

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:3/5/2013

To

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

Subject: Minutes of the third Meeting of Validation Committee for the year 2013 – 2014 (2nd Quarter: July-September,2013) for implementation of CERC (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2010.

Sir,

Third meeting of the Validation Committee for the implementation of CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations 2010 for the year 2013-14 (Second Quarter : July - September 2013) was taken by Chief (Engg.), CERC on 30th April 2013 in the NLDC Conference Room at New Delhi.

A copy of minutes of the meeting is enclosed for information and necessary action.

Sd-

(Vijay Menghani)
Joint Chief (Engg)

Copy to: Secretary, CERC

Validation Committee Members

Sl. No.	Name of the Organisations	Name of the nominated persons	Address
1.	CERC	Shri A K Saxena, Chief (Engg.)/ alternate member Shri Vijay Menghani, Joint 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	Shri Ravinder Gupta Director, SP&PA 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 N.K.Jain, GM (Comm.)/ alternate member Shri Prashant Sharma, 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 V.V. Sharma, General Manager	Northern Regional Load Despatch Centre,et Singh Marg, Katwaria Sarai, New Delhi-110016
8.		Shri P.R. Raghuram, General Manager	Southern Regional Load Despatch Centre 29, Race Course Cross Road, Bangalore, Karnataka-560009
9.		Shri V.K. Agarwal, Executive Director	National Load Despatch Centre 18-A Shaheed Jeet Singh, Marg,Katwaria Sarai, New Delhi-110016
10.		Shri U.K. Verma, General Manager	Eastern Regional Load Despatch Center 14, Golf Club Road, Tollygunge, Kolkata-700 033 (W.B.)

11.	NRPC	Shri P.K. Pahwa, Member Secretary	Northern Regional Power Committee 18-A Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-11
12.	WRPC	Shri S.D. Taksande, Member Secretary (I/C)	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(I/C)	CEA,Southern Regional Power Committee 29, Race Course Cross Road, Bangalore-560009, Karnataka
14.	ERPC	Shri A.K. Bandyopadhyay, Member Secretary (I/C)	Eastern Regional Power Committee 14, Golf Club Road, Tollygunge, Kolkata-700 033 (W.B.)
15.		Shri T.T. Jha, Member (Transmission),	Bihar State Electricity Board 1 st Floor, Vidyut Bhawan, Bailey Road, Patna-21, Bihar
16.	NERPC	Member Secretary (I/C)	North Eastern Regional Power Committee Meghalaya State Housing Finance Co- Operative Society Ltd.BLDG., Nongrim Hills, Shillong-793003
17.		Shri Jatin Baishya, Senior 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	S.Pratap Kumar 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 Inderjit Kapoor, Director (Commercial)	NTPC Bhawan, Core 7, Scope Complex, Institutional Area, Load Road, New Delhi – 110003
2.	NHPC	Shri S.K. Agarwal, Executive Director (O&M)	NHPC office Complex, Sector-33, Faridabad – 121003 (Haryana)
3.	NEEPCO	Shri N.K. Chakraborty, Executive Director	Brookland Compound, Lower New Colony, Shillong - 793003
4.	NLC	Shri Sekar K, Director (Commercial)	No.135, Periyar E.V.R. High Road, Kilpauk, Chennai - 600 010. Tamil Nadu, India. .
5.	SJVNL	Shri R.K. Agrarwal, General Manager (Commercial)	SJVN, IRCON Building, Ground Floor, Saket, New Delhi-110017

Minutes of the 3rd Meeting of the Validation Committee for the year 2013-14, (2nd Quarter July 2013-Sept 2013), held on 30th April 2013 at NLDC, New Delhi.

The Chairman of the Validation Committee, Shri A K Saxena, Chief (Engg.), CERC welcomed the participants present in NLDC Conference Room and also the other participants of RPCs, RLDCs and STUs and Generating Companies present at the Conference Room of WRLDC, SRLDC, ERLDC and NERLDC through video conferencing. List of the participants is enclosed at **Annexure-I**.

