

**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: 28.9.2015**

**In the matter of:**

Determination of Point of Connection (PoC) rates and transmission losses for the period of July to September, 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 "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 15.9.2015 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 in to slabs and schedule of charges payable by each DIC for July to September, 2015, as submitted by Implementing Agency.

5. The Commission had by its order dated 24.9.2015 approved the slabs of PoC rates for LTA/MTOA and separate slab rates for STOA for the three month period from 1.7.2015 to 30.9.2015. The Commission vide the order dated 24.9.2015 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 1.7.2015 to 30.9.2015

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 24.9.2015 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 May - June, 2015 (Q1 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 5.10.2015. 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/-	sd/-	sd/-	sd/-
<b>(Dr. M.K. Iyer)</b> <b>Member</b>	<b>(A.S. Bakshi)</b> <b>Member</b>	<b>(A.K. Singhal)</b> <b>Member</b>	<b>(Gireesh B. Pradhan)</b> <b>Chairperson</b>



PoC Rates for LTA/MTOA billing				
Slabs for PoC Rates-Northern Region (July 2015-September 2015)				
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	299260	22034	13447
2	Rajasthan	299260	22034	13447
3	Uttarakhand	238571	22034	13447
4	Uttar Pradesh	177882	22034	13447
5	Punjab	177882	22034	13447
6	Delhi	147537	22034	13447
7	Lanco Budhil	117193	22034	13447
8	Chandigarh	86848	22034	13447
9	Karcham Wangtoo	86848	22034	13447
10	AD hydro	56503	22034	13447
11	Himachal Pradesh	56503	22034	13447
12	Jammu & Kashmir	56503	22034	13447

Slabs for PoC Rates- Southern Region (July 2015-September 2015)				
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	299260	22034	19151
2	Telangana	268915	22034	19151
3	Andhra Pradesh	208226	22034	19151
4	Tamil Nadu	177882	22034	19151
5	Kerala	177882	22034	19151
6	Goa-SR	56503	22034	19151
7	Pondicherry	56503	22034	19151

<b>Slabs for PoC Rates -North Eastern Region(July 2015-September 2015)</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>
1	Assam	299260	22034
2	Mizoram	299260	22034
3	Meghalaya	268915	22034
4	Arunachal Pradesh	177882	22034
5	Nagaland	177882	22034
6	Manipur	86848	22034
7	Tripura	56503	22034

<b>Slabs for PoC Rates - Western Region(July 2015-September 2015)</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 for Mundra - Mohindergarh (amount payable by M/s Adani for 1495 MW LTA to Haryana)</b>
1	Maharashtra	299260	22034	
2	Jindal Power Ltd.	299260	22034	
3	ACBIL	268915	22034	
4	Goa	268915	22034	
5	APL Mundra	238571	22034	₹251740065/month
6	Gujarat	208226	22034	
7	EMCO	177882	22034	
8	Spectrum	147537	22034	
9	Madhya Pradesh	117193	22034	
10	D&D	86848	22034	
11	DNH	86848	22034	
12	Chattisgarh	86848	22034	
13	Torrent_Sugen	56503	22034	



<b>Slabs for PoC Rates-Eastern Region (July 2015-September 2015)</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>
1	Bihar	238571	22034
2	Jharkhand	208226	22034
3	West Bengal	177882	22034
4	Orissa	147537	22034
5	DVC	117193	22034
6	MPL	86848	22034
7	Sikkim	56503	22034
8	Bangladesh	56503	22034



