

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

Dated: 29.10.2013

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

**Subject: Data for consideration of 4th Quarter of the year 2013-2014 (January-March' 2014) for implementation of CERC (Sharing of Transmission and Charges and Losses) Regulations, 2010.**

Sir,

Please find enclosed herewith the data as submitted by NLDC for (January'2014-March' 2014) consideration of Validation Committee for the 4th Quarter of the year for implementation of CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations,2010. The meeting of the Validation Committee shall be held in the second week of November' 2013 for consideration of the above data at NLDC, New Delhi.Exact date of the meeting and time shall be intimated in due course.

RPCs and RLDCs are requested to host this letter on their websites and should coordinate with the representatives of all State Transmission Utilities and Generating Companies, to facilitate them to attend the meeting through video conferencing facility available at RLDCs. Stakeholders/Constituents may go through the data and submits comments, if any, to NLDC which a copy to CERC within 7 days from the date of posting this letter on CERC website.

Encls: As above.

Yours faithfully,

Sd-

**(Vijay Menghani)**  
**Jt. Chief (Engg.)**

### Validation Committee Members

Sl. No.	Name of the Organizations	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 <sup>rd</sup> & 4 <sup>th</sup> Floor, Chanderlok Building, 36-Janpath, New Delhi -110001
2.		Shri P.K. Awasthi, Joint Chief (Fin.)	Central Electricity Regulatory Commission 3 <sup>rd</sup> & 4 <sup>th</sup> Floor, Chanderlok Building, 36-Janpath, New Delhi -110001
3.	CEA	ShriRavinder Gupta Director, SP&PA Division	Central Electricity Authority 3 <sup>rd</sup> Floor, N-Wing SewaBhawan, R.K. Puram, New Delhi - 110 066
4.		Director, GM Division	Central Electricity Authority 6 <sup>th</sup> Floor, N-Wing SewaBhawan , R.K.Puram, New Delhi-110066
5.	CTU/ Powergrid	ShriN.K.Jain, GM (Comm.)/ alternate member ShriPrashant Sharma, GM (Comm.)	Power Grid Corporation of India Ltd Plot No. 2, Sector-29, Near IFFCO Chowk, Gurgaon-122001
6.		ShriDilipRozekar, 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	ShriP. MukhoPadhyay General Manager	Northern Regional Load Despatch Centre, et Singh Marg, KatwariaSarai, New Delhi-110016
8.		Shri P.R. Raghuram, Executive Director	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 ShaheedJeet Singh, Marg,KatwariaSarai, 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.S. Pahwa, Member Secretary	Northern Regional Power Committee 18-A ShaheedJeet Singh Marg, KatwariaSarai, 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.		ShriS.K.Das, Director Engineering	Bihar State Electricity Board 1 <sup>st</sup> Floor, VidyutBhawan, Bailey Road, Patna-21, Bihar
16.	NERPC	ShriS.K. Mahapatra Member Secretary (I/C)	North Eastern Regional Power Committee Meghalaya State Housing Finance Co-Operative Society Ltd.BLDG., Nongrim Hills, Shillong-793003
17.		ShriJatinBaishya, 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., KauveryBhavan, 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	ShriInderjitKapoor,	NTPC Bhawan, Core 7, Scope Complex,

		<b>Director (Commercial)</b>	<b>Institutional Area, Load Road, New Delhi – 110003</b>
2.	<b>NHPC</b>	<b>Shri S.K. Agarwal, Executive Director (O&amp;M)</b>	<b>NHPC office Complex, Sector-33, Faridabad – 121003 (Haryana)</b>
3.	<b>NEEPCO</b>	<b>Shri N.K. Chakraborty, Executive Director</b>	<b>Brookland Compound, Lower New Colony, Shillong - 793003</b>
4.	<b>NLC</b>	<b>ShriSekar K, Director (Commercial)</b>	<b>No.135, Periyar E.V.R. High Road, Kilpauk, Chennai - 600 010. Tamil Nadu, India.</b>
5.	<b>SJVN</b>	<b>ShriRameshKapoor General Manager (C&amp;SO)</b>	<b>SJVN Ltd, Sharma Niwas Below BCS, New Shimla – 171009.</b>

