

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

No. L-1/44/2010-CERC

Coram:

**Shri P. K. Pujari, Chairperson
Shri A. K. Singhal, Member
Shri A. S. Bakshi, Member
Dr. M. K. Iyer, Member**

Date of Order: 16th of February, 2018

In the matter of:

Determination of Point of Connection (PoC) rates and transmission losses for the period of January to March, 2018 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 have come into 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 12.1.2018 has submitted 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 into slabs and schedule of charges payable by each DIC for January to March, 2018, as submitted by Implementing Agency.

5. 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.

6. 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. The slabs for POC rates for LTA / MTOA are as follows:-



PoC Slab	(₹/MW/Month)
I	329532
II	298233
III	266935
IV	235636
V	204337
VI	173038
VII	141740
VIII	110441
IX	79142

(b) The Reliability Support Charges, HVDC Charges for all Regions and HVDC Charges for Mundra-Mohindergarh are given in 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. The slabs for POC rates towards STOA are as follows:-

PoC Slab	(paise/unit)
I	28.11
II	24.61
III	21.10
IV	17.60
V	14.09
VI	10.59
VII	7.08
VIII	3.58
IX	0.07

(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. The slabs of loss are as follows:-



PoC Losses Slab	% of Losses
I	V +1.00%
II	V +0.75%
III	V +0.50%
IV	V +0.25%
V	Average Loss
VI	V -0.25%
VII	V -0.50%
VIII	V -0.75%
IX	V -1.00%

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

8. In order to ensure smooth changeover of 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, 2018 (Q3 of 2017 -18) 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. Taking into consideration the application of weekly losses, we direct that the application of the new PoC loss slabs would be made applicable from the Monday immediately following the date of issue of the instant order. The rates/losses as approved vide this order shall remain applicable till notification of the next order.

9. Specific PoC rate for Essar Mahaan has not been determined for this quarter



since its injection was considered as zero. Moreover, it shall be liable to pay applicable charges as per extant Sharing Regulations.

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/-
(P. K. Pujari)
Chairperson



PoC Rates for LTA/MTOA billing				
Slabs for PoC Rates-Northern Region (January 2018- March 2018)				
Sl.No	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for NR (₹/MW/Month)
1	JPVL	329532	25899	37199
2	Rajasthan	329532	25899	37199
3	Haryana	298233	25899	37199
4	Uttarakhand	266935	25899	37199
5	Uttar Pradesh	235636	25899	37199
6	Punjab	173038	25899	37199
7	Delhi	141740	25899	37199
8	Budhil+ Lanco Green	141740	25899	37199
9	Lanco Anpara	141740	25899	37199
10	AD Hydro	79142	25899	37199
11	Chandigarh	79142	25899	37199
12	HP	79142	25899	37199
13	J&K	79142	25899	37199

Slabs for PoC Rates- Southern Region (January 2018- March 2018)				
Sl.No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for SR (₹/MW/Month)
1	Andhra Pradesh	329532	25899	14625
2	Karnataka	329532	25899	14625
3	Telangana	329532	25899	14625
4	Sembcorp Gayathri Power Ltd (SGPL), AP	173038	25899	14625
5	TPCIL	173038	25899	14625
6	Kerala	141740	25899	14625
7	Tamil Nadu	110441	25899	14625
8	Coastal Energen	79142	25899	14625
9	Meenakshi Energy Private Ltd	79142	25899	14625
10	Goa-SR	79142	25899	14625
11	Pondicherry	79142	25899	14625



Slabs for PoC Rates -North Eastern Region (January 2018- March 2018)				
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	266935	25899	7935
2	Mizoram	266935	25899	7935
3	Nagaland	204337	25899	7935
4	Manipur	141740	25899	7935
5	Meghalaya	141740	25899	7935
6	Arunachal Pradesh	110441	25899	7935
7	Tripura	79142	25899	7935

Slabs for PoC Rates - Western Region (January 2018- March 2018)					
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 Adani for 1495 MW LTA to Haryana)
1	ACB Ltd	329532	25899	7935	
2	DB Power	329532	25899	7935	
3	Jindal	329532	25899	7935	
4	KSK Mahanadi	329532	25899	7935	
5	MB Power	329532	25899	7935	
6	Spectrum Coal & Power	329532	25899	7935	
7	TRN Energy Pvt. Ltd.	329532	25899	7935	
8	Maharastra	329532	25899	7935	
9	Jindal Stg-II, Tamnar	298233	25899	7935	
10	Gujarat	266935	25899	7935	
11	Adani Power Ltd.	235636	25899	7935	Rs. 349938039 / month
12	Goa	204337	25899	7935	
13	D&D	173038	25899	7935	
14	Madhya Pradesh	173038	25899	7935	
15	Chhattisgarh	141740	25899	7935	
16	Chhattisgarh Inj.	141740	25899	7935	
17	DNH	141740	25899	7935	
18	RKM Powergen Pvt Ltd	110441	25899	7935	
19	Torrent Power	79142	25899	7935	



