

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: 14/06/2019

To

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

Subject: Minutes of the 2nd Meeting of Validation Committee for the Application Period from 1st July, 2019 to 30th September, 2019 for implementation of CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010

Sir,

Please find enclosed herewith minutes of the **2nd Meeting of** the Validation Committee for the **year 2019-20 (Application Period from 1st July, 2019 to 30st September, 2019)** for implementation of CERC (Sharing of Inter-State Transmission Charges and Losses) **Regulations, 2010** held on 31.05.2019 in the NRLDC Conference Room at New Delhi 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	Shri S.C Shrivastava, Chief (Engg)	Central Electricity Regulatory Commission, 3 rd & 4 th Floor, Chanderlok Building, 36-Janpath, New Delhi - 110001
2.		Shri P.K. Awasthi, Joint Chief (Fin.)	Central Electricity Regulatory Commission 3 rd & 4 th Floor, Chanderlok Building, 36-Janpath, New Delhi -110001
3.	CEA	Chief Engineer, (PSP & PA-II) Division	Central Electricity Authority 3 rd Floor, N-Wing, Sewa Bhawan, R.K. Puram, New Delhi - 110 066
4.		Director, GM Division	Central Electricity Authority 6 th 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 Chief General Manager, NLDC	National Load Despatch Centre B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016
12.		Shri V.Suresh Chief General Manager, NERLDC	North Eastern Regional Load Despatch Centre, Lower Nongrah, Dongtieh, Lapalang, Shillong – 793006
13.	NRPC	Shri Naresh Bhandari, Member Secretary	Northern Regional Power Committee 18-A Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-11
14.	WRPC	Shri A. Balan,	Western Regional Power Committee

Sl. No.	Name of the Organizations	Name of the nominated persons	Address
		Member Secretary	Plot No. F-3, MIDC Area, Marol, Opp : SEEPZ, Andheri (East), Mumbai-400093
15.	SRPC	Shri Asit Singh, Member Secretary (I/c)	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 1 st Floor, VidyutBhawan, Bailey Road, Patna-21, Bihar
18.	NERPC	Shri P.K Mishra 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, Chief Engineer, 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	Shri A.K Gupta, 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	SJVN Ltd, Sharma Niwas Below BCS, New Shimla – 171009.

Minutes of the 2nd Meeting of Validation Committee for the Application Period from 1st July, 2019 to 30st September, 2019 held on 31st May, 2019 at NRLDC, New Delhi.

1. The Chairman of the Validation Committee, Shri S.C Shrivastava, Chief (Engg.), CERC welcomed the participants present in NRLDC Conference Room and also the other participants of RPCs, RLDCs, STUs and Generating Companies present at Conference Room of WRLDC, SRLDC, ERLDC, NERLDC, SLDCs of Gujarat, Madhya Pradesh, Chhattisgarh, Punjab, U.P, Haryana, Himachal Pradesh, J&K, Rajasthan, Delhi, DVC, Jharkhand, Andhra Pradesh, Telangana, Tamil Nadu, Kerala, Karnataka, Bihar, Odisha, West Bengal, Tripura and Maharashtra through video conferencing. List of the participants is enclosed at **Annexure-I**.
2. 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 Second Quarter of 2019-20. The presentation shown during the Validation Committee Meeting dated 31.05.2019 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% since most of the hydro units will be able to generate at 100% load for the peak hours during July to September due to high hydro season. For new thermal units and new gas based stations, peak injection would be considered as 70% and 30% of ex-bus capacity, respectively. In case of non-submission of data by the DICs, for the purpose of Base case preparation
 - (a) Peak Demand: Forecasted peak demand to be calculated from last 3 years' data taken from CEA website as per provisions of the Regulations.
 - (b) Peak Generation: Forecasted peak generation to be calculated from last 3 years' SEM/SCADA data available with RLDCs as per the provisions of the Regulations.
4. **Demand Projection for Application Period from 1st July, 2019 to 30th September, 2019 (Q2 of 2019-20).**

4.1 Northern Region:

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

4.2 Eastern Region:

- (i) Projected demand by IA for Bihar was 5653 MW. During the meeting, Bihar representative suggested its demand projection as 5500 MW.
- (ii) Projected demand by IA for Jharkhand was 1302 MW. During the meeting, Jharkhand representative suggested its demand projection as 1340 MW.
- (iii) Projected demand by IA for West Bengal was 9203 MW. During the meeting, ERLDC representative suggested its demand projection as 9150 MW.
- (iv) Projected demand by IA for Sikkim was 73 MW. During the meeting, ERLDC representative has suggested to take demand projection as 85 MW.
- (v) Projected demand by IA for Odisha was 5367 MW. Odisha had submitted its projected demand as 4582 MW. During the meeting, representative of Odisha submitted that its demand be taken as 4580 MW. On a query by Chief (Engg.) regarding ISTS drawl of Odisha as >2000 MW in same quarter for previous year and the projection of ISTS drawl by IA was also 1727 MW, Odisha said, the drawl is due to unit outage of Vedanta and 100 MW Open access availed by Vedanta. Chief (Engg.) stated that 800 MW projected ISTS drawl doesnot seem to be realistic estimate looking at historical ISTS drawl. ERLDC informed ISTS drawl of Odisha for previous day as 1800 MW. Further Odisha said its average peak drawl will be around 4900 MW and average peak ISTS drawl will be 900 MW. Odisha kept insisting that its ISTS drawal is due to Vedanta drawal which should not be considered under Odisha drawal. It was decided to take demand projection as 5000 MW as per submission of Odisha and keeping in view historical ISTS drawl.