### Generation Figures for Q4 (2013-14) case

				Generation After Mar'13 till 30th September'13					Expected Generation Likely to be declared Commercial from 1st October'2013 to 31st December'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	To be Considered in the Basecase
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)	(MW)
1	UP	NR	4516	Harduaganj	8	250	161	1320						5836	5836
				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	1142											1142	1142
3	Haryana	NR	2162											2162	2162
4	Uttarakhand	NR	402	Bhilangana	1	8	2	6						408	408
				Bhilangana	2	8	2								
				Bhilangana	3	8	2								
5	Punjab	NR	2246						Goindwal Sahib TPP	1	270	174	174	2420	2420
6	Rajasthan	NR	3385	Rajwest	5	135	87	1334	Ramgarh GT	1	160	47	47	4766	4766
				Rajwest	6	135	87								
				Rajwest	7	135	87								
				Rajwest	8	135	87								
				Chhabra-II	1	250	161								
				Kawai	2	660	432								
				Kalisindh	1	600	393								
7	Himachal Pradesh	NR	150											150	150
8	Jammu & Kashmir	NR	254											254	254
9	BBMB	NR	1037											1037	1037
10	Chandigarh	NR	0											0	
11	Railways	NR	0											0	
12	Dadri Thermal	NR	1482											1482	1482
13	Rihand	NR	1877	Rihand III	5	500	327	327						2205	2205
14	Singrauli	NR	1831											1831	1831
15	Unchahar	NR	906											906	906
16	Auraiya	NR	363											363	363
17	Dadri CCPP	NR	520											520	520
18	NAPS	NR	243											243	243
19	Jhajjar	NR	888											888	888

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			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)	(MW)
20	DHAULIGANGA	NR	42											42	42
21	Tanakpur	NR	27											27	27
22	Koteshwar	NR	130											130	130
23	Tehri	NR	339											339	339
24	Anta	NR	266											266	266
25	RAAP A,B,C	NR	951											951	951
26	AD Hydro	NR	15											15	15
27	Everest	NR	7											7	7
28	Karcham Wangtoo	NR	86											86	86
29	Bairasul	NR	58											58	58
30	Chamera 1	NR	127											127	127
31	Chamera 2	NR	70											70	70
32	Chamera 3	NR	37											37	37
33	Naptha Jhakri	NR	297											297	297
34	Lanco Budhil	NR	0											0	0
35	DULHASTI	NR	86											86	86
36	Salal	NR	201											201	201
37	Sewa-II	NR	64											64	64
38	URI 1 HPS	NR	278											278	278
39	URI II HPS	NR							Uri II	2	60	12	24	24	24
									Uri II	2	60	12			
40	Sree Cement	NR	220											220	220
41	Parbati III	NR		Parbati III	1	130	26	52						52	52
				Parbati III	2	130	26								
42	West Bengal	ER	3718	TLDP III	1	33	7	28						3746	3746
				TLDP III	2	33	7								
				TLDP III	3	33	7								
				TLDP III	4	33	7								

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			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)	(MW)
43	Odisha	ER	2880						Kamalanga TPP (GMR)	2	350	225	225	3105	3105
44	Bihar	ER	18											18	18
45	Jharkhand	ER	549											549	549
46	Sikkim	ER	0												
47	Chujachan	ER		Chujachan	1	55	11	22						22	22
				Chujachan	2	55	11								
47	DVC	ER	2981	DSTPS	2	500	327	655						3635	3635
				KTPS	1	500	327								
48	MPL	ER	646											646	646
49	Sterlite	ER	965											965	965
50	Teesta	ER	111											111	111
51	Kahalgaon	ER	1644											1644	1644
52	Farakka	ER	1256											1256	1256
53	Talcher	ER	828											828	828
54	Rangeet	ER	19											19	19
55	Corporate Power	ER												0	0
56	Adhunik Power	ER		Adhunik Power	1	270	174	348						348	348
				Adhunik Power	2	270	174								
57	Barh	ER							Barh STPP	4	660	432	432	432	432
58	Bhutan	ER	92											92	92
59	MP	WR	2693	JP Bina Power TP	1	250	161	483	Satpura TPP Extn	11	250	161	554	3729	3729
				JP Bina Power TP	2	250	161		Malwa	1	600	393			
				Satpura TPP Extn.	10	250	161								
60	Maharashtra	WR	8285	Vidarbha Power Ltd.	2	300	193	1428	Dhariwal TPP	1	300	193	193	9906	9906
				Bela TPP	1	270	174								
				EMCO, Warora	1	300	193								
				Bhusawal II	2	500	327								