Slabs for PoC Rates - Eastern Region (January 2018- March 2018)				
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	266935	25899	7935
2	Orissa	266935	25899	7935
3	GMR Kamalanga	204337	25899	7935
4	West Bengal	204337	25899	7935
5	DVC	173038	25899	7935
6	Jharkhand	141740	25899	7935
7	Bangladesh	110441	25899	7935
8	Sikkim	79142	25899	7935
9	West Bengal Inj.	79142	25899	7935



Annexure-II

PoC Rates for STOA purpose			
Slabs for PoC Rates-Northern Region (January 2018- March 2018)			
Sl.No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	Haryana Inj	28.11	3.60
2	Rajasthan Inj	28.11	3.60
3	Rajasthan W	28.11	3.60
4	Uttar Pradesh Inj	28.11	3.60
5	Haryana W	21.10	3.60
6	Uttarakhand W	21.10	3.60
7	Chamera Pooling Point	17.60	3.60
8	Rihand	17.60	3.60
9	Uttar Pradesh W	17.60	3.60
10	Chamera I	14.09	3.60
11	Chamera II	14.09	3.60
12	Dulhasti	14.09	3.60
13	RAAP C	14.09	3.60
14	Delhi W	10.59	3.60
15	Karcham Wangtoo	10.59	3.60
16	Koldam	10.59	3.60
17	Koteshwar	10.59	3.60
18	Nathpa Jhakri	10.59	3.60
19	Parbati- 3	10.59	3.60
20	Punjab W	10.59	3.60
21	Rampur HEP	10.59	3.60
22	Rosa Power	10.59	3.60
23	Singrauli	10.59	3.60
24	Tehri	10.59	3.60
25	Uttarakhand Inj	10.59	3.60
26	Jammu & Kashmir Inj	7.08	3.60
27	Jammu & Kashmir W	7.08	3.60
28	Sree Cement	7.08	3.60
29	Uri II	7.08	3.60
30	BBMB	3.58	3.60
31	Chandigarh W	3.58	3.60
32	Delhi Inj	3.58	3.60
33	Himachal Pradesh Inj	3.58	3.60
34	Himachal Pradesh W	3.58	3.60
35	Jhajjar	3.58	3.60
36	Punjab Inj	3.58	3.60
37	Unchahar NTPC	3.58	3.60
38	Uri I	3.58	3.60
39	Chandigarh Inj	0.07	3.60
40	Dadri	0.07	3.60



Slabs for PoC Rates-Western Region (January 2018- March 2018)			
Sl.No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	ACBIL+Spectrum	28.11	3.60
2	Balco	28.11	3.60
3	Jindal Power Limited	28.11	3.60
4	Maharashtra W	28.11	3.60
5	MB Power	28.11	3.60
6	TRN Energy	28.11	3.60
7	JPL Extn.	24.61	3.60
8	Lanco	24.61	3.60
9	Sipat	24.61	3.60
10	DB Power	21.10	3.60
11	Essar Steel W	21.10	3.60
12	Gujarat W	21.10	3.60
13	KSK Mahanadi	21.10	3.60
14	Rihand-WR	21.10	3.60
15	SASAN	21.10	3.60
16	APL Mundra	17.60	3.60
17	Jhabua Power	17.60	3.60
18	Vindhyachal	17.60	3.60
19	D&D W	14.09	3.60
20	Dhariwal	14.09	3.60
21	GMR WARORA	14.09	3.60
22	Goa-WR W	14.09	3.60
23	Korba	14.09	3.60
24	Madhya Pradesh W	14.09	3.60
25	Chhattisgarh Inj	10.59	3.60
26	Chhattisgarh W	10.59	3.60
27	DNH W	10.59	3.60
28	JP Nigrie	10.59	3.60
29	Mauda	10.59	3.60
30	NSPCL	10.59	3.60
31	RKM	10.59	3.60
32	CGPL	3.58	3.60
33	Gujarat Inj	3.58	3.60
34	Madhya Pradesh Inj	3.58	3.60
35	Maharashtra Inj	3.58	3.60
36	RGPPL	3.58	3.60
37	Sholapur- NTPC	3.58	3.60
38	TAPS 3&4	3.58	3.60
39	Torrent	3.58	3.60
40	D&D Inj	0.07	3.60
41	DNH Inj	0.07	3.60
42	Essar Steel Inj	0.07	3.60
43	Goa - WR Inj	0.07	3.60



