

**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: 5th of June, 2018

In the matter of:

Determination of Point of Connection (PoC) rates and transmission losses for the period of April to June, 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 came into force on 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 for each financial year under the Sharing Regulations. Further, as per Regulation 17 of the Sharing Regulations, the Implementing Agency is required to submit the following information after the computation of transmission charges and losses:-



- (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 3.5.2018 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 April to June, 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	361673
II	324714
III	287754
IV	250795
V	213835
VI	176876
VII	139916
VIII	102957
IX	65997

(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	25.46
II	22.56
III	19.66
IV	16.77
V	13.87
VI	10.98
VII	8.08
VIII	5.18
IX	2.29

(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 January - March, 2018 (Q4 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. 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



Annexure-I

PoC Rates for LTA/MTOA billing					
Slabs for PoC Rates-Northern Region (April 2018- June 2018)					
Srl. No	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for NR (₹/MW/Month)	HVDC Charges on account of Champa - Kurukshetra (₹ Month)
1	Rajasthan	361673	26946	23015	11,64,86,137
2	Uttar Pradesh	324714	26946	23015	64,27,53,863
3	Haryana	287754	26946	23015	
4	Uttarakhand	250795	26946	23015	
5	Budhil+ Lanco Green	176876	26946	23015	
6	Delhi	176876	26946	23015	
7	Punjab	176876	26946	23015	
8	AD Hydro	65997	26946	23015	
9	Chandigarh	65997	26946	23015	
10	HP	65997	26946	23015	
11	J&K	65997	26946	23015	

Slabs for PoC Rates- Southern Region (April 2018- June 2018)				
Srl. 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	361673	26946	14857
2	Karnataka	287754	26946	14857
3	Telangana	250795	26946	14857
4	Sembcorp Energy India Ltd	213835	26946	14857
5	Kerala	176876	26946	14857
6	TPCIL	176876	26946	14857
7	Tamil Nadu	102957	26946	14857
8	Goa-SR	65997	26946	14857
9	Pondicherry	65997	26946	14857



Slabs for PoC Rates -North Eastern Region (April 2018- June 2018)				
Srl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for NER (₹/MW/Month)
1	Assam	287754	26946	8299
2	Mizoram	250795	26946	8299
3	Nagaland	213835	26946	8299
4	Manipur	139916	26946	8299
5	Arunachal Pradesh	102957	26946	8299
6	Tripura	102957	26946	8299
7	Meghalaya	65997	26946	8299

Slabs for PoC Rates - Western Region (April 2018- June 2018)					
Srl. 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	361673	26946	8299	
2	DB Power	361673	26946	8299	
3	Jindal	361673	26946	8299	
4	Maharashtra	361673	26946	8299	
5	MB Power	361673	26946	8299	
6	Spectrum Coal & Power	361673	26946	8299	
7	TRN Energy Pvt. Ltd.	361673	26946	8299	
8	DNH	287754	26946	8299	
9	Essar Power Mahan	287754	26946	8299	
10	Jindal Stg-II, Tamnar	287754	26946	8299	
11	D&D	250795	26946	8299	
12	Gujarat	250795	26946	8299	
13	Goa	213835	26946	8299	
14	Madhya Pradesh	139916	26946	8299	
15	Chhattisgarh	102957	26946	8299	
16	Chhattisgarh Inj.	102957	26946	8299	
17	Torrent Power	65997	26946	8299	
18	Adani power Limited				₹35,06,39,293/Month



Slabs for PoC Rates - Eastern Region (April 2018- June 2018)				
Srl. No.	Name of Entity	PoC Slab Rate (₹/MW/Month)	Reliability Support Charges Rate (₹/MW/Month)	HVDC Charges Rate for ER (₹/MW/Month)
1	Bihar	287754	26946	8299
2	Orissa	250795	26946	8299
3	West Bengal	213835	26946	8299
4	DVC	139916	26946	8299
5	GMR Kamalanga	139916	26946	8299
6	Jharkhand	139916	26946	8299
7	Bangladesh	65997	26946	8299
8	Sikkim	65997	26946	8299
9	West Bengal Inj.	65997	26946	8299