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			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)	(MW)	
				India Bulls Amravati	1	270	174									
				Nasik(Sinner) (india-bulls)	1	270	174									
				EMCO Warora	2	300	193									
61	Chattisgarh	WR	1544	Swastik TPP	1	25	16	671	Baradarha TPP (DB Power Ltd.)	1	600	393	393	2607	2607	
				Korba West Extn.	5	500	327									
				Marwa TPS	1	500	327									
62	Gujarat	WR	7118	UNO-Sugen	1	383	111	439	Pipavav	Block 1	351	102	102	7658	7658	
				Ukai	6	500	327									
63	Goa	WR	30											30	0	
64	D&D	WR	0											0	0	
65	DNH	WR	0											0	0	
66	Vindhyachal	WR	2973	Vindhychal St-IV Unit I	1	500	327	327						3301	3301	
67	Ratnagiri Dabhol	WR	808											808	808	
68	TAPS (1,2,3,4)	WR	1037											1037	1037	
69	JINDAL	WR	894											894	894	
70	LANCO	WR	384											384	384	
71	NSPCL Bhilai	WR	431											431	431	
72	Korba	WR	2020											2020	2020	
73	SIPAT	WR	1995											1995	1995	
74	CGPL	WR	2578					1047						3626	3626	
				Coastal Gujarat Power Ltd	4	800	524									
				Coastal Gujarat Power Ltd	5	800	524									
75	Mauda	WR		Mauda	1	500	327	327						327	327	
76	Gandhar	WR	365											365	365	
77	Kawas	WR	354											354	354	
78	KAPS	WR	403											403	403	





## Generation Figures for Q4 (2013-14) case

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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	To be Considered in the Basecase
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)	(MW)
105	Ramagundam	SR	2352											2352	2352
106	Simhadri	SR	810											810	810
107	SEPL	SR	216											216	216
108	Lanco Kondapalli	SR	132											132	132
109	Kaiga	SR	548											548	548
110	NEYVELI ( EXT) TPS	SR	364											364	364
111	NEYVELI TPS-II	SR	1262											1262	1262
112	NEYVELI TPS-II EXP	SR	0											0	0
113	MAPS	SR	266											266	266
114	Vallur	SR	262	Vallur TPP Ph1	1	500	327	327	Vallur TPP Ph1	2	500	327	327	917	917
115	Meenakhshi	SR		Meenakhshi	1	150	97	193						193	193
				Meenakhshi	2	150	97								
116	Kudankulam	SR							Kudankulam	1	1000	910	910	910	910
117	Import from Talcher	SR	1656											1656	2000
	<b>TOTAL</b>		<b>102381</b>					<b>10800</b>					<b>5050</b>	<b>118231</b>	<b>118518</b>

**Note:**

1. Projections are based on the past monthly energy generation data available on the website of CEA
2. Generation forecast has been done based on the following criteria
  - (i) If there is an increasing trend then last year average generation has been considered
  - (ii) Otherwise average of past three year average generation has been considered
3. It is assumed that the energy generation figure available on the website of CEA is gross and Normative Auxiliary Consumption has been reduced from it.
4. Normative Auxiliary Consumption of state considered based on the hydro thermal mix (1% Hydro, 3% Gas and 8% Thermal)
5. In case of new generators where past data was not available following has been assumed
  - (i) 0.2 plf for hydro generators
  - (ii) 0.7 plf for thermal generators.
  - (iii) 0.3 plf for gas stations
6. CEA Reports can be accessed from following links

