

**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: 28.7.2016**

**In the matter of:**

Determination of Point of Connection (PoC) rates and transmission losses for the period of July to September, 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 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 21.7.2016 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 July to September, 2016, 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.

b. The Reliability Support Charges, HVDC Charges for all Regions, and HVDC Charges for Mundra-Mohindergarh 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.
7. 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.
8. 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 1.8.2016 short-term open access charges would be payable at the rates applicable for the application period from April- June, 2016 (Q1 of 2016 -17) and for applications received after 1.8.2016, 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 1.8.2016. 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/-**  
**(Gireesh B. Pradhan)**  
**Chairperson**



PoC Rates for LTA/MTOA billing				
Slabs for PoC Rates-Northern Region (July 2016- September 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	Haryana	345179	26062	20376
2	Rajasthan	345179	26062	20376
3	Punjab	278800	26062	20376
4	UP	278800	26062	20376
5	Uttarakhand	278800	26062	20376
6	Anpara-C	179232	26062	20376
7	Delhi	179232	26062	20376
8	Karcham Wangtoo	146043	26062	20376
9	Lanco Budhil	146043	26062	20376
10	AD hydro	79664	26062	20376
11	Chandigarh	79664	26062	20376
12	HP	79664	26062	20376
13	J&K	79664	26062	20376

Slabs for PoC Rates- Southern Region (July 2016- September 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	Andhra Pradesh	345179	26062	16771
2	Karnataka	345179	26062	16771
3	Telangana	311989	26062	16771
4	Thermal Powertech	179232	26062	16771
5	Kerala	146043	26062	16771
6	SEPL	146043	26062	16771
7	Tamil Nadu	112853	26062	16771
8	Goa-SR	79664	26062	16771
9	Pondicherry	79664	26062	16771



<b>Slabs for PoC Rates -North Eastern Region (July 2016- September 2016)</b>				
<b>Sl. No.</b>	<b>Name of Entity</b>	<b>PoC Slab Rate (₹/MW/Month)</b>	<b>Reliability Support Charges Rate (₹/MW/Month)</b>	<b>HVDC Charges Rate for NER (₹/MW/Month)</b>
1	Assam	345179	26062	7382
2	Mizoram	345179	26062	7382
3	Meghalaya	278800	26062	7382
4	Arunachal Pradesh	245611	26062	7382
5	Manipur	179232	26062	7382
6	Nagaland	179232	26062	7382
7	Tripura	112853	26062	7382

<b>Slabs for PoC Rates - Western Region(July 2016- September 2016)</b>					
<b>Sl. No.</b>	<b>Name of Entity</b>	<b>PoC Slab Rate (₹/MW/Month)</b>	<b>Reliability Support Charges Rate (₹/MW/Month)</b>	<b>HVDC Charges Rate for WR (₹/MW/Month)</b>	<b>HVDC Charges for Mundra - Mohindergarh (amount payable by M/s Adani for 1495 MW LTA to Haryana)</b>
1	Goa	345179	26062	7382	
2	JPL	345179	26062	7382	
3	Maharashtra	345179	26062	7382	
4	MB Power	345179	26062	7382	
5	ACBIL	278800	26062	7382	
6	APL Mundra	278800	26062	7382	Rs. 287711355 / month
7	Maruti CCPL	278800	26062	7382	
8	Gujarat	245611	26062	7382	
9	Spectrum	179232	26062	7382	
10	Chhattisgarh	146043	26062	7382	
11	D&D	112853	26062	7382	
12	DNH	112853	26062	7382	
13	Madhya Pradesh	112853	26062	7382	
14	Torrent_Sugen	79664	26062	7382	



<b>Slabs for PoC Rates - Eastern Region(July 2016- September 2016)</b>				
<b>Sl. No.</b>	<b>Name of Entity</b>	<b>PoC Slab Rate (₹/MW/Month)</b>	<b>Reliability Support Charges Rate (₹/MW/Month)</b>	<b>HVDC Charges Rate for ER (₹/MW/Month)</b>
1	DVC	212421	26062	7382
2	Jharkhand	212421	26062	7382
3	West Bengal	212421	26062	7382
4	Bihar	179232	26062	7382
5	Orissa	179232	26062	7382
6	MPL	112853	26062	7382
7	Bangladesh	79664	26062	7382
8	Sikkim	79664	26062	7382