Annexure-II

PoC Rates for STOA purpose			
Slabs for PoC Rates-Northern Region (April 2018- June 2018)			
Srl. No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	Haryana Inj	25.46	3.74
2	Rajasthan Inj	25.46	3.74
3	Rajasthan W	25.46	3.74
4	Uttar Pradesh Inj	25.46	3.74
5	Uttar Pradesh W	25.46	3.74
6	Haryana W	22.56	3.74
7	Dulhasti	19.66	3.74
8	Uttarakhand W	16.77	3.74
9	Chamera I	13.87	3.74
10	Chamera Pooling Point	13.87	3.74
11	Delhi W	13.87	3.74
12	Jammu & Kashmir Inj	13.87	3.74
13	Rihand	13.87	3.74
14	Chamera II	10.98	3.74
15	Karcham Wangtoo	10.98	3.74
16	Koteswar	10.98	3.74
17	Nathpa Jhakri	10.98	3.74
18	Parbati- 3	10.98	3.74
19	Punjab W	10.98	3.74
20	Rampur HEP	10.98	3.74
21	Rosa Power	10.98	3.74
22	Himachal Pradesh Inj	8.08	3.74
23	Koldam	8.08	3.74
24	RAAP C	8.08	3.74
25	Singrauli	8.08	3.74
26	Uttarakhand Inj	8.08	3.74
27	Chandigarh W	5.18	3.74
28	Sree Cement	5.18	3.74
29	Tehri	5.18	3.74
30	BBMB	2.29	3.74
31	Chandigarh Inj	2.29	3.74
32	Dadri	2.29	3.74
33	Delhi Inj	2.29	3.74
34	Himachal Pradesh W	2.29	3.74
35	Jammu & Kashmir W	2.29	3.74
36	Jhajjar	2.29	3.74
37	Punjab Inj	2.29	3.74
38	Unchahar NTPC	2.29	3.74
39	Uri I	2.29	3.74
40	Uri II	2.29	3.74



Slabs for PoC Rates-Western Region (April 2018- June 2018)			
Srl. No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	ACBIL+Spectrum	25.46	3.74
2	Balco	25.46	3.74
3	Jindal Power Limited	25.46	3.74
4	KSK Mahanadi	25.46	3.74
5	Maharashtra W	25.46	3.74
6	MB Power	25.46	3.74
7	Raikheda	25.46	3.74
8	TRN Energy	25.46	3.74
9	DB Power	22.56	3.74
10	DNH W	22.56	3.74
11	Essar Mahan	22.56	3.74
12	Lanco	22.56	3.74
13	Sipat	22.56	3.74
14	SKS Power	22.56	3.74
15	D&D W	19.66	3.74
16	Essar Steel W	19.66	3.74
17	Gujarat W	19.66	3.74
18	JPL Extn.	19.66	3.74
19	Rihand WR	19.66	3.74
20	RKM	19.66	3.74
21	SASAN	19.66	3.74
22	Dhariwal	16.77	3.74
23	Goa-WR W	16.77	3.74
24	Jhabua Power	16.77	3.74
25	Vindhyachal	16.77	3.74
26	APL Mundra	13.87	3.74
27	GMR WARORA	13.87	3.74
28	Korba	13.87	3.74
29	JP Nigrie	10.98	3.74
30	Madhya Pradesh W	10.98	3.74
31	Mauda	10.98	3.74
32	Chhattisgarh Inj	8.08	3.74
33	Chhattisgarh W	8.08	3.74
34	NSPCL	8.08	3.74
35	CGPL	5.18	3.74
36	Gujarat Inj	5.18	3.74
37	Madhya Pradesh Inj	5.18	3.74
38	Maharashtra Inj	5.18	3.74
39	D&D Inj	2.29	3.74
40	DNH Inj	2.29	3.74
41	Essar Steel Inj	2.29	3.74
42	Goa WR Inj	2.29	3.74
43	RGPPL	2.29	3.74
44	Sholapur- NTPC	2.29	3.74
45	TAPS 3&4	2.29	3.74
46	Torrent	2.29	3.74



