

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

No.L-1/44/2010-CERC

Coram:

**Shri Gireesh B Pradhan, Chairperson
Shri A.K. Singhal, Member
Shri A.S. Bakshi, Member**

Date of Order: 03.11.2015

In the matter of:

Determination of Point of Connection (PoC) rates and transmission losses for the period of October to December, 2015 in accordance with Regulation 17(2) of Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2010 and amendments thereto.

And

In the matter of:

1. National Load Despatch Centre, New Delhi
2. Central Transmission Utility, New Delhi

.....Respondents

ORDER

The Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010 (herein after referred to as "Sharing Regulations") came in to effect from 1.7.2011. The third amendment to the Sharing Regulations, 2015 have come in to force with effect from 1st May, 2015.

2. National Load Dispatch Centre as the Implementing Agency has been entrusted with the responsibility for computation of transmission charges and losses under the Sharing Regulations for each financial year. Further, Regulation 17 of the Sharing Regulations provides that the information to be submitted by the Implementing Agency consequent to the computations under taken shall include the following:-



- (a) Approved Basic Network Data and Assumptions, if any;
- (b) Zonal and nodal transmission charges for the ensuing Application Period;
- (c) Zonal and nodal transmission losses data for the ensuing Application Period;
- (d) Schedule of charges payable by each constituent for the ensuing Application Period;
- (e) YTC detail (Information submitted by the transmission licensees covered under these Regulation and computation by Implementing Agency);
- (f) Zone wise details of PoC Charges to enable each DIC to see details of transmission lines it is using and whose transmission Charges it is sharing;

3. The Implementing Agency in its letter No. POSOCO/Trans. Pricing/CERC dated 28.10.2015 has submitted the following information in compliance with Regulation 17 of the Sharing Regulations:-

- (a) Approved Basic Network Data and Assumptions
- (b) Zonal and nodal transmission charges for the ensuing Application Period
- (c) Zonal and nodal transmission losses data for the ensuing Application Period;
- (d) Schedule of charges payable by each constituent for the ensuing Application Period;
- (e) Yearly Transmission Charges(YTC) details of ISTS Licensees
- (f) PoC rates and loss percentage computation details

4. LTA /MTOA and their commencement schedule. We have examined the basic network data and assumptions, the results of the Load Flow Studies, the Yearly Transmission Charges of the ISTS licensees and the calculation of PoC Charges for demand zone and injection zone (for LTA to target region) submitted by the Implementing Agency. We have also examined the calculation of losses on PoC based on average losses. Final % losses shall be applicable on demand zones and injection



zones. We find that the calculations submitted by the Implementing Agency have been done as per Sharing Regulations and amendments thereof and accordingly, we approve the Basic Network, Load Flow, Assumptions used for computation of the final PoC rates and final transmission losses, their fitment in to slabs and schedule of charges payable by each DIC for October to December, 2015, as submitted by Implementing Agency.

5. The Commission had by its order dated 2.11.2015 approved the slabs of PoC rates for LTA/MTOA and separate slab rates for STOA for the three month period from 1.10.2015 to 31.12.2015. The Commission vide order dated 2.11.2015 had also approved Reliability Support Charges, HVDC Charges for Northern Region and Southern Region and HVDC Charges for Mundra-Mohindergarh and slabs for PoC transmission losses for the three month period from 1.10.2015 to 31.12.2015.

6. The Implementing Agency after computation of PoC rates and transmission losses for each injection zone and demand zone has assigned them to different slabs. We have gone through the details furnished by the Implementing Agency and find the same in order. We have also examined the details of PoC losses in percentage for each demand zone (for withdrawal DICs) and injection zone (for injecting DICs) and its applicable slab as per slabs approved by the Commission and have found them to be in order.