The Demand figures as suggested above were agreed.

4.3 Western Region:

- (i) Projected demand for Gujarat by IA was 17249 MW. Prior to meeting, Gujarat has submitted its demand as 16,100 MW. During the meeting Gujarat representative has suggested to consider demand projection as 16700 MW.
- (ii) Projected demand for Madhya Pradesh by IA was 9097 MW. Prior to meeting, Madhya Pradesh has submitted its demand as 10280 MW. During the meeting Madhya Pradesh representative suggested to consider demand projection as 9000 MW.
- (iii) Projected demand for DNH by IA was 822 MW. During the meeting WRLDC has suggested to consider demand projection for DNH as 810 MW.

- (iv) Projected demand for Goa by IA was 588 MW. During the meeting WRLDC has suggested to consider demand projection for Goa as 540 MW.
- (v) Maharashtra has submitted its demand projection 21200 MW. On a query raised by Chief Engg (CERC) WRLDC has submitted the LGBR figure for Maharashtra as 19200 MW, 19100 MW, 21200MW, for the month of July 19, August 19 , September 19 respectively. Accordingly demand projection Maharashtra as 21200 MW was agreed.

The Demand figures as suggested above were agreed. The other demand figures as submitted by DICs were agreed.

4.4 Southern Region:

- (i) Demand projections for SR constituents as submitted by them were agreed.

The Demand figures as suggested above were agreed.

4.5 North Eastern Region: Demand projections for NER constituents as agreed at OCC and submitted by them were agreed.

The Demand figures as suggested above were agreed.

5. Generation Projection for Application Period from 1st July, 2019 to 31st September, 2019 (Q2 of 2019-20).

5.1 Northern Region:

- (i) Projected generation by IA for AD Hydro was 242 MW. Representative of NRLDC submitted to the generation projection of AD Hydro as 211 MW instead of 242 MW keeping in view of the installed capacity of 192 MW plus 10% overload capacity .
- (ii) Projected generation by IA for Karcham Wangtoo was 1172 MW. Representative of NRLDC submitted generation projection of Karcham Wangtoo as 1087 MW instead of 1172 MW keeping the view of Installed capacity plus 10% overload capacity.
- (iii) Projected generation by IA for Kisanganga was 224 MW. NHPC had submitted the generation projection as 330 MW. Representative of NRLDC suggested that the generation projection of Kisanganga as 230 MW instead of 330 MW. NHPC has agreed with the same.

The Generation figures as suggested above were agreed. The other generation figures as agreed at OCC were agreed.

5.2 Eastern Region:

- (i) Projected generation by IA for Bihar was 177 MW. During the meeting, Bihar has submitted its generation as 300 MW.
- (ii) Projected generation by IA for Jharkhand was 252 MW. During the meeting, representative of Jharkhand suggested that generation may be taken as 365 MW.
- (iii) Projected generation by IA for Odisha was 3640 MW. Prior to meeting Representative of Odisha submitted generation as 3780 MW. During the meeting, Chief (Engg.) asked Odisha to provide breakup of projected generation which Odisha provided as 2000 MW from thermal and 1600 mw from hydro. Odisha also stated that it has considered peak hydro. It was decided to consider generation from Odisha as 3250 MW based on its historical ISTS drawl.
- (iv) Member present at ERLDC suggested following changes:
 - (a) Generation from Chujachan may be taken as 110 MW instead of 111 MW
 - (b) Generation from Teesta V may be taken as 510 MW instead of 518 MW.
 - (c) Generation from Rangit may be taken as 60 MW instead of 62 MW.
 - (d) Generation from JITPL may be taken as 500 MW instead of 714 MW as one unit is out of service.
 - (e) Generation from Jorthang may be taken as 96 MW instead of 105 MW
 - (f) Generation from Dikchu HEP may be taken as 96 MW instead of 109 MW.
 - (g) Generation from Nabinagar BRBCL may be taken as 670 MW instead of 451 MW.
 - (h) Generation from Tashiding may be taken as 97 MW instead of 141 MW.

The Generation figures as suggested above were agreed.

5.3 Western Region:

- (i) Regarding Gujarat generation WRLDC has submitted that 2 generators have been added and share of Adani has increased by 434 MW and also Wanakbori TPS has come. Peak ISTS drawl for Gujarat will be around 4700 MW. Representative of Gujarat has submitted that is generation projection may be taken as 12000 MW.
- (ii) Member present at WRLDC suggested following changes:
 - (a) Generation from Ratnagiri Dabhol may be taken as 650 MW instead of 615 MW.
 - (b) Generation from TAPS (1,2,3,4) may be taken as 1300 MW instead of 980 MW as all units are in service.
 - (c) Generation from Lanco may be taken as 573 MW instead of 542 MW
 - (d) Generation from CGPL may be taken as 3300 MW instead of 3615 MW.
 - (e) Generation from SSP may be taken as 400 MW instead of 548 MW.
 - (f) Generation from KAPS may be taken as 420 MW instead of 0 MW.