Chief (Engg.), CERC stated that the 3rd meeting of the validation committee for year 2013-14 (Second Quarter : July - Sept., 2013) has been convened to consider load and generation data for consideration of load flow for implementation of CERC (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2010.

NLDC gave a presentation on demand and generation data.

While discussing the contribution from the new generating units for Q2 case, Chief (Engg.), CERC enquired NLDC whether some analysis based on previous experience has been done to assess reasonability of assumption. He further mentioned that availability of coal from domestic sources was not adequate and overall PLF of thermal power stations in the country has been declining and was of the order of 70% during 2012-13. After discussion it was decided that PLF of 70% (instead of 80%) be considered for new thermal units expected to be Commissioned considered by 30th June 2013. However, being high Hydro period, 60 % PLF as proposed earlier shall be considered for new hydro stations planned to be commissioned by 30th June' 2013. It was also decided that the comparison of projection in respect of demand & generation figures considered for Q1 Case (Apr'13-Jun'13) with actual data, would be done during validation for Q3 period (Oct'13-Dec'13) with a view to improve assessment/estimation.

The region-wise demand, generation and new generation addition were discussed as given in the following paragraphs:

Demand Projections

Northern Region (NR)

- 6.1 SE (O), NRPC mentioned that observations of NRPC if any, in regard to demand projections of NR will be communicated by 6/5/13.

Western Region (WR) and North eastern region (NER)

- 6.2 The demand projections for Western, and North eastern Regions were found to be in order.

Eastern Region (ER)

- 6.3 In the eastern region, ERLDC suggested that the projected figure in respect of demand of DVC system was on lower side and an average figure of 2350-2400 MW needs to be considered. The demand figures in respect of Jharkhand were also stated to be on lower side. ERLDC mentioned that presently, daily demand of about 21 MU was being met in Jharkhand. Accordingly ERLDC suggested that 825MW might be considered as demand of Jharkhand.
- 6.4 GRIDCO opined that Odisha's demand is on the higher side. Owing to the load shedding being carried out by the DISCOMs and the upcoming rainy season, a demand figure of 2700 MW was proposed by GRIDCO.
- 6.5 Jt Chief (Engg), CERC stated that DVC, Jharkhand and GRIDCO may submit demand projections along with the rationale in writing by 6th May, 2013.
- 6.6 In Southern Region, Karnataka pointed out that demand projection in respect of the state is on higher side and an average demand of 6877 MW may be considered. Karnataka was also requested to confirm the demand in writing by 6th May, 2013.

Generation Projections

Northern Region

7.1 NRLDC suggested that Haryana's own generation figure should be around 2500 MW. NRLDC was requested to indicate the demand in consultation with Haryana.

7.2 NHPC pointed that the generation projections for their generating stations were in order. NHPC also suggested that the Normative Auxiliary Consumption (NAC) for BairaSiul may be considered as 1% instead of 0.7%.

Western Region

7.3 For Ratnagiri (Dabhol) generation, WRLDC suggested that the figure may be considered as 350MW due to gas shortage.

Eastern Region

7.4 In Eastern Region, GRIDCO suggested that the generation figure for Odisha (including embedded IPPs / CPPs generation) be taken as 2230 MW.

North Eastern Region

7.5 NERLDC pointed out that generations in respect of Meghalaya was on lower side. New Units of Leshka 42.5 MW and Meghalaya Power Limited 8 MW, which have been commissioned, should also be considered.

Southern Region

7.6 In Southern Region, Karnataka mentioned that the projected generation figures were low due to non-consideration of generation by IPPs, and Non-conventional Energy sources. Karnataka agreed to confirm figures in writing. Also their conventional generations figures are not correct.

7.7 Jt. Chief (Engg.), CERC requested Karnataka to take up the above issue with OPM Division of CEA so that in future there is no mis-

match between their data and CEA data. Tamil Nadu was also advised to submit Wind Data for Q2.

