal)
Joint Chief (Engg)

Encl.: As above

Validation Committee Members

Sl. No.	Name of the Organizations	Name of the nominated persons	Address
1.	CERC	Ms. Shilpa Agarwal, Joint Chief (Engg.)	Central Electricity Regulatory Commission, 3rd & 4th Floor, Chanderlok Building, 36-Janpath, New Delhi -110001
2.		Shri A. V. Shukla Dy. Chief (Fin.)	Central Electricity Regulatory Commission 3rd& 4th Floor, Chanderlok Building, 36-Janpath, New Delhi -110001
3.	CEA	Chief Engineer, (PSP & PA-II) Division	Central Electricity Authority 3rd Floor, N-Wing, Sewa Bhawan, R.K. Puram, New Delhi - 110 066
4.		Director, GM Division	Central Electricity Authority 6th Floor, N-Wing Sewa Bhawan, R.K. Puram, New Delhi-110066
5.	CTU/ Power grid	Shri J. Mazumder ,GM (Comm)	Power Grid Corporation of India Ltd Plot No. 2, Sector-29, Near IFFCO Chowk, Gurgaon-122001
6.		Shri Ashok Pal, GM alternate member Shri RVMM Rao, Chief. Design Engineer (SEF)	Power Grid Corporation of India Ltd Plot No. 2, Sector-29, Near IFFCO Chowk, Gurgaon-122001
7.	POSOCO	Shri S.S Barpanda, Executive Director, NRLDC	Northern Regional Load Despatch Centre, Jeet Singh Marg, Katwaria Sarai, New Delhi-110016
8.		Shri A. Gartia Executive Director, SRLDC	Southern Regional Load Despatch Centre 29, Race Course Cross Road, Bangalore, Karnataka-560009
9.		Shri V.K.Shrivastava Executive Director, WRLDC	Western Regional Load Despatch Center F3, MIDC Area, Marol, Andheri East, Mumbai- 400093
10.		Shri D.K Jain Executive Director, ERLDC	Eastern Regional Load Despatch Center 14, Golf Club Road, Tollygunge, Kolkata-700 033 (W.B.)
11.		Shri Debasis dey Executive Director, NLDC	National Load Despatch Centre B-9, Qutab Institutional Area, KatwariaSarai, New Delhi-110016
12.		Shri V.Suresh Executive Director, NERLDC	North Eastern Regional Load Despatch Centre, Lower Nongrah, Dongtieh, Lapalang, Shillong – 793006

Sl. No.	Name of the Organizations	Name of the nominated persons	Address
13.	NRPC	Shri Naresh Bhandari, Member Secretary	Northern Regional Power Committee 18-A Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-11
14.	WRPC	Member Secretary	Western Regional Power Committee Plot No. F-3, MIDC Area, Marol, Opp : SEEPZ, Andheri (East), Mumbai-400093
15.	SRPC	Member Secretary	Southern Regional Power Committee 29, Race Course Cross Road, Bangalore-560009, Karnataka
16.	ERPC	Shri Joydeb Bandyopadhyay , Member Secretary	Eastern Regional Power Committee 14, Golf Club Road, Tollygunge, Kolkata-700 033 (W.B.)
17.		Shri S.K. Das, Director Engineering	Bihar State Electricity Board 1st Floor, VidyutBhawan, Bailey Road, Patna-21, Bihar
18.	NERPC	Member Secretary	North Eastern Regional Power Committee, NERPC Complex, Dong Parmaw, Lapalang, Shillong-793006 Phone No:0364-2534077 Fax NO.:0364-2534040
19.		Shri Jatin Baishya, Dy. General Manager	State Load Despatch Centre Complex,Kahelipara,Guwahati
20.	SLDC	Shri P.A.R. Bende, Member Director, SLDC	Chief Engineer Madhya Pradesh Power Transmission Company Ltd., Nayagaon, Rampur, Jabalpur- 482008
21.	KPTCL	Shri S. Sumanth Director(Transmission), KPTCL	Karnataka Power Transmission Corp. Ltd, KauveryBhavan, K.G. Road, Bangalore – 560009
22.	UPPTCL	Shri A.K. Singh, Director (Operation), Uttar Pradesh Power Transmission Corporation Ltd.	Uttar Pradesh Power Transmission Corporation Ltd , 7th Floor, Shakti Bhavan, Ashok Marg, Lucknow– 226001

LIST OF GENERATING COMPANIES

Sl. No.	Name of the Statutory Bodies	Name of the persons and Designation	Address
1.	NTPC	Director (Commercial)	NTPC Bhawan, Core 7, Scope Complex, Institutional Area, Load Road, New Delhi – 110003
2.	NHPC	Shri N S Parameshwaran, Executive Director, (O&M)	NHPC office Complex, Sector-33, Faridabad – 121003 (Haryana)
3.	NEEPCO	Ms. Debjani Dey GM (Commercial)	Brookland Compound, Lower New Colony, Shillong– 793003
4.	NLC	Director (Commercial)	No.135, Periyar E.V.R. High Road, Kilpauk, Chennai - 600 010. Tamil Nadu, India. .
5.	SJVN	Shri Romesh Kapoor, General Manager (C&SO)	SJVN Ltd, Sharma Niwas Below BCS, New Shimla – 171009.

Minutes of the 3rd Meeting of Validation Committee for the Application Period from 1st October 2020 to 31st December, 2020 held on 21st August, 2020 through video conferencing.

1. Joint Chief (Engg.), CERC welcomed all the members and participants connected through video conferencing. Participants of RPCs, RLDCs, STUs, Generating Companies, SLDCs of Delhi, Haryana, Himachal Pradesh, Rajasthan, Punjab, UP, DNH, Goa, Gujarat, Chhattisgarh, MP, Bihar, Maharashtra, Jharkhand, DVC, AP, Karnataka, Kerala, Telangana, Tamilnadu, Karnataka, Odisha. List of the participants is enclosed at ***Annexure-I.***

2. Joint Chief (Engg.), CERC stated that the meeting is convened to discuss the Load Generation data for consideration of load flow studies for implementation of CERC (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2010 for the Third Quarter of 2020-21. The presentation shown during the meeting is attached at ***Annexure-II*.**

3. After deliberation among members, it was decided that the peak generation for new hydro units shall be considered at 100%, for new thermal units and new gas based stations, peak injection would be considered as 70% and 30% of ex-bus capacity, respectively. Peak generation for wind power plants shall be considered at 50% of the installed capacity and solar generation shall not be considered in the Load Generation balance for PoC computations. In case of non-submission of data by the DICs, following shall be considered for the purpose of Base case preparation

(a) Peak Demand: Forecasted peak demand to be calculated from last 3 year data taken from CEA website as per provisions of the Regulations.
(b) Peak Generation: Forecasted peak generation to be calculated from last 3 year SEM/SCADA data available with RLDCs as per the provisions of the Regulations.

4. Demand Projection for Application Period from 1st October 2020 to 30th December, 2020 (Q3 of 2020-21).

5.1 Northern Region:

(i) Projected demand by IA for J&K was 2543 MW. During the meeting, NRLDC suggested to consider demand projection as 2600 MW.

(ii) Projected demand by IA for Rajasthan was 12747 MW. Prior to meeting Rajasthan submitted its demand projection as 13267 MW. During the meeting, it was observed

that demand projection provided by Rajasthan is on higher side and hence NRPC suggested to consider demand projection as 12500 MW and same was agreed by Rajasthan.