- (g) Generation from Essar Mahan may be taken as 1123 MW instead of 1152 MW.
- (h) Generation from GMR Chattishgarh may be taken as 1000 MW instead of 618 MW.
- (i) Generation from JP Nigrie may be taken as 1034 MW instead of 1255 MW.
- (j) Generation from Sholapur STPP may be taken as 650 MW instead of 970 MW considering 1 unit is running.
- (k) Generation from KSK Mahanadi may be taken as 1200 MW instead of 1029 MW.

The Generation figures as suggested above were agreed.

5.4 Southern Region:

- (i) Projected generation by IA for Karnataka was 6167 MW. During the meeting, representative of Karnataka suggested to consider generation projection as 7730 MW.
- (ii) Member present at SRLDC suggested following changes:
 - (a) Generation from Ramagundam may be taken as 2250 MW instead of 2431 MW.
 - (b) Generation from Simhadri I may be taken as 943 MW instead of 948 MW.
 - (c) Generation from Simhadri II may be taken as 943 MW instead of 948 MW.
 - (d) Generation from Kaiga may be taken as 786 MW instead of 831 MW.
 - (e) Generation from Neyveli (Ext) TPS may be taken as 384 MW instead of 426 MW.
 - (f) Generation from Neyveli TPS-II may be taken as 1134 MW instead of 1203 MW.
 - (g) Generation from Neyveli TPS-II Exp may be taken as 225 MW instead of 319 MW.
 - (h) Generation from MAPS may be taken as 195 MW instead of 307MW.
 - (i) Generation from Vallur may be taken as 928 MW instead of 1128 MW.
 - (j) Generation from Coastal Energen may be taken as 558 MW instead of 692 MW.
 - (k) Generation from kundankulam may be taken as 1844 MW instead of 1412 MW.
 - (l) Generation from Tuticorin TPP may be taken as 940 MW instead of 878 MW.
 - (m) Generation from IL&FS may be taken as 540 MW instead of 607 MW.
 - (n) Generation from Talcher Stage-II may be taken as 1875 MW instead of 1759 MW.
 - (o) Generation from Kudgi STPS may be taken as 1500 MW instead of 2050 MW considering one unit is out of service.
 - (p) Generation from NNTP of NLC may be taken as 250 MW. Instead of 330 MW

The Generation figures as suggested above were agreed.

5.5 North Eastern Region:

- (i) Projected generation by IA for Assam was 304 MW. Prior to meeting, Assam has submitted its Generation as 228 MW. During the meeting, representative of Assam suggested to consider generation projection as 287 MW.

The Generation figures as suggested above were agreed.

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 July 2019 – September 2019 period were projected by Implementing Agency based on operational experience and was put up for validation before the Committee.
- (ii) Representative of Harayana stated that HVDC set points for Champa Kurukshetra should be taken as 500 MW each pole & for Mundra-Mahindergarh as 850 MW for each pole. Representative of NLDC clarified that projected set point for Champa Kurukshetra as 2000 MW and Mundra-Mohindergarh as 1700 MW are taken keeping in view peak demand scenario in upcoming quarter.
- (iii) Representative of WRLDC has submitted that set points for Chandrapur-padghe may be taken as 450 MW for each pole keeping in view of filter problem.
- (iv) After discussion, following HVDC set points are finalized.

7. New

HVDC Name	Set points (in MW) to be considered in Base case
Mundra-Mahindergarh Pole-1	850
Mundra-Mahindergarh Pole-2	850
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	450
Chandrapur-Padghe Pole-2	450
BNC-Agra Pole-1 & Pole-2	500 (towards NR)
Alipurduar-Agra Pole-1 & Pole-2	500
Champa-Kurukshetra Pole-1 & Pole-2	2000

Assets:

(i) New lines to be included for this quarter as proposed by IA.