- 7.8 It was intimated that LANCO Kondapalli has stopped generation due to non-availability of gas and last year's generation figure of 98 MW shall be considered.

New generation

- 8.1 During the last meeting of the Validation Committee held on 7-2-2013, POWERGRID had intimated that due to non commissioning of new units considered for H₂ Case there was under-recovery of transmission charges from the DICs. Validation Committee discussed this in detail with all the RPCs/ RLDCs and decided that the Units expected to achieve Commercial Operation by 30th June would only be considered for Q2 Case.
- 8.2 Chief Manager, NRLDC pointed out that if a thermal units is to be in commercial operation by 30th June, it should be commissioned at least 3 months prior to expected CoD. Validation Committee decided that the new thermal and nuclear generating units which will get not synchronized till 15th May, 2013 would only be considered for Q2 Case.
- 8.3 NLDC pointed that as decided in last meeting, if a transmission asset was considered in previous case but had not achieved commercial operation during the same period, it shall not be considered for next case until it achieves commercial operation. For generation also the condition would be applicable. POWERGRID was requested to submit the list of such assets.
- 8.4 NHPC representative suggested that Uri II Units would be under commercial operation only after June and may therefore, not be considered for Q2 Case. Further two Units of Parbati III would be declared commercial by end of Q1. Two Units of Teesta Low Dam have achieved commercial operation, and two more units would be

under commercial operation by end of Q1. Nimmo Bazgo shall not to be considered in network as it is operating in island mode.

Northern Region

8.5 NRLDC suggested that Bawana CCGT III Block 2 may not be considered for Q2 case as DTL data does not include the same. The problem could be gas shortage. NRLDC was advised to confirm it with DTL/IPGCL.

Western Region

8.6 WRLDC suggested that Tiroda Unit 3, KSK Mahanadi Unit 1 and Jindal Unit of 600 MW may be considered in new generation. Two units at BALCO are also ready, which should be considered.

Eastern Region

8.7 In ER only Adhunik Power Unit II is expected by 30th June 2013. Hence, the same may be considered and all other new units may not to be considered.

8.8 In Sikkim, Chujachan 2 Units of 55 MW each are expected and their contribution may be considered at 60 % PLF.

Southern Region

8.9 MS SRPC stated that (a) Neyveli II Exp is not likely to be in commercial operation by June,2013 and may therefore, not to be considered for Q2 Case. (b) Vallur Unit I has achieved commercial operation and Unit II was likely to come by end of May, 2013.

8.10 MS SRPC agreed to take up the schedule of operation of Kudankulam NPP with NPCIL, and intimate to NLDC by 6th May, 2013.

8.11 MS SRPC stated that SEPL# 2 is to be considered for Q2 Case. Further it was intimated that MEPL Unit 1 has achieved Commercial operation, Unit 2 to commercial in 10-15 days.

It was intimated that set points of Bhadrawati, Gazuwaka & Talcher in base

case to be fixed as under:

Bhdrawati-850MW from WR to SR

Gajuwaka-600MW from ER to SR

Talcher-Kolar - 2000MW from ER to SR

Implementing Agency (NLDC) submitted that only a few DICs had submitted technical data for PoC Computation. As the State network has been undergoing major updation and new assets have been added to the State Network, it is necessary that the details may be submitted for updating the PoC Base Case and arriving at realistic results. It was therefore, decided that the States would submit updated network data and node-wise load / generation data for PoC Computation latest by 6th May 2013. Jt. Chief (Engg), CERC stated that for data required for load flow studies, a request will be published on website of CERC. In case of non-submission of required data, necessary action may be initiated by the CERC against the defaulting agency as per provisions of PoC Regulations.

It was also decided that POWERGRID would file tariff petitions for the assets expected during Q2 by 15th May 2013.