PoC Rates for STOA purpose			
Slabs for PoC Rates-Northern Region (July 2016- September 2016)			
Sl. No.	Name of Entity	PoC Slab Rate (₹/paise/kWH)	Reliability Support Charges Rate (₹/paise/kWH)
1	Haryana Inj	23.32	3.62
2	Haryana W	23.32	3.62
3	Rajasthan Inj	23.32	3.62
4	Rajasthan W	23.32	3.62
5	UP Inj	20.84	3.62
6	Punjab W	18.37	3.62
7	UP W	18.37	3.62
8	Uttarakhand W	18.37	3.62
9	Dulhasti	15.89	3.62
10	Rihand	15.89	3.62
11	Delhi W	13.42	3.62
12	Chamera I	10.95	3.62
13	Chamera Pooling Point	10.95	3.62
14	J&K Inj	10.95	3.62
15	Parbati III	10.95	3.62
16	Chamera II	8.47	3.62
17	Karcham Wangtoo	8.47	3.62
18	Koldam	8.47	3.62
19	Nathpa Jhakri	8.47	3.62
20	Rampur HEP	8.47	3.62
21	Singrauli	8.47	3.62
22	Uttarakhand Inj	8.47	3.62
23	Chandigarh W	6.00	3.62
24	HP Inj	6.00	3.62
25	Koteshwar	6.00	3.62
26	RAAP C	6.00	3.62
27	Tehri	6.00	3.62
28	Uri II	6.00	3.62
29	Dadri	3.53	3.62
30	Delhi Inj	3.53	3.62
31	HP W	3.53	3.62
32	J&K W	3.53	3.62
33	Jhajjar	3.53	3.62
34	Punjab Inj	3.53	3.62
35	Sree Cement	3.53	3.62
36	Uri I	3.53	3.62
37	Chandigarh inj	3.53	3.62



**Slabs for PoC Rates-Western Region (July 2016- September 2016)**

Sl. No.	Name of Entity	PoC Slab Rate (₹ paise/kWH)	Reliability Support Charges Rate (₹ paise/kWH)
1	Chhattisgarh Inj	23.32	3.62
2	Goa W	23.32	3.62
3	JPL Extn.	23.32	3.62
4	JPL+JSPL	23.32	3.62
5	Maharashtra W	23.32	3.62
6	MB Power	23.32	3.62
7	APL Mundra	20.84	3.62
8	Balco	20.84	3.62
9	Raikheda	20.84	3.62
10	ACBIL+Spectrum	18.37	3.62
11	DB Power	18.37	3.62
12	Gujarat W	18.37	3.62
13	Jhabua Power	18.37	3.62
14	KSK Mahanadi	18.37	3.62
15	KWPCL	18.37	3.62
16	Lanco	18.37	3.62
17	SASAN	18.37	3.62
18	Sipat	18.37	3.62
19	Essar Mahan	15.89	3.62
20	Essar Steel W	15.89	3.62
21	Vindhyachal	15.89	3.62
22	RKM	13.42	3.62
23	Dhariwal	10.95	3.62
24	EMCO	10.95	3.62
25	JP Nigrie	10.95	3.62
26	Korba	10.95	3.62
27	Chhattisgarh W	8.47	3.62
28	D&D W	8.47	3.62
29	DNH W	8.47	3.62
30	Madhya Pradesh W	8.47	3.62
31	Mauda	8.47	3.62
32	Maharashtra Inj	6.00	3.62
33	CGPL	3.53	3.62
34	Gujarat Inj	3.53	3.62
35	Madhya Pradesh Inj	3.53	3.62
36	NSPCL	3.53	3.62
37	RGPPL	3.53	3.62



38	SSP	3.53	3.62
39	TAPS 3&4	3.53	3.62
40	Torrent_Sugen	3.53	3.62
41	D&D Inj	3.53	3.62
42	DNH Inj	3.53	3.62
43	Essar Steel Inj	3.53	3.62
44	Goa-WR Inj	3.53	3.62