Name of the Transmission line	ISTS Licensee	CoD as per TSA	Anticipated CoD as submitted by transmission licensee	Remarks
400 kV Aligarh – Prithala	Gurgaon - Palwal Transmission Limited	May,2019	May-19	IA informed that lines are not expected by 31st July,2019 due to some issues related to forest clearance,Not to be considered in PoC for Q2 of 2019-20.
400kV Bays at Dhanoda (HVPNL) Substation		May,2019	May-19	
400/220 kV , 2 x 500 MVA GIS substation at Kadarpur along with 1 No. of 125 MVAR Bus Reactor		May,2019	May-19	
GIS Substation at Kadarpur along with 1 No. of 125 MVAR Bus Reactor		May,2019	May-19	
400/220 kV, 2 x 500 MVA GIS Substation at Prithala		May,2019	May-19	
400kV Prithala-Kadarpur		May,2019	May-19	
400/220 kV, 2 x 500 MVA GIS Substation at Sona Road		Sep,2019	May-19	No CEA certificate has been provided for early commissioning. Not to be considered under POC for Q2 of 2019-20.
400kV Kadarpur- Sohna Road		Sep,2019	May-19	
LILO of Gurgaon- Manesar 400kV D/c Quad Line at Sohna Road S/s		Sep,2019	May-19	
765kV Khandwa-Dhule	Khargone Transmission Limited	July,2019	June,2019	To be considered in PoC for Q2 of 2019-20.
765kV Line Dhule bays for Khandwa-Dhule		July,2019	June,2019	
Khandwa Substation 2*1500 MVA 765/400 kV		July,2019	June,2019	
765kV Khandwa-Indore		July,2019	June,2019	
400kV Khargone TPP switchyard-Khandwa pool		July,2019	June,2019	Not to be considered in PoC. Dedicated line shall be considered under provision of CERC Connectivity Regulations as per

Name of the Transmission line	ISTS Licensee	CoD as per TSA	Anticipated CoD as submitted by transmission licensee	Remarks
				Regulation no 8(8). No early commissioning from CEA hence will be considered as per Order 284/ADP/2015
LILO of one ckt of 400kV Khandwa-Rajgarh D/c line Khargone TPP		Feb,2018	March,2018	Not to be considered in PoC. Dedicated line shall be considered under provision of CERC Connectivity Regulations as per Regulation no 8(8) as already noted during Validation Committee meeting – minutes dated 13.12.2017
LILO of one circuit of Padghe-Aurangabad at Pune	Chhattisgarh WR Transmission Limited		15th May 2019	It is being considered since 2018-19_Q3. It is not commissioned yet. Not to be considered in PoC for Q2 of 2019-20. As decided in VC meeting for Q3 2013-14- minutes dated

Name of the Transmission line	ISTS Licensee	CoD as per TSA	Anticipated CoD as submitted by transmission licensee	Remarks
				19.08.2013
400kV Alipurduar- Siliguri D/C Line	Alipurduar Transmission Limited	05th January,2019	July, 2019	To be considered in PoC for Q2 of 2019-20.
400kV OPGC-Jharsuguda D/C	Odisha Generation Phase-II transmission Ltd			Not to be considered in PoC. Dedicated line shall be considered under provision of CERC Connectivity Regulations as per Regulation no 8(8) (refer VC minutes dated 07.09.2017, 13.12.2017 and 10.07.2018). Further the issue is raised in petition no. 128/MP/2019 in which order is yet to be issued.

- (ii) 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.

List of Participants in the 2nd meeting for 2019-20 of the Validation Committee held on 31st May, 2019 at New Delhi.

CERC

1. Shri S.C.Shrivastava, Chief (Engg.) – In Chair
2. Shri P.K Awasthi, Joint Chief (Finance)
3. Ms Shilpa Agarwal, Joint. Chief (Engg.)
4. Shri Abhishek Rohilla Dy Chief (Engg.)
5. Ms Sonika Hayaran, Research Officer

CEA

6. Shri Ishan Sharan, Director
7. Shri Pranay Garg, Asstt.Director
8. Shri Suyash Ayush Verma, Astt. Director

POWERGRID

9. Shri Ajay Upadhyay, CM (Comm.)
10. Shri Bhaskar Wagh, Manager

NLDC

11. Shri Debasis De, Chief GM
12. Shri Gaurav Verma, Manager
13. Shri Sanny Machal, Dy. Manager

NRLDC

14. Shri S. S. Barpanda, ED
15. Shri Gaurav Malviya, Dy. Manager
16. Rinku Narang, Technician

WRPC

17. Shri A. Balan, Member Secretary
18. Shri J.K. Rathode, SE (Opn)
19. Shri D.N. Gawari, EE (Opn.)

WRLDC

20. Ms. Pushpa. GM
21. Ms Chitrankshi, Chief Manager

ERPC

22. Shri Saurav Kumatr Sahay, Manager
23. Shri Mohan Jha, Consultant, ERPC

ERLDC

24. Shri Saurav Kr Sahay, Manager

SRPC

25. Shri S.P.Koyar, Sr. GM

26. Shri T Venakteswarlu, SE
27. Shri J B Len, EE
28. Ms. Anusha Das J, AEE
29. K.P. Madhu, EE
30. Shri Abishek R.S, Astt. Manager

SRLDC

31. Shri Madhukar Goodelli, Chief Manager
32. Shri L. Sharath Chand, Dy. Manager
33. Shri Pradeep Reddy, Manager

Telangana SLDC

34. Shri Suresh babu, SE
35. Ms. Madhavi, DE
36. Shri Rajashekar, AE
37. Shri G.Raghu, ADE
38. Shri N.Rajshekar, AE
39. Ms. Swapna, ADE