After discussion the following timeline for computation of PoC Charges for Q2 were agreed:

S.No.	Time line	Action
	6th May, 2013	Submission of Node wise data by States/DICs
	15th May, 2013	4th Validation Committee Meeting
	15th May, 2013	Last Day for submission of tariff petitions by transmission licensees
	20th May, 2013	Provisional tariff Orders by CERC
	21st May, 2013	Submission of Final YTC data to the IA by transmission licensees.
	25th May, 2013	Submission of proposals by IA to CERC in regard to Slab Rates for

Q2

30th May, 2013	Order by CERC on Slab Rate
13th June, 2013	Submission of Final Result by the IA to CERC
20th June 2013	Final order on PoC Charges and Losses by CERC

All the stakeholders were requested to submit the required information latest by 6th May 2013 through e mail to NLDC with a copy to CERC.

Next Meeting of the Validation Committee will be held at 11.00 on 15th May, 2013. It was decided that in future periods the Validation Committee meeting shall be held on 15th and 30th of the first month of every quarter so that the computation of PoC charges could be completed one month prior to the quarter for which PoC charges & losses were being decided. Chief (Engg.), CERC expressed thank to NLDC and RLDCs for arranging the facilities for video conferencing and to the participants at NLDC and RLDCs for their participation and contribution.

The meeting ended with the thanks to the Chair.

*P.S : The file on projected generation for Q2 has been modified and is attached at **Annexure-II**. Changes suggested in the meeting are yet to be incorporated and the same would be done after receipt of written confirmation from the DICs by 6th May 2013.*

**List of participants in the Second meeting of the Validation Committee held on
30th April, 2013 at NLDC, New Delhi**

CERC

1. Shri A K Saxena, Chief (Engg.) – In Chair
2. Shri Vijay Menghani, Joint Chief (Engg.)
3. Shri Vikram Singh, Dy. Chief (Engg.)

NHPC

1. Shri Rajesh Joshi, Dy. Manager
2. Ms Tulika Sinha, Manager

NLDC, POSOCO

1. Shri V.K. Agrawal, ED
2. Shri S.S. Barpanda, DGM
3. Shri S.R. Narasimhan, DGM
4. Shri A. Mani, GM
5. Shri Mohit Chandra Joshi, Engineer
6. Ms. Vaishally Bhardwaj, Engineer
7. Shri Gaurav Verma, Engineer

POWERGRID

1. Shri R.V. Madan. Mohan. Rao , Chief Manager
2. Shri Prashant Sharma, GM (Commercial)
3. Shri V.Srinivas, DGM (Commercial)

NRPC

1. Shri Ajay Talegaonkar, S.E. (O)

List of Participants (Through Video Conferencing with NLDC)

WRLDC, POSOCO

1. Shri P.Pentayya, GM
2. Ms Chitranshi, Senior Engineer
3. Ms S. Usha, CM (MO-I)
4. Shri L.K.S Rathore, DD
5. Shri P.D. Lane, DD
6. Shri A. Gartia, DGM

SRPC

1. Shri S.R. Bhat, Member Secretary I/C
2. Shri Anil Thomas, EE

SRLDC

1. Shri V. Balaji, DGM
2. Shri G. Madhukar , Sr. Engineer
3. Shri P.R. Raghuram, ED

KPTCL

1. Shri G. Bhimsha, SEE
2. Shri J. Ramakantha, EEE/SLDC

WBSETCL

1. Shri A.K. Dutta, AE(E)
2. Shri S.K. Bag, DE (E)
3. Shri R. Das, DE (E)

GRIDCO

1. Shri S.K. Maharana, Dy. Manager

OPTCL

1. Shri S.K. Panigrahi, Manager

BSPHCL

1. Shri S.K. Sengupta, RE

SLDC, Bhubanswar

1. Shri Prashant Kumar Das, AGM

ERLDC

1. Shri P. Mukhopadhaya, G.M
2. Shri P.S.Das, Chief Manager
3. Shri D. K. Srivastava, AGM
4. Shri U.K. Verma, GM
5. Shri G. Chakraborty, CM
6. Shri D.K.Shrivastava,DGM

