

**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
Dr. M.K. Iyer, Member**

Date of Order: 12.3.2016

In the matter of:

Determination of Point of Connection (PoC) rates and transmission losses for the period of January to March, 2016 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 "Sharing Regulations") came in to effect from 1.7.2011. The third amendment to the Sharing Regulations, 2015 came 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 undertaken 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 9.3.2016 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
- (g) LTA /MTOA and their commencement schedule.



4. 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 January to March, 2016, as submitted by Implementing Agency.

5. The Commission by its order dated 10.3.2016 had approved the slabs of PoC rates for LTA/MTOA and separate slab rates for STOA for the three month period from 1.1.2016 to 31.3.2016. The Commission vide order dated 10.3.2016 had also approved Reliability Support Charges, HVDC Charges for Northern Region, Eastern Region, Northern Eastern Region, Western Region and Southern Region and HVDC Charges for Mundra-Mohindergarh and slabs for PoC transmission losses for the three month period from 1.1.2016 to 31.3.2016.

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 to be 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 all Regions, and HVDC Charges for Mundra-Mohindergarh as approved vide order dated 10.3.2016 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 October - December, 2015 (Q3 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 21.3.2016. The rates/losses as approved vide this order shall remain applicable till notification of the order for Q1 of 2016-17.

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/-
(Dr. M.K. Iyer)
Member

sd/-
(A.S. Bakshi)
Member

sd/-
(A.K. Singhal)
Member

sd/-
(Gireesh B. Pradhan)
Chairperson



PoC Rates for LTA/MTOA billing				
Slabs for PoC Rates-Northern Region (January 2016- March 2016)				
Sl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for NR (₹/MW/Month)
1	Rajasthan	342848	23703	20208
2	Haryana	307668	23703	20208
3	Uttarakhand	307668	23703	20208
4	UP	202125	23703	20208
5	Lanco Budhil	166944	23703	20208
6	Punjab	166944	23703	20208
7	Delhi	131763	23703	20208
8	Chandigarh	96582	23703	20208
9	J&K	96582	23703	20208
10	Karcham Wangtoo	96582	23703	20208
11	AD Hydro	61401	23703	20208
12	HP	61401	23703	20208

Slabs for PoC Rates- Southern Region (January 2016- March 2016)				
Sl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for SR (₹/MW/Month)
1	Karnataka	342848	23703	22860
2	Andhra Pradesh	307668	23703	22860
3	Telangana	237306	23703	22860
4	Kerala	131763	23703	22860
5	Tamil Nadu	96582	23703	22860
6	Goa-SR	61401	23703	22860
7	Pondicherry	61401	23703	22860



Slabs for PoC Rates -North Eastern Region(January 2016- March 2016)				
Sl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for NER (₹/MW/Month)
1	Assam	342848	23703	7343
2	Mizoram	342848	23703	7343
3	Nagaland	342848	23703	7343
4	Meghalaya	307668	23703	7343
5	Arunachal Pradesh	166944	23703	7343
6	Manipur	166944	23703	7343
7	Tripura	61401	23703	7343

Slabs for PoC Rates - Western Region(January 2016- March 2016)					
Sl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for WR (₹/MW/Month)	HVDC Charges for Mundra Mohindergarh (amount payable by M/s Adani for 1495 MW LTA to Haryana)
1	APL Mundra	342848	23703	7343	Rs.251740065/month
2	JPL	342848	23703	7343	
3	Maharashtra	342848	23703	7343	
4	ACBIL	307668	23703	7343	
5	M B Power	307668	23703	7343	
6	Maruti CCPL	237306	23703	7343	
7	Goa	202125	23703	7343	
8	Gujarat	202125	23703	7343	
9	Chhattisgarh	166944	23703	7343	
10	Spectrum	166944	23703	7343	
11	Madhya Pradesh	131763	23703	7343	
12	D&D	96582	23703	7343	
13	DNH	96582	23703	7343	
14	Torrent-Sugen	61401	23703	7343	