Taminlnadu SLDC

40. Shri Senthil Kumar

KPTCL SLDC

41. Shri B.V. Malleshappa, EE(E)
42. Shri D. Chethan EE(PSS-S)

AP Transco

43. Shri B. Suresh, AEE

KSEB SLDC

44. Ms Indira K , AEE
45. Ms. Beno Paul, EE
46. Ms. Anu S. Ramesh, AE

GRIDCO

47. Manas Kumar Das Director (Commercial)
48. S.K.Maharana, AGM (Electrical)

NTPC

49. Shri P.B. Venkatesh, AGM (Comm)
50. Uday Shankar, DGM

NERLDC

51. Samar Chandra de, GM
52. Shri Palash Jyoti Bora, Dy. Manager
53. Momai Dey, Dy. Manager
54. Farooque Iqbal, Dy. Manager
55. Sachin Kr. Singh, Astt. Manager

NERPC

56. Shri S. M. Aimol, Dy. Director

SLDC Orissa

57. Shri B. Panda AGM(Electrical)
58. Shri B.R. Baberia Dy. Manager

SLDC Haryana

59. Shri Ravi Sher Singh, SE/STU
60. Sunnu Adlakha, AEE/ISMC

SLDC Maharashtra

61. Shri. D. J. Kolhe (E.E.-Operation)
62. Shri. S. R. Lomate (Ad.E.E.-Operation)

SLDC Chhattisgarh

63. Shri. Y.K Rao - Superintending Engineer (SO)
64. Shri. Virendra Sahu - Assistant Engineer
65. Ms. Namita Vibha Lakra - Assistant Engineer

SLDC Gujarat:

66. Shri B M Shah (Deputy Engineer)
67. Shri G J Mistry(Deputy Engineer)
68. Shri V K Virparia (Junior Engineer)

SLDC Madhya Pradesh

69. Shri Shankar Chakraborty(E. E.)
70. Shri R P Rakhya (Asst. Engineer)
71. Shri Aarif khan(Junior Engineer)

**Point of Connection Charges and Losses
Computation
July 2019 - Sep 2019 (Q2)**

**Meeting of the Validation Committee
Date : 31st May, 2019**

**Venue: NRLDC Conference Room,
New Delhi**

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 Q1 Case (July'19 - Sep'19)
 - ▣ 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 June, 2019.

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: $\frac{\text{Projected All India Peak Demand Met}}{\text{Sum of projected met for all states}}$

Load Generation Projection

New Units	Loading
Thermal Units with DOCO from 1st Oct'18 to 30th June'19	70%
Hydro Units with DOCO from 1st Oct'18 to 30th June'19	100%
Gas Units with DOCO from 1st Oct'18 to 30th June'19	30%

Demand and Generation Projections



- Northern Region
- Eastern Region
- Western Region
- North-Eastern Region
- Southern Region

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
Bhadravati_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 NR)
Alipurduar-Agra Pole-1 & Pole-2	500
Champa-Kurukshetra Pole-1 & Pole-2	2500

Data not Received

- **Jharkhand**
- **Bihar**
- **West Bengal**
- **Sikkim**
- **Karnataka**
- **Pondicherry**
- **Jammu & Kashmir**
- **Chandigarh**
- **Goa**
- **DNH**

Data not Received

- **AD Hydro**
- **Everest**
- **Sree cement**
- **Maithon Power Ltd.**
- **Adhunik Power**
- **GMR Kamalanga**
- **Lanco Amarkantak**
- **SEPL+MEPL**
- **LANCO Kondapalli**
- **NLC**
- KSK Mahanadi**
- Tehri**
- SGPL**
- IL&FS**
- Tuticorin TPP**
- Semcorp Energy India Ltd.**
- Coastal Energen**
- Korba West**

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.
- ❑ NRSS-XXXVI Transmission Ltd.
- ❑ Maheshwaram Trans. Ltd.
- ❑ Parbati Koldam Trans. Company Ltd.
- ❑ Gurgaon-Palwal Trans. Ltd.
- ❑ Khargone Trans. Ltd.

YTC Data received from Transmission Licensees... (2)

- ❑ Odisha Generation Phase-II Trans. Ltd.
- ❑ Teestavalley Power Transmission Ltd.
- ❑ Jindal Power 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
- ❑ Warora-Kurnool Transmission Limited
- ❑ Aravali Power Company Pvt. Ltd.
- ❑ Jaypee Powergrid Ltd.
- ❑ Raichur Sholapur Transmission company Ltd
- ❑ Patran Trans. Co. Ltd.

YTC Data received from Transmission Licensees... (3)

- ▣ Kudgi Trans. Ltd.
- ▣ Powerlinks Transmission Ltd.
- ▣ 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
- ▣ Torrent Power Grid Ltd.
- ▣ Power Grid Corporation of India Limited