5.2 Eastern Region:

(i) Projected demand by IA for Bihar was 4950 MW. During the meeting, Bihar representative suggested its demand projection as 5300 MW and the same was agreed upon.

(ii) Projected demand by IA for Jharkhand was 1353 MW. During the meeting, Jharkhand representative suggested to take its demand projection as 1395 MW which was agreed.

(iii) Projected demand by IA for Odisha was 4449 MW. Prior to the meeting Odisha has given its demand projections as 4000 MW. During the meeting ERLDC stated that current ISTS drawl of Odisha is around 600 MW. ERPC suggested that during the winter season there will be improved Thermal and Hydro generation as well as there will be reduced demand. Accordingly the demand projection of 4100 MW was agreed upon.

(iv) Projected demand by IA for West Bengal was 7325 MW. During the meeting, ERLDC stated that WB has submitted its demand as 6500 MW via e-mail. ERLDC explained that there will dip in demand due to Covid-19 situation and winter season. Demand projection 6500 MW suggested by WB was agreed upon.

(v) Projected demand by IA for Sikkim was 108 MW. Demand of 120 MW was suggested by ERPC during the meeting. NLDC suggested that the demand of Sikkim has never crossed 110 MW. It was agreed that 108 MW shall be considered as projected by IA.

5.3 Western Region:

Demand projections for WR constituents as submitted by them were agreed upon.

5.4 Southern Region:

(i) Projected demand for Tamil Nadu by IA was 14096 MW. Prior to meeting, Tamil Nadu has suggested its demand projection as 14233 MW. During the meeting, Tamil Nadu has suggested to take its demand projection as projected by IA i.e. 14096 MW and the same was agreed upon.

5.5 North Eastern Region:

Demand projections for NER constituents as agreed at OCC and submitted by them were agreed upon.

5. Generation Projection for Application Period from 1st July 2020 to 30th September, 2020 (Q2 of 2020-21).

6.1 Northern Region:

(i) Projected generation by IA for Rajasthan was 7219 MW. Prior to meeting Rajasthan has suggested its generation projection as 9493 MW. During the meeting NRPC has suggested to take generation projection as 8000 MW considering previous ISTS drawl and the same was agreed upon.

(ii) NRPC suggested that Generation from RAAP C may be taken as 402 MW instead of 507 MW as per LGBR.

The Generation figures as suggested above were agreed.

6.2 Eastern Region:

(i) Projected generation by IA for Bihar was 110 MW. During the meeting, Bihar has submitted its generation projection as 250 MW and the same was agreed upon.

(ii) Projected generation by IA for Jharkhand was 353 MW. During the meeting, representative of Jharkhand suggested that generation may be taken as 405 MW and the same was agreed upon.

(iii) Projected generation by IA for Orissa was 3794 MW. Prior to meeting Orissa has submitted its generation projection 4168 MW. During the meeting, Orissa has submitted its generation projection as 3800 MW and the same was agreed upon.

(iv) Member present at ERPC suggested following changes:

(a) Generation from Chujachan may be taken as 110 MW instead of 118 MW.

(b) Generation from MPL may be taken as 750 MW instead of 996 MW as 1 unit will be under shut down from 15th Nov. to 29th Dec. 2020 (45 days) for overhauling.

(c) Generation from Teesta V may be taken as 510 MW instead of 532 MW.

(d) Generation from Kahalgaon may be taken as 1900 MW instead of 2171 MW as 1 unit will be under shut down 26th Nov. to 30th Dec. 2020 (35 days) for Boiler maintenance.

(e) Generation from Farakka may be taken as 1700 MW instead of 1960 MW as unit-4 will be shut down from 23rd Nov to 22nd Dec. 2020 (30 days).

(f) Generation from Talcher may be taken as 750 MW instead of 931 MW as unit-2 will be under shut down 26th Oct. to 9th Dec. 2020 (45 days).

(g) Generation from Rangeet may be taken as 60 MW instead of 62 MW.

(h) Generation from Adhunik Power may be taken as 400 MW instead of 384 MW as both units are on bar.

(i) Generation from Barh may be taken as 1200 MW instead of 1238 MW.

(j) Generation from Bhutan may be taken as 1500 MW instead of 1544 MW.

(k) Generation from Dikchu HEP may be taken as 96 MW instead of 108 MW.

(l) Generation from Darlipalli STPP ST-I may be taken as 750 MW instead of 560 MW as suggested by NTPC since there is no planned outage.

The Generation figures as suggested above were agreed upon.

6.3 Western Region:

(i) Projected generation by IA for Maharashtra was 13913 MW. Prior to the meeting, Maharashtra has submitted its generation projection as 13564 MW and the same was agreed upon.

(i) Member present at WRLDC suggested following changes:

(a) Generation from TAPS (3, 4) may be taken as 983 MW instead of 1080 MW considering the auxiliary power consumption.

(b) Generation from LANCO may be taken as 558 (273+285) MW instead of 573 MW as they have LTA of 558 MW only.

(c) Generation from CGPL may be taken as 3300 MW instead of 3800 MW, because their one unit is also going under outage in the last week of October till first week of December and Gujarat also has suggested 3300 MW.

(d) Generation from Mauda may be taken as 1500 MW instead of 2050 MW because 2500 MW is on higher side and considering its high energy charges it may not be scheduled more than 1500MW.

(e) Generation from Essar Mahan may be taken as 670 MW instead of 1128 MW because they have not generated more than 670, and also they do not have LTA for 1128 MW.

(f) Generation from RKM Power may be taken as 700 MW instead of 900 MW because they have 350 MW LTA and they have been doing some STOA transactions and in the past maximum they have generated 700 MW.

(g) Generation from Sholapur STPP may be taken as 350 MW instead of 970 MW because it is a high cost generator and only one unit is expected to run. NTPC agreed with the same. Further they submitted that they have given figures on positive sides expecting that their ECR shall reduce in future.

(h) Generation from Khargaon STPS may be taken as 600 MW instead of 867 MW considering RSD for one unit. NTPC agreed with the same.

(i) Generation from Roha Green may be taken as 150 MW instead of 113 MW considering installed capacity of 300 MW.

The Generation figures as suggested above during the meeting by WRLDC were agreed upon.

6.4 Southern Region:

(i) Projected generation for Andhra Pradesh by IA was 5538 MW. Prior to meeting, Andhra Pradesh had submitted its generation projection as 8862 MW which is including Solar. During the meeting, it is decided to consider its generation projection as 6700 MW excluding solar and the same was agreed upon.

(ii) Projected generation for Tamil Nadu by IA was 7039 MW. Prior to meeting, Tamil Nadu has suggested its generation 7546 MW. As generation given by Tamil Nadu includes the generation of NNTP which cannot be taken as internal generation. During the meeting, it was suggested to take generation projection as projected by IA i.e. 7039 MW which comes after excluding generation of NNTP and the same was agreed upon.

(iii) Member present at SRLDC suggested following changes:

(a) Generation from Ramagundum may be taken as 2121 MW instead of 2421 MW because there is an outage planned at that time.

(b) Generation from Simhadri 1 & 2 may be taken as 900 MW each instead of 943 MW.

(c) Generation from Kaiga may be taken as 588 MW instead of 837 MW considering a unit outage.

(d) Generation from Neyveli (ext) TPS may be taken as 384 MW instead of 401 MW.

(e) Generation from Neyveli TPS-II may be taken as 700 MW instead of 1266 MW because some accident has happened there and unit outage is extending.