[http://cea.nic.in/reports/monthly/generation\\_rep/actual/mar11/opm\\_16.pdf](http://cea.nic.in/reports/monthly/generation_rep/actual/mar11/opm_16.pdf)

[http://cea.nic.in/reports/monthly/generation\\_rep/actual/dec10/opm\\_16.pdf](http://cea.nic.in/reports/monthly/generation_rep/actual/dec10/opm_16.pdf)

[http://cea.nic.in/reports/monthly/generation\\_rep/actual/mar12/opm\\_16.pdf](http://cea.nic.in/reports/monthly/generation_rep/actual/mar12/opm_16.pdf)

[http://cea.nic.in/reports/monthly/generation\\_rep/actual/dec11/opm\\_16.pdf](http://cea.nic.in/reports/monthly/generation_rep/actual/dec11/opm_16.pdf)

[http://cea.nic.in/reports/monthly/generation\\_rep/actual/mar13/opm\\_16.pdf](http://cea.nic.in/reports/monthly/generation_rep/actual/mar13/opm_16.pdf)

[http://cea.nic.in/reports/monthly/generation\\_rep/actual/dec12/opm\\_16.pdf](http://cea.nic.in/reports/monthly/generation_rep/actual/dec12/opm_16.pdf)

### DEMAND FORECAST USING PAST 3 YEARS DATA (January 2014 - March 2014)

	Energy ( MU )				Demand ( MW )			
	1	2	3	4	1	2	3	4
	Jan 2011- Mar2011	Jan 2012- Mar2012	Jan 2013- Mar2013	Projected Demand for (January 2014 to March 2014)	Jan 2011- Mar2011	Jan 2012- Mar2012	Jan 2013- Mar2013	Projected Demand for (January 2014 to March 2014)
Chandigarh	329	324	326	323	150	148	149	148
Delhi	5,243	5,364	5,160	5,173	2,394	2,449	2,356	2,362
Haryana	7,804	8,483	8,432	8,868	3,563	3,874	3,850	4,049
Himachal Pradesh	1,965	2,126	2,130	2,239	897	971	973	1,022
Jammu & Kashmir	2,670	2,977	3,091	3,334	1,219	1,359	1,411	1,510
Punjab	8,444	8,871	9,630	10,168	3,856	4,051	4,397	4,643
Rajasthan	12,911	14,203	14,926	16,028	5,895	6,485	6,816	7,319
Uttar Pradesh	16,612	18,205	18,141	19,182	7,585	8,313	8,284	8,759
Uttarakhand	2,416	2,647	2,589	2,724	1,103	1,209	1,182	1,244
<b>Northern Region</b>	<b>58,394</b>	<b>63,200</b>	<b>64,425</b>	<b>68,037</b>	<b>26,664</b>	<b>28,858</b>	<b>29,418</b>	<b>31,055</b>
Chattisgarh	2,730	3,929	4,453	5,427	1,247	1,794	2,033	2,478
Gujarat	17,786	18,724	26,614	29,869	8,121	8,550	12,153	13,639
Madhya Pradesh	11,427	11,286	12,122	12,307	5,218	5,153	5,535	5,619
Maharashtra	29,411	30,691	28,774	28,988	13,430	14,014	13,139	13,237
Daman & Diu	502	449	540	535	229	205	247	244
Dadra Nagar Haveli	1,114	1,049	1,207	1,216	509	479	551	555
Goa	775	718	876	891	354	328	400	407
<b>Western Region</b>	<b>63,745</b>	<b>66,846</b>	<b>74,586</b>	<b>79,233</b>	<b>29,107</b>	<b>30,523</b>	<b>34,058</b>	<b>36,180</b>
Andhra Pradesh	21,201	22,740	21,445	22,039	9,681	10,384	9,792	10,064
Karnataka	14,290	15,395	15,105	15,745	6,525	7,030	6,897	7,189
Kerala	4,674	5,211	5,117	5,444	2,134	2,379	2,337	2,486
Tamil Nadu	19,258	17,511	19,309	18,744	8,794	7,996	8,817	8,559
Pondicherry	507	508	573	595	232	232	262	272
<b>Southern Region</b>	<b>59,930</b>	<b>61,365</b>	<b>61,549</b>	<b>62,567</b>	<b>27,365</b>	<b>28,021</b>	<b>28,105</b>	<b>28,569</b>
Bihar	2,379	2,979	3,028	3,444	1,086	1,360	1,383	1,573
DVC	3,754	4,388	4,114	4,445	1,714	2,004	1,879	2,030
Jharkhand	1,504	1,565	1,801	1,920	687	715	822	877
Odisha	5,641	5,734	5,772	5,847	2,576	2,618	2,636	2,670
West Bengal	8,508	9,386	9,832	10,566	3,885	4,286	4,489	4,825
Sikkim	131	112	106	91	60	51	48	42
Bhutan								
<b>Eastern Region</b>	<b>21,917</b>	<b>24,164</b>	<b>24,653</b>	<b>26,314</b>	<b>10,008</b>	<b>11,034</b>	<b>11,257</b>	<b>12,016</b>
Arunachal Pradesh	118	144	126	137	54	66	58	63
Assam	1,182	1,316	1,354	1,456	540	601	618	665
Manipur	127	99	134	127	58	45	61	58
Meghalaya	363	343	448	470	166	157	205	214
Mizoram	93	91	97	98	42	42	44	45
Nagaland	124	111	130	128	57	51	59	58
Tripura	199	217	263	290	91	99	120	133
<b>N. Eastern Region</b>	<b>2,206</b>	<b>2,321</b>	<b>2,552</b>	<b>2,706</b>	<b>1,007</b>	<b>1,060</b>	<b>1,165</b>	<b>1,235</b>
<b>All India</b>	<b>2,06,192</b>	<b>2,17,896</b>	<b>2,27,765</b>	<b>2,38,857</b>	<b>94,152</b>	<b>99,496</b>	<b>1,04,002</b>	<b>1,09,055</b>