YTC Data not received

- ▣ North East Transmission Company Ltd.
- ▣ Alipurduar Transmission Limited

YTC Data received from States

- ▣ Karnataka
- ▣ Assam
- ▣ Madhya Pradesh
- ▣ Delhi

List of new assets

Name of the Transmission Asset	CoD as per TSA	As per CEA website	Anticipated/ Actual CoD
Gurgaon- Palwal Transmission Limited			
400 kV Aligarh – Prithala	May,2019		May 2019
400kV Bays at Dhanoda (HVPNL) Substation	May,2019		May 2019
400/220 kV , 2 x 500 MVA GIS substation at Kadarapur along with 1 No. of 125 MVAR Bus Reactor	May,2019		May 2019
GIS Substation at Kadarapur along with 1 No. of 125 MVAR Bus Reactor	May,2019		May 2019
400/220 kV, 2 x 500 MVA GIS Substation at Prithala	May,2019		May 2019
400/220 kV, 2 x 500 MVA GIS Substation at Sona Road	Sep,2019		May 2019
400kV Kadarapur- Sohna Road	Sep,2019		May 2019
LILO of Gurgaon- Manesar 400kV D/c Quad Line at Sohna Road S/s	Sep,2019		May 2019
400kV Prithala-Kadarapur	May,2019		May 2019

List of new assets... (2)

Name of the Transmission Asset	CoD as per TSA	As per CEA website	Anticipated/ Actual CoD
Khargone Transmission Limited			
765kV Khandwa-Dhule	July,2019		June 2019
765kV Line Dhule bays for Khandwa-Dhule	July,2019		June 2019
Khandwa Substation 2*1500 MVA 765/400 kV	July,2019		June 2019
765kV Khandwa-Indore	July,2019		June 2019
400kV Khargone TPP switchyard- Khandwa pool	July,2019		June 2019
LILO of one ckt of 400kV Khandwa-Rajgarh D/c line Khargone TPP	Feb,2018		March 2018

List of new assets... (3)

Name of the Transmission Asset			Anticipated/ Actual CoD
Chhattisgarh WR Transmission Limited			
LILO of one circuit of Padghe-Aurangabad at Pune			15 th May 2019
Note: It is being considered since 2018-19_Q3. Not commissioned yet.			
Odisha Generation Phase-II transmission Ltd			
<ul style="list-style-type: none"> ➤ Both the lines 400kV OPGC-Jharsuguda D/c and 765kV Raipur-Jharsuguda commissioned. ➤ Cost of 765kV Raipur-Jharsuguda D/c being considered in PoC ➤ Cost of 400kV OPGC-Jharsuguda D/c being considered for bilateral billing as generator not ready ➤ OPGC Stage –II U#4 was synchronized on 26th Dec'18 and injecting infirm power ➤ U#3 is expected to be commissioned by 30th June'19 			

List of new assets... (4)

Name of the Transmission Asset	CoD as per TSA	As per CEA website	Anticipated/ Actual CoD
6. Alipurduar Transmission Limited			
400kV Alipurduar- Siliguri D/C Line	05-Jan-19	May-19	July-19



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	327				327	
Delhi	6,291	6,295	1,401	1,092	4,890	5,203
Haryana	9,782	10,070	2,750	3,000	7,031	7070
Himachal Pradesh	1,550	1,478	1,051	909	500	569
Jammu & Kashmir	2,394		1,063		1,331	
Punjab	12,292	12291	6,139	6,139	6,153	6,152
Rajasthan	12,055	11,500	8,400	8,379	3,655	3,121
Uttar Pradesh	20,961	22,000	9,940	11,200	11,021	10,800
Uttarakhand	2,162	2,108	1,004	1,200	1,158	908
Total	67,814					
Normalization Factor	0.90					

Generation Projection – Northern Region ²³

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	BBMB	2457	-	-	2457	As per data given by BBMB	2469
2	Dadri Thermal	1717	-	-	1717	As per data given by NTPC	1200
3	Rihand	2919	-	-	2919		2807
4	Singrauli	1777	-	-	1777		1863
5	Unchahar	969	-	-	969		1400
6	Auraiya	313	-	-	313		150
7	Dadri CCPP	662	-	-	662		300
8	NAPS	368	-	-	368	As per data given by NPCIL	440
9	Jhajjar	1434	-	-	1434	Data given by APCPL Jhajjar	1414

Generation Projection – Northern Region ...(2) 24

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
10	Dhauliganga	292	-	-	292	As per NHPC	280
11	Tanakpur	99	-	-	99		97
12	Koteshwar	407	-	-	407	As per data given by Koteshwar	400
13	Tehri	1024	-	-	1024		
14	Anta	257	-	-	257	As per data given by NTPC	150
15	RAAP B	379	-	-	379	-	
16	RAAP C	440	-	-	440	-	
17	AD Hydro	242	-	-	242	-	
18	Everest	105	-	-	105	-	
19	Karcham Wangtoo	1172	-	-	1172	-	

Generation Projection – Northern Region(3)

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S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
20	Bairasul	180	-	-	180	As per NHPC	120
21	Chamera 1	554	-	-	554		540
22	Chamera 2	309	-	-	309		304
23	Chamera 3	251	-	-	251		231
24	Naptha Jhakri	1635	-	-	1635	As per SJVN	1605
25	Lanco Budhil	75	-	-	75	-	
26	Dulhasti	414	-	-	414	As per NHPC	390
27	Salal	713	-	-	713		690
28	Sewa-II	133	-	-	133		129
29	URI I HPS	512	-	-	512		480
30	URI II HPS	243	-	-	243		240
31	Sree Cement	251	-	-	251	-	
32	Parbati III	528	-	-	528	As per NHPC	520
33	Rampur HEP	459	-	-	459	As per SJVN	442
34	Koldam	876	-	-	876	As per data given by NTPC	792
35	Kishanganga	224	-	-	224	As per NHPC	330
36	Sainj HEP	100	-	-	100		