Slabs for PoC Rates-Eastern Region (January 2018- March 2018)			
Sl.No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	Odisha Inj	28.11	3.60
2	Sikkim Inj	28.11	3.60
3	Talcher-2	28.11	3.60
4	Teesta III	28.11	3.60
5	JITPL	24.61	3.60
6	Teesta	24.61	3.60
7	Barh	21.10	3.60
8	Odisha W	21.10	3.60
9	Talcher	21.10	3.60
10	Bihar W	17.60	3.60
11	GMR Kamalanga	14.09	3.60
12	Kahalgaon	14.09	3.60
13	West Bengal W	14.09	3.60
14	DVC Inj	10.59	3.60
15	DVC W	10.59	3.60
16	Jharkhand W	10.59	3.60
17	MPL	10.59	3.60
18	West Bengal Inj	10.59	3.60
19	Bangladesh W	7.08	3.60
20	Bhutan Inj	7.08	3.60
21	Farakka	7.08	3.60
22	Adhunik Power	3.58	3.60
23	BRBCL Nabinagar	3.58	3.60
24	Sikkim W	3.58	3.60
25	Bangladesh Inj	0.07	3.60
26	Bihar Inj	0.07	3.60
27	Jharkhand Inj	0.07	3.60



Slabs for PoC Rates- Southern Region (January 2018- March 2018)			
Sl.No.	Name of Entity	PoC Slab Rate (paise /kWH)	Reliability Support Charges Rate (paise/kWH)
1	Andhra Pradesh W	24.61	3.60
2	Karnataka Inj	24.61	3.60
3	Karnataka W	24.61	3.60
4	Telangana W	24.61	3.60
5	Tamilnadu Inj	21.10	3.60
6	Sembcorp Gayatri Power Ltd.	14.09	3.60
7	Thermal Powertech	14.09	3.60
8	Kerala W	10.59	3.60
9	NTPL	10.59	3.60
10	Coastal Energy	7.08	3.60
11	Goa-SR W	7.08	3.60
12	IL&FS	7.08	3.60
13	Kaiga	7.08	3.60
14	Kudankulam	7.08	3.60
15	Kudgi-NTPC	7.08	3.60
16	Tamilnadu W	7.08	3.60
17	Andhra Pradesh Inj	3.58	3.60
18	NLC	3.58	3.60
19	Puducherry W	3.58	3.60
20	Ramagundam	3.58	3.60
21	Simhadri 1	3.58	3.60
22	Simhadri 2	3.58	3.60
23	Telangana Inj	3.58	3.60
24	Vallur	3.58	3.60
25	Goa-SR Inj	0.07	3.60
26	Kerala Inj	0.07	3.60
27	Puducherry Inj	0.07	3.60
28	SEPL+MEPL	0.07	3.60



Slabs for PoC Rates- North Eastern Region (January 2018- March 2018)			
Sl.No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	Ranganadi	28.11	3.60
2	Bongaigaon - NTPC	24.61	3.60
3	Assam W	21.10	3.60
4	Mizoram W	21.10	3.60
5	Nagaland W	17.60	3.60
6	Palatana	14.09	3.60
7	Arunachal Pradesh W	10.59	3.60
8	Manipur W	10.59	3.60
9	Meghalaya W	10.59	3.60
10	Tripura Inj	10.59	3.60
11	Assam Inj	7.08	3.60
12	Mizoram Inj	7.08	3.60
13	Nagaland Inj	7.08	3.60
14	Tripura W	7.08	3.60
15	Manipur Inj	3.58	3.60
16	Arunachal Pradesh	0.07	3.60
17	Meghalaya Inj	0.07	3.60



Slabs for PoC Losses-Northern region (January 2018- March 2018)		
Sl. No.	Zone	Slab w.r.t Weighted Average
1	RAPP C	I
2	Rajasthan W	I
3	Rajasthan Inj	I
4	Rihand	III
5	Singrauli	III
6	Himachal Pradesh W	III
7	Shree Cement	IV
8	Uttar Pradesh W	V
9	Uttarakhand W	V
10	Uttar Pradesh Inj	VI
11	Tehri	VI
12	Koteshwar	VI
13	Haryana W	VI
14	Himachal Pradesh Inj	VI
15	Rampur HEP	VII
16	Parbati III	VII
17	Chandigarh W	VIII
18	Jammu & Kashmir W	VIII
19	Chamera II	VIII
20	Nathpa Jhakri	VIII
21	Uri I	VIII
22	Uri II	VIII
23	BBMB	VIII
24	Uttarakhand Inj	IX
25	Delhi W	IX
26	Dulhasti	IX
27	Jammu & Kashmir Inj	IX
28	Punjab W	IX
29	Chamera Pooling Point	IX
30	Chamera I	IX
31	Karcham Wangtoo	IX
32	Punjab Inj	IX
33	Haryana Inj	IX
34	Dadri	IX
35	Jhajjar	IX
36	Delhi Inj	IX
37	Chandigarh Inj	IX
38	Koldam	IX
39	Rosa Power	IX
40	Unchahar	IX