(f) Generation from Neyveli TPS-II Exp may be taken as 300 MW instead of 416 MW.

(g) Generation from MAPS may be taken as 192 MW instead of 231 MW considering one unit outage.

(h) Generation from Vallur may be taken as 950 MW instead of 1263 MW considering likely RSD.

(i) Generation from Meenakhshi may be taken as 0 MW instead of 43 MW.

(j) Generation from Coastal Energen may be taken as 750 MW instead of 759 MW.

(k) Generation from Kundankulam may be taken as 1844 MW instead of 1314 MW because it is expected to generate full quantum.

(l) Generation from Tuticorin TPP may be taken as 943 MW instead of 958 MW.

(m) Generation from Talcher Stage-II may be taken as 1400 MW instead of 1901 MW considering one unit outage.

(n) Generation from Kudgi STPS may be taken as 1447 MW instead of 2050 MW considering one unit in RSD.

(o) Generation from Green Infra may be taken as 75 MW instead of 125 MW.

(p) Generation from Mytrah may be taken as 75 MW instead of 125 MW.

(q) Generation from Orange may be taken as 60 MW instead of 100 MW.

(r) Generation from Betam may be taken as 30 MW instead of 25 MW.

The Generation figures as suggested above were agreed upon.

6.5 North Eastern Region:

Generation projections for NER constituents as agreed at OCC and submitted by them were agreed upon.

Note: The data not specifically indicated above shall be as submitted by DIC or where DIC has not submitted any data, the projected data as forecasted by IA shall be considered as recorded in V.C. presentation.

6. HVDC Set Points:

(i) HVDC set points to be considered in the All India Base case for computation of PoC charges and Losses for October 2020 – December 2020 period were projected by Implementing Agency based on operational experience and was put up for validation before the Committee.

(ii) After discussion, following HVDC set points are finalized.

HVDC Name	Set points to be considered in Base case
Mundra-Mahindergarh Pole-1	1000
Mundra-Mahindergarh Pole-2	1000
Talcher-Kolar Pole- 1	1000
Talcher-Kolar Pole- 2	1000
Rihand-Dadri Pole- 1	750
Rihand-Dadri Pole- 2	750
Balia-Bhiwadi Pole-1	500
Balia-Bhiwadi Pole-2	500
Bhadrawati_HVDC	1000
Vindhyachal_HVDC	250
Gajuwaka_HVDC	650
Pusauli HVDC	400
Chandrapur-Padghe Pole-1	750
Chandrapur-Padghe Pole-2	750
BNC- Agra Pole-1& Pole-2	500 (towards NER)
Alipurduar-Agra Pole-1 & Pole-2	0
Champa-Kurukshetra Pole-1 & Pole-2	2000
Champa-Kurukshetra Pole-3	1000

Set point of Alipurduar-Agra shall be taken as zero considering low hydro season and that Alipurduar –Agra is unidirectional towards NR.

7. New Assets

(i) The inclusion of assets of M/s. Khargone Transmission Limited (KTL) was discussed. M/s KTL submitted that the remaining assets would be commissioned by the end of Nov'20. It was discussed and decided not to consider the assets of M/s KTL as indicated in presentation, for 2020-21 Q3 computations.

(ii) The inclusion of assets of M/S. KOHIMA MARIYANI TRANSMISSION LTD (KMTL) was discussed. Implementing Agency informed that the assets of KMTL were not included in the PoC computations for 2020-21 Q2 as both the upstream and downstream networks were not ready. The current status of the assets along with the upstream and downstream network was discussed. It was informed that both upstream and downstream networks are not yet ready. Therefore, it was decided not to consider the assets of M/s. KMTL for 2020-21 Q3 computations.

(iii) The inclusion of assets of M/S.NER-II Transmission Ltd. was discussed. IA informed that even though this licensee had claimed the assets in previous quarter, it was not considered for 2020-21 Q2 as the assets were not anticipated to be completed by the end of July'20. For 2020-21 Q3, The licensee had anticipated that the assets would be commissioned by the end of Oct-20. NERLDC informed that among the list of the assets 400 kV Surjamani Nagar-PK Bari, 400 kV Silchar-Misa, 400/132 kV S/S at PK Bari and Surjamani Nagar may be excluded as there will not be any power flow in the downstream Tripura network as the respective assets are not ready. Further, suggested that the remaining assets may be considered for 2020-21 Q3 computations. It was discussed and decided that the remaining assets shall be considered for 2020-21 Q3 computations after checking the pre-requisites as per TSA.

(iv) NERLDC vide email dated 10.09.2020 submitted the status of upcoming projects of M/S Sterlite in NER. Further, Transmission Licensee vide email dated 10.09.2020 has submitted following anticipated COD:

Sl No	Element	Anticipated Date of Commissioning
1	132kV AGTPP (NEEPCO) – PK Bari	October'20
2	400 kV Surjamani Nagar- PK Bari	October'20
3	400kV Silchar- Misa	December'20
4	Biswanath Chariyali (Powergrid)-Itanagar 132kV D/C (Zebra conductor) line	December'20
5	LILO of one circuit of 132kV Biswanath Chariyali (PG)-Itanagar at Gohpur (AEGCL)	December'20
6	2 no. 132 kV line bays at AGTPP (NEEPCO) generation switchyard for termination of AGTPP (NEEPCO)-P.K. Bari (TSECL) 132kV D/c line.	October'20 CEA Inspection is awaited
7	2 no. 400 kV line bays at Itanagar for termination of Biswanath Chariyali (Powergrid)-Itanagar 132kV D/C (Zebra conductor) line	December'20 CEA Inspection is awaited

Sl No	Element	Anticipated Date of Commissioning
8	Line bays at P.K. Bari (TSECL) S/s for termination of AGTPP (NEEPCO)-P.K. Bari (TSECL) 132kV D/c line	October'20 CEA Inspection is awaited
9	2 no. 400 kV line bays at Palatana GBPP switchyard for termination of Palatana-Surajmaninagar 400 kV D/C line.	October'20
10	Establishment of 400/132kV,7x105MVA single phase (including one spare) s/s at P.K. Bari	October'20
11	Establishment of 400/132kV ,7x105MVA Single Phase (including one spare) S/s at Surajmaninagar	October'20

Further, Transmission Licensee has submitted that for utilization of the elements at Sr. No. 2 (400 kV Surjamaninagar- PK Bari), Sr. No. 10 (Establishment of 400/132kV, 7x105MVA single phase (including one spare) s/s at P.K. Bari) and Sr. No. 11 (Establishment of 400/132kV, 7x105MVA Single Phase (including one spare) S/s at Surajmaninagar), it requires either upstream system from PGCIL or Downstream system from TSECL. Due to technical and financial approval issues in TSECL, the Licensee is executing interim arrangement (Downstream connectivity) on behalf of TSECL for optimum utilization of the system and the same will be expected to be commissioned in matching timeframe with associated elements. In the recent meeting conducted by CEA, PGCIL has confirmed to commission Silchar-PK Bari Transmission Line by Oct'20 on best effort basis.

(v) Implementing Agency informed regarding the assets of new licensee FATEHGARH BHADLA TRANSMISSION LIMITED those are to be considered for 2020-21 Q3 computations. They had submitted that their assets would be commissioned by the end of Oct'20. The list of assets is included in Annexure-II. It was discussed and decided not to consider all these assets in 2020-21 Q3 computations as it was informed that the both upstream and downstream elements are not yet ready.