7. In the light of the above, we approve the following:-

a. The applicable PoC slab rates for Long Term Access (LTA) and Medium Term Open Access (MTOA) in ₹/MW/month for each demand zone (for withdrawal DICs) and injection zone (for injection DICs having LTA to target region) as per details at Annexure-I.

b. The Reliability Support Charges, HVDC Charges for Northern Region and



Southern Region, and HVDC Charges for Mundra-Mohindergarh as approved vide Order dated 2.11.2015 are also indicated at Annexure-I.

c. The applicable PoC slab rates for Short Term Open Access (STOA) in paise per unit for each demand zone (for withdrawal DICs) and injection zone (for injecting DICs) as per the details at Annexure-II to this order;

d. Reliability Support Charge Rate in respect of STOA as per the details at Annexure-II to this order.

e. Transmission losses as per the details at Annexure-III. These slabs for each Region shall be applied based on last week's actual Regional Losses.

8. We also direct the Implementing Agency to publish zonal PoC Rates and zonal Transmission Losses and associated details that will enable a clear understanding of the calculations used for arriving at these rates, along with underlying network information and base load flows used.

9. In order to ensure smooth change over for short term transactions from the existing rates to the new rates of sharing of transmission charges, we direct that in respect of the applications made for scheduling of bilateral and collective transactions received on or before the date of issue of this order, short-term open access charges would be payable at the rates applicable for the application period from July - September, 2015 (Q2 of 2015 -16) and for applications received after date of issue of this order, the short-term open access charges shall be payable as per the rates approved vide this order. In keeping with the application of weekly losses, we direct that the application of the new PoC loss slabs would be made applicable from 9.11.2015. The rates/losses as approved vide this order shall remain applicable till notification of the order for Q3 of 2015-16.



10. The Implementing Agency is directed to endorse a copy of this order to all DICs and other concerned agencies. The Implementing Agency and the Central Transmission Utility shall also give wide publicity to this order through their websites.

-sd-

(A.S. Bakshi)
Member

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(A.K. Singhal)
Member

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(Gireesh B. Pradhan)
Chairperson



PoC Rates for LTA/MTOA billing				
Slabs for PoC Rates-Northern Region (October-December 2015)				
Srl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for NR (₹/MW/Month)
1	Uttarakhand	310307	21473	12985
2	Rajasthan	310307	21473	12985
3	Haryana	246199	21473	12985
4	UP	182091	21473	12985
5	Delhi	117983	21473	12985
6	Punjab	117983	21473	12985
7	Lanco Budhil	117983	21473	12985
8	Chandigarh	85928	21473	12985
9	J&K	85928	21473	12985
10	Karcham Wangtoo	85928	21473	12985
11	AD hydro	53874	21473	12985
12	HP	53874	21473	12985

Slabs for PoC Rates- Southern Region (October-December 2015)				
Srl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for SR (₹/MW/Month)
1	Karnataka	310307	21473	17557
2	Andhra Pradesh	310307	21473	17557
3	Telangana	278253	21473	17557
4	Kerala	182091	21473	17557
5	Tamil Nadu	85928	21473	17557
6	Goa-SR	53874	21473	17557
7	Pondicherry	53874	21473	17557

Slabs for PoC Rates - North Eastern Region (October-December 2015)			
Srl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)
1	Assam	310307	21473
2	Mizoram	310307	21473
3	Meghalaya	310307	21473
4	Nagaland	246199	21473
5	Manipur	117983	21473
6	Arunachal Pradesh	117983	21473
7	Tripura	53874	21473

Slabs for PoC Rates - Western Region (October-December 2015)				
Srl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges for Mundra-Mohindergarh (amount payable by Adani for 1495 MW LTA to Haryana)
1	Goa	310307	21473	
2	Maharashtra	310307	21473	
3	JPL	310307	21473	
4	ACBIL	278253	21473	
5	APL Mundra	246199	21473	₹251740065/ month
6	Gujarat	182091	21473	
7	Madhya Pradesh	182091	21473	
8	Spectrum	150037	21473	
9	EMCO	150037	21473	
10	M B Power	117983	21473	
11	Chhattisgarh	117983	21473	
12	D&D	85928	21473	
13	DNH	85928	21473	
14	Torrent Sugem	53874	21473	



Slabs for PoC Rates-Eastern Region (October-December 2015)			
Srl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)
1	Bihar	278253	21473
2	Jharkhand	182091	21473
3	West Bengal	150037	21473
4	MPL	117983	21473
5	Orissa	117983	21473
6	DVC	117983	21473
7	Sikkim	53874	21473
8	Bangladesh	53874	21473