ERPC

1. Shri B. Sarkhel, SE(PS)
2. Shri Mohan Jha, EE

NERLDC

1. Shri Amaresh Mallick, Chief Manager
2. Shri R. Chakrabarti, Engineer
3. Shri T.Gidon, AEE,SLDC

Generation Figures for Q2 case (ANNEXURE-II)

				Generation After Sep'12 till 1st May'13					Expected Generation Likely to be declared Commercial by 30th June 2013					
Sl. No.	Entities	Region	Projections based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	TOTAL
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)
1	UP	NR	3992	Harduaganj	8	250	161	1320						5312
				Harduaganj	9	250	161							
				Paricha	5	250	161							
				Paricha	6	250	161							
				Rosa-II TPS	1	300	193							
				Rosa-II TPS	2	300	193							
				Bajaj		450	290							
2	Delhi	NR	1106											1106
3	Haryana	NR	2203											2203
4	Uttarakhand	NR	727						Bhilangana	1	8	5	80	807
				Bhilangana	2	8	5							
				Bhilangana	3	8	5							
				Shravanti (Gas Plant)	1	75	22							
				Shravanti (Gas Plant)	2	75	22							
				Shravanti (Gas Plant)	3	75	22							
5	Punjab	NR	2566											2566
6	Rajasthan	NR	2817	Rajwest	5	135	87	728	Rajwest	7	135	87	381	3926
				Rajwest	6	135	87							
				Chhabra-II	1	250	161							
				Kalisindh *										
				(Generation Considered in H2 but uncertainty in commissioning)	1	600	393							
7	Himachal Pradesh	NR	701											701
8	Jammu & Kashmir	NR	582	Nimmo Bazgo	1	15	9	27						609
				Nimmo Bazgo	2	15	9							
				Nimmo Bazgo	3	15	9							
9	BBMB	NR	1799											1799
10	Chandigarh	NR	0											0
11	Railways	NR	0											0
12	Dadri Thermal	NR	1314											1314
13	Rihand	NR	1546	Rihand III	5	500	327	327						1873
14	Singrauli	NR	1601											1601
15	Unchahar	NR	830											830
16	Auraiya	NR	403											403
17	Dadri CCPP	NR	526											526
18	NAPS	NR	264											264
19	Jhajjar	NR	873	Jhajjar	3	500	327	327						1200
20	DHAULIGANGA	NR	260											260

Generation Figures for Q2 case (ANNEXURE-II)

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Sl. No.	Entities	Region	Projections based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	TOTAL		
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)		
21	Tanakpur	NR	87											87		
22	Koteshwar	NR	187											187		
23	Tehri	NR	659											659		
24	Anta	NR	286											286		
25	RAAP A,B,C	NR	799											799		
26	AD Hydro	NR	171											171		
27	Everest	NR	88											88		
28	Karcham Wangtoo	NR	969											969		
29	Bairasul	NR	112											112		
30	Chamera 1	NR	500											500		
31	Chamera 2	NR	271											271		
32	Chamera 3	NR	207											207		
33	Naptha Jhakri	NR	1352											1352		
34	Lanco Budhil	NR	48											48		
35	DULHASTI	NR	352											352		
36	Salal	NR	606											606		
37	Sewa-II	NR	74											74		
38	URI 1 HPS	NR	404											404		
39	URI II HPS	NR		Uri-II	1	60	36	143							143	
				Uri-II	2	60	36									
				Uri-II	3	60	36									
				Uri-II	4	60	36									
40	Sree Cement	NR	220												220	
41	Parbati III	NR		Parbati-III	1	130	77	154							154	
				Parbati-III	2	130	77									
42	West Bengal	ER	3507	TLDP III	1	33	20	78								3585
				TLDP III	2	33	20									
				TLDP III	3	33	20									
				TLDP III	4	33	20									
43	Odisha	ER	1419	Navbharat Ventures		64	41	41							1460	
44	Bihar	ER	28												28	
45	Jharkhand	ER	358												358	
46	Sikkim	ER	0												0	
47	DVC	ER	2543	Koderma TPP	1	500	327	655							3198	
				DSTPS	2	500	327									