(vi) Implementing Agency had informed that the YTC of two of the assets of Teesta Valley Power Transmission Limited (M/s. TPTL) are being considered for PoC computations as per the provisional tariff order issued by CERC. It was further informed that CERC had recently issued final tariff order for those assets of M/s. TPTL on 09.08.2020. It was decided to consider the final tariff order of these assets of M/s TPTL in 2020-21 Q3 computations.

(vii) Implementing agency informed that the asset cost of 13 state utilities whose approved Tariff by the Commission was not available as on 31.03.2019 were excluded in 2019-20 Q3 computations as decided in the 3rd Validation Committee meeting for 2019-20.

The same principle is being followed since then for the subsequent quarters. It was further discussed upon continuing the same in 2020-21 Q3 computations and decided to continue the exclusion of the YTC of state utilities whose approved tariff by Commission was not available as on 31.03.2019 in 2020-21 Q3 calculations

(a)TBCB Assets:-

	Name of the Transmission line	**ISTS Licensee**	**CoD as per TSA**	**Anticipated CoD as submitted by transmission licensee**	**Remarks**
1	765kV Khandwa-Dhule	Khargone Transmission Limited (KTL)	July,2019	Nov,2020	Not to be considered in POC for Q3 of 2020-21
2	765kV Line Dhule bays for Khandwa-Dhule				
3	400/200 kV, 2 x 500 MVA Substation at New Kohima	KOHIMA MARIYANI TRANSMISSION LTD.	April 29, 2020	Aug,2020	As both downstream and upstream networks are not ready. Not to be considered in POC for Q3 of 2020-21 as per Orders of the Commission
4	Imphal – New Kohima 400kV D/C Line with Twin Moose ACSR Conductor			September 30, 2020	
5	New Kohima – New Mariani 400 kV D/C Line with Twin Moose ACSR Conductor			Aug,2020	
6	132kV AGTPP (NEEPCO) – PK Bari	NER-II Transmission Ltd.	March 31, 2020	Oct,2020	To be considered in POC for Q3 of 2020-21
7	400 kV Surjamani Nagar- PK Bari		July 31, 2020		To be considered in POC for Q3 of 2020-21
8	400kV Silchar-Misa		December 1, 2020	Dec, 2020	Not to be considered in POC for Q3 of 2020-21
9	Biswanath Chariyali (Powergrid)-Itanagar 132kV D/C (Zebra conductor) line		March 31, 2020		Not to be considered in POC for Q3 of 2020-21
10	LILO of one circuit of 132kV Biswanath		March 31, 2020		Not to be considered in

	Name of the Transmission line	ISTS Licensee	CoD as per TSA	Anticipated CoD as submitted by transmission licensee	Remarks
	Chariyali (PG)-Itanagar at Gohpur (AEGCL)				POC for Q3 of 2020-21
11	2 no. 132 kV line bays at AGTPP (NEEPCO) generation s/y for termination of AGTPP (NEEPCO)-P.K. Bari (TSECL) 132kV D/c line		March 31, 2020	Oct,2020	To be considered in POC for Q3 of 2020-21
12	2 no. 400 kV line bays at Itanagar for termination of Biswanath Chariyali (Powergrid)-Itanagar 132kV D/C (Zebra conductor) line		March 31, 2020	Dec, 2020	Not to be considered in POC for Q3 of 2020-21
13	Line bays at P.K. Bari (TSECL) S/s for termination of AGTPP (NEEPCO)-P.K. Bari (TSECL) 132kV D/c line		July 31, 2020	Oct,2020	To be considered in POC for Q3 of 2020-21
14	2 no. 400 kV line bays at Palatana GBPP switchyard for termination of Palatana-Surajmaninagar 400 kV D/C line		July 31, 2020		To be considered in POC for Q3 of 2020-21
15	Establishment of 400/132kV,7x105 MVA single phase (including one spare) s/s at P.K. Bari		July 31, 2020		To be considered in POC for Q3 of 2020-21
16	Establishment of 400/132kV ,7x105MVA Single Phase (including one spare) S/s at Surajmaninagar		July 31, 2020		To be considered in POC for Q3 of 2020-21

	Name of the Transmission line	ISTS Licensee	CoD as per TSA	Anticipated CoD as submitted by transmission licensee	Remarks
17	Establishment of 400 kV Pooling Station at Fatehgarh	FATEHGARH BHADLA TRANSMISSION LIMITED	September 30, 2019	October 31, 2020	Not to be considered in POC for Q3 of 2020-21 as per Orders of the Commission, as both downstream and upstream systems are not ready.
18	Fatehgarh Pooling Station – Bhadla (PG) 765 kV D/C line (To be operated at 400 kV)				
19	2 Nos. 400 kV line bays at Fatehgarh Pooling Station				
20	1x25 MVAR Bus Reactor at 400 kV Fatehgarh Pooling Station along with associated bay				
21	Space for future 220kV (12 Nos) Line Bays				
22	Space for future 400kV (8 Nos) Line Bays alongwith line reactors at at Fatehgarh Pooling Station				
23	Space for future 220/400kV transformers (5 Nos) alongwith associated transformer bays at each level				

(b)Assets as submitted by PGCIL

No new PGCIL asset is proposed for this quarter.

(i) It was decided that assets put into use or anticipated to be put under use shall be considered in PoC subject to CERC Regulations & Orders.

Preparation of final All India Base case in PSS/E platform:

It may be mentioned that there would be variation in the validated generation and demand figures in the final all India Base case because of the following steps involved:

(i) Normalization with All India Forecasted Peak Demand figure.
(ii) Arriving at Load Generation Balance for convergence of the All India Base case.
(iii) Adjustment of Slack Bus Generation.

Annexure-I

List of Participants in the 3rd meeting for 2020-21 of the Validation Committee held on 21st August, 2020 at New Delhi.

CERC

1. Ms Shilpa Agarwal, Joint Chief (Engg.)
2. Shri A. V. Shukla Dy. Chief (Fin.)
3. Shri Abhishek Rohilla Dy. Chief (Engg.)
4. Ms Sonika Hayaran, Research Officer

NLDC

5. Shri Debasish De, ED
6. Shri G Chakraborty, CGM
7. Shri Ravi Shankar Chinnam, Chief Manager
8. Shri Sanny Machal, Manager
9. Shri Laxman Singh, Asst. Manager

NRPC

10. Shri Naresh Bhandari, Member Secretary
11. Shri S. Majumdar, SE

NRLDC

12. Shri H. K. Chawla, CGM
13. Shri Alok Kumar, Senior DGM
14. Shri Riza Naqvi, Manager

WRPC

15. Shri Satyanarayan S, Member Secretary
16. Shri Deepak Gawali, SE(Operation)

WRLDC

17. Smt. S. Usha, GM(MO)
18. Smt. Pushpa. S, GM(SO-II)
19. Smt. Chitrankshi G., CM(SO-II)

ERLDC

20. Shri S Banerjee, SGM
21. Shri Saurav Kumar Sahay, Chief Manager

SRPC

22. Shri A Balan, MS
23. Ms. Anusha Das J, EE

SRLDC

24. Shri S P Kumar, Chief General Manager
25. Shri Goodelli Madhukar, Chief Manager
26. Shri M Pradeep Reddy, Manager

NERLDC
27. Shri Samar Ch. De., GM
28. Shri Namrata Pathak, Engineer
29. Shri Palash Jyoti Borah, DM