Annexure-II

PoC Rates for STOA purpose			
Slabs for PoC Rates-Northern Region (October-December 2015)			
Sl. No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	Rajasthan Inj	21.24	2.98
2	Rajasthan W	21.24	2.98
3	Uttarakhand W	21.24	2.98
4	Haryana Inj	21.24	2.98
5	UP Inj	18.87	2.98
6	Haryana W	16.51	2.98
7	Rihand	14.15	2.98
8	UP W	14.15	2.98
9	Chamera Pooling Point	11.78	2.98
10	Chamera I	11.78	2.98
11	Dulhasti	11.78	2.98
12	Uttarakhand Inj	9.42	2.98
13	Chamera II	9.42	2.98
14	Singrauli	9.42	2.98
15	Koldam	9.42	2.98
16	J&K Inj	7.06	2.98
17	Koteshwar	7.06	2.98
18	Delhi W	7.06	2.98
19	Nathpa Jhakri	7.06	2.98
20	Tehri	7.06	2.98
21	RAAPC	7.06	2.98
22	Punjab W	7.06	2.98
23	Chandigarh W	7.06	2.98
24	J&K W	7.06	2.98
25	HP Inj	4.69	2.98
26	Karcham Wangtoo	4.69	2.98
27	Urtil	4.69	2.98
28	Urill	4.69	2.98
29	Parbati III	4.69	2.98
30	HPW	4.69	2.98
31	Punjab Inj	2.33	2.98
32	Dadri	2.33	2.98
33	Jhajjar	2.33	2.98
34	Rampur HEP	2.33	2.98
35	Sree Cement	2.33	2.98
36	Delhi Inj	2.33	2.98
37	Chandigarh Inj	2.33	2.98



Slabs for PoC Rates-Western Region (October -December 2015)

Srl. No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	Maharashtra Inj	21.24	2.98
2	JPL+JSPL	21.24	2.98
3	JPL Extn.	21.24	2.98
4	Maharashtra W	21.24	2.98
5	Goa W	21.24	2.98
6	DB Power	21.24	2.98
7	ACBIL + Spectrum	18.87	2.98
8	Raikheda	18.87	2.98
9	Sipat	16.51	2.98
10	KSK Mahanadi	16.51	2.98
11	APL Mundra	16.51	2.98
12	Lanco	16.51	2.98
13	KWPCL	16.51	2.98
14	Gujarat W	14.15	2.98
15	Vindhyachal	14.15	2.98
16	SASAN	14.15	2.98
17	EMCO	11.78	2.98
18	Korba	11.78	2.98
19	JP Nigrie	11.78	2.98
20	Madhya Pradesh W	11.78	2.98
21	Balco	9.42	2.98
22	Essar Steel W	9.42	2.98
23	NSPCL	7.06	2.98
24	Chattisgarh W	7.06	2.98
25	D&D W	7.06	2.98
26	Mauda	7.06	2.98
27	DGEN	7.06	2.98
28	MB Power	7.06	2.98
29	DNH W	7.06	2.98
30	Gujarat Inj	4.69	2.98
31	Chattisgarh Inj	4.69	2.98
32	SSP	4.69	2.98
33	Torrent_Sugen	4.69	2.98
34	MadhyaPradesh Inj	2.33	2.98
35	CGPL	2.33	2.98
36	TAPS3&4	2.33	2.98
37	D&D Inj	2.33	2.98