Slabs for PoC - Western Region (January 2018- March 2018)		
Sl. No.	Zone	Slab w.r.t Weighted Average
1	MB Power	I
2	Essar Steel W	II
3	Dhariwal	II
4	Korba	III
5	ACB+Spectrum Coal and Power Limited	III
6	Vindhyachal	III
7	JPL Extn.	III
8	Jindal Power Limited+Jindal Steel Power	III
9	Jhabua Power	III
10	TRN Energy	III
11	Mauda	IV
12	GMR Warora	IV
13	Chhattisgarh W	IV
14	Lanco	IV
15	Sipat	IV
16	Maharashtra W	IV
17	Chhattisgarh Inj	IV
18	Sasan UMPP	IV
19	JP Nigrie	IV
20	APL Mundra	IV
21	Rihand-WR	IV
22	Balco	V
23	Coastal Gujarat Power Limited	V
24	Gujarat W	V
25	Madhya Pradesh W	V
26	Goa-WR W	VI
27	KSK Mahanadi	VI
28	DB Power	VI
29	DNH W	VI
30	Maharashtra Inj	VI
31	D&D W	VI
32	RKM	VI
33	Sholapur NTPC	VI
34	NSPCL, Bhilai	VII
35	Madhya Pradesh Inj	VIII
36	Gujarat Inj	VIII
37	RGPPL	VIII
38	Tarapur Atomic Power Station 3&4	IX
39	Goa-WR Inj	IX
40	D&D Inj	IX
41	DNH Inj	IX
42	Essar Steel Inj	IX
43	Torrent Power	IX



Slabs for PoC Losses-Eastern Region (January 2018- March 2018)		
Sl. No.	Zone	Slab w.r.t Weighted Average
1	Teesta	I
2	Talcher Stg-2	I
3	Teesta III	I
4	Talcher	III
5	JITPL	III
6	Sikkim Inj	III
7	GMR Kamalanga	IV
8	Odisha W	IV
9	Bihar W	IV
10	Jharkhand W	IV
11	Orissa Inj	V
12	Injection from Bhutan	V
13	Barh	V
14	Kahalgaon	V
15	Maithon Power Limited	V
16	West Bengal W	VI
17	Farakka	VI
18	DVC Inj	VI
19	Aadhunik Power	VI
20	DVC W	VI
21	Jharkhand Inj	VI
22	BRBCL	VI
23	Bihar Inj	VII
24	West Bengal Inj	VII
25	Bangladesh W	VIII
26	Sikkim W	VIII
27	Bangladesh Inj	IX



Slabs for PoC Losses- Southern Region (January 2018- March 2018)		
Sl. No.	Zone	Slab using Weighted Average
1	Kerala W	I
2	Karnataka W	III
3	Coastal Energy	IV
4	Kerala Inj	IV
5	Kudankulam	IV
6	NTPL	IV
7	Telangana W	IV
8	Andhra Pradesh W	V
9	Kaiga	V
10	SEPL+MEPL	V
11	Thermal Powertech	V
12	Tamilnadu W	V
13	Ramagundam	V
14	Telangana Inj	V
15	IL&FS	V
16	Sembcorp Gayatri Power Ltd.	V
17	Simhadri 2	VI
18	Pondicherry W	VI
19	Karnataka Inj	VI
20	NLC	VI
21	Simhadri 1	VI
22	Kudgi NTPC	VI
23	Andhra Pradesh Inj	VII
24	Tamilnadu Inj	VII
25	Goa-SR W	VII
26	Vallur	VIII
27	Pondicherry Inj	IX
28	Goa-SR Inj	IX

Slabs for PoC Losses -North Eastern Region (January 2018- March 2018)		
Sl. No.	Zone	Slab w.r.t Weighted Average
1	Mizoram W	I
2	Assam W	III
3	Mizoram Inj	III
4	Ranganadi	III
5	Bongaigaon	IV
6	Arunachal Pradesh W	V
7	Manipur W	V
8	Meghalaya W	V
9	Tripura Inj	V
10	Palatana	V
11	Assam Inj	VI
12	Nagaland W	VII
13	Manipur Inj	VII
14	Tripura W	VIII
15	Nagaland Inj	VIII
16	Arunachal Pradesh Inj	IX
17	Meghalaya Inj	IX