Demand and Generation Projection – Eastern Region²⁶

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	5,653		177		5,476	
DVC	2,878		4,359		-1481	
Jharkhand	1,302		252		1,050	
Odisha	5,367	4,582	3,640	3,780	1,727	802
West Bengal	9,203		5,403		3,800	
Sikkim	73				73	
Total	24,477					
Normalization Factor	0.90					

Generation Projection – Eastern Region...(1) ²⁷

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	Chujachan	111	-	-	111		
2	MPL	992	-	-	992		
3	Teesta V	525	-	-	525	As per NHPC	518
4	Kahalgaon	2194	-	-	2194	As per data given by NTPC	2178
5	Farakka	1955	-	-	1955		1968
6	Talcher	953	-	-	953	Restricted to the generation(Installed Capacity-NAC)	942
7	Rangeet	67	-	-	67	As per NHPC	62
8	Adhunik Power	495	-	-	495	-	
9	Barh	1257	-	-	1257	As per data given by NTPC	1240

Generation Projection – Eastern Region...(2)²⁸

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S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (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)	636	-	-	636	-	
11	JITPL	714	-	-	714		
12	Jorthang	105	-	-	105		
13	Bhutan	1565	-	-	1565	-	
14	Teesta-III	1027	-	-	1027		
15	Dikchu HEP	109	-	-	109		
16	Nabinagar BRBCL	287	164	-	451		
17	Tashideng	141	-	-	141		
18	Kanti Bijlee Stg-2 (KBUNL)		-	-			300

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	4,161	4,343	2,691	2,094	1,470	2,249
Gujarat	17,249	16,100	10,722	12,000	6,527	4,100
Madhya Pradesh	9,097	10,280	4,004	4,210	5,093	6,070
Maharashtra	22,073	21200	14,314	14808	7,759	6392
Daman & Diu	363	340	--	--	363	340
Dadra Nagar Haveli	822				822	
Goa	588				588	
ESIL	679				679	
Total	55,031					
Normalization Factor	0.90					

Generation Projection – Western Region...(1) 30

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	Vindhyachal	4515	-	-	4515	As per NTPC	4440
2	Ratnagiri Dabhol	615	-	-	615		
3	TAPS (1,2,3,4)	980	-	-	980		
4	JINDAL	670	-	-	670	As per data given by JPL	635
5	LANCO	542	-	-	542		
6	NSPCL Bhilai	477	-	-	477	As per data given by NSPCL Bhilai	437
7	Korba	2487	-	-	2487	As per NTPC	2431

Generation Projection – Western Region ... (2) 31

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
8	SIPAT	2832	-	-	2832	As per NTPC	2809
9	CGPL	3615	-	-	3615		
10	Mauda	2781	-	-	2781	As per NTPC	2050
11	Gandhar	489	-	-	489		350
12	Kawas	429	-	-	429		250
13	SSP	548	-	-	548		
14	KAPS	0	-	-	0		
15	Essar Mahan	759	393	-	1152		
16	BALCO	516	-	-	516	As per data given by BALCO	425
17	KSK Mahanadi	1029	-	-	1029		
18	Sasan UMPP	3782	-	-	3782	As per data given by Sasan	3370
19	JPL Stg-2	1095	-	-	1095	As per data given by JPL	1140
20	DGEN	0	-	-	0		

Generation Projection – Western Region (3)

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S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C (MW)	Comments From DICs /States (if any)	Figure as per Comments (MW)
		(MW)	(MW)	(MW)	(MW)		(MW)
21	DB Power	1121	-	-	1121	As per data given by DB Power	900
22	Korba West	0	-	-	0		
23	Dhariwal	283	-	-	283	As per data given by Dhariwal	273
24	GMR Chattishgarh	618	-	-	618	As per data given by GMR Chattishgarh	1000
25	JP Nigrie	1255	-	-	1255		
26	GMR Warora	516	-	-	516	As per GMR Warora	550
27	ACBIL+ Spectrum+MCCPL	647	-	-	647	As per data given by ACBIL	680
28	MB Power (Anuppur)	1146	-	-	1146	As per MB Power	900
29	RKM Power	289	232	-	521	As per RKM Power	600
30	Jhabua Power	535	-	-	535	As per Jhabua Power	566
31	TRN Energy	509	-	-	509	As per data given by TRN Energy	540
32	Sholapur STPP	570	-	432	1002	As per NTPC	970
33	Lara STPP		-	528	528		560
34	SKS Power		396	-	396	As per data given by SKS power	534
35	Gadarwada			528	528	As per NTPC	560

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	126	156	-	-	126	156
Assam	1,895	1,850	304	228	1591	1622
Manipur	192	190	-	-	192	190
Meghalaya	339	342	253	305	86	37
Mizoram	100	99	35	68 (including 60 MW from Tuirial HEP)	64	31
Nagaland	143	139	22	24	122	115
Tripura	314	458	171	152	143	306
Total	3,108					
Normalization Factor	0.90					

