

.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: 05/07/2017

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, 2017 to 30th September, 2017 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 2016-17 (Application Period from 1st July, 2017 to 30th September, 2017)** for implementation of CERC (Sharing of Inter-State Transmission Charges and Losses) **Regulations, 2010** held on 31.05.2017 in the NRLDC Conference Room at New Delhi for information and necessary action.

Yours faithfully,

S/d-

(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/ Powergrid	Shri H.K Mallick, GM (Comm)	Power Grid Corporation of India Ltd Plot No. 2, Sector-29, Near IFFCO Chowk, Gurgaon-122001
6.		Shri Dilip Rozekar, DGM (SEF)/ 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 P. K. Agarwal General Manager	Northern Regional Load Despatch Centre, Jeet Singh Marg, Katwaria Sarai, New Delhi-110016
8.		Shri G. Anbunesan AGM, SRLDC	Southern Regional Load Despatch Centre 29, Race Course Cross Road, Bangalore, Karnataka-560009
9.		Shri U.K. Verma, General Manager, I/c	National Load Despatch Centre B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016
10.		Shri P. Mukhopadhyay General Manager	Eastern Regional Load Despatch Center 14, Golf Club Road, Tollygunge, Kolkata-700 033 (W.B.)
11.	NRPC	Shri M.A.K.P. Singh Member Secretary	Northern Regional Power Committee 18-A Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-11
12.	WRPC	Shri A. Balan, Member Secretary	Western Regional Power Committee Plot No. F-3, MIDC Area, Marol, Opp : SEEPZ, Andheri (East), Mumbai-400093

13.	SRPC	Shri S.R. Bhat, Member Secretary	Southern Regional Power Committee 29, Race Course Cross Road, Bangalore-560009, Karnataka
14.	ERPC	Shri A.K. Bandyopadhyay, Member Secretary	Eastern Regional Power Committee 14, Golf Club Road, Tollygunge, Kolkata-700 033 (W.B.)
15.		Shri S.K. Das, Director Engineering	Bihar State Electricity Board 1 st Floor, Vidyut Bhawan, Bailey Road, Patna-21, Bihar
16.	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
17.		Shri Jatin Baishya, Dy. General Manager	State Load Despatch Centre Complex, Kahelipara, Guwahati
18.	SLDC	Shri P.A.R. Bende, Chief Engineer, SLDC	Chief Engineer Madhya Pradesh Power Transmission Company Ltd., Nayagaon, Rampur, Jabalpur- 482008
19.	KPTCL	Shri S. Sumanth Director(Transmission), KPTCL	Karnataka Power Transmission Corp.Ltd., Kauvery Bhavan, K.G. Road, Bangalore – 560009
20.	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 Janardan Choudhary, Executive Director, (O&M)	NHPC office Complex, Sector-33, Faridabad – 121003 (Haryana)
3.	NEEPCO	Shri P.K Singha, Executive Director	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 2nd Meeting of Validation Committee for the Application Period from 1st July, 2017 to 30th September, 2017 held on 31st May, 2017 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, Rajasthan, Punjab, U.P 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 2017-18.

3. Demand Projection for Q2 of Application Period from 1st July, 2017 to 30th September, 2017

3.1 Northern Region:

- (i) Representative of NRLDC suggested that Demand projection of Chandigarh and Haryana may be taken as 363 MW and 9,500 MW instead of 338 MW and 9,294 MW respectively.
- (ii) Representative of Uttar Pradesh suggested that Demand projection of Uttar Pradesh may be taken as 18,000 MW instead of 16,928 MW.
- (iii) Subsequently SLDC Himachal Pradesh has confirmed its Demand 1,298 MW instead of 1,221 MW. IA has suggested that demand projection as suggested by SLDC Himachal Pradesh may be considered. Accordingly Demand projection of Himachal Pradesh shall be taken as 1,298 MW.

The Demand figures as suggested above were agreed.

3.2 Eastern Region: Members present at ERLDC suggested that Demand projection of West Bengal may be taken as 8,000 MW instead of 7,735 MW.

The Demand figures as suggested above were agreed.

3.3 Western Region :

- (i) Members present at WRLDC suggested that Demand projections of Dadra Nagar Haveli may be considered as 770 MW instead of 815 MW.
- (ii) Subsequently SLDC Madhya Pradesh has confirmed its Demand as 7,500 MW instead of 8,000 MW. IA has suggested that demand projection as suggested by SLDC Madhya Pradesh may be considered. Accordingly demand projection of Madhya Pradesh shall be taken as 7,500 MW.

The Demand figures as suggested above were agreed

3.4 North Eastern Region: Demand projections for NER constituents are in order.

3.5 Southern Region: Demand projections for SR constituents are in order

4. Generation Projection for Q2 of Application Period from 1st July, 2017 to 30th September, 2017

4.1 Northern Region:

- (i) Representative of NTPC suggested that generation from Koldam HEP may be taken as 867 MW instead of 792 MW
- (ii) Members present at NRLDC suggested following changes:
 - (a) Generation from Delhi may be taken as 1,100 MW instead of 712 MW.
 - (b) Generation from Shree Cement may be taken as 285 MW instead of 300 MW.
 - (c) Generation from Lanco Budhil may be taken as 70 MW instead of 98 MW.
- (iii) Subsequently SLDC Himachal Pradesh has confirmed that generation from Himachal Pradesh may be taken as 1,266 MW (including 106 MW generation of Malana-1 HEP) instead of 673 MW. IA has suggested that generation projection as suggested by SLDC Himachal Pradesh may be considered. Accordingly Generation projection of Himachal Pradesh shall be taken as 1,266 MW.
- (iv) Uttar Pradesh SLDC has submitted that generation from Uttar Pradesh may be taken as 10,000 MW instead of 7,890 MW.
- (v) It was decided that based on the past trend and commissioning of new generation, Rajasthan generation may be considered as 7,300 MW instead of 8,516 MW.

The Generation figures as suggested above were agreed.

4.2 Western Region:

- (i) Members present at WRLDC suggested following changes:
 - (a) Generation from RGPPL may be taken as 540 MW instead of 650 MW
 - (b) Generation from CGPL may be taken as 3,300 MW instead of 3,840 MW.
 - (c) Generation from Kawas may be taken as 300 MW instead of 200 MW.
 - (d) Generation from Gandhar may be taken as 300 MW instead of 200 MW.
 - (e) Generation from KAPS may be taken as zero instead of 217 MW
 - (f) Generation from Jindal Power may be taken as 700 MW instead of 678 MW.
 - (g) Generation from KSK Mahanadi may be taken as 1,134 MW instead of 1,526 MW.

- (h) Generation from Jindal Tamnar may be taken as 570 MW instead of 604 MW.
 - (i) Generation from GMR Chhattisgarh may be taken as 460 MW instead of 354 MW.
 - (j) Generation from Sholapur STPP may be taken zero instead of 435 MW.
- (ii) Subsequently, SLDC Madhya Pradesh confirmed its generation may be taken as 4,436 MW instead of 5,020 MW. IA has suggested that generation projection as suggested by SLDC Madhya Pradesh may be considered. Accordingly generation from Madhya Pradesh shall be taken as 4,436 MW.
- (iii) Representative of Essar Mahan stated that LILO of 400 kV Korba – Vindhyachal line at Essar Mahan has been granted extension for being connected till 30.6.2017 by WRPC. However due to site problems and fund problem they have not been able to complete the dedicated line from 400 kV Mahan TPS to WR Pooling station near Sipat. He also stated that Essar Mahan has signed the PPA of 450 MW with Essar steel and has requested CTU to operationalise the LTA. He requested that connectivity period on LILO may be extended.

It was informed that Validation Committee is not the forum to take decision on such issue and that Essar Mahan should approach appropriate forum for relief. Since as on date the date of expiry of connectivity on LILO is 30.6.2017 and that Essar informed that dedicated line is not expected before December 2017, it was decided that generation from Essar Mahan shall not be considered for this quarter(Q2 2017-18). In case POC rates are not determined for Essar Mahan due to non consideration of generation and it gets permission for injection from appropriate forum, the rates as per Sharing Regulations shall be applicable.

The Generation figures as suggested above were agreed.

4.3 Eastern Region: Members present at ERLDC suggested following changes:

- (a) Generation from West Bengal may be taken as 5,500 MW instead of 4,907 MW.
- (b) Generation from Chuzachen may be taken as 109 MW instead of 115 MW.
- (c) Generation from Bhutan may be taken as 1,500MW instead of 1,603MW.
- (d) Nabinagar BRBCL may be taken as zero instead of 301 MW.