Generation Figures for Q2 case (ANNEXURE-II)

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Sl. No.	Entities	Region	Projections based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	TOTAL
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)
48	MPL	ER	562											562
49	Sterlite	ER	928											928
50	Teesta	ER	454											454
51	Kahalgaon	ER	1307											1307
52	Farakka	ER	1060											1060
53	Talcher	ER	636											636
54	Rangeet	ER	59											59
55	Corporate Power	ER												0
56	Adhunik Power	ER		Adhunik Power	1	270	174	174	Adhunik Power	2	270	174	174	348
57	GMR	ER		GMR	1	350	225	225						225
58	Bhutan	ER	1356											1356
59	MP	WR	2280	JP Bina Power TP	1	250	161	322	Satpura TPP Extn.	10	250	161	161	2763
				JP Bina Power TP	2	250	161							
60	Maharashtra	WR	7203	Vidarbha Power Ltd.	1	300	193	1320	Adani Power Maharashtra Ltd.-Tiroda	1	660	431.97	799	9322
				Adani Power Maharashtra Ltd.-Tiroda	2	660	432							
				Bela TPP	1	270	174		India Bulls Amravati	1	270	173.88		
				EMCO, Warora TPP Ph I & II	1	300	193		EMCO Warora	2	300	193.2		
				Bhusawal II	2	500	327							
61	Chattisgarh	WR	1345						Swastik TPP	1	25	16	671	2015
				Korba West Extn.	5	500	327							
				Marwa TPS	1	500	327							
62	Gujarat	WR	7082	UNO-Sugen	1	382.5	111	591						7674
				Pipavav-CCPP	1	350	102							
				Ukai	6	500	327							
				Pipavav-CCPP	2	351	51							
63	Goa	WR	31											31
64	D&D	WR	0											0
65	DNH	WR	0											0
66	Vindhyachal	WR	2443	Vindhyachal St-IV Unit I	1	500	327	327						2771
67	Ratnagiri Dabhol	WR	1081											1081
68	TAPS (1,2,3,4)	WR	1009											1009
69	JINDAL	WR	816											816

Generation Figures for Q2 case (ANNEXURE-II)

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Sl. No.	Entities	Region	Projections based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Total	TOTAL
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)
98	Mizoram	NER	6											6
99	Andhra Pradesh	SR	6902											6902
100	Karnataka	SR	3346	Bellary	2	500	327	720						4066
				Udupi Power Corporation Limited, Unit#2	2	600	393							
101	Kerala	SR	884											884
102	Tamil Nadu	SR	3685	Mettur Stg III	1	600	393	785						4470
				North Chennai		600	393							
103	Pondy	SR	26											26
104	Ramagundam	SR	2138											2138
105	Simhadri	SR	549	Simhadri Stg II	4	500	327	327						876
106	SEPL	SR	214											214
107	Lanco Kondapalli	SR	214											214
108	Kaiga	SR	530											530
109	NEYVELI (EXT) TPS	SR	378											378
110	NEYVELI TPS-II	SR	1049											1049
111	NEYVELI TPS-II EXP	SR	0						NEYVELLI II EXP	1	250	158	158	158
112	MAPS	SR	292											292
113	Vallur	SR		Vallur (ISGS)	1	500	327	327	Vallur TPP Ph1	2	500	327	327	655
114	Meenakhshi	SR		Meenakhshi	1	150	97	97						97
				Meenakhshi	2	150	97	97					97	
115	Kudankulam	SR		Kudankulam* (Generation considered in H2(2012-13), However it has not come yet	1	1000	910	910						910
116	Import from Talcher	SR	1272											1272
	TOTAL		98395					14073					2944	115411