



सत्यमेव जयते

भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
पूर्वी क्षेत्रीय विद्युत समिति

**Eastern Regional Power Committee**  
14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033  
14 Golf Club Road, Tollygunj, Kolkata-700033



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NO: ERPC/COM-II/ABT-DC/ 2932-66

Date: 17.06.2019

To  
As per List

**Sub: Statement of Deviation Charges including Additional Deviation Charges, RRAS, FRAS & SCED Settlement Account for the period from 27.05.2019 to 02.06.2019.**

Sir,

Statement of Deviation charges for the week has been prepared as per CERC(DSM & Related matters) regulation,2014 & all amendments(including 4<sup>th</sup> Amendment regulation,2018 dated 20.11.2018)

RRAS Settlement Account for the week has been prepared as per the guidelines of Detailed Procedure for Ancillary Services Operation approved by CERC.FRAS Settlement Account for the week has been prepared based on the CERC order in petition No.07/SM/2018/Suo-Motu, dated 16.07.2018.

SCED Settlement Account for the week has been prepared based on the CERC order in petition No. 02/SM/2019/Suo-Motu dated 31.01.2019 & Detailed Procedure for SCED approved by CERC.

*The last installment of data for the subjected week has been received from ERLDC on 12.06.2019.*

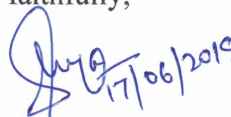
The constituents, who have to pay the Deviation Charges as indicated in the statement, are requested to make the payment to the Deviation Pool account operated by ERLDC within 10 days of the billing date. In case of delayed payments for Deviation charges against these bills beyond 12 days, the defaulting constituents shall have to pay simple interest @0.04 % for each day of delay.

In case of delay in Payments to/ Receivables from the DSM Pool by the RRAS providers beyond 12/17 days of the issuance date, the RRAS providers shall pay to/receive from the DSM Pool Account simple interest @0.04 % for each day of delay.

Observations, if any, may be intimated to ERPC Secretariat within a fortnight.