Slabs for PoC Rates - Eastern Region(January 2016- March 2016)				
Sl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for ER (₹/MW/Month)
1	Bihar	272487	23703	7343
2	West Bengal	202125	23703	7343
3	Orissa	166944	23703	7343
4	Jharkhand	131763	23703	7343
5	DVC	96582	23703	7343
6	Bangladesh	61401	23703	7343
7	Sikkim	61401	23703	7343



PoC Rates for STOA purpose			
Slabs for PoC Rates-Northern Region (January 2016- March 2016)			
Sl. No.	Name of Entity	PoC Slab Rate (₹/paise/kWH)	Reliability Support Charges Rate (₹/paise/kWH)
1	Haryana Inj	22.21	3.29
2	Haryana W	22.21	3.29
3	Rajasthan Inj	22.21	3.29
4	Rajasthan W	22.21	3.29
5	UP Inj	22.21	3.29
6	Uttarakhand W	22.21	3.29
7	Rihand	14.98	3.29
8	UP W	14.98	3.29
9	Chamerall	12.57	3.29
10	Chamera Pooling Point	12.57	3.29
11	Punjab W	12.57	3.29
12	Chamera I	10.15	3.29
13	Delhi W	10.15	3.29
14	Dulhasti	10.15	3.29
15	Singrauli	10.15	3.29
16	Uttarakhand Inj	10.15	3.29
17	Karcham Wangtoo	7.74	3.29
18	Koldam	7.74	3.29
19	Koteshwar	7.74	3.29
20	Nathpa Jhakri	7.74	3.29
21	RAAP C	7.74	3.29
22	Rampur HEP	7.74	3.29
23	Tehri	7.74	3.29
24	Chandigarh W	5.33	3.29
25	HP Inj	5.33	3.29
26	J&K Inj	5.33	3.29
27	J&K W	5.33	3.29
28	Parbati III	5.33	3.29
29	Uri I	5.33	3.29
30	Uri II	5.33	3.29
31	Dadri	2.92	3.29
32	Delhi Inj	2.92	3.29
33	HP W	2.92	3.29
34	Jhajjar	2.92	3.29
35	Punjab Inj	2.92	3.29
36	Sree Cement	2.92	3.29
37	Chandigarh Inj	2.92	3.29



Slabs for PoC Rates-Western Region (January 2016- March 2016)

Sl. No.	Name of Entity	PoC Slab Rate (₹ paise/kWH)	Reliability Support Charges Rate (₹ paise/kWH)
1	APL Mundra	22.21	3.29
2	DB Power	22.21	3.29
3	JPL Extn.	22.21	3.29
4	JPL+JSPL	22.21	3.29
5	Maharashtra W	22.21	3.29
6	MB Power	22.21	3.29
7	ACBIL+Spectrum	19.80	3.29
8	Chhattisgarh Inj	19.80	3.29
9	KWPCL	19.80	3.29
10	Raikheda	19.80	3.29
11	EMCO	17.39	3.29
12	KSK Mahanadi	17.39	3.29
13	RKM	17.39	3.29
14	SASAN	17.39	3.29
15	Sipat	17.39	3.29
16	Balco	14.98	3.29
17	Essar Steel W	14.98	3.29
18	Goa W	14.98	3.29
19	Gujarat W	14.98	3.29
20	Lanco	14.98	3.29
21	JP Nigrie	12.57	3.29
22	Vindhyachal	12.57	3.29
23	Chhattisgarh W	10.15	3.29
24	D&DW	10.15	3.29
25	Dhariwal	10.15	3.29
26	Korba	10.15	3.29
27	Madhya Pradesh W	10.15	3.29
28	DGEN	7.74	3.29
29	DNHW	7.74	3.29
30	NSPCL	7.74	3.29
31	Madhya Pradesh Inj	5.33	3.29
32	Maharashtra Inj	5.33	3.29
33	Mauda	5.33	3.29
34	SSP	5.33	3.29
35	CGPL	2.92	3.29
36	Gujarat Inj	2.92	3.29
37	RGPPL	2.92	3.29