The Generation figures as suggested above were agreed

4.4 North Eastern Region: Generation projections for NER constituents are in order.

4.5 Southern Region:

- (i) Members present at SRLDC suggested following changes:
 - (a) Generation from Andhra Pradesh may be taken as 5,943 MW (excluding 948 MW from Simhadri-I) instead of 6,891 MW.
 - (b) Generation from Kerala may be taken as 1,610 MW instead of 1,533 MW.

- (c) Generation from SEPL may be taken as 250 MW instead of 464 MW.
 - (d) Generation from MEPL may be taken as 150 MW instead of 257 MW
 - (e) Generation from Lanco Kondapalli may be taken as zero instead of 916 MW.
 - (f) Generation from Neyveli (Extn.) TPS may be taken as 420 MW instead of 448 MW.
 - (g) Generation from Coastal Energen may be taken as 558 MW instead of 730 MW.
 - (h) Generation from IL&FS may be taken as 750 MW instead of 555 MW
 - (ii) NTPC representative suggested that generation from Kudgi may be taken as zero instead of 524 MW.
 - (iii) Telangana vide email dated 27.06.2017 informed that the internal generation of state may be considered as 5564 MW for PoC computations of 2nd quarter of 2017-18. SRPC vide email dated 5.07.2017 confirmed that generation of Telangana may be taken as 5,500 MW as the same has already been considered by NLDC for ATC computation. Accordingly generation from Telangana shall be taken as 5,500 MW.
- The Generation figures as suggested above were agreed

5. 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'17 – Sep'17 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.

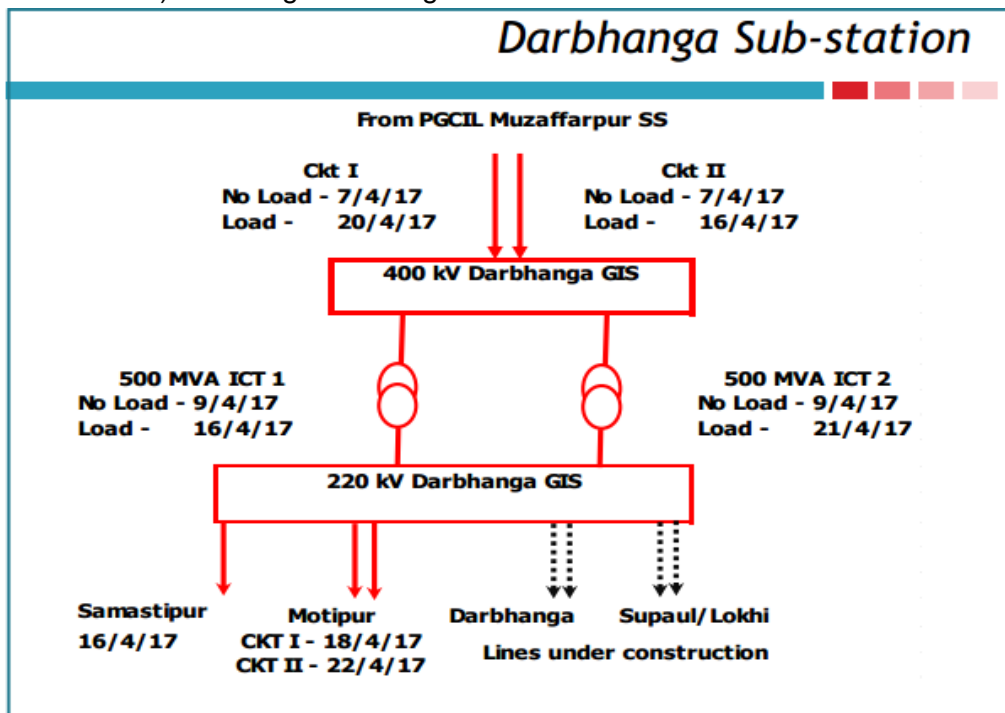
HVDC Name	MW Values
	Set points To be considered in Basecase
Mundra-Mahindergarh Pole-1	1250
Mundra-Mahindergarh Pole-2	1250
Talcher-Kolar Pole- 1	1000
Talcher-Kolar Pole- 2	1000
Rihand-Dadri Pole- 1	750
Rihand-Dadri Pole- 2	750
Balia-Bhiwadi Pole-1	500
Balia-Bhiwadi Pole-2	500
Bhadrawati_HVDC	1000
Vindhyachal_HVDC	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 NR)
Champa- Kurukshetra Pole -1	1500

6. Other Issues:

- (i) Representative of POSOCO raised the issue regarding the escalable component of NRSS-XXIX Transmission Limited and Maheshwaram Transmission Limited. He stated that as per CERC order in petition no 219/ADP/2015 dated 24.11.2015 for Maheshwaram Transmission Limited and Petition no 220/ADP/2014 dated 10.12.2014 for NRSS-XXIX Transmission Limited, the escalable component of approved tariff for FY 2017-18 is 'NIL'. YTC details provided by the transmission licensees were inclusive of

escalable component. Chief (Engg), CERC stated that the rectification in order is expected shortly and suggested to consider the tariff quoted by transmission licensee for PoC computations. Subsequently rectification order has been issued vide orders dated 12.06.2017

- (ii) Representative of Darbhanga Motihari Transmission Company Limited (DMTCL) stated that downstream network from 400/220 kV substation of Darbhanga to BSPTCL system is ready and The power started flowing w.e.f. 16.04.2017 with the readiness of Darbhanga to Samastipur line and Darbhanga to Motipur line. NLDC has already considered the tariff of DMTCL Darbhanga element in the POC computations for the 1st quarter of 2017. Though all downstream lines has not been completed but the power is flowing through above two lines of BSPTCL and assets of DMTCL are being used. It was requested that YTC may be considered in Q2 of 2017-18. (Agenda enclosed at **ANNEXURE- II**) The single line diagram of DMTCL is mention below:



It was observed that DMTCL has completed its scope of work under Darbhanga element which does not have any other prerequisite under TSA of DMTCL. However downstream 220 kV lines (4 Nos) under scope of BSPTCL have not been commissioned. CTU representative stated that tariff for 4 nos 220 kV bays for which downstream has not been commissioned should be separated out from quoted tariff and should be billed to bihar bilaterally.. The quoted tariff of DMTCL is enblock for Darbhanga element all of which have been completed by DMTCL However complete downstream system of BSPTCL is not ready. Therefore this would be subject to view taken by the commission in its POC order.

- (iii) Representative Patran Transmission Company Limited stated that they have successfully loaded ICT-I and ICT-II at Patran 400/220 KV GIS w.e.f. 18/05/2017 upon completion of 220KV Downstream system by PSPCL. PTCL mentioned that NRLDC has issued the certificate for completion of trial operation of following assets on 18.05.2017.

- (a) 400/220 kV, 500 MVA ICT-I at Patran along with associated 400 kV Main Bay (409) & 220 kV Bay (204)
- (b) 400/220 kV, 500 MVA ICT-II at Patran along with associated 400 kV Main Bay (406) & 220 kV Bay (207)

Accordingly, it was decided that up to 18.05.17, CTU will raise the bill to Punjab as per order in 155/MP/2016 and from 19.05.17, the billing, collection and disbursement of transmission charges will be carried out as per the provisions of the Sharing Regulations.

- (iv) Representative of CTU raised the issue regarding removal of BBMB LTA from POC billing for the period Oct 2016 to March 2017 (Agenda enclosed at **ANNEXURE – III**). He stated that as per the decisions taken in the Validation Committee meeting held on 21.02.17, LTA and transmission charges for BBMB project were excluded from PoC computations for the 1st quarter of 2017-18 i.e. April'17 to Jun'17. Representative of CTU requested to extend the same decision for the prior period of Q3 & Q4 PoC of 2016-17 (Oct'16 to Mar'17) till a final decision is taken by the Commission in the matter. Representative of CERC mentioned that CERC vide order dated 28.04.2017 notifying POC rates for quarter 1 of 2017-18 provided as follows:

10. The assets of BBMB and LTA in respect of BBMB shall not be included under PoC mechanism and a view on inclusion of these assets under PoC shall be taken after determination of final tariff of these assets.

It can be seen that a final view in regard to LTA of BBMB is yet to be arrived at by CERC. POWERGRID may raise the issue at CERC in the appropriate petition. Validation committee is not the appropriate forum for the issue.