Encl: As above

Yours faithfully,

  
for MEMBER SECRETARY

## List of Addressee

1. CE (Trans/O&M), BSPTCL, Vidyut Bhavan, Bailey Road, Patna-21. (Fax 0612-2504557)
2. ESE (Interstate), BSPHCL, Vidyut Bhavan, 3<sup>rd</sup> Floor, Bailey Road, Patna-800 021. (Fax 0612-2504557)
3. CE (Comml & Revenue), JBVNL, Engineering Building, H.E.C. Township, Dhurva, Ranchi-834004, Jharkhand. (Fax : 0651-2490486 / 2400799)
4. GM-cum-CE (Trans), JUSNL, Kusai Colony, Duranda, Ranchi, Jharkhand (Fax:0651-2490486)
5. CE (Comml), DVC, DVC Towers, VIP Road, Kolkata-700 054. (Fax: 033-23552129)
6. CE (SLDC), DVC, P.O.: Danesh Sheikh Lane, Andul Road, Howrah - 71110 9. FAX-033-2688-5094
7. Sr. GM(PP), GRIDCO, 4<sup>th</sup> floor, Vidyut Bhawan, Janpath, Bhubaneswar-22. (Fax : 0674-2547180/2547261).
8. Sr. GM (PS), OPTCL, SLDC Bldg, PO Mancheswar Rly Colony, Bhubaneswar-17, (Fax: 0674-2748509)
9. Sr. General Manager(Finance), OPGC, Odisha ( Fax: 06645 222225 )
10. CE (Trans.), Energy & Power Deptt., Govt. of Sikkim, Gangtok.-737 101 (Fax: 03592-201148 / 202927)
11. CE (SLDC), WBSETCL, PO. Danesh Sheikh Lane, Howrah-109. (Fax: 033-26886232)
12. Chief (Finance), NHPC Ltd, Sector-33, Faridabad-121003 (Fax: 0129-2254668)
13. ED (Comml), NHPC Ltd, Sector-33, Faridabad-121003 (Fax No. 0129-2254668)
14. AGM (Comml), NTPC Ltd, Loknayak Jaiprakash Bhawan, 2<sup>nd</sup> floor, Dak Banglow Chowk, Fraser Road, Patna-800 001. (Fax : 0612-2230035 / 2224287 ,2211807 )
15. GM (Comml), NTPC Ltd, 7 Institutional Area, Lodhi Road, New Delhi-3 (Fax: 011-24360318 / 24368417)
16. AGH (Comml), Maithon Power Ltd, MA-5, Gongga, PO: Maithon Dam-828207 (Fax: 06540-276606, 08860004758)
17. DGM (Electrical), APNRL, P.O. kandra, Behind 400kV PGCIL S/s, Tata-Kandra road, Dist: Saraikela, Kharsanwa ( Jharkhand) – 832 105 ( FAX: 0657 – 6628440)
18. AGM(Comml.), ER-I, Powergrid, Patna ( Fax: 0612 2227630 )
19. AGM(Comml.), ER-II, Powergrid, Kolkata (Fax NO. 033 2357 2827)
20. AGM(E&M), GATI Infrastructure Ltd., Sundung, Rongli, East Sikkim, Sikkim-737131(Fax: 08066885455)
21. ED, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata-33 (Fax: 033-24235809)
22. ED, NRLDC, 18A, Shaheed JSS Marg, Katwaria Sarai, New Delhi-110 016. (Fax:011-26852747)
23. GM, SRLDC, 29 Race Course Road, Bangalore-560009 (Fax : 080-22268725).
24. GM, WRLDC, MIDC Area, Marol, Andheri (E), Mumbai-490093 (Fax: 022-28235434)
25. GM, NERLDC, Dongtiah, Lower Nongrah, Laplang, Shillong-793006 (Fax:0364-2537470)
26. GM(Electrical), Ind Barath Energy Utkal Ltd., Vill: Sahajbahal P.O: Charpali-Barpali, Dist: Jharsuguda – 768211 (Fax: 0674-2532174)
27. GM(Power Sales), GMRKEL, Plot no 29, Satya Nagar, Bhubaneshwar- 751 007(Fax: 0674- 2572794)
28. Head(Power Sales), JITPL, Local shopping centre, Sector-B1, Vasant kunj, New Delhi- 110 070
29. AGM, SO, NVVN, SCOPE Complex, Core-5, 1st & 2nd Floor, Lodhi Road, New Delhi-110003 (Fax: 011-24367021)
30. Head(Commercial), TPTCL, Tata Power Co Ltd, B12 & 13, 2<sup>nd</sup> Floor, Shatabdi Bhawan, Sector 4, NOIDA – 201 301 (Fax: 0120-2540085/0050)
31. ED, DANS Energy Pvt Ltd, 5<sup>th</sup> Floor, Building no.8, Tower-C, DLF Cyber City, Phase-II, GURGAON – 122 002
32. GM, Teesta Urja Limited, 2nd Floor, Vijaya Building. 17, Barakhamba Road. New Delhi – 110001 (Ph. 9810519283; 011- 46529600/46529700)
33. AGM, BRBCL, Nabinagar, Aurangabad BIHAR (Fax : 06332 233002)
34. Director, Shiga Energy Pvt. Ltd., 5th Floor, DLF Building No. 8, Tower-C, DLF Cyber City, Phase-II, Gurgaon – 122002
35. CEO, Sneha Kinetic Power Projects Pvt.Ltd. #31 -A, National Highway, Behind SNOD building., Deorali, Gangtok, Sikkim-737102

**EASTERN REGIONAL POWER COMMITTEE**  
**KOLKATA**  
**ABT based Deviation Charge Account**  
**For the period 27.05.19 TO 02.06.19**  
**AS PER 4TH AMENDMENT OF DSM, 2018 W.E.F. 01/01/2019**

(All figures in Rs. Lakhs)