38	TAPS 3&4	2.92	3.29
39	Torrent-Sugen	2.92	3.29
40	D&D Inj	2.92	3.29
41	DNH Inj	2.92	3.29
42	Essar Steel Inj	2.92	3.29
43	Goa-WR Inj	2.92	3.29



Slabs for PoC Rates-Eastern Region (January 2016- March 2016)			
Sl. No.	Name of Entity	PoC Slab Rate (₹ paise/kWH)	Reliability Support Charges Rate (₹ paise/kWH)
1	Barh	22.21	3.29
2	Orissa Inj	22.21	3.29
3	Sikkim Inj	22.21	3.29
4	Talcher-2	22.21	3.29
5	West Bengal Inj	22.21	3.29
6	Talcher	19.80	3.29
7	Bihar W	17.39	3.29
8	Teesta	17.39	3.29
9	GMR Kamalanga	12.57	3.29
10	JITPL	12.57	3.29
11	Kahalgaon	12.57	3.29
12	Orissa W	12.57	3.29
13	Sterlite	12.57	3.29
14	West Bengal W	12.57	3.29
15	Jharkhand W	10.15	3.29
16	DVC	7.74	3.29
17	MPL	7.74	3.29
18	Aadhunik	5.33	3.29
19	Bhutan	5.33	3.29
20	DVCW	5.33	3.29
21	Farakka	5.33	3.29
22	Jharkhand Inj	5.33	3.29
23	Bangladesh W	2.92	3.29
24	Bihar Inj	2.92	3.29
25	Sikkim W	2.92	3.29
26	Bangladesh Inj	2.92	3.29



Slabs for PoC Rates- Southern Region(January 2016- March 2016)

Sl. No.	Name of Entity	PoC Slab Rate (₹ paise /kWH)	Reliability Support Charges Rate (₹ paise/kWH)
1	AndhraPradesh W	22.21	3.29
2	Karnataka Inj	22.21	3.29
3	Karnataka W	22.21	3.29
4	TamilNadu Inj	17.39	3.29
5	Telangana W	17.39	3.29
6	Kerala W	10.15	3.29
7	Kudankulam	10.15	3.29
8	SEPL+MEPL	10.15	3.29
9	Thermal Power Tech	10.15	3.29
10	Coastal Energy	7.74	3.29
11	IL&FS	7.74	3.29
12	Lanco-Kondapalli	7.74	3.29
13	Tamil Nadu W	7.74	3.29
14	Kaiga	5.33	3.29
15	NLC	5.33	3.29
16	NTPL	5.33	3.29
17	Ramagundam	5.33	3.29
18	Simhadri 2	5.33	3.29
19	Andhra Pradesh Inj	2.92	3.29
20	Goa-SR W	2.92	3.29
21	Kerala Inj	2.92	3.29
22	Pondicherry W	2.92	3.29
23	Telangana Inj	2.92	3.29
24	Vallur	2.92	3.29
25	Goa-SR Inj	2.92	3.29
26	Pondicherry Inj	2.92	3.29



Slabs for PoC Rates- North Eastern Region (January 2016- March 2016)			
Sl. No.	Name of Entity	PoC Slab Rate (₹ paise/kWH)	Reliability Support Charges Rate (₹ paise/kWH)
1	Assam W	22.21	3.29
2	Mizoram W	22.21	3.29
3	Nagaland W	22.21	3.29
4	Ranganadi	22.21	3.29
5	Meghalaya W	19.80	3.29
6	Palatana	14.98	3.29
7	Arunachal Pradesh W	12.57	3.29
8	Mizoram Inj	12.57	3.29
9	Tripura Inj	12.57	3.29
10	Assam Inj	10.15	3.29
11	Manipur W	10.15	3.29
12	Nagaland Inj	7.74	3.29
13	Manipur Inj	5.33	3.29
14	Meghalaya Inj	2.92	3.29
15	Tripura W	2.92	3.29
16	Arunachal Pradesh Inj	2.92	3.29