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

Name of the Transmission lines	ISTS Licensee	Discussion
LILO of both Ckts of Barh-Gorakhpur 400 kV D/C line at Motihari Sub- station	DMTCL	To be Considered
765 kV Nagapattinam – Salem	POWERGRID NM Transmission LTD	Not to be considered since issue pending at CERC for want of CEA clearances
400 kV D/C Unchahar – Fatehpur	POWERGRID Unchahar Transmission LTD	Not to be Considered (dedicated line)
LILO of existing Seoni – Bina of 765 kV S/C Transmission line at Gadarwara	POWERGRID Warora Transmission LTD	Not to be Considered (dedicated line)
Jabalpur Pooling S/S to LILO point of Seoni Bina 765 kV D/C line to Gadarwara		
400 kV D/C Nizamabad – Yedddumailaram (Shankarpalli)	Maheshwaram	Early commissioning approval is awaited from CEA. CTU suggested

Transmission line	Transmission	that the line is an important link and
400 kV Maheshwaram – Mehboobhnagar Transmission line	LTD	is required for smooth running of system. Considering CTU's recommendation it was decided to include the line for POC calculation, however disbursement of charges will be done only after CEA recommendation is obtained.

(vi) The PPT shown during the Validation Committee Meeting dated 31.05.2017 is attached at **ANNEXURE- IV**

7. After the deliberations, following was concluded:

- (i) 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. 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.

Preparation of final All India Basecase 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 2017-18 of the Validation Committee held on 31st May, 2017 at , New Delhi.

CERC

1. Shri S.C. Shrivastava, Chief (Engg.) – In Chair
2. Ms Shilpa Agarwal, Joint. Chief (Engg.)
3. Shri V. Sreenivas, Dy. Chief (Legal)
4. Shri Harish Kumar, Engineer

POWERGRID

5. Shri H.K Mallick, GM (Comml.)
6. Shri Avinash M. Pavgi, GM (Comml)
7. Ms Manju Gupta, AGM (Comml.)
8. Shri V Srinivas, DGM (Comml.)
9. Shri Rajesh Verma, Chief Manager
10. Shri Anil Kumar Meena, Chief Manager

NLDC

11. Shri U.K Verma, GM(I/C), NLDC
12. Shri S.S. Barpanda, AGM
13. Shri G. Chakraborty, DGM
14. Shri Gaurav Verma, Senior Engineer
15. Shri Sanny Machal, Engineer

CEA

16. Shri A . Suresh, Dy. Director.

NHPC

17. Shri V.K Srivastava, Manager

WRPC

18. Shri A. Balan, M.S, WRPC
19. Shri L.K.S Rathore, DD, WRPC

WRLDC

20. Shri V.K Shrivastava GM
21. Ms Pushpa.S, AGM
22. Ms S. Usha, AGM
23. Ms Chitrakshi, Manager

ERPC

24. Shri P.K DE, EE

ERLDC

25. Shri P. Mukhopadhyai, GM
26. Shri G. Mitra, DGM
27. Shri Manoj Kumar Thakur, Manager
28. Shri S. Banerjee, DGM
29. Shri T.R Mahapatra, Manager
30. Shri Saurav Sahay, Dy Manager
31. Shri R.P Kundu, Sr.Engineer
32. Shri S. Ghosh, Engineer

DVC, Kolkata

33. Shri Manuranjan Sahoo,DCE(Comml)

SRPC

34. Shri LEN. J.B, EE
35. Shri Anusha Das J, AEE

SRLDC

36. Shri V Balaji
37. Shri V. Suresh, AGM
38. Shri M Pradeep
39. Shri L. Sharath Chand, Sr. Engineer

NRPC

40. Shri M.A.K.P Singh, MS
41. Shri Upendra Kumar, Director
42. Shri H.K Pandey, SE
43. Shri Bhanwar Singh Meena, EE

NRLDC

44. Shri P.K Agarwal, GM, NRLDC
45. Shri D.K Jain, AGM
46. Shri Rajiv Porwal, DGM
47. Shri H.K Chawla, DGM
48. Shri Riza Naqvi, Sr. Engineer
49. Shri Gaurav Malviya, Engineer
50. Shri Rinku Narang, IT Admin, NRLDC

NTPC

51. Shri Vinod Kumar Jain, DGM
52. Shri Uday Shankar, DGM

NERLDC

53. Shri Amaresh Mallick,DGM
54. Shri Momai Dey, Sr. Engineer

NERPC

55. Shri S.M Aimol
56. Shri Sadiq Imam, AEE

Essel Infra

57. Shri Amit Kumar, GM
58. Shri Rajesh Yadav, Manager

MSETCL

59. Shri Umesh . S. Bhagat, EE, STU
60. Shri Deepak Kolhe, EE(Op)
61. Ms Santosh. G Gawai, DYEE, STU
62. Shri Bulbule Arvind U, SE(LM)
63. Shri Vikas S. Pimpalshende, AE (LM)

MEPTCL

64. Shri B. Wankhar, EE

65. Shri T. Gidon, EE

MPPTCL

66. Shri V.K Rathore, EE

67. Shri Anurag Mishra, EE

ESSAR POWER

68. Shri Sachidanand Bhujole, Vice President

69. Shri Sandeep Sahay, Dy. Head (Comm)

SLDC, ASSAM

70. Shri Dipesh CH. Das, AGM- LD-Com

PATRAN TRANSMISSION COMPANY LTD

71. Shri Dinesh Parakh, GM(Comml)

72. Shri Ramesh Bahri, Consultant

TSTRANSCO

73. Shri N . Bhaskar, CE/SLDC

74. Shri A. Sreenivasa Reddy, SE/SLDC

75. Shri K Madkava Rao, DE/SCADA

76. Shri P.V Madhusudan, DE/PPC

77. Shri G. Ramesh, AE, SLDC

78. Shri A. Madhavi, ADE/SG/ TS-SLDC

79. Shri N. Raja Shekar, AE/SG TS- SLDC

TSSPDCL

80. Ms. J. Swapna, AE/Col/TSPCC

81. Shri S. Ravi Kumar, DE

DMTCL Project : Disbursement of Transmission Charges

Dear Sir,

This is in reference to the Eastern Region System Strengthening Scheme VI (ERSS VI) being implemented by Darbhanga-Motihari Transmission Company Ltd. (DMTCL) under BOOM basis awarded through Tariff Based Competitive Bidding (TBCB). The ERSS VI Transmission Scheme consists of following Elements:

A) Darbhanga Element

1. Muzaffarpur (PG) - Darbhanga 400 kV D/C transmission line with triple snowbird conductor
2. 2 x 500 MVA, 400/220 kV GIS Substation at Darbhanga (400 kV Line Bays – 2 Nos., 400 kV ICT bays – 2 Nos., 220 kV Line Bays – 7 Nos., 220 kV ICT Bays – 2 Nos. & 2 Nos. 125 MVAr Bus Reactors)

B) Motihari Element

1. LILO of both Ckts of Barh – Gorakhpur 400 kV D/C transmission line at Motihari, GIS Sub-station
2. 2 x 200 MVA, 400/132 kV GIS Substation at Motihari

The Transmission Scheme ERSS VI is to cater to the power demand of North Bihar and Bihar STU (BSPTCL) was required to undertake construction of the following Transmission System in order to off-take power from 400/220 kV Darbhanga Sub-station of DMTCL:

Sl. No.	BSPTCL Transmission Line
1	220 kV D/C Darbhanga (TBCB) – Darbhanga Transmission Line
2	220 kV D/C Darbhanga (TBCB) – Motipur Transmission Line
3	220 kV D/C Darbhanga (TBCB) – Supaul/Loki Transmission Line
4	220 kV S/C Darbhanga (TBCB) – Samastipur Transmission Line

After the approval of CEA to energize 400 kV D/C Muzaffarpur – Darbhanga Line and 400/220 kV Darbhanga GIS Sub-station, the Deemed Commercial Operation of the Darbhanga Element was declared w.e.f 31st Mar 2017 as none of the above Transmission Line of BSPTCL was ready for charging.

This is to bring to your kind notice that vide letter dated 2nd Jan 2017 (copy enclosed), DMTCL has given the intimation to the LTTCs, CEA, BSPTCL & CTU for interconnection of the Darbhanga Element with the Grid.

Further, vide letters dated 20th Mar 2017 and 2nd Apr 2017 (copy enclosed), BSPTCL was requested to interconnect their 220 kV Transmission Lines with Darbhanga Sub-station for flow of power into BSPTCL System.

Subsequent to the readiness of BSPTCL 220 kV S/C Darbhanga (TBCB) – Samastipur Transmission Line on 16th Apr 2017, the power was start flowing to BSPTCL system w.e.f. 16th Apr 2017. On 18th Apr 2017, 220 kV D/C Darbhanga (TBCB) – Motipur Transmission Line was also charged.

The balance 220 kV Transmission Lines of BSPTCL (Darbhanga (TBCB) – Supaul/Loki Transmission Line and Darbhanga (TBCB) – Darbhanga Transmission Line) are still under construction.