UTILITIES AND DEVIATION CHARGES PAYABLE BY THEM	DEVIATION CHARGE (in Rs. Lakhs)		ADDITIONAL DEVIATION CHARGE DUE TO VIOLATION OF BLOCK WISE VOLUME LIMIT (in Rs. Lakhs.)	ADDITIONAL DEVIATION CHARGE DUE TO VIOLATION OF SIGN CHANGE (in Rs. Lakhs.)	FINAL DEVIATION CHARGE (in Rs. Lakhs)	
	RECEIVABLE	PAYABLE			RECEIVABLE	PAYABLE
A	B	C	D	E	F	G
<b>BENEFICIARIES OF EASTERN REGION</b>						
BSPHCL		93.92636	153.19922	47.28979		294.41537
JUVNL		48.93053	46.20146	96.11835		191.25035
DVC		73.89769	28.70958	208.82126		311.42854
GRIDCO		201.27483	78.51633	77.89427		357.68544
SIKKIM	6.60654		6.54640	3.29540		3.23526
WBSETCL	71.95731		56.45695	62.65130		47.15093
HVDC SASARAM		0.19259	0.03880	0.24191		0.47330
HVDC ALIPURDUAR		0.03897	0.24570	0.04770		0.33237
<b>CERC REGULATED GENERATORS (CGS/ISGS)</b>						
FSTPP-I & II		109.46079	5.78161	31.67242		146.91481
FSTPP-III		29.00300	2.48306	0.00000		31.48607
KHSTPP-I		4.31756	3.34736	1.28691		8.95182
KHSTPP-II		41.36515	6.93594	65.47693		113.77802
TSTPP		2.10289	1.59654	1.07930		4.77873
BARH		24.34569	2.38519	4.70706		31.43794
MTPS-II		20.31576	4.34410	6.96237		31.62223
BRBCL		6.34142	9.53761	5.12146		21.00049
TEESTA	16.71398		1.15229	0.00000	15.56169	
RANGIT	1.22410		0.39470	0.00154	0.82786	
MAITHON R/B	3.47348		2.10115	0.67013	0.70221	
<b>OTHER GENERATORS</b>						
APNRL		29.55932	4.17701	5.56202		39.29835
GMRKEL		31.06881	2.22009	1.87674		35.16564
JITPL		3.86030	1.54310	2.07551		7.47891
CHUZACHEN	3.12994		0.77238	0.72152	1.63603	
DIKCHU	29.27154		2.16000	0.72480	26.38673	
JORETHANG HEP		34.32296	0.88047	0.00000		35.20343
THEP		19.02267	1.60076	1.15309		21.77651
TUL	30.17606		0.38499	0.00000	29.79107	
<b>INTER- REGIONAL</b>						
NER		2005.52818				2005.52818
NR		687.38956				687.38956
SR		3435.61820				3435.61820
WR	6860.28075				6860.28075	
<b>INTER- NATIONAL</b>						
NVVN-BD		77.00875	26.61149	209.31075		312.93100
NVVN-NEPAL		8.67071	11.57525	15.62552		35.87148
TPTCL		27.08361	0.51223			27.59583
<b>INFIRM GENERATORS</b>						
OPGC_INFIRM	17.57168				17.57168	
NPGC_INFIRM	210.63203				210.63203	
DARLIPALI_INFIRM		26.13430				26.13430
<b>SOLAR GENERATORS</b>						
TALCHER SOLAR		0.89791				0.89791
Adj of JORETHANG HEP(100519) Adj of WR(100519)					0.13797	0.18348
<b>TOTAL</b>	<b>7251.03741</b>	<b>7041.67851</b>	<b>462.41178</b>	<b>850.38805</b>	<b>7163.52801</b>	<b>8267.01445</b>

(All figures in Rs. Lakhs)

<b>Payable to the pool(A):</b>	<b>7041.67851</b>
<b>Receivable from the pool(B):</b>	<b>7251.03741</b>
<b>Differential Amount Arising from capping of Generating Stations(A-B)</b>	<b>-209.35890</b>
<b>Additional Deviation Amount:</b>	<b>1312.79983</b>
<b>VAE of Eastern Region:</b>	<b>11.23009</b>

**EASTERN REGIONAL POWER COMMITTEE  
KOLKATA**

i) Metering points for Inter-Regional Exchange:-

a) **Northern Region:** Pusauli East Bus and ER end of other A.C. Ties

b) **Western Region :** Ranchi end of Ranchi-Dharamjaygarh 765kV D/C, ER end of Sundergarh-Dharamjaygarh 765kV D/C,

ER end of Sundergarh-Raigarh 400kV Q/C, ER end of Ranchi-Sipat 400kV D/C, Budipadar-Korba 220 kV lines & Budhipadar-Raigarh 220kV D/C Lines

c) **Southern Region:** Angul end of Angul-Sirkakulam 765kVD/C Lines, Jeypore end of Jeypore -Gajuwaka D/C & East bus of TSTPP Stage I & II interconnector.