NHPC
30. Shri Vijay Kumar, Senior Manager

Delhi, SLDC
31. Shri Saurabh Mishra, Junior Engineer

RVPNL
32. Shri A.K.Jhalani, SE(SOLD)
33. Shri Kamal Patidar, XEN-1 (SOLD)
34. Shri Vijay Kumar Gupta, AEN(SOLD)

Punjab, SLDC
35. Shri Akshay Garg, ASE

UP, SLDC
36. Shri Mithilesh Kumar Gupta, EE

KPTCL SLDC
37. Shri Malleshappa, EE

GRIDCO & Odisha SLDC
38. Shri P K Das, GM,Odisha SLDC
39. Shri Sanjit Maharana, AGM ,Gridco

HPPC
40. Shri Gaurav Gupta, XEN

HVPNL
41. Shri Rajesh Goel, SE
42. Shri Sanjeev Mehta, XEN
43. Shri Deepak, SDO

DNH
44. Shri. R B Chaubal , AE (Coml)
45. Shri Yasin Patel, JE
46. Shri Brijesh Rohit, JE

MSLDC
47. Shri Madhav Pande, (E.E.-OP-II)
48. Shri. Peeyush Sharma, Superintending Engineer (Operation)
49. Shri. Sachin Lomate, Addl. E.E. (REMC-Operation)

MPSLDC

50. Shri. Shankar Chakraborty, EE
51. Shri. R.P.Rakhya, AE

52. Shri Shikhar Nema, Assistant Engineer

Gujrat SLDC
53. Shri. M. G. Gahdavi, SE (OP)
54. Shri V. K. Virpariya, JE (MIS)
55. Shri. G. J. Mistry, DE (MIS)

SLDC CSPTCL
56. Ms.Namita Vibha Lakra, EE

SLDC Goa
57. Shri Jack Fernandes, Assistant Engineer

TR & SLDC, Electricity Department,Daman
58. Shri. K.K.Bhaskaran, AE
59. Shri. Jay Solanki, JE

Jharkhand
60. Shri Tushar Ranjan, EE

Bihar
61. Shri Abhishek Kumar, EEE PMC
62. Shri Gagan Kumar, EEE
63. Shri Rajdeep Bhattacharya, RE

APTRANSCO
64. Ms. Radha Lakshmi, AEE
65. Shri Kondal **Rao, EE**

TSTRANSCO
66. Shri P. Suresh babu, CE
67. Shri N Rajashekar, AE
68. Shri Murugavelan, AEE

KSEBL

69. Ms. Annie Job. E.J, EE
70. Ms. Maria Sheena.M.X, AEE
71. Shri Anu.S.Ramesh, AE

AMNS India
72. Shri Sandeep Shah, Manager-Commercials

JITPL
73. Shri Shubhang Nandan, GM Power Sales,JITPL

Annexure-II

Point of Connection Charges and Losses Computation
Oct 2020 - Dec 2020 (Q3)

Meeting of the Validation Committee
Date :21st Aug, 2020

Through Webex

Assumptions

- As per CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010 and amendments thereof;

- Maximum/Peak generation (based on SEM data) and Maximum/Peak load (based on CEA data) considered.

Contents

- PoC Computation for Q3 Case (Oct'20 - Dec'20)
  - Demand & Generation Projection
  - New Generation
  - HVDC Set points

Demand Generation Projection

- Demand and Generation Projection
  - Based on Last 3 years data.
- Generation Projection
  - Average of monthly maximum injection in the last three years.
  - Based on actual metered data available with RLDCs.
  - Increasing Trend : Last Year Average figure considered
  - In other cases : Average of last three years
  - For State's generation, maximum injection data for last 3 yrs and projected generation to be provided by state SLDC.

Demand Generation Projection

- For State's generation, in case of non-submission of data by the DICs, the maximum injection of the concerned State is taken as the difference between peak met and withdrawal from ISTS based on actual metered data (for the time block corresponding to the block in which peak met occurred).

- New Generation: DOCO by 30th Sep, 2020.

Demand Generation Projection

- Demand Projection
  - Projection based on last 3 year's average of corresponding month's peak demand met figures.
  - Projected all India peak demand met calculated.
  - Based on FORECAST function of MS-Excel
  - Data taken from monthly power supply position published by CEA.
  - Normalization factor: $\frac{\textit{Projected All India Peak Demand Met}}{\textit{Sum of projected met for all states}}$

Load Generation Projection

New Units	Loading
Thermal Units with DOCO from 1st Jan’20 to 30th Sep'20	70%
Hydro Units with DOCO from 1st Jan’20 to 30th Sep'20	100%
Gas Units with DOCO from 1st Jan’20 to 30th Sep'20	30%

Demand and Generation Projections

□ Northern Region	Projection	Gen. addition
□ Eastern Region	Projection	Gen. addition
□ Western Region	Projection	Gen. addition
□ North-Eastern Region	Projection	Gen. addition
□ Southern Region	Projection	Gen. addition

HVDC Set points

- **Maximum Flow based on operational experience.**

MW Values

HVDC Name	Set points to be considered in Basecase
Mundra-Mahindergarh Pole-1	1000
Mundra-Mahindergarh Pole-2	1000
Talcher-Kolar Pole- 1	1000
Talcher-Kolar Pole- 2	1000
Rihand-Dadri Pole- 1	750
Rihand-Dadri Pole- 2	750
Balia-Bhiwadi Pole-1	500
Balia-Bhiwadi Pole-2	500
Bhadrawati_HVDC	1000
Vindhyachal_HVDC	250
Gajuwaka_HVDC	650
Pusauli HVDC	400
Chandrapur-Padghe Pole-1	750
Chandrapur-Padghe Pole-2	750
BNC- Agra Pole-1& Pole-2	500 (towards NER)
Alipurduar-Agra Pole-1 & Pole-2	500
Champa-Kurukshetra Pole-1 & Pole-2	2000
Champa-Kurukshetra Pole-3	1000

Data not Received

- Jharkhand
- Bihar
- West Bengal
- Sikkim
- DVC
- Pondicherry
- Telangana
- Jammu & Kashmir
- Chandigarh

Data not Received

- AD Hydro
- Everest
- Sree cement
- Koteshwar
- RAAP B
- RAAP C
- Karcham Wangtoo
- Kaiga
- MAPS
- Vallur
- Coastal Energen
- Lanco Budhil
- Sainj HEP
- Chujachan
- MPL
- Talcher
- Adhunik Power
- Jorethang
- Teesta III
- Nabinagar BRBCL
- Nabinagar STPS

YTC Data received from Transmission Licensees

- Adani Power Limited
- Darbhanga Motihari Transmission Company Ltd.
- Jabalpur Transmission Company Ltd.
- East North Inter-connection Ltd.
- Bhopal Dhule Transmission Company Ltd.
- RAPP Transmission Company Ltd.
- Purulia & Kharagpur Transmission Company Ltd.
- NRSS-XXIX Transmission Ltd.
- NRSS-XXXI B Transmission Ltd.
- Maheshwaram Trans. Ltd.
- Gurgaon-Palwal Trans. Ltd.
- Khargone Trans. Ltd.
- Jindal Power Ltd.
- Alipurduar Transmission Limited

YTC Data received from Transmission Licensees… (2)

- Odisha Generation Phase-II Trans. Ltd.
- Teestavalley Power Transmission Ltd.
- Essar Power Transmission Company Ltd.
- Western Transco Power Limited
- Western Transmission Gujarat Limited
- Sipat Transmission Limited
- Chhattisgarh -WR Transmission Limited
- Raipur-Rajnandgaon-Warora Transmission Limited
- Patran Trans. Co. Ltd.
- Torrent Power Grid Ltd.
- Jaypee Powergrid Ltd.
- Power Grid Corporation of India Limited
- Raichur Sholapur Transmission company Ltd

Contd….