For collection of Transmission Charges of Darbhanga Element of ERSS VI transmission Scheme, vide letter dated 12th Apr 2017, the required documents were submitted to PGCIL. However, PGCIL vide mail dated 19th May 2017 has replied as under:

“As per the above, the tariff of transmission elements shall be part of POC mechanism only after the downstream system is commissioned. In your case, the commissioning status of downstream systems of the 220 kV bays is unclear. Further there is no separate tariff break-up under the first element for these 7 nos. of 220kV bays. In the absence of tariff break-up, we are unable to disburse the payments under POC mechanism for the commissioned assets under the First element. Hence it is requested to provide duly approved tariff break up of first element for commissioned / un-commissioned assets(where power flow yet to take place and billing to be raised on defaulting entity), to enable us to process the disbursement of transmission charges under the POC mechanism.”

In view of above, the following is our submission:

- 1) As per Schedule 3 of TSA of the Project, the Darbhanga Element of the Project constitutes 40.74% of the Total Transmission charges and there is no further break up of Tariff among Darbhanga Elements.
- 2) The Darbhanga Element covering 400 kV D/C Muzaffarpur – Darbhanga Line and 400/220 kV Darbhanga GIS Sub-station was ready for charging w.e.f 30th Mar 2017.
- 3) The power started flowing in the downstream system of BSPTCL w.e.f 16th Apr 2017 after readiness of BSPTCL 220 kV S/C Darbhanga – Samastipur Line.
- 4) NLDC has already considered the tariff of DMTCL Darbhanga Element in the POC computations for the 1st Qtr of 2017 and as Darbhanga Element is commissioned & under commercial operation, the 100% Tariff for same needs to be paid to DMTCL.

It is requested to kindly resolve the above case in the coming meeting of Validation Committee so that timely tariff can be realized.

Regards

Amit Kumar

General Manager – Power Transmission

DMTCL

09953200475

Darbhanga-Motihari Transmission Co. Ltd.

Ref: DMTCL/DEL/2017/16

Date: 20th Mar 2017

To,

Director (Projects)
Bihar State Power Transmission Co. Ltd.
Transmission Vidyut Bhawan, Bailey Road,
4th Floor, Patna,
Bihar – 800021

Sub: Eastern Region System Strengthening Scheme VI being developed by Darbhanga-Motihari Transmission Company Ltd. –Intimation for charging of Darbhanga Element.

Dear Sir,

This is in reference to the Eastern Region System Strengthening Scheme VI (ERSS VI) being developed by Darbhanga-Motihari Transmission Company Ltd. (DMTCL).

This is to intimate you that the following Transmission Elements covered under the ERSS VI Transmission Scheme will be ready for charging on 30th Mar 2017:

- 1) 400 kV D/C Triple Snowbird Muzaffarpur – Darbhanga Transmission Line
- 2) 2 X 500 MVA 400/220 kV GIS Sub-station at Darbhanga

As the downstream system at 220 kV level to off take the power from 400/220 kV GIS Sub-station (of DMTCL) is in the scope of BSPTCL, it is requested to interconnect the 220 kV Transmission Lines along with installation of PLCC equipment at DMTCL end latest by 29th Mar 2017 for smooth flow of power.

Thanking You,

Yours faithfully

For Darbhanga-Motihari Transmission Co. Ltd.


(Authorized Signatory)


Copy to: Chief Engineer, (PSPM), Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi – 110 066
: Chief Engineer – Transmission, Bihar State Power Transmission Co. Ltd. (Lead LTTC)
: Chief Operating Officer (CTU), PGCIL, "Saudamini", Sec-29, Gurgaon, Haryana – 122001
: All LTTC.

Darbhanga-Motihari Transmission Co. Ltd.
Tel.: +91-1147523100 | www.esselinfraprojects.com



Regd. Office & Corr. Add: A-26/3, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044 | CIN: U40300DL2012GOI246371

Darbhanga-Motihari Transmission Co. Ltd.

List of LTTCs:

1. Chief Engineer-PTR, West Bengal State Electricity Distribution Company Limited, Vidyut Bhawan, Kolkata -91	2. Dy. General Manager (Commercial), Power Grid Corporation of India Limited, HVDC Pusauli, Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) - 122001
3. Director Commercial, Grid Corporation of Orissa Limited Janpath, Bhubaneswar - 751022	4. Addl. Chief Engineer (EHV, M&E), Power Deptt., Govt. of Sikkim, Gangtok - 737101
5. Chief Engineer (Commercial), Damodar Valley Corporation DVC Towers, VIP Road, Kolkata - 700054	6. Chief Engineer, Transmission Jharkhand State Electricity Board Engineering Building, HEC, Dhurwa, Ranchi-834004
7. Maithan Power Limited MA-5, Gogna, PO- Maithan DAM Dist. Dhanbad, Jharkhand- 828207	



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Delhi-110044 | CIN: U40300DL2012GOI246371

Darbhanga-Motihari Transmission Co. Ltd.

Ref: DMTCL/DEL/2017/22

Date: 18th Apr 2017

To,

Chief Engineer – Transmission Bihar State Power Transmission Company Ltd. Transmission Vidyut Bhawan, 04 th Floor, Bailey Road, Patna, Bihar (800021)	Chief Operating Officer (CTU Planning), PGCIL, Sec-29, Near IFFCO Chowk, Gurgaon – 122001
---	--

Sub: Eastern Region System Strengthening Scheme VI developed by Darbhanga–Motihari Transmission Company Ltd. – Intimation for the power flow through the 220 kV downstream network of BSPTCL.

Dear Sir,

This is in reference to the Eastern Region System Strengthening Scheme VI being implemented by Darbhanga-Motihari Transmission Company Ltd.

Further, this is to inform you that subsequent to successful charging of 400 kV D/C Muzaffarpur – Darbhanga Transmission Line and 2 X 500 MVA 400/220 kV Darbhanga GIS Sub-station, the power is being fed to BSPTCL transmission system through 220 kV S/C Darbhanga – Samastipur Transmission Line w.e.f. 16th Apr 2017, 14:48 Hrs.

Thanking You,
Yours faithfully

For **Darbhanga-Motihari Transmission Company Ltd.**


(Authorized Signatory)



Copy to:

- Executive Director (Commercial), PGCIL, Sec-29, Near IFFCO Chowk, Gurgaon - 122001
- Chief Engineer (PSPM), CEA, Sewa Bhawan, R. K. Puram, Sector -1, New Delhi-110066.
- Director (Transmission), Ministry of Power (Govt. of India), Rafi Marg, Sansad Marg Area, New Delhi-110001
- All Long Term Transmission Customers (LTTCS).

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Darbhanga-Motihari Transmission Co. Ltd.

List of LTTCs:

1. Chief Engineer- PTR West Bengal State Electricity Distribution Company Limited, Vidyut Bhawan, Kolkata-91	2. Dy. General Manager (Commercial), Power Grid Corporation of India Limited, HVDC Pusauli, Saudamini , Plot No. 02, Sector-29, Near IFFCO Chowk, Gurgaon (Haryana) - 122 001
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5. Chief Engineer (Commercial) Damodar Valley Corporation, DVC Towers, VIP Road, Kolkata- 700054	6. Chief Engineer - Transmission Jharkhand State Electricity Board, Engineering Building, HEC, Dhurwa, Ranchi- 834004
7. Maithan Power Limited, MA-5, Gogna, PO-Maithan DAM , Distt.- Dhanbad, Jharkhand-828207	



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Regd. Office & Corr. Add: A-26/3, Mohan Cooperative Industrial Estate, Mathura Road, New
Delhi-110044 | CIN: U40300DL2012GOI24637I

Darbhanga-Motihari Transmission Company Limited

CIN: U40300DL2012GOI246371 • Tel.: +91 11 47523100 • Website: www.esselinfraprojects.com

Ref: DMTCL/DEL/2017/02-01

Date: 02nd Jan. 2017

To,

Chief Operating Officer (CTU Planning)
Power Grid Corporation of India Ltd.
"Sector – 29, Near IFFCO Chowk,
Gurgaon (Haryana) - 122001.

Chief Engineer – Transmission (Lead LTTC)
Bihar State Power Transmission Co. Ltd.
Transmission Vidyut Bhawan, 4th Floor,
Bailey Road, Patna,
Bihar - 800021

Sub: Eastern Region System Strengthening Scheme VI developed by Darbhanga–Motihari Transmission Company Ltd. – **Interconnection of Darbhanga Transmission Element.**

Dear Sir,

This is in reference to the Eastern Region System Strengthening Scheme VI being implemented by Darbhanga Motihari Transmission Company Ltd.

Further, this is to intimate that 400 kV D/C Muzaffarpur (PG) – Darbhanga Transmission Line and 2X500 MVA , 400/220 kV Darbhanga GIS, which are covered in ERSS VI Transmission Scheme shall be ready for charging and interconnection with the Grid system by 15th Feb 2017.