<b>Slabs for PoC Rates-Eastern Region (July 2016- September 2016)</b>			
<b>Sl. No.</b>	<b>Name of Entity</b>	<b>PoC Slab Rate (₹ paise/kWH)</b>	<b>Reliability Support Charges Rate (₹ paise/kWH)</b>
1	Bhutan	23.32	3.62
2	Orissa Inj	23.32	3.62
3	Sikkim Inj	23.32	3.62
4	Talcher-2	23.32	3.62
5	Teesta	23.32	3.62
6	West Bengal Inj	23.32	3.62
7	Barh	15.89	3.62
8	GMR Kamalanga	15.89	3.62
9	Jharkhand W	15.89	3.62
10	JITPL	15.89	3.62
11	Kahalgaon	15.89	3.62
12	Sterlite	15.89	3.62
13	Talcher	15.89	3.62
14	West Bengal W	15.89	3.62
15	Bihar W	13.42	3.62
16	DVC W	13.42	3.62
17	Orissa W	13.42	3.62
18	DVC	8.47	3.62
19	MPL	8.47	3.62
20	Farakka	6.00	3.62
21	Aadhunik	3.53	3.62
22	Bangladesh W	3.53	3.62
23	Bihar Inj	3.53	3.62
24	Jharkhand Inj	3.53	3.62
25	Sikkim W	3.53	3.62
26	Bangladesh Inj	3.53	3.62



**Slabs for PoC Rates- Southern Region(July 2016- September 2016)**

Sl. No.	Name of Entity	PoC Slab Rate (₹ paise /kWH)	Reliability Support Charges Rate (₹ paise/kWH)
1	Andhra Pradesh W	23.32	3.62
2	Karnataka W	23.32	3.62
3	Tamil Nadu Inj	23.32	3.62
4	Telangana W	20.84	3.62
5	SEPL+MEPL	15.89	3.62
6	Thermal Power Tech	13.42	3.62
7	Coastal Energy	10.95	3.62
8	IL&FS	10.95	3.62
9	Kaiga	10.95	3.62
10	Kerala W	10.95	3.62
11	Kudankulam	8.47	3.62
12	NTPL	8.47	3.62
13	Simhadri 2	8.47	3.62
14	Goa-SR W	6.00	3.62
15	NLC	6.00	3.62
16	Ramagundam	6.00	3.62
17	Tamil Nadu W	6.00	3.62
18	Andhra Pradesh Inj	3.53	3.62
19	Karnataka Inj	3.53	3.62
20	Kerala Inj	3.53	3.62
21	Pondicherry W	3.53	3.62
22	Telangana Inj	3.53	3.62
23	Vallur	3.53	3.62
24	Goa-SR Inj	3.53	3.62
25	Pondicherry Inj	3.53	3.62



<b>Slabs for PoC Rates- North Eastern Region (July 2016- September 2016)</b>			
<b>Sl. No.</b>	<b>Name of Entity</b>	<b>PoC Slab Rate (₹ paise/kWH)</b>	<b>Reliability Support Charges Rate (₹ paise/kWH)</b>
1	Assam W	23.32	3.62
2	Bongaigaon-NTPC	23.32	3.62
3	Mizoram W	23.32	3.62
4	Ranganadi	23.32	3.62
5	Meghalaya W	18.37	3.62
6	Arunachal Pradesh W	15.89	3.62
7	Palatana	15.89	3.62
8	Assam Inj	13.42	3.62
9	Manipur W	13.42	3.62
10	Mizoram Inj	10.95	3.62
11	Nagaland Inj	10.95	3.62
12	Nagaland W	10.95	3.62
13	Tripura W	8.47	3.62
14	Tripura Inj	6.00	3.62
15	Manipur Inj	3.53	3.62
16	Meghalaya Inj	3.53	3.62
17	Arunachal Pradesh Inj	3.53	3.62



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



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



**Slabs for PoC Losses-Eastern Region (July 2016- September 2016)**

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



**Slabs for PoC Losses- Southern Region (July 2016- September 2016)**

<b>Sl. No.</b>	<b>Zone</b>	<b>Slab using Weighted Average</b>
1	Kerala W	I
2	Karnataka W	II
3	NTPL	II
4	Telangana W	II
5	Kudankulam	III
6	Coastal Energy	III
7	Andhra Pradesh W	IV
8	Simhadri 2	V
9	Kerala Inj	V
10	Pondicherry W	V
11	Andhra Pradesh Inj	VI
12	Kaiga	VI
13	SEPL+MEPL	VI
14	Thermal Powertech	VI
15	Ramagundam	VI
16	NLC	VI
17	Telangana Inj	VI
18	Tamilnadu W	VII
19	Karnataka Inj	VII
20	IL&FS	VII
21	Tamilnadu Inj	VIII
22	Vallur	VIII
23	Goa-SR W	VIII
24	Pondicherry Inj	IX
25	Goa-SR Inj	IX



**Slabs for PoC Losses -North Eastern Region (July 2016- September 2016)**

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