Generation Projection – North-Eastern Region

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	AGTPP, NEEPCO	106	-	-	106	As decided in 156th OCC meeting	101
2	Doyang, NEEPCO	74	-	-	74		75
3	Kopili , NEEPCO	195	-	-	195		194
4	Kopili 2, NEEPCO	25	-	-	25		25
5	Khandong, NEEPCO	48	-	-	48		48
6	Ranganadi, NEEPCO	418	-	-	418		410
7	AGBPP_Kathalguri	199	-	-	199		230
8	Loktak, NHPC	105	-	-	105		105

Generation Projection – North-Eastern Region³⁵

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S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
9	Palatana GBPP	654	-	-	654	As decided in 156th OCC meeting	680
10	Bongaigaon_NTPC	461	165	-	626		626
11	Pare NEEPCO	119		-	119		110

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	9,374	9167	7,724	7660	1,650	1,507
Telangana	11,911	11911	5,741	6013	6,170	5898
Karnataka	9,830		6,167		3,663	
Kerala	3,505	3,583	1,480	1,556	2,025	2,027
Tamil Nadu	14,782	15,300	10,022	9,710	4,760	5,590
Pondicherry	392				392	
Goa_SR	80				80	
Total	49,874					
Normalization Factor	0.90					

Generation Projection – Southern Region...(1)³⁷

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	Ramagundam	2417	-	-	2417	As per NTPC	2431
2	Simhadri 2	905	-	-	905		948
3	Simhadri 1	959	-	-	959		948
4	SEPL	0	-	-	0		
5	Lanco Kondapalli	0	-	-	0		
6	Kaiga	831	-	-	831		
7	NEYVELI (EXT) TPS	426	-	-	426		
8	NEYVELI TPS-II	1203	-	-	1203		
9	NEYVELI TPS-II EXP	319	-	-	319		

Generation Projection – Southern Region...(2)

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S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'18 – 31 st Mar'19 (B)	Generation CoD from 1st Apr'19 to 30 th June'19 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
10	MAPS	307	-	-	307		
11	Vallur	1128	-	-	1128		
12	Meenakhshi	0	-	-	0		
13	Coastal Energen	692	-	-	692		
14	Kudankulam	1412	-	-	1412		
15	Tuticorin TPP	878	-	-	878		
16	Sembcorp Energy India Ltd.	1270	-	-	1270		
17	IL&FS	607	-	-	607		
18	Talcher Stage-II	1759	-	-	1759		
19	Sembcorp Gayatri Power Ltd.	1263	-	-	1263		
20	Kudgi STPS	1090	528	-	1617	As per NTPC	2050
21	Neyveli New Thermal Power		-	330	330		

Expected Generation addition – Northern Region

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Entity	Generation declared Commercial from 1st Oct'18 to 31 st Mar'19					Generation declared/expected to be declared Commercial from 1 st Apr'19 to 30 th June'19				
	Bus Name	Unit No.	Installed Capacity (MW)	Gen. considered (MW)	Total (MW)	Bus Name	Unit No.	Installed Capacity (MW)	Gen. considered (MW)	Total (MW)
Uttar Pradesh						Meja	1	660	432	432
Rajasthan						Chhabra	6	660	432	432

Expected Generation addition – Western Region

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Entity	Generation declared Commercial from 1st Oct'18 to 31 st Mar'19					Generation declared/expected to be declared Commercial from 1 st Apr'19 to 30 th June'19				
	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total
			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)
Essar Mahan	Essar Mahan	2	600	393	393					
RKM Power	RKM Power	2	360	232	232					
Sholapur STPP	Sholapur STPP	2	660	432	432					
Lara STPP						Lara STPP	1	800	528	528
SKS Power	SKS Power	1	300	198	396					
	SKS Power	1	300	198						
Gadarwada						Gadarwada	1	800	528	528

Expected Generation addition – Eastern Region

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Entity	Generation declared Commercial from 1st Oct'18 to 31 st Mar'19					Generation declared/expected to be declared Commercial from 1 st Apr'19 to 30 th June'19				
	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
Nabinagar BRBCL	Nabinagar BRBCL	3	250	164	164					

Expected Generation addition – Southern Region

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Entity	Generation declared Commercial from 1st Oct'18 to 31 st Mar'19					Generation declared/expected to be declared Commercial from 1 st Apr'19 to 30 th June'19				
	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total
			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)
Telangana	Kothagudem TPS-VII	12	800	528	528					
Kudgi STPS	Kudgi STPS	3	800	528	528					
Neyveli New Thermal Power						Neyveli New Thermal Power	1	500	330	330

Expected Generation addition –North Eastern Region

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	Generation declared Commercial from 1st Oct'18 to 31 st Mar'19					Generation declared/expected to be declared Commercial from 1 st Apr'19 to 30 th June'19				
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)
Bongaigaon_NTPC	Bongaigaon_NTPC	3	250	165	165					