This intimation is for your information and necessary action in this regard please.

Thanking You,

Yours' faithfully

For **Darbhanga-Motihari Transmission Company Ltd.**


(Authorised Signatory)


Copy to: Chief Engineer (PSPM), CEA, Sewa Bhawan, R. K. Puram, Sector -1, New Delhi-110066.
: General Manager (ERLDC), 14, Golf Club Road, Tollygunge, Kolkata- 700033
: All LTTCs.

Regd. Office & Corr. Add: A-26/3, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044.

Darbhanga-Motihari Transmission Company Limited

CIN: U40300DL2012GOI246371 • Tel.: +91 11 47523100 • Website: www.esselinfraprojects.com

List of LTTCs:

1. Chief Engineer- PTR West Bengal State Electricity Distribution Company Limited, Vidyut Bhawan, Kolkata-91	2. Dy. General Manager (Commercial), Power Grid Corporation of India Limited, HVDC Pusauli, Saudamini , Plot No. 02, Sector- 29, Near IFFCO Chowk, Gurgaon (Haryana) - 122 001
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7. Maithan Power Limited, MA-5, Gogna, PO-Maithan DAM , Distt.- Dhanbad, Jharkhand-828207	

Darbhanga-Motihari Transmission Company Limited

Site Office: 1st Floor, Vikas Tower, Infront of Durga Mandir (facing Pusa Road) Malighat,
BMP – 06, Muzaffarpur, Bihar– 842001 Telefax. +91 621 2283023

Ref: MUZ/16-17/375

Date: 2nd Apr 2017

To,

**Electrical Superintending Engineer
Transmission Circle Muzaffarpur,
Bihar State Power Transmission Co. Ltd.
Muzaffarpur, Bihar**

Sub: Eastern Region System Strengthening Scheme VI being developed by Darbhanga-Motihari Transmission Company Ltd. – Installation of PLCC Equipment by BSPTCL at Darbhanga Sub-station for 220 kV Transmission Lines.

**Ref : 1) DMTCL Letter No. DMTCL/DEL/2017/16 dated 20th Mar 2017.
2) BSPTCL Letter No. 810 dated 1st Apr 2017.**

Dear Sir,

This is in reference to your letter dated 1st Apr 2017 vide which DMTCL has been requested to provide the clearance for commissioning of PLCC equipment for 220 kV transmission lines of BSPTCL, at DMTCL Darbhanga GIS Sub-station.


In this regard, please refer to our letter dated 20th Mar 2017 (copy enclosed) vide which we have already requested BSPTCL to interconnect the 220 kV Transmission Lines alongwith installation of PLCC equipment at DMTCL Darbhanga end latest by 29th Mar 2017 for smooth flow of power.

It is again requested to interconnect the 220 kV Transmission Lines alongwith installation of PLCC equipment at DMTCL Darbhanga end without any further delay.

Thanking You,

Yours faithfully

For Darbhanga-Motihari Transmission Co. Ltd.


**(P K Swain)
AVP - DMTCL**

Darbhanga-Motihari Transmission Co. Ltd.

Ref: DMTCL/DEL/2017/22

Date: 18th Apr 2017

To,

Chief Engineer – Transmission Bihar State Power Transmission Company Ltd. Transmission Vidyut Bhawan, 04th Floor, Bailey Road, Patna, Bihar (800021)	Chief Operating Officer (CTU Planning), PGCIL, Sec-29, Near IFFCO Chowk, Gurgaon – 122001
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Sub: Eastern Region System Strengthening Scheme VI developed by Darbhanga–Motihari Transmission Company Ltd. – Intimation for the power flow through the 220 kV downstream network of BSPTCL.

Dear Sir,

This is in reference to the Eastern Region System Strengthening Scheme VI being implemented by Darbhanga-Motihari Transmission Company Ltd.

Further, this is to inform you that subsequent to successful charging of 400 kV D/C Muzaffarpur – Darbhanga Transmission Line and 2 X 500 MVA 400/220 kV Darbhanga GIS Sub-station, the power is being fed to BSPTCL transmission system through 220 kV S/C Darbhanga – Samastipur Transmission Line w.e.f. 16th Apr 2017, 14:48 Hrs.

Thanking You,
Yours faithfully

For **Darbhanga-Motihari Transmission Company Ltd.**


(Authorized Signatory)



Copy to:

- Executive Director (Commercial), PGCIL, Sec-29, Near IFFCO Chowk, Gurgaon - 122001
- Chief Engineer (PSPM), CEA, Sewa Bhawan, R. K. Puram, Sector -1, New Delhi-110066.
- Director (Transmission), Ministry of Power (Govt. of India), Rafi Marg, Sansad Marg Area, New Delhi-110001
- All Long Term Transmission Customers (LTTCS).

Darbhanga-Motihari Transmission Co. Ltd.
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Regd. Office & Corr. Add: A-26/3, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044 | CIN: U40300DL2012GOI246371

Darbhanga-Motihari Transmission Co. Ltd.

List of LTTCs:

1. Chief Engineer- PTR West Bengal State Electricity Distribution Company Limited, Vidyut Bhawan, Kolkata-91	2. Dy. General Manager (Commercial), Power Grid Corporation of India Limited, HVDC Pusauli, Saudamini , Plot No. 02, Sector-29, Near IFFCO Chowk, Gurgaon (Haryana) - 122 001
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Ref: DMTCL/DEL/2017/02-01

Date: 02nd Jan. 2017

To,

Chief Operating Officer (CTU Planning)
Power Grid Corporation of India Ltd.
"Sector – 29, Near IFFCO Chowk,
Gurgaon (Haryana) - 122001.

Chief Engineer – Transmission (Lead LTTC)
Bihar State Power Transmission Co. Ltd.
Transmission Vidyut Bhawan, 4th Floor,
Bailey Road, Patna,
Bihar - 800021

Sub: Eastern Region System Strengthening Scheme VI developed by Darbhanga–Motihari Transmission Company Ltd. – **Interconnection of Darbhanga Transmission Element.**

Dear Sir,

This is in reference to the Eastern Region System Strengthening Scheme VI being implemented by Darbhanga Motihari Transmission Company Ltd.

Further, this is to intimate that 400 kV D/C Muzaffarpur (PG) – Darbhanga Transmission Line and 2X500 MVA , 400/220 kV Darbhanga GIS, which are covered in ERSS VI Transmission Scheme shall be ready for charging and interconnection with the Grid system by 15th Feb 2017.

This intimation is for your information and necessary action in this regard please.

Thanking You,

Yours' faithfully

For **Darbhanga-Motihari Transmission Company Ltd.**


(Authorised Signatory)


Copy to: Chief Engineer (PSPM), CEA, Sewa Bhawan, R. K. Puram, Sector -1, New Delhi-110066.
: General Manager (ERLDC), 14, Golf Club Road, Tollygunge, Kolkata- 700033
: All LTTCs.

Regd. Office & Corr. Add: A-26/3, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044.

Darbhanga-Motihari Transmission Company Limited

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Darbhanga-Motihari Transmission Company Limited

Site Office: 1st Floor, Vikas Tower, Infront of Durga Mandir (facing Pusa Road) Malighat,
BMP – 06, Muzaffarpur, Bihar– 842001 Telefax. +91 621 2283023

Ref: MUZ/16-17/375

Date: 2nd Apr 2017

To,

**Electrical Superintending Engineer
Transmission Circle Muzaffarpur,
Bihar State Power Transmission Co. Ltd.
Muzaffarpur, Bihar**

Sub: Eastern Region System Strengthening Scheme VI being developed by Darbhanga-Motihari Transmission Company Ltd. – Installation of PLCC Equipment by BSPTCL at Darbhanga Sub-station for 220 kV Transmission Lines.

**Ref : 1) DMTCL Letter No. DMTCL/DEL/2017/16 dated 20th Mar 2017.
2) BSPTCL Letter No. 810 dated 1st Apr 2017.**

Dear Sir,

This is in reference to your letter dated 1st Apr 2017 vide which DMTCL has been requested to provide the clearance for commissioning of PLCC equipment for 220 kV transmission lines of BSPTCL, at DMTCL Darbhanga GIS Sub-station.


In this regard, please refer to our letter dated 20th Mar 2017 (copy enclosed) vide which we have already requested BSPTCL to interconnect the 220 kV Transmission Lines alongwith installation of PLCC equipment at DMTCL Darbhanga end latest by 29th Mar 2017 for smooth flow of power.

It is again requested to interconnect the 220 kV Transmission Lines alongwith installation of PLCC equipment at DMTCL Darbhanga end without any further delay.

Thanking You,

Yours faithfully

For Darbhanga-Motihari Transmission Co. Ltd.