38	DNH Inj	2.33	2.98
39	Essar Steel Inj	2.33	2.98
40	Goa-WR Inj	2.33	2.98



Slabs for PoC Rates-Eastern Region (October-December 2015)			
Srl. No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	West Bengal Inj	21.24	2.98
2	Orissa Inj	21.24	2.98
3	Sikkim Inj	21.24	2.98
4	Teesta	21.24	2.98
5	Barh	21.24	2.98
6	Talcher-2	21.24	2.98
7	Bihar W	18.87	2.98
8	Kahalgaon	14.15	2.98
9	Bhutan	14.15	2.98
10	Talcher	14.15	2.98
11	Sterlite	14.15	2.98
12	GMR Kamalanga	11.78	2.98
13	JITPL	11.78	2.98
14	Orissa W	11.78	2.98
15	Jharkhand W	11.78	2.98
16	MPL	9.42	2.98
17	West Bengal W	9.42	2.98
18	DVC	7.06	2.98
19	Farakka	7.06	2.98
20	DVC W	7.06	2.98
21	Aadhunik	4.69	2.98
22	Bangladesh W	4.69	2.98
23	Bihar Inj	2.33	2.98
24	Jharkhand Inj	2.33	2.98
25	Bangladesh Inj	2.33	2.98
26	Sikkim W	2.33	2.98



Slabs for PoC Rates- Southern Region (October-December 2015)			
Srl. No.	Name of Entity	PoC Slab Rate (paise /kWH)	Reliability Support Charges Rate (paise/kWH)
1	Karnataka Inj	21.24	2.98
2	AndhraPradesh W	21.24	2.98
3	Karnataka W	21.24	2.98
4	TamilNadu Inj	18.87	2.98
5	Telangana W	18.87	2.98
6	SEPL+MEPL	14.15	2.98
7	Thermal PowerTech	14.15	2.98
8	Kerala W	14.15	2.98
9	NTPL	11.78	2.98
10	Kudankulam	11.78	2.98
11	Simhadri2	7.06	2.98
12	Lanco-Kondapalli	7.06	2.98
13	Coastal Energy	7.06	2.98
14	TamilNadu W	7.06	2.98
15	Ramagundam	4.69	2.98
16	NLC	4.69	2.98
17	Kaiga	4.69	2.98
18	IL & FS	4.69	2.98
19	Telangana Inj	2.33	2.98
20	Kerala Inj	2.33	2.98
21	Vallur	2.33	2.98
22	Goa-SR W	2.33	2.98
23	AndhraPradesh Inj	2.33	2.98
24	Pondicherry W	2.33	2.98
25	Pondicherry Inj	2.33	2.98
26	Goa-SR Inj	2.33	2.98



Slabs for PoC Rates- North Eastern Region (October 2015-December 2015)			
Srl. No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	Ranganadi	21.24	2.98
2	Assam W	21.24	2.98
3	Meghalaya W	21.24	2.98
4	Mizoram W	21.24	2.98
5	Nagaland W	16.51	2.98
6	Palatana	14.15	2.98
7	Mizoram Inj	11.78	2.98
8	Tripura Inj	11.78	2.98
9	Assam Inj	11.78	2.98
10	Nagaland Inj	9.42	2.98
11	Arunachal Pradesh W	7.06	2.98
12	Manipur W	7.06	2.98
13	Manipur Inj	4.69	2.98
14	Meghalaya Inj	2.33	2.98
15	Tripura W	2.33	2.98
16	Arunachal Pradesh Inj	2.33	2.98



Annexure-III

Slabs for PoC Losses-Northern Region (October-December 2015)		
Sri. No.	Zone	Slab w.r.t Weighted Average
1	RAPP C	I
2	Rajasthan W	I
3	Uttarakhand W	I
4	Rajasthan Inj	I
5	Shree Cement	I
6	Rihand	II
7	Singrauli	II
8	Uttar Pradesh W	III
9	Himachal Pradesh W	IV
10	Uttar Pradesh Inj	V
11	Uttarakhand Inj	V
12	Tehri	V
13	Koteshwar	V
14	Himachal Pradesh Inj	VI
15	Rampur HEP	VI
16	Nathpa Jhakri	VI
17	Haryana W	VII
18	Chandigarh W	VIII
19	Dulhasti	VIII
20	Jammu & Kashmir W	VIII
21	Karcham Wangtoo	VIII
22	Delhi W	IX
23	Jammu & Kashmir Inj	IX
24	Punjab W	IX
25	Chamera Pooling Point	IX
26	Chameral	IX
27	Chamera II	IX
28	Punjab Inj	IX
29	Haryana Inj	IX
30	Uri I	IX
31	Uri II	IX
32	Parbati III	IX
33	Dadri	IX
34	Jhajjar	IX
35	Delhi Inj	IX
36	Chandigarh Inj	IX
37	Koldam	IX