YTC Data received from Transmission Licensees… (3)

- PowerGrid Jabalpur Trans. Ltd.
- POWERGRID Warora Trans. Ltd.
- POWERGRID NM Trans. Ltd.
- POWERGRID Vizag Trans. Ltd.
- PowerGrid Parli Trans. Ltd.
- PowerGrid Unchahar Trans. Ltd.
- PowerGrid Kala Amb Trans. Ltd.
- POWERGRID Southern Interconnector Transmission System Limited
- Aravali Power Company Pvt. Ltd.
- Parbati Koldam Trans. Company Ltd.
- Kudgi Trans. Ltd.
- Kohima Mariani Transmission Ltd.
- NER-II Transmission Ltd.
- Fatehgarh Bhadla Transmission Ltd.

YTC Data not received

- **Powerlinks Transmission Ltd.**
- **Warora-Kurnool Transmission Limited**
- **North East Transmission Company Ltd.**
- **NRSS-XXXVI Transmission Ltd.**

YTC Data received from States

- Madhya Pradesh

List of new assets

Name of the Transmission Asset	CoD as per TSA	As per CEA website	Anticipated/ Actual CoD
Khargone Transmission Limited			
765kV Khandwa-Dhule	July,2019		Nov 2020
765kV Line Dhule bays for Khandwa-Dhule	July,2019		Nov 2020

List of new assets … (2)

Sl.No	Name of Transmission line	Scheduled COD	As per CEA website	Anticipated /Actual CoD	CERC Order date
KOHIMA MARIYANI TRANSMISSION LTD (New Licensee)					
1	400/200 kV, 2 x 500 MVA Substation at New Kohima.	29th April 2020		Aug-20	90/AT/2017; Order Date: 06th July' 2018
2	Imphal – New Kohima 400kV D/C Line with Twin Moose ACSR Conductor			30-Sep-20	
3	New Kohima – New Mariani 400 kV D/C Line with Twin Moose ACSR Conductor			Aug-20	

Status of assets as reported by Kohima Mariyani Transmission Ltd.

Element-1 : 400/200 kV, 2 x 500 MVA Substation at New Kohima.

- KMTL has already Completed element 1, Ready for charging and applied FTC. Downstream under the scope on DOP Nagaland is not yet ready.

Element-2 : Imphal – New Kohima 400kV D/C Line with Twin Moose ACSR Conductor

- ROW issue at Location no. 207 in Nagaland not getting resolved in spite of local administrative support
- Discussions are on with the local villagers and Deputy commissioner of Kohima, Nagalandand expecting the ROW will be resolved by 25th Aug. 2020
- Further looking at the present lockdown / monsoon conditions, this element is expected to be ready for commissioning before 30th Sep. 2020

Element-3 : New Kohima – New Mariani 400 kV D/C Line with Twin Moose ACSR Conductor

- KMTL has already Completed element 3, ready for charging and applied for FTC. Associated bay's at Mariani Substation (PGCIL) and downstream (AEGCL) is yet to be completed.

List of new assets … (3)

Sl.No	Name of Transmission line	Scheduled COD	As per CEA website	Anticipated /Actual CoD	CERC Order date
NER-II Transmission Ltd (New Licensee)					
1	132kV AGTPP (NEEPCO) – PK Bari	31 Mar 2020		Oct,2020	CERC Orders dated 12.06.2017 in Petition No. 81/AT/2017
2	400 kV Surjamani Nagar- PK Bari	31 Jul 2020			
3	400kV Silchar- Misa	01 Dec 2020			
4	Biswanath Chariyali (Powergrid)-Itanagar 132kV D/C (Zebra conductor) line	31 Mar 2020			
5	LILO of one circuit of 132kV Biswanath Chariyali (PG)-Itanagar at Gohpur (AEGCL)	31 Mar 2020			
6	2 no. 132 kV line bays at AGTPP (NEEPCO) generation switchyard for termination of AGTPP (NEEPCO)-P.K. Bari (TSECL) 132kV D/c line.	31 Mar 2020			
7	2 no. 400 kV line bays at Itanagar for termination of Biswanath Chariyali (Powergrid)- Itanagar 132kV D/C (Zebra conductor) line	31 Mar 2020			

List of new assets … (4)

Sl.No	Name of Transmission line	Scheduled COD	As per CEA website	Anticipated /Actual CoD	CERC Order date
NER-II Transmission Ltd (New Licensee)					
8	Line bays at P.K. Bari (TSECL) S/s for termination of AGTPP (NEEPCO)-P.K. Bari (TSECL) 132kV D/c line	31 July 2020		Oct,2020	CERC Orders dated 12.06.2017 in Petition No. 81/AT/2017
9	2 no. 400 kV line bays at Palatana GBPP switchyard for termination of Palatana-Surajmaninagar 400 kV D/C line.	31 July 2020			
10	Establishment of 400/132kV,7x105MVA single phase (including one spare) s/s at P.K. Bari	31 July 2020			CERC Order in Petition No.157/TL/2016 dated 17.11.2016
11	Establishment of 400/132kV ,7x105MVA Single Phase (including one spare) S/s at Surajmaninagar	31 July 2020			

List of new assets … (5)

Sl.No	Name of Transmission line	Scheduled COD	As per CEA website	Anticipated /Actual CoD	CERC Order date
FATEHGARH BHADLA TRANSMISSION LIMITED (New Licensee)					
1	Establishment of 400 kV Pooling Station at Fatehgarh	30 Sep 2019		31st Oct,2020	Order - Petition No. 94/TL/2018
2	Fatehgarh Pooling Station – Bhadla (PG) 765 kV D/C line (To be operated at 400 kV)				
3	2 Nos. 400 kV line bays at Fatehgarh Pooling Station				
4	1x25 MVAR Bus Reactor at 400 kV Fatehgarh Pooling Station along with associated bay				
5	Space for future 220kV (12 Nos) Line Bays				
6	Space for future 400kV (8 Nos) Line Bays alongwith line reactors at at Fatehgarh Pooling Station				
7	Space for future 220/400kV transformers (5 Nos) alongwith associated transformer bays at each level.				
8	Space for future 220/400kV transformers (5 Nos) alongwith associated transformer bays at each level.				

Other Issues

- **Final Tariff order for the assets of Teesta Valley Power Transmission Ltd.**

Asset-1:

400 kV Kishanganj – Rangpo (Upto Rangpo LILO Point) Line along with 63 MVAR Line Reactor and associated bays (no. 411) at Kishanganj 1(c)

Asset-2:

400 kV Kishanganj – Teesta III (Upto Rangpo LILO Point) Line along with 63 MVAR Line Reactor and associated bays (no. 410) at Kishanganj 2(a)

Thank You !!