**(P K Swain)
AVP - DMTCL**

Darbhanga-Motihari Transmission Co. Ltd.

Ref: DMTCL/DEL/2017/16

Date: 20th Mar 2017

To,

Director (Projects)
Bihar State Power Transmission Co. Ltd.
Transmission Vidyut Bhawan, Bailey Road,
4th Floor, Patna,
Bihar – 800021

Sub: Eastern Region System Strengthening Scheme VI being developed by Darbhanga-Motihari Transmission Company Ltd. –Intimation for charging of Darbhanga Element.

Dear Sir,

This is in reference to the Eastern Region System Strengthening Scheme VI (ERSS VI) being developed by Darbhanga-Motihari Transmission Company Ltd. (DMTCL).

This is to intimate you that the following Transmission Elements covered under the ERSS VI Transmission Scheme will be ready for charging on 30th Mar 2017:

- 1) 400 kV D/C Triple Snowbird Muzaffarpur – Darbhanga Transmission Line
- 2) 2 X 500 MVA 400/220 kV GIS Sub-station at Darbhanga

As the downstream system at 220 kV level to off take the power from 400/220 kV GIS Sub-station (of DMTCL) is in the scope of BSPTCL, it is requested to interconnect the 220 kV Transmission Lines along with installation of PLCC equipment at DMTCL end latest by 29th Mar 2017 for smooth flow of power.

Thanking You,

Yours faithfully

For Darbhanga-Motihari Transmission Co. Ltd.


(Authorized Signatory)


Copy to: Chief Engineer, (PSPM), Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi – 110 066
: Chief Engineer – Transmission, Bihar State Power Transmission Co. Ltd. (Lead LTTC)
: Chief Operating Officer (CTU), PGCIL, "Saudamini", Sec-29, Gurgaon, Haryana – 122001
: All LTTC.

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Darbhanga-Motihari Transmission Co. Ltd.

List of LTTCs:

1. Chief Engineer-PTR, West Bengal State Electricity Distribution Company Limited, Vidyut Bhawan, Kolkata -91	2. Dy. General Manager (Commercial), Power Grid Corporation of India Limited, HVDC Pusauli, Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) - 122001
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CTU Agenda for Validation Committee for Q2 POC (Jul'17 to Sep'17)
To be held on 31.05.17

Removal of BBMB LTA from POC billing for the period Oct'16-Mar'17

The transmission tariff of transmission assets of BBMB was included in the POC computations as per the CERC Order w.e.f. Jan'17 and the corresponding LTA of BBMB (approx 2800 MW) was included in the POC computations w.e.f. Q3POC of 2016-17 (Oct'16 to Dec'16) and hence the POC billing raised by the CTU to the beneficiary states of BBMB generation was inclusive of the transmission charges for the proportionate LTA from the BBMB generation.

The inclusion of LTA from BBMB generation in POC computations was contested by Rajasthan with Hon'ble Commission and the matter is under review by the Commission. Meanwhile, in the 1st Validation Committee meeting for Q1 POC 2017-18 (Apr'17-Jun'17) held on 24.03.2017, the above concern raised by Rajasthan was deliberated and it was decided that the LTA from BBMB generation not to be considered for POC computations from the current POC quarter until the matter is decided by Hon'ble Commission and accordingly, the LTA was excluded in the POC computations since Q1POC of 2017-18.

CTU submits that, during Oct'16-Mar'17 period in which the LTA was included in the POC computations and was billed by CTU, some of the beneficiary DICs disputed the billing, however, were making payment under protest. But Punjab disputed & disallowed the billing for the subject LTA and did not make payment for the LTA for the said period despite regular follow up & requests. As such, a huge amount of approx Rs 110 Crore is outstanding from Punjab on this account.

As the above matter of inclusion of LTA of BBMB generation in POC computations is under review by the Hon'ble Commission, the Validation Committee, in its last meeting on 24.03.2017, decided to exclude the LTA of BBMB generation from POC computations from Q1 POC of 2017-18 as mentioned above. In this regard, it is felt prudent to extend the same decision for the prior period of Q3 & Q4 POC of 2016-17 (Oct'16 to Mar'17) also so as to avoid dispute in POC billing & collection of transmission charges till a final decision is taken by the Hon'ble Commission in the matter.

Validation Committee may approve the above.

Point of Connection Charges and Losses Computation

July 2017 -September 2017 (Q2)

Meeting of the Validation Committee

Date : 31st May, 2017

**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 Q2 Case (July'17 - Sep'17)
 - ▣ 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 2017.

Demand Generation Projection



- Demand Projection
 - Projection based on last 3 year's average of corresponding month's (July, Aug, Sep) 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'16 to 30th June'17	70%
Hydro Units with DOCO from 1st Oct'16 to 30th June'17	100%
Gas Units with DOCO from 1st Oct'16 to 30th June'17	30%

Demand Projection



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

Generation Projection (Including New Generation)



- 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	1250
Mundra-Mahindergarh Pole-2	1250
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 NR)
Champa-Kurukshetra Pole-1	1500

Data not Received

- **Jammu & Kashmir**
- **Haryana**
- **Uttar Pradesh**
- **Goa**
- **DD**
- **DNH**
- **West Bengal**
- **Jharkhand**
- **Sikkim**
- **Andhra Pradesh**
- **Pondicherry**
- **Arunachal Pradesh**

Data not Received

- **AD Hydro**
 - **Everest**
 - **HBPCL**
 - **Sree cement**
 - **Maithon Power Ltd.**
 - **Adhunik Power**
 - **GMR Kamalanga**
 - **JITPL**
 - **Lanco Amarkantak**
 - **NSPCL Bhilai**
 - **SEPL+MEPL**
 - **LANCO Kondapalli**
- Balco**
- KSK Mahanadi**
- NLC**
- Vandana Vidyut**
- Sasan UMPP**
- Coastal Energen**
- Vallur**
- RGPPL**
- Tehri**
- TRN Energy**
- SGPL**

YTC Data received from Transmission Licensees

- ▣ Reliance Power Transmission Ltd.
- ▣ Adani Power Limited
- ▣ Aravali Power Company Pvt. Ltd.
- ▣ Darbhanga Motihari Transmission Company Ltd.
- ▣ Raichur Sholapur Transmission company Ltd.
- ▣ Parbati Koldam Trans. Co. 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.

- 
- ❑ **Jaypee Powergrid Limited**
 - ❑ **Kudgi Trans. Ltd.**
 - ❑ **Maheshwaram Trans. Ltd.**
 - ❑ **Patran Trans. Co. Ltd.**
 - ❑ **Torrent Power Grid Ltd.**
 - ❑ **POWERGRID Vizag Trans. Ltd.**
 - ❑ **POWERGRID NM Trans. Ltd.**
 - ❑ **POWERGRID Unchahar Trans. Ltd.**
 - ❑ **POWERGRID Warora Trans. Ltd.**
 - ❑ **Teestavalley Power Transmission Limited**
 - ❑ **North East Transmission Company Ltd.**
 - ❑ **Essar Power Transmission Company Ltd.**
 - ❑ **Jindal Power Ltd.**
 - ❑ **Power Grid Corporation of India Limited**
 - ❑ **Powerlinks Transmission Ltd.**

YTC Data received from State

- ▣ Delhi
- ▣ Karnataka
- ▣ Kerala
- ▣ Madhya Pradesh
- ▣ Assam
- ▣ Meghalaya

Points for Discussion



➤ Disbursement of Transmission Charges

- 400 kV D/C Muzaffarpur (PG) - Darbhanga transmission line
- LILO of both Ckts of 400 kV D/C Barh – Gorakhpur transmission line at Mothihari

➤ Escalable component as per CERC order

- NRSS-XXIX Transmission Ltd.
- Maheshwaram Transmission Ltd.

➤ Patran Transmission Company Ltd.

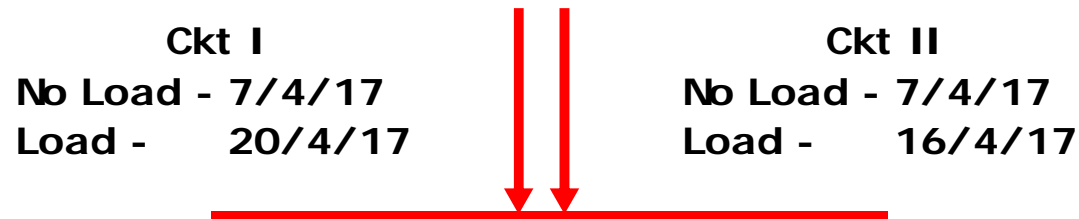
- Payment of Charges through PoC Mechanism

➤ PowerGrid Warora Transmission Ltd.