Slabs for PoC Rates-Eastern Region (April 2018- June 2018)			
Srl. No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	Odisha Inj	25.46	3.74
2	Sikkim Inj	25.46	3.74
3	Talcher- 2	25.46	3.74
4	Bihar W	22.56	3.74
5	Teesta III	22.56	3.74
6	Odisha W	19.66	3.74
7	Teesta	19.66	3.74
8	Bhutan Inj	16.77	3.74
9	JITPL	16.77	3.74
10	Talcher	16.77	3.74
11	West Bengal W	16.77	3.74
12	Barh	13.87	3.74
13	Kahalgaon	13.87	3.74
14	DVC Inj	10.98	3.74
15	DVC W	10.98	3.74
16	GMR Kamalanga	10.98	3.74
17	Jharkhand W	10.98	3.74
18	MPL	10.98	3.74
19	West Bengal Inj	10.98	3.74
20	Adhunik Power	5.18	3.74
21	Bangladesh W	5.18	3.74
22	Farakka	5.18	3.74
23	Bangladesh Inj	2.29	3.74
24	Bihar Inj	2.29	3.74
25	BRBCL Nabinagar	2.29	3.74
26	Jharkhand Inj	2.29	3.74
27	Sikkim W	2.29	3.74



Slabs for PoC Rates- Southern Region (April 2018- June 2018)			
Sri. No.	Name of Entity	PoC Slab Rate (paise /kWH)	Reliability Support Charges Rate (paise/kWH)
1	Andhra Pradesh W	25.46	3.74
2	Karnataka Inj	25.46	3.74
3	Tamil Nadu Inj	25.46	3.74
4	Karnataka W	22.56	3.74
5	Telangana W	19.66	3.74
6	Sembcorp Gayatri Power Ltd.	16.77	3.74
7	Thermal Powertech	16.77	3.74
8	Coastal Energy	10.98	3.74
9	IL&FS	10.98	3.74
10	Kerala W	10.98	3.74
11	Kudankulam	10.98	3.74
12	NTPL	10.98	3.74
13	Tamil Nadu W	8.08	3.74
14	Andhra Pradesh Inj	5.18	3.74
15	Goa- SR W	5.18	3.74
16	Kaiga	5.18	3.74
17	Kudgi-NTPC	5.18	3.74
18	NLC	5.18	3.74
19	Puducherry W	5.18	3.74
20	Ramagundam	5.18	3.74
21	Simhadri 1	5.18	3.74
22	Simhadri 2	5.18	3.74
23	Goa- SR Inj	2.29	3.74
24	Kerala Inj	2.29	3.74
25	Puducherry Inj	2.29	3.74
26	Telangana Inj	2.29	3.74
27	Vallur	2.29	3.74



Slabs for PoC Rates- North Eastern Region (April 2018- June 2018)			
Srl. No.	Name of Entity	PoC Slab Rate (paise/kWH)	Reliability Support Charges Rate (paise/kWH)
1	Bongaigaon NTPC	25.46	3.74
2	Ranganadi	25.46	3.74
3	Assam W	22.56	3.74
4	Mizoram W	19.66	3.74
5	Nagaland W	16.77	3.74
6	Mizoram Inj	13.87	3.74
7	Palatana	13.87	3.74
8	Manipur W	10.98	3.74
9	Tripura Inj	10.98	3.74
10	Arunachal Pradesh W	8.08	3.74
11	Tripura W	8.08	3.74
12	Assam Inj	5.18	3.74
13	Manipur Inj	5.18	3.74
14	Meghalaya Inj	5.18	3.74
15	Meghalaya W	5.18	3.74
16	Nagaland Inj	5.18	3.74
17	Arunachal Pradesh Inj	2.29	3.74



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



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



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



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

Slabs for PoC Losses -North Eastern Region (April 2018- June 2018)		
Srl. 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	III
6	Arunachal Pradesh W	V
7	Manipur W	V
8	Meghalaya W	V
9	Assam Inj	V
10	Palatana	V
11	Manipur Inj	VI
12	Meghalaya Inj	VI
13	Nagaland W	VII
14	Tripura Inj	VII
15	Tripura W	VIII
16	Nagaland Inj	VIII
17	Arunachal Pradesh Inj	IX