**Annexure-II**

<b>PoC Rates for STOA purpose</b>			
<b>Slabs for PoC Rates-Northern Region (July 2015-September 2015)</b>			
<b>Sl. No.</b>	<b>Name of Entity</b>	<b>oC Slab Rate (₹paise/kWH)</b>	<b>Reliability Support Charges Rate (₹paise/kWH)</b>
1	Haryana Inj	19.96	3.06
2	RAAPC	19.96	3.06
3	Haryana W	19.96	3.06
4	Rajasthan Inj	19.96	3.06
5	Rajasthan W	19.96	3.06
6	Uttarakhand W	15.81	3.06
7	Uttar Pradesh Inj	13.73	3.06
8	Uttar Pradesh W	11.66	3.06
9	Rihand	11.66	3.06
10	Delhi W	11.66	3.06
11	Punjab W	11.66	3.06
12	Uttarakhand Inj	9.58	3.06
13	Uri II	9.58	3.06
14	Dulhasti	9.58	3.06
15	Chamera Pooling Point	9.58	3.06
16	Jammu & Kashmir Inj	7.50	3.06
17	Chamera I	7.50	3.06
18	Singrauli	7.50	3.06
19	Chamera II	7.50	3.06
20	Uril	7.50	3.06
21	Parbati III	7.50	3.06
22	Rampur HEP	7.50	3.06
23	Koldam	7.50	3.06
24	Chandigarh W	7.50	3.06
25	Nathpa Jhakri	5.43	3.06
26	Himachal Pradesh Inj	5.43	3.06
27	Tehri	5.43	3.06
28	Karcham Wangtoo	5.43	3.06
29	Koteshwar	5.43	3.06
30	Delhi Inj	3.35	3.06
31	Punjab Inj	3.35	3.06
32	Dadri	3.35	3.06
33	Jhajjar	3.35	3.06
34	Sree Cement	3.35	3.06
35	Himachal Pradesh W	3.35	3.06
36	Jammu & Kashmir W	3.35	3.06
37	Chandigarh Inj	3.35	3.06



**Slabs for PoC Rates-Western Region (July 2015-September 2015)**

Sl. No.	Name of Entity	PoC Slab Rate (₹ paise/kWH)	Reliability Support Charges Rate (₹ paise/kWH)
1	KSK Mahanadi	19.96	3.06
2	JPL Extn.(Tamnar)	19.96	3.06
3	Goa W	19.96	3.06
4	Maharastra Inj	19.96	3.06
5	Jindal Power Ltd.+Jindal Steel Power Ltd.	19.96	3.06
6	DB Power	19.96	3.06
7	MB Power	19.96	3.06
8	Maharastra W	19.96	3.06
9	ACB+Spectrum Coal & Power Ltd.	17.88	3.06
10	Lanco	17.88	3.06
11	Korba West Power	17.88	3.06
12	Vindhyachal	15.81	3.06
13	Gujarat W	15.81	3.06
14	Sipat	15.81	3.06
15	SASAN	15.81	3.06
16	APL Mundra	15.81	3.06
17	Raikheda (GMR)	15.81	3.06
18	Korba	13.73	3.06
19	Balco	13.73	3.06
20	Mauda	11.66	3.06
21	EMCO	11.66	3.06
22	JP Nigrie	11.66	3.06
23	NSPCL Bhilai	9.58	3.06
24	Essar Steel W	9.58	3.06
25	Madhya Pradesh W	7.50	3.06
26	DNHW	7.50	3.06
27	Chattisgarh Inj	5.43	3.06
28	Sardar Sarovar Project	5.43	3.06
29	DGEN	5.43	3.06
30	Chattisgarh W	5.43	3.06
31	D&DW	5.43	3.06
32	Torrent_Sugen	3.35	3.06
33	Gujarat Inj	3.35	3.06
34	Madhya Pradesh Inj	3.35	3.06
35	CGPL Mundra	3.35	3.06
36	Tarapur Atomic Power Station 3&4	3.35	3.06
37	D&D Inj	3.35	3.06



38	DNH Inj	3.35	3.06
39	Essar Steel Inj	3.35	3.06
40	Goa-WR Inj	3.35	3.06



<b>Slabs for PoC Rates-Eastern Region (July 2015-September 2015)</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	West Bengal Inj	19.96	3.06
2	Sikkim Inj	19.96	3.06
3	Talcher-2	19.96	3.06
4	Orissa Inj	19.96	3.06
5	Teesta	17.88	3.06
6	Bhutan	15.81	3.06
7	Bihar W	15.81	3.06
8	Jharkhand W	15.81	3.06
9	Talcher	13.73	3.06
10	Sterlite	13.73	3.06
11	West Bengal W	13.73	3.06
12	Barh	11.66	3.06
13	Kahalgaon	11.66	3.06
14	GMR Kamalanga	9.58	3.06
15	JITPL	9.58	3.06
16	Orissa W	9.58	3.06
17	DVCW	9.58	3.06
18	DVC	7.50	3.06
19	Farakka	5.43	3.06
20	Maithon Power Ltd.	5.43	3.06
21	Bihar Inj	3.35	3.06
22	Aadhunik	3.35	3.06
23	Sikkim W	3.35	3.06
24	Bangladesh W	3.35	3.06
25	Jharkhand Inj	3.35	3.06
26	Bangladesh Inj	3.35	3.06