Slabs for PoC Losses-Northern region (January 2016- March 2016)		
Sl. No.	Zone	Slab w.r.t Weighted Average
1	RAPPC	I
2	Rajasthan W	I
3	Uttarakhand W	I
4	Rihand	II
5	Singrauli	II
6	Uttar Pradesh W	II
7	Rajasthan Inj	III
8	Himachal Pradesh W	III
9	Haryana W	IV
10	Shree Cement	IV
11	Uttar Pradesh Inj	V
12	Uttarakhand Inj	V
13	Tehri	VI
14	Koteshwar	VI
15	Himachal Pradesh Inj	VII
16	Rampur HEP	VII
17	NathpaJhakri	VII
18	DelhiW	VIII
19	Dulhasti	VIII
20	Jammu & Kashmir W	VIII
21	Parbati III	VIII
22	Chandigarh W	IX
23	Jammu & Kashmir Inj	IX
24	Punjab W	IX
25	Chamera Pooling Point	IX
26	Chameral	IX
27	Chamerall	IX
28	Karcham Wangtoo	IX
29	Punjab Inj	IX
30	Haryana Inj	IX
31	Uri I	IX
32	Uri II	IX
33	Dadri	IX
34	Jhajjar	IX
35	DelhiInj	IX
36	Chandigarh Inj	IX
37	Koldam	IX



Slabs for PoC - Western Region (January 2016- March 2016)		
Sl. No.	Zone	Slab w.r.t Weighted Average
1	KWPCL	I
2	EMCO	I
3	DB Power	I
4	JP LExtn.	I
5	APL Mundra	I
6	Raikheda	I
7	KSK Mahanadi	II
8	Dhariwal	II
9	Mauda	III
10	ACB+Spectrum Coal and Power Limited	III
11	Lanco	III
12	Sipat	III
13	Essar Steel W	III
14	Jindal Power Limited+Jindal Steel Power	III
15	RKM	III
16	Goa-WRW	IV
17	Korba	IV
18	Chhattisgarh W	IV
19	Maharashtra W	IV
20	Sasan UMPP	IV
21	DNHW	IV
22	MB Power	IV
23	Vindhyachal	V
24	Balco	V
25	JP Nigrie	V
26	Madhya Pradesh W	V
27	D&DW	V
28	NSPCL, Bhilai	VI
29	Chhattisgarh Inj	VI
30	Maharashtra Inj	VI
31	Gujarat W	VI
32	Sardar Sarovar Project	VII
33	Coastal Gujarat Power Limited	VII
34	Madhya Pradesh Inj	VII
35	DGEN	VIII
36	Torrent Power	VIII
37	RGPPL	VIII
38	Gujarat Inj	IX
39	Tarapur Atomic Power Station 3&4	IX
40	Goa-WRInj	IX
41	D&D Inj	IX
42	DNH Inj	IX
43	Essar Steel Inj	IX



Slabs for PoC Losses-Eastern Region (January 2016- March 2016)

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



Slabs for PoC Losses- Southern Region (January 2016- March 2016)		
Sl. No.	Zone	Slab using Weighted Average
1	Karnataka W	I
2	Telangana W	I
3	Kerala W	II
4	Andhra Pradesh W	III
5	Pondicherry W	V
6	Thermal Powertech	V
7	Simhadri 2	VI
8	Kudankulam	VI
9	Coastal Energy	VI
10	Kerala Inj	VI
11	Kaiga	VI
12	SEPL+MEPL	VI
13	Ramagundam	VI
14	Karnataka Inj	VI
15	NTPL	VI
16	Telangana Inj	VI
17	Andhra Pradesh Inj	VII
18	Tamil Nadu W	VII
19	NLC	VII
20	LANCO	VII
21	IL&FS	VII
22	Vallur	VIII
23	Goa-SRW	VIII
24	Tamil Nadu Inj	IX
25	Pondicherry Inj	IX
26	Goa-SR Inj	IX



Slabs for PoC Losses -North Eastern Region (January 2016- March 2016)

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