- Linked with commissioning of NTPC generation

Darbhanga Sub-station

From PGCIL Muzaffarpur SS



400 kV Darbhanga GIS

500 MVA ICT 1
No Load - 9/4/17
Load - 16/4/17



500 MVA ICT 2
No Load - 9/4/17
Load - 21/4/17



220 kV Darbhanga GIS

Samastipur
16/4/17

Motipur
CKT I - 18/4/17
CKT II - 22/4/17

Darbhanga
Supaul/Lokhi
Lines under construction





Thank You !!

Demand Projection – Northern Region

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Entity	Q2 (July-Sep'17) Projected Demand (MW) (Based on Peak Met figures of last 3 years) before normalization	Data Given by DICs/States
Chandigarh	338	
Delhi	5,898	6,000
Haryana	9,294	
Himachal Pradesh	1,326	1,221
Jammu & Kashmir	2,041	
Punjab	12,130	11,404
Rajasthan	8,748	8,959
Uttar Pradesh	16,928	
Uttarakhand	1,999	1,999
Total	58,701	
Normalization Factor	0.98	

Demand Projection – Eastern Region

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Entity	Q2 (July-Sep'17) Projected Demand (MW) (Based on Peak Met figures of last 3 years) before normalization	Data Given by DICs/States
Bihar	4,129	4,400
DVC	2,491	2,838
Jharkhand	1,231	
Odisha	4,102	4,186
West Bengal	7,735	
Sikkim	105	
Total	19,794	
Normalization Factor	0.98	

Demand Projection – Western Region

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Entity	Q2 (July-Sep'17) Projected Demand (MW) (Based on Peak Met figures of last 3 years) before normalization	Data Given by DICs/States
Chhattisgarh	3,821	3,666
Gujarat	13,912	14,100
Madhya Pradesh	7,037	8,000
Maharashtra	18,691	19,200
Daman & Diu	337	
Dadra Nagar Haveli	815	
Goa_WR	460	
ESIL Hazira	770	
Total	45,843	
Normalization Factor		0.98

Demand Projection – North-Eastern Region ²²

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Entity	Q2 (July-Sep'17) Projected Demand (MW) (Based on Peak Met figures of last 3 years) before normalization	Data Given by DICs/States
Arunachal Pradesh	144	
Assam	1,748	1,530
Manipur	155	154
Meghalaya	306	319
Mizoram	86	93
Nagaland	124	129
Tripura	280	415
Total	2,842	
Normalization Factor	0.98	

Demand Projection – Southern Region

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Entity	Q2 (July-Sep'17) Projected Demand (MW) (Based on Peak Met figures of last 3 years) before normalization	Data Given by DICs/States
Andhra Pradesh	8,116	
Telangana	8,321	8,205
Karnataka	9,368	
Kerala	3,589	3,554
Tamil Nadu	15,031	14,800
Pondicherry	371	
Goa- SR	80	
Total	44,874	
Normalization Factor	0.98	

Generation Projection – Northern Region ²⁴

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
1	UP	7458	<u>432</u>	-	7890		
2	Delhi	1241	-	-	1241	As per data given by Delhi	712
3	Haryana	2796	-	-	2796		
4	Uttarakhand	951	-	178	1129	As per data given by Uttarakhand	1288
5	Punjab	5196	-	-	5196	As per data given by Punjab	5511
6	Rajasthan	6139	-	864	7003	As per data given by Rajasthan	8516
7	Himachal Pradesh	936	-	-	936	As per data given by HP	673
8	Jammu & Kashmir	973	-	-	973		
9	BBMB	2569	-	-	2569	As per data given by BBMB	2564

Generation Projection – Northern Region ...(2) 25

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C (MW)	Comments From DICs /States (if any)	Figure as per Comments (MW)
		(MW)	(MW)	(MW)	(MW)		(MW)
10	Dadri Thermal	1740	-	-	1740	As per data given by NTPC	1697
11	Rihand	2828	-	-	2828		2807
12	Singrauli	1912	-	-	1912		1863
13	Unchahar	976	-	-	976		956
14	Auraiya	351	-	-	351		150
15	Dadri CCPP	488	-	-	488		400
16	NAPS	330	-	-	330	As per NAPS	400
17	Jhajjar	865	-	-	865	-	
18	Dhauliganga	263	-	-	263	As per forecasted Gen. given by NHPC	280
19	Tanakpur	99	-	-	99		94
20	Koteshwar	393	-	-	393	As per Koteshwar	400
21	Tehri	1021	-	-	1021	-	
22	Anta	318	-	-	318	As per data given by NTPC	150
23	RAAP B	370	-	-	370	-	
24	RAAP C	418	-	-	418	-	
25	AD Hydro	228	-	-	228	-	
26	Everest	105	-	-	105	-	
27	Karcham Wangtoo	1185	-	-	1185	-	

Generation Projection – Northern Region ... (3)

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S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C (MW)	Comments From DICs /States (if any)	Figure as per Comments (MW)
28	Bairasul	186	-	-	186	As per forecasted data given by NHPC	180
29	Chamera 1	559	-	-	559		542
30	Chamera 2	311	-	-	311		307
31	Chamera 3	249	-	-	249		234
32	Naptha Jhakri	1620	-	-	1620	As per SJVN	1605
33	Lanco Budhil	98	-	-	98	-	
34	Dulhasti	460	-	-	460	As per forecasted data given by NHPC	395
35	Salal	686	-	-	686		675
36	Sewa-II	129	-	-	129		128
37	URI I HPS	488	-	-	488		480
38	URI II HPS	236	-	-	236		240
39	Sree Cement	300	-	-	300	-	
40	Parbati III	531	-	-	531	As per forecasted data given by NHPC	520
41	Rampur HEP	460	-	-	460	As per SJVN	420
42	Koldam	867	-	-	867	As per data given by NTPC	792

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

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C (MW)	Comments From DICs /States (if any)	Figure as per Comments (MW)
43	West Bengal	4907	-	-	4907	-	
44	Odisha	3767	-	-	3767	Forecasted peak injection as given by GRIDCO	3286
45	Bihar	394	-	-	394	As per Bihar	490
46	Jharkhand	317	-	-	317	-	
47	Sikkim	0	-	-	0	-	
48	Chujachan	115	-	-	115	-	
49	DVC	3438	-	-	3438	As per data given by DVC (Average)	3740
50	Durgapur Steel		-	-			
51	Koderma TPP		-	-			
52	Raghunathpur						
53	Bokaro TPS Expn.						
54	MPL	1006	-	-	1006	Last quarter Gen.	990

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'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C (MW)	Comments From DICs /States (if any)	Figure as per Comments (MW)
55	Teesta	532	-	-	532	As per forecasted data given by NHPC	525
56	Kahalgaon	2203	-	-	2203	As per data given by NTPC	2178
57	Farakka	1972	-	-	1972		1968
58	Talcher	974	-	-	974		
59	Rangeet	73	-	-	73	As per forecasted data given by NHPC	63
60	Corporate Power		-	-			
61	Adhunik Power	399	-	-	399	-	
62	Barh	1147			1147	As per data given by NTPC	1057
63	Kamalanga TPP (GMR)	629	-	-	629	-	
64	JITPL	1153	-	-	1153		
65	Jorthang	105	-	-	105		
66	Bhutan	1603	-	-	1603	-	-
67	Teesta-III	-	-	594	594		
68	Dikchu HEP	-	-	95	95		
69	Nabinagar BRBCL	-	-	301	301		

Generation Projection – Western Region...(1) 29

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C (MW)	Comments From DICs /States (if any)	Figure as per Comments (MW)
70	MP	3310	-	-	3310	As per forecasted gen. given by MP	5020
71	Maharashtra	12521	864	-	13385	As per data given by Maharashtra	14500
72	Chhattisgarh	1839	-	-	1839	As per data given by Chhattisgarh	2622
73	Gujarat	10375	-	164	10539	As per data given by Gujarat	11484
74	Goa	--	-	-	--		
75	D&D	--	-	-	--		
76	DNH	--	-	-	--		
77	Vindhyachal	4372	-	-	4372	As per NTPC	4440
78	Ratnagiri Dabhol	650	-	-	650		
79	TAPS (1,2,3,4)	1228	-	-	1228	As per data given by TAPS	1228
80	JINDAL	678	-	-	678		
81	LANCO	564	-	-	564		
82	NSPCL Bhilai	470	-	-	470		
83	Korba	2468	-	-	2468	As per NTPC	2431