Slabs for PoC - Western Region (October 2015-December 2015)		
Srl. No.	Zone	Slab w.r.t Weighted Average
1	Goa-WR W	I
2	KWPCL	I
3	KSK Mahanadi	I
4	Mauda	I
5	DB Power	I
6	JPL Extn.	I
7	Raikheda	I
8	EMCO	II
9	Korba	II
10	ACB+Spectrum Coal and Power Limited	II
11	Lanco	II
12	Sipat	II
13	Jindal Power Limited+Jindal Steel Power Limited	II
14	Sasan UMPP	III
15	Chhattisgarh W	IV
16	Maharashtra W	IV
17	Vindhyachal	IV
18	Balco	IV
19	JP Nigrie	IV
20	DNH W	IV
21	APL Mundra	IV
22	MB Power	IV
23	Chhattisgarh Inj	V
24	Essar Steel W	V
25	Madhya Pradesh W	V
26	NSPCL,Bhilai	VI
27	Maharashtra Inj	VI
28	Gujarat W	VI
29	D&D W	VI
30	Sardar Sarovar Project	VII
31	Coastal Gujarat Power Limited	VII
32	Madhya Pradesh Inj	VII
33	DGEN	VII
34	Tarapur Atomic Power Station 3 & 4	VIII
35	Torrent Power	VIII
36	Gujarat Inj	IX
37	Goa-WR Inj	IX
38	D&D Inj	IX
39	DNH Inj	IX
40	Essar Steel Inj	IX



Slabs for PoC Losses-Eastern Region (October 2015-December 2015)

Srl. No.	Zone	Slab w.r.t Weighted Average
1	Talcher Stg-2	I
2	Bihar W	II
3	Bihar Inj	II
4	Talcher	IV
5	JITPL	IV
6	GMR Kamalanga	IV
7	Sterlite	IV
8	Injection from Bhutan	IV
9	Teesta	IV
10	Barh	IV
11	Odisha W	V
12	Orissa Inj	V
13	Kahalgaon	V
14	Maithon Power Limited	V
15	DVC Inj	V
16	Jharkhand W	V
17	West Bengal W	VI
18	Farakka	VI
19	Aadhunik Power	VI
20	DVC W	VI
21	West Bengal Inj	VII
22	Jharkhand Inj	VII
23	Sikkim Inj	VII
24	Bangladesh W	VIII
25	Sikkim W	VIII
26	Bangladesh Inj	IX



Slabs for PoC Losses- Southern Region (October 2015-December 2015)		
Sri. No.	Zone	Slab using Weighted Average
1	Karnataka W	I
2	Telangana W	I
3	Kerala W	II
4	Andhra Pradesh W	II
5	Kaiga	IV
6	Simhadri2	V
7	Pondicherry W	V
8	Kudankulam	VI
9	Coastal Energy	VI
10	Kerala Inj	VI
11	Andhra Pradesh Inj	VI
12	SEPL+MEPL	VI
13	Thermal Powertech	VI
14	Ramagundam	VI
15	Karnataka Inj	VI
16	NTPL	VI
17	Telangana Inj	VI
18	NLC	VII
19	Goa-SRW	VII
20	LANCO	VII
21	Tamil Nadu W	VIII
22	IL&FS	VIII
23	Tamil Nadu Inj	IX
24	Vallur	IX
25	Pondicherry Inj	IX
26	Goa-SR Inj	IX



Slabs for PoC Losses -North Eastern Region (October 2015-December 2015)

Srl. No.	Zone	Slab w.r.t Weighted Average
1	Mizoram W	I
2	Mizoram Inj	I
3	Palatana	III
4	Manipur W	III
5	Nagaland Inj	III
6	Nagaland W	III
7	Meghalaya W	IV
8	Ranganadi	V
9	Manipur Inj	V
10	Assam W	V
11	Tripura Inj	V
12	Arunachal Pradesh W	VII
13	Assam Inj	VII
14	Meghalaya Inj	VIII
15	Tripura W	IX
16	Arunachal Pradesh Inj	IX