d) **North Eastern Region:** NER end of 220 kV Alipurduar -Salakati D/C ,400 kV Alipurduar Bongaigaon and 400kV Binaguri - Bongaigaon D/C lines.

ii) For computing Deviation Charge for the week , Korba meter(NP2657A) has been used as master frequency meter.

iii) Deviation charges for the week has been calculated as per amendment of CERC ( Deviation Settlement Mechanism and related matters) Regulation.Notification no. No.L-1/132/2013/

CERC dated 06.01.14. Amendment as per CERC order dated 20.01.2015 on petition no RP/06/2015 and 4th Amendment order dated 20.11.2018 have also been incorporated.

iv) ACP values for computation of deviation rate vector has been taken from NLDC website

v) For computing cap rate of CERC regulated generators, ECR data from AS-1/AS-3 format has been used as per clarification of NLDC vide letter no. POSOCO/NLDC/2018/381

dated 31.12.2018

vi) The Cap rate for all other generators has been fixed at 303.04 paisa/kwh as per DSM 4th amendment'2018

vii) Additional Deviation Charge due to violation of Block wise volume limit is inclusive of Additional deviation charge due to OD/UI at  $f < 49.85\text{Hz}$  & OI/UD at  $f \geq 50.05\text{ Hz}$ .

viii) CHPC, KHPC and THPC are not covered under ABT. Hence Deviation energy (MWh) of these stations have been adjusted

by giving credits/debits to ER beneficiaries as per their shares from these stations.

ix) ER-NR tie schedule has been modified to the extent of 15% of deviation energy of TALA HEP (after incorporating ER transmission loss of % during the above week).

x) The payable/receivable of "Deviation Charge " in respect of Inter-Regional exchanges are settled on first charge basis without any adjustment.

xi) As informed by ERLDC OPGC (2\*660 MW), new Pool Member of ER, has started drawing power from 15.01.18.

xii) As informed by ERLDC NPGC(NTPC) became a regional entity and DSM pool member wef 10.05.18 as NPGC started drawing start up power wef 10.05.18

xiii) As informed by ERLDC DARLIPALI(NTPC) became a regional entity and DSM pool member wef 31.05.18.

xiv) As informed by ERLDC BRBCL Unit-3 started drawl of Start up power wef 14.09.2018.

xv) Dagachhu HEP has been considered as pure Run of River without pondage as per TPTCL letter dated 06.02.2019 for computation of ADC due to sign change violation.

xvi)As per decision taken in 40th TCC & 40th ERPC meeting, ADC due to Sign change violation will not be applicable for Schedule is zero and generators drawing power from grid.

**This shall be implemented w.e.f. 01.01.2019.**







Format -AS7: RRAS Settlement Account by ERPC

Date: 17/06/2019

RRAS Account for Week: 27-May-19 to 02-Jun-19

A. Payments to the RRAS Provider(s) from the DSM pool for UP Regulation

Sr.No	RRAS Provider Name	Energy Scheduled to VAE under RRAS(MWh)	Fixed Charges (Rs) (A)	Variable charges(Rs) (B)	Markup as per CERC Order(Rs) (C)	Total Charges (A+B+C)
1	FSTPP I & II	971.35000	811078	2489569	485675	3786322
2	FSTPP-III	190.24800	286894	478663	95124	860680
3	KHSTPP-I	66.92800	71077	147775	33464	252317
4	KHSTPP-II	102.97200	113373	215623	51485	380481
5	TSTPP-I	12.00000	11688	22944	6000	40632
6	BARH	353.85700	661713	770701	176929	1609343
7	BRBCL	1775.11000	4251389	3839562	887555	8978506
8	MTPS-II	759.70000	2024600	1941792	379850	4346244
	Total	4232.16500	8231812	9906629	2116082	20254525

B. Payments by the RRAS Provider(s) to the DSM pool for DOWN Regulation

Sr.No	RRAS Provider Name	Energy Scheduled to VAE under RRAS(MWh)	Total Variable charges for generation reduced(Rs) (A)	Variable charges to be paid to the DSM pool (B=75% of A)
1	BRBCL	418.04450	904230	678173
2	MTPS-II	242.39562	619563	464672
3	FSTPP I & II	1338.84000	3431447	2573585
4	FSTPP-III	307.16457	772826	579620
5	KHSTPP-I	924.38760	2041048	1530786
6	KHSTPP-II	598.98603	1254277	940708
7	TSTPP-I	265.19346	507050	380287
8	BARH	994.46304	2165941	1624455
	Total	5089.47483	11696381	8772286