Demand and Generation Projection – Northern Region

Entity	Projected Demand (MW) by IA	Demand as given by DICs	Projected Generation (MW) by IA	Generation data as given by DICs	Projected ISTS drawal (MW) as per IA	ISTS drawal as per data submitted by DICs
Chandigarh	271					
Delhi	4,606	4600	879	875	3727	3725
Haryana	6,904	7050	2560	2195	4344	4855
Himachal Pradesh	1,719	1670	468	351	1251	1319
Jammu & Kashmir	2,543		539		2004	
Punjab	6,530	6530	4134	4134	2396	2396
Rajasthan	12,747	13267	7219	9493	5528	3774
Uttar Pradesh	17,324	18733	9539	9867	7785	8866
Uttarakhand	1,970		851		1119	
Normalization Factor	0.92					

Generation Projection – Northern Region

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	BBMB	2118	-	-	2118	As per data given by BBMB	2131
2	Dadri Thermal	1465	-	-	1465	As per data given by NTPC	1200
3	Rihand	2831	-	-	2831		2795
4	Singrauli	1840	-	-	1840		1858
5	Unchahar	1451	-	-	1451		1421
6	Auraiya	453	-	-	453		150
7	Dadri CCPP	583	-	-	583		300
8	NAPS	413	-	-	413	-	
9	Jhajjar	1207	-	-	1207	Data given by APCPL Jhajjar	1414

Generation Projection – Northern Region …(2)

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
10	Dhauliganga	287	-	-	287	As per NHPC	284
11	Tanakpur	107	-	-	107	As per NHPC	80
12	Koteshwar	345	-	-	345	-	
13	Tehri	1052	-	-	1052		
14	Anta	332	-	-	332	As per data given by NTPC	150
15	RAAP B	367	-	-	367	-	
16	RAAP C	507	-	-	507	-	
17	AD Hydro	162	-	-	162	-	
18	Everest	100	-	-	100	-	
19	Karcham Wangtoo	1072	-	-	1072	-	

Generation Projection – Northern Region(3)

Back

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
20	Bairasul	110	-	-	110	As per NHPC	120
21	Chamera 1	555	-	-	555	As per NHPC	543
22	Chamera 2	236	-	-	236	As per NHPC	300
23	Chamera 3	232	-	-	232	As per NHPC	229
24	Naptha Jhakri	1602	-	-	1602	As per Naptha Jhakri	1610
25	Lanco Budhil	71	-	-	71	-	
26	Dulhasti	374	-	-	374	As per NHPC	390
27	Salal	713	-	-	713	As per NHPC	575
28	Sewa-II	128	-	-	128	As per NHPC	125
29	URI I HPS	486	-	-	486	As per NHPC	396
30	URI II HPS	239	-	-	239	As per NHPC	200
31	Sree Cement	190	-	-	190	-	
32	Parbati III	370	-	-	370	As per NHPC	365
33	Rampur HEP	448	-	-	448	As per data given by SJVN	449
34	Koldam	885	-	-	885	As per NTPC	792
35	Kishanganga	295	-	-	295	As per NHPC	220
36	Sainj HEP	102	-	-	102	-	
37	Tanda Stg-2		432	-	432	As per NTPC	433
38	Bhadhla Solar		-	-		-	

Demand and Generation Projection – Eastern Region

Entity	Projected Demand (MW) by IA	Demand as given by DICs	Projected Generation (MW) by IA	Generation data as given by DICs	Projected ISTS drawal (MW) as per IA	ISTS drawal as per data submitted by DICs
Bihar	4,950		110		4840	
DVC	2,944		4175		-1231	
Jharkhand	1,353		353		1000	
Odisha	4,449	4000	3794	4168	655	-168
West Bengal	7,325		4892		2433	
Sikkim	108					
Normalization Factor	0.92					

Generation Projection – Eastern Region…(1)

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	Chujachan	118	-	-	118	-	
2	MPL	996	-	-	996	-	
3	Teesta V	532	-	-	532	As per NHPC	527
4	Kahalgaon	2208	-	-	2208	As per data given by NTPC	2171
5	Farakka	1953	-	-	1953		1960
6	Talcher	931	-	-	931	-	
7	Rangeet	63	-	-	63	As per NHPC	62
8	Adhunik Power	384	-	-	384	-	
9	Barh	1208	-	-	1208	As per data given by NTPC	1238

Generation Projection – Eastern Region…(2)

Back

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
10	Kamalanga TPP (GMR)	605	-	-	605	-	
11	JITPL	626	-	-	626	As per data given by JITPL	1138
12	Jorthang	91	-	-	91	-	
13	Bhutan	832	713	-	1544	-	
14	Teesta-III	1016	-	-	1016	-	
15	Dikchu HEP	108	-	-	108		
16	Nabinagar BRBCL	704	-		704	-	
17	Tashideng	88	-	-	88	-	
18	Kanti Bijlee Stg-2 (KBUNL)		-	-	0	As per last quarter	350
19	Nabinagar STPS	620	-	-	620	-	
20	Darlipalli STPP ST-I		524	-	524	As per NTPC	560

Demand and Generation Projection – Western Region

Entity	Projected Demand (MW) by IA	Demand as given by DICs	Projected Generation (MW) by IA	Generation data as given by DICs	Projected ISTS drawal (MW) as per IA	ISTS drawal as per data submitted by DICs
Chattisgarh	4,088	4,019	2330	2253	1758	1766
Gujarat	16,429	16,400	10889	11852	5540	4548
Madhya Pradesh	12,442	13,302	5260	6164	7182	7138
Maharashtra	22,966	21,000	13913	13564	9053	7436
Daman & Diu	330	250			330	250
Dadra Nagar Haveli	815	650			815	650
Goa	651	500			651	500
ESIL	511	450			511	450
Normalization Factor	0.92					

Generation Projection – Western Region…(1)

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	Vindhyachal	4586	-	-	4586	As per NTPC	4415
2	Ratnagiri Dabhol	656	-	-	656	As per data given by Ratnagiri Dabhol	660
3	TAPS (1,2)	810	-	-	810	As per data given by TAPS	155
4	TAPS (3,4)						1080
5	JINDAL	314	-	-	314	As per data given by JPL	440
6	LANCO	545	-	-	545	As per data given by LANCO	573
7	NSPCL Bhilai	443	-	-	443	As per data given by NSPCL Bhilai	463
8	Korba	2442	-	-	2442	As per NTPC	2421
9	SIPAT	2829	-	-	2829	As per NTPC	2794
10	CGPL	3614	-	-	3614	As per CGPL	3800
11	Mauda	1845	-	-	1845	As per NTPC	2050
12	Gandhar	514	-	-	514	As per NTPC	350

Generation Projection – Western Region … (2)

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
13	Kawas	535	-	-	535	As per NTPC	250
14	SSP	1104	-	-	1104	As per SSP	40
15	KAPS	416	-	-	416	As per data given by KAPS	415
16	Essar Mahan	670	-	-	670	As per data given by Essar Mahan	1128
17	BALCO	416	-	-	416	As per BALCO	400
18	KSK Mahanadi	1680	-	-	1680	As per data given by KSK Mahanadi	1682
19	Sasan UMPP	3867	-	-	3867	As per data givrn by Sasan UMPP	3830
20	JPL Stg-2	1116	-	-	1116	As per data given by JPL	1140
21	DGEN	89	-	-	89	As per data given by DGEN	400
22	DB Power	1031	-	-	1031	As per data given by DB Power	1031
23	Korba West(REGL)	191	-	-	191	As per data given by Korba West	350
24	Dhariwal	284	-	-	284	As per data given by Dhariwal	273
25	GMR Chattishgarh	1097	-	-	1097	As per data given by GMR Chhattisgarh	800
26	JP Nigrie	1220	-	-	1220	As per data given by JP Nigrie	1241
27	GMR Warora	541	-	-	541	As per data given by GMR Warora	520

Generation Projection – Western Region (3)