<b>Slabs for PoC Rates- Southern Region(July 2015-September 2015)</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	Karnataka Inj	19.96	3.06
2	Tamil Nadu Inj	19.96	3.06
3	Karnataka W	19.96	3.06
4	Telangana W	17.88	3.06
5	Thermal Power Tech	15.81	3.06
6	Andhra Pradesh W	15.81	3.06
7	SEPL+MEPL	15.81	3.06
8	Lanco-Kondapalli	13.73	3.06
9	Tamil Nadu W	13.73	3.06
10	Kerala W	11.66	3.06
11	Simhadri 2	9.58	3.06
12	Ramagundam	7.50	3.06
13	Kudankulam	7.50	3.06
14	Coastal Energy	7.50	3.06
15	NTPL	7.50	3.06
16	Pondicherry W	5.43	3.06
17	Kaiga	5.43	3.06
18	NLC	5.43	3.06
19	Andhra Pradesh Inj	3.35	3.06
20	KeralaInj	3.35	3.06
21	Goa-SRW	3.35	3.06
22	Telangana Inj	3.35	3.06
23	Vallur	3.35	3.06
24	Pondicherry Inj	3.35	3.06
25	Goa-SR Inj	3.35	3.06



<b>Slabs for PoC Rates- North Eastern Region (July 2015-September 2015)</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	Mizoram W	19.96	3.06
2	Ranganadi	19.96	3.06
3	Assam W	19.96	3.06
4	Meghalaya W	17.88	3.06
5	Assam Inj	15.81	3.06
6	Mizoram Inj	13.73	3.06
7	Palatana	11.66	3.06
8	Nagaland W	11.66	3.06
9	Tripura Inj	11.66	3.06
10	Arunachal Pradesh W	9.58	3.06
11	Manipur W	7.50	3.06
12	Nagaland Inj	7.50	3.06
13	Manipur Inj	5.43	3.06
14	Tripura W	5.43	3.06
15	Meghalaya Inj	3.35	3.06
16	Arunachal Pradesh Inj	3.35	3.06



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

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



**Slabs for PoC Losses-Eastern Region (July 2015-September 2015)**

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



**Slabs for PoC Losses- Southern Region (July 2015-September 2015)**

<b>Sl. No.</b>	<b>Zone</b>	<b>Weighted Average</b>
1	Kerala W	Tier-1
2	Simhadri2	Tier-1
3	Karnataka W	Tier-1
4	Telangana W	Tier-2
5	AndhraPradesh W	Tier-3
6	LANCO	Tier-3
7	Pondicherry W	Tier-4
8	Kudankulam	Tier-5
9	Coastal Energy	Tier-5
10	NTPL	Tier-5
11	Kerala Inj	Tier-6
12	Andhra Pradesh Inj	Tier-6
13	Kaiga	Tier-6
14	SEPL+MEPL	Tier-6
15	Thermal Powertech	Tier-6
16	Tamil Nadu W	Tier-6
17	Ramagundam	Tier-6
18	Telangana Inj	Tier-6
19	Karnataka Inj	Tier-7
20	NLC	Tier-8
21	Vallur	Tier-8
22	Tamilnadul nj	Tier-9
23	Goa-SR W	Tier-9
24	Pondicherry Inj	Tier-9
25	Goa-SR Inj	Tier-9



Slabs for PoC Losses -North Eastern Region (July 2015-September 2015)		
Sl.No.	Zone	Slab w.r.t Weighted Average
1	Mizoram W	Tier-1
2	Mizoram Inj	Tier-1
3	Manipur W	Tier-3
4	Ranganadi	Tier-4
5	Palatana	Tier-4
6	Manipur Inj	Tier-4
7	Assam W	Tier-4
8	Meghalaya W	Tier-5
9	Arunachal Pradesh W	Tier-5
10	Nagaland W	Tier-6
11	Assam Inj	Tier-6
12	Nagaland Inj	Tier-8
13	Tripura Inj	Tier-8
14	Meghalaya Inj	Tier-9
15	Tripura W	Tier-9
16	Arunachal Pradesh Inj	Tier-9