Generation Projection – Western Region ... (2) 30

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
84	SIPAT	2878	-	-	2878	As per NTPC	2809
85	CGPL	3840	-	-	3840	-	
86	Mauda	837	432		1269	As per NTPC	1135
87	Gandhar	420	-	-	420		200
88	Kawas	302	-	-	302		200
89	SSP	1260	-	-	1260		
90	KAPS	217	-	-	217		
91	Essar Mahan	431	-	393	824		
92	BALCO	531	-	-	531	-	
93	KSK Mahanadi	1134	-	393	1526		
94	Vandana Vidyut	0		-	0		
95	Sasan UMPP	3723	-	-	3723		
96	Tamnar TPP	604	-	-	604		

Generation Projection – Western Region ... (3) 31

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S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
97	DGEN	339	-	-	339	As per DGEN Power	0
98	DB Power	1139	-	-	1139		
99	Korba West	567	-	-	567		
100	Dhariwal	264	-	-	264		
101	GMR Chattishgarh Energy Ltd.	354	-	-	354		
102	JP Nigrie	1250	-	-	1250	As per data given by JP Nigrie	1240
103	GMR Warora	557	-	-	557		
104	ACBIL+ Spectrum+MCCPL	576	-	-	576		
105	MB Power (Anuppur)	568	-	-	568		
106	RKM Power	-	<u>232</u>	232	464		
107	Jhabua Power	0	-	-	0	Last Quarter Generation	552
108	TRN Energy	-	<u>196</u>	196	393		
109	Sholapur STPP	-		435	435	As per NTPC	435

Generation Projection – North-Eastern Region

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
110	AGTPP, NEEPCO	132	-	-	132	As decided in 132nd OCC meeting	132
111	Doyang, NEEPCO	73	-	-	73		74
112	Kopili, NEEPCO	228	-	-	228		198
113	Khandong, NEEPCO	48	-	-	48		66
114	Ranganadi, NEEPCO	421	-	-	421		408
115	AGBPP_Kathalguri	209	-	-	209		220
116	Loktak, NHPC	107	-	-	107		105

Generation Projection – North-Eastern Region³³

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S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
117	Palatana GBPP	564			564	As decided in 132 nd OCC meeting	547
118	Bongaigaon_NTPC	239		-	239		230
119	Arunachal Pradesh	0			0		-
120	Assam	356			356		241
121	Manipur	0			0		-
122	Meghalaya	248			248		271
123	Nagaland	30			30		24
124	Tripura	120			120		180
125	Mizoram	6			6		8

Generation Projection – Southern Region...(1)³⁴

S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
126	Andhra Pradesh	6551	-	<u>340</u>	6891		
127	Telangana	2805	785	-	3591	As per data given by Telangana	6515
128	Karnataka	6475	-	-	6475	-	
129	Kerala	1610	-	-	1610	As per Kerala	1533
130	Tamil Nadu	9808	-	-	9808	As per data given by TN	10267
131	Pondy	0	-	-	0	-	
132	Ramagundam	2470	-	-	2470	As per NTPC	2431
133	Simhadri	915	-	-	915		948
134	SEPL	464	-	-	464	-	
135	Lanco Kondapalli	916	-	-	916		

Generation Projection – Southern Region...(2)

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S. No.	Entity	Projections based on 3 Years Data (A)	Generation addition during 1st Oct'16 – 31st Mar'17 (B)	Generation CoD from 1st Apr'17 to 30 th June'17 (C)	TOTAL D=A+B+C	Comments From DICs /States (if any)	Figure as per Comments
		(MW)	(MW)	(MW)	(MW)		(MW)
136	Kaiga	737	-	-	737		
137	NEYVELI (EXT) TPS	448	-	-	448		
138	NEYVELI TPS-II	1200	-	-	1200		
139	NEYVELI TPS-II EXP	398	-	-	398		
140	MAPS	339	-	-	339		
141	Vallur	1388	-	-	1388		
142	Meenakhshi	257	-	-	257		
143	Coastal Energen	730	-	-	730		
144	Kudankulam	978	935	-	1913		
145	Tuticorin TPP	926	-	-	926		
146	Thermal Powertech	1252	-	-	1252		
147	IL&FS	555	-	-	555		
148	Talcher Stage-II	1875	-	-	1875		
149	Sembcorp Gayatri Power Ltd.	-	<u>864</u>	-	864		
150	Kudgi STPS	-		524	524	As per NTPC	524

Expected Generation addition – Northern Region

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	Generation declared Commercial from 1st Oct '16 to 31st Mar'17					Generation declared/expected to be declared Commercial from 1st Apr'17 to 30th June'17				
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)
UP	Bara	3	660	432	432					
Uttarakhand						Shravanti Gas	4	75	59	178
						Shravanti Gas	5	75	59	
						Shravanti Gas	6	75	59	
Rajasthan						Chhabra	5	660	432	864
						Suratgarh	7	660	432	

Expected Generation addition – Western Region

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	Generation declared Commercial from 1st Oct '16 to 31st Mar'17					Generation declared/expected to be declared Commercial from 1st Apr'17 to 30th June'17				
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)
Maharashtra	Koradi TPS	9	660	432	864					
	Koradi TPS	10	660	432						
Gujarat						Bhavnagar TPP	2	250	164	164
Mauda	Mauda	3	660	432	432					
Essar Mahan						Essar Mahan	2	600	393	393
KSK Mahanadi						KSK Mahanadi	3	600	393	393
RKM Power	RKM Power	2	360	232	232	RKM Power	3	360	232	232
TRN Energy	TRN Energy	1	300	196	196	TRN Energy	2	300	196	196
Sholapur STPP						Sholapur STPP	1	660	435	435

Expected Generation addition – Eastern Region

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Entity	Generation declared Commercial from 1st Oct '16 to 31st Mar'17					Generation declared/expected to be declared Commercial from 1st Apr'17 to 30th June'17				
	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total
			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)
Teesta- III						Teesta- III	1	200	198	594
						Teesta- III	2	200	198	
						Teesta- III	3	200	198	
Dikchu HEP						Dikchu HEP	1	48	48	96
						Dikchu HEP	2	48	48	
Nabinagar BRBCL						Nabinagar BRBCL	1	230	151	151
						Nabinagar BRBCL	2	230	151	151

Expected Generation addition – Southern Region

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	Generation declared Commercial from 1st Oct '16 to 31st Mar'17					Generation declared/expected to be declared Commercial from 1st Apr'17 to 30th June'17				
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)
Andhra Pradesh						Hinduja	2	520	340	340
Telangana	Singereni Thermal	1	600	393	785					
	Singereni Thermal	2	600	393						
Kudankulam	Kudankulam	2	1000	935	935					
Sembcorp Gayatri Power Ltd.	Sembcorp Gayatri Power Ltd.	1	600	432	864					
	Sembcorp Gayatri Power Ltd.	1	600	432						
Kudgi STPS						Kudgi STPS	1	800	524	524

Comparison of Demand for Q4-16-17

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Northern Region			
State/Region/System	Actual Peak Demand Met (MW)	Projected Demand (MW)	Change (in %)
Chandigarh	215	261	↓ -18%
Delhi	4063	3950	↑ 3%
Haryana	6680	7313	↓ -9%
Himachal Pradesh	1490	1484	↓ 0%
Jammu & Kashmir	2090	2135	↓ -2%
Punjab	6377	6100	↑ 5%
Rajasthan	10180	10275	↓ -1%
Uttar Pradesh	14862	14500	↑ 2%
Uttarakhand	1951	2000	↓ -2%

Eastern Region

State/Region/System	Actual Peak Demand Met (MW)	Projected Demand (MW)	Change(in %)
Bihar	3598	3600	↑ 0%
DVC	2563	2645	↓ -3%
Jharkhand	1145	1170	↓ -2%
Orissa	3911	4058	↓ -4%
West Bengal	6985	7397	↓ -6%
Sikkim	91	118	↓ -23%

Western Region

Chhattisgarh	3380	3767	↓ -10%
Gujarat	13739	13960	↓ -2%
Madhya Pradesh	10696	10078	↓ 6%
Maharashtra	21237	19200	↑ 11%
Daman & Diu	309	305	↑ 1%
Dadra Nagar Haveli	722	765	↓ -6%
Goa	492	425	↑ 16%

Contd..

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Southern Region

State/Region/System	Actual Peak Demand Met (MW)	Projected Demand (MW)	Change (in %)
Andhra Pradesh	7510	7792	↓ -4%
Telangana	8841	7500	↑ 18%
Karnataka	9968	9483	↑ 5%
Kerala	3694	3598	↑ 3%
Tamil Nadu	13844	14800	↓ -6%
Pondicherry	339	332	↑ 2%

North Eastern Region

Arunachal Pradesh	131	121	↑ 8%
Assam	1417	1365	↑ 4%
Manipur	161	160	↑ 1%
Meghalaya	310	337	↓ -8%
Mizoram	95	93	↑ 2%
Nagaland	130	130	↓ 0%
Tripura	225	250	↓ -10%