#### Notes

- Projections are based on the past monthly energy consumption data available on the website of CEA
- The above projections are being done for financial year 2013-2014 (Q4) i.e January 2014 to March 2014.
- Projections are being done based on the forecast function available in MS Office Excel
- CEA Reports can be accessed from the following links:
- The Demand figures (MU) for January to March was calculated by subtracting the figures of April to December from April to March.  
Demand figures (MU) for December 2010 was not available on CEA website. Therefore, Figures of January 2011 was subtracted from the figures of April 2010 to January 2011 to get the demand figures for April 2010 to December 2010

[http://cea.nic.in/archives/god/energy\\_supply/mar11.pdf](http://cea.nic.in/archives/god/energy_supply/mar11.pdf)

[http://cea.nic.in/reports/monthly/gm\\_div\\_rep/power\\_supply\\_position\\_rep/energy/Energy\\_2012\\_03.pdf](http://cea.nic.in/reports/monthly/gm_div_rep/power_supply_position_rep/energy/Energy_2012_03.pdf)

[http://cea.nic.in/reports/monthly/gm\\_div\\_rep/power\\_supply\\_position\\_rep/energy/Energy\\_2013\\_03.pdf](http://cea.nic.in/reports/monthly/gm_div_rep/power_supply_position_rep/energy/Energy_2013_03.pdf)

[http://cea.nic.in/archives/god/energy\\_supply/jan11.pdf](http://cea.nic.in/archives/god/energy_supply/jan11.pdf)

[http://cea.nic.in/archives/god/energy\\_supply/dec11.pdf](http://cea.nic.in/archives/god/energy_supply/dec11.pdf)

[http://cea.nic.in/reports/monthly/gm\\_div\\_rep/power\\_supply\\_position\\_rep/energy/Energy\\_2012\\_12.pdf](http://cea.nic.in/reports/monthly/gm_div_rep/power_supply_position_rep/energy/Energy_2012_12.pdf)