Back

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
28	ACBIL+ Spectrum+MCCPL	623	-	-	623	As per data given by ACBIL	553
29	MB Power	1024	-	-	1024	As per data given by MB Power	900
30	RKM Power	314	-	-	314	As per data given by RKM Power	900
31	Jhabua Power	521	-	-	521	As per Jhabua Power	562
32	TRN Energy	457	-	-	457	As per data given by TRN Energy	549
33	Sholapur STPP	541	432	-	973	As per NTPC	970
34	Lara STPP	796	-	-	796		560
35	SKS Power	369	-	-	369	As per SKS Power	550
36	Gadarwada	436	-	-	436	As per NTPC	560
37	Khargone STPS		864		864	As per NTPC	867
38	Naranpar_Ostro		-	-		As per last Quarter	125
39	Rewa_Solar (Acme+Arinsun+Badwar_Mahinder)		-	-		As per last Quarter	0

Generation Projection – Western Region (4)

Back

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
40	Vadwa_Green Infra(wind)	-	-	-	-	As per last Quarter	125
41	Roha Green Infra (Wind)	-	-	-	-	As per last Quarter	113
42	Ratadiya AGEMPL	-	-	-	-	As per last Quarter	88
43	Dayapar Inox wind	-	-	-	-	As per last Quarter	100
44	Bhuvad_Renew wind	-	-	-	-	As per last Quarter	92
45	Alfanar wind	-	-	-	-	50% of installed capacity	69.3

Demand and Generation Projection – North Eastern Region

Entity	Projected Demand (MW) by IA	Demand as given by DICs	Projected Generation (MW) by IA	Generation data as given by DICs	Projected ISTS drawal (MW) as per IA	ISTS drawal as per data submitted by DICs
Arunachal Pradesh	139	137	0	10	139	127
Assam	1,547	1700	300	296	1247	1404
Manipur	213	242	0		213	242
Meghalaya	361	385	241	238	120	147
Mizoram	123	135	49	59	74	76
Nagaland	156	156	13	16	143	140
Tripura	235	420	54	141	181	279
Normalization Factor	0.92					

Generation Projection – North-Eastern Region

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	AGTPP, NEEPCO	126	-	-	126	As per NEEPCO	128
2	Doyang, NEEPCO	65	-	-	65	As per NEEPCO	72
3	Kopili , NEEPCO	151	-	-	151	As per NEEPCO	0
4	Kopili 2, NEEPCO	26	-	-	26	As per NEEPCO	22
5	Khandong, NEEPCO	47	-	-	47	As per NEEPCO	44
6	Ranganadi, NEEPCO	411	-	-	411	As per NEEPCO	401
7	AGBPP_Kathalguri	242	-	-	242	As per NEEPCO	220
8	Loktak, NHPC	105	-	-	105	As per data given by NHPC	105

Generation Projection – North-Eastern Region

Back

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
9	Palatana GBPP	584	-	-	584	As per data given by Palatana GBPP	680
10	Bongaigaon_NTPC	695	-	-	695	As per NTPC	615
11	Pare NEEPCO	116	-	-	116	As per NEEPCO	112
12	Kameng HEP NEEPCO		297		297	As per NEEPCO	300

Demand and Generation Projection – Southern Region

Entity	Projected Demand (MW) by IA	Demand as given by DICs	Projected Generation (MW) by IA	Generation data as given by DICs	Projected ISTS drawal (MW) as per IA	ISTS drawal as per data submitted by DICs
Andhra Pradesh	8,911	8850	5538	8862	3373	-12
Telangana	10,713		6657		4056	
Karnataka	11,900	11900	9712	9794	2188	2106
Kerala	3,729	3300	1327	1500	2402	1800
Tamil Nadu	14,096	14233	7039	7546	7057	6687
Pondicherry	411		0		411	
Goa_SR	80				80	
Normalization Factor	0.92					

Generation Projection – Southern Region…(1)

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	Ramagundam	2364	-	-	2364	As per NTPC	2421
2	Simhadri 2	906	-	-	906		943
3	Simhadri 1	954	-	-	954		943
4	SEPL	0	-	-	0	-	
5	Lanco Kondapalli	0	-	-	0	-	
6	Kaiga	837	-	-	837	-	
7	NEYVELI (EXT) TPS	401	-	-	401	-	
8	NEYVELI TPS-II	1266	-	-	1266	-	
9	NEYVELI TPS-II EXP	416	-	-	416	-	

Generation Projection – Southern Region…(2)

Back

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Jan'20 to 30th Jun'20 (B)	Generation CoD from 1st Jul'20 to 30th Sep'20 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
10	MAPS	231	-	-	231	-	
11	Vallur	1263	-	-	1263	-	
12	Meenakhshi	43	-	-	43	-	
13	Coastal Energen	759	-	-	759	-	
14	Kudankulam	1314	-	-	1314	-	
15	Tuticorin TPP	958	-	-	958	-	
16	Sembcorp Energy India Ltd.	1132	-	-	1132	-	
17	IL&FS	1097	-	-	1097	-	
18	Talcher Stage-II	1901	-	-	1901	-	
19	Sembcorp Gayatri Power Ltd.	1247	-	-	1247	-	
20	Kudgi STPS	1447	-	-	1447	As per NTPC	2050
21	Neyveli New Thermal Power	324	-	330	654	-	
22	Green Infra_SR		-	-		As per last Quarter	125
23	Mytrah		-	-			125
24	Orange		-	-			100
25	Betam		-	-			25

Expected Generation addition – Northern Region

Back

	Generation declared Commercial from 1st Jan'20 to 30th Jun'20					Generation declared/expected to be declared Commercial from 1st Jul'20 to 30th Sep'20				
Entity	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total
			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)

Expected Generation addition – Western Region

Back

	Generation declared Commercial from 1st Jan'20 to 30th Jun'20					Generation declared/expected to be declared Commercial from 1st Jul'20 to 30th Sep'20				
Entity	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total
			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)
Khargone STPS	Khargone STPS	1	660	432	432					
		2	660	432	432					
Sholapur STPP	Sholapur STPP	2	660	432	432					

Expected Generation addition – Eastern Region

Back

	Generation declared Commercial from 1st Jan'20 to 30th Jun'20					Generation declared/expected to be declared Commercial from 1st Jul'20 to 30th Sep'20				
Entity	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total
			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)
Odisha	OPGC Stage-II	4	660	432	432					
Mangdechu HEP	Mangdechu HEP	1	180	178	713					
	Mangdechu HEP	2	180	178						
	Mangdechu HEP	3	180	178						
	Mangdechu HEP	4	180	178						
Darlipalli STPP ST-I	Darlipalli STPP ST-I	1	800	524	524					

Expected Generation addition – Southern Region

Back

	Generation declared Commercial from 1st Jan'20 to 30th Jun'20					Generation declared/expected to be declared Commercial from 1st Jul'20 to 30th Sep'20				
Entity	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total
			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)
Neyveli New Thermal Power						Neyveli New Thermal Power	2	500	330	330
Telangana	Bhadradri TPP (TSGENCO)	1	270	178	178					

Expected Generation addition –North Eastern Region

Back

	Generation declared Commercial from 1st Jan'20 to 30th Jun'20					Generation declared/expected to be declared Commercial from 1st Jul'20 to 30th Sep'20				
Entity	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total
			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)
Kameng HEP NEEPCO	Kameng HEP	1	150	149	297					
		2	150	149						
Assam	Namrup Replacement Power Project	ST	36	24	24					