EASTERN REGIONAL POWER COMMITTEE  
KOLKATA-700 033

C.Reimbursement of Fixed Charges by RRAS Provider to the Original Beneficiaries

Sr.No	RRAS Provider Name	Energy Scheduled to VAE under RRAS(MWh)	Fixed Charges to be refunded (Rs)	To Beneficiary Name
1	FSTPP I & II	971.35000	660558	BSPHCL
			79237	JUVNL
			37103	SIKKIM
			2112	WB SOLAR
			27763	ASSAM
			641	DELHI
			2620	RAJASTHAN
			1044	UP
2	FSTPP-III	190.24800	205259	BSPHCL
			81282	JUVNL
			353	ASSAM
3	KHSTPP-I	66.92800	15264	BSPHCL
			18634	SIKKIM
			14574	ASSAM
			15147	DELHI
			1012	HVDC_PUSAULI
			6446	RAJASTHAN
4	KHSTPP-II	102.97200	8446	BSPHCL
			1040	JUVNL
			2627	SIKKIM
			4706	ASSAM
			14955	CHATTISGARH
			18423	DELHI
			31986	GUJARAT
			7546	HP
			44	RAJASTHAN
			23600	UTTARAKHAND
5	TSTPP-I	12.00000	11688	ASSAM
6	BARH	353.85700	24132	HVDC_APD
			65011	BSPHCL
			404922	JUVNL
			167648	SIKKIM
7	BRBCL	1775.11000	472990	BIHAR_RAILWAYS
			722546	DVC_RAILWAYS
			217610	AHARASHTRA RAILWAYS
			612675	MP RAILWAYS
			809545	RAILWAYS
			377144	HARYANA
			1038879	UP
8	MTPS-II	759.70000	777576	BSPHCL
			1953	JUVNL
			1221970	GRIDCO
			23101	WBSETCL
<b>Total</b>		<b>4232.16500</b>	<b>8231812</b>	

A) RRAS settlement account for the week 27-May-19 to 02-Jun-19 has been prepared as per the detailed procedure for Ancillary Services Operation as approved by CERC

B) Fixed Charges and Variable Charges for RRAS providers have been calculated as per the rates furnished by the respective RRAS providers in Format AS-1 and the same published in ERPC website as format AS-3.

C) Mark Up rate for Regulation Up service has been considered at 50paise/KWh as per CERC order on petition no 01/SM/2016 dated 29.02.2016

D) Quantum of Energy scheduled to/from VAE (Virtual Ancillary Entity) from/to concerned RRAS provider during Regulation Up/Regulation Down service has been considered as per the data furnished by ERLDC

E) For the purpose of refund of Fixed Charges during Regulation Up service, the total Fixed charges received by the RRAS provider from DSM Pool Account has been apportioned in the ratio of the quantum surrendered by the original beneficiaries.

This is as per Clause 13.6 of the Detailed Procedure for Ancillary Services Operation approved by CERC.

FRAS Settlement Account by ERPC

Date: 17/06/2019

FRAS Account for Week: 27-May-19 to 02-Jun-19

Payments to the FRAS Provider(s) from the DSM pool

Sr.No	FRAS Provider Name	FRAS UP Eup(MWH)	FRAS DOWN Edown(MWH)	Mileage Em(MWH)	Incentive as per CERC Order(Rs)	Total Charges (Rs)
1	TEESTA-V	0.00	0.00	0.00	0	0
2	RANGIT	0.00	0.00	0.00	0	0

A) FRAS settlement account for the week 27-May-19 to 02-Jun-19 has been prepared based on the CERC order in petition No.07/SM/2018/Suo-Motu, dated 16.07.2018.

B) The incentive has been calculated at the rate of 10 Paisa/Kwh for mileage Energy.

**Eastern Regional Power Committee, Kolkata**  
**Format SCED2: ERPC "Regional SCED Weekly Statement"**

**SCED Account for Week 270519-020619**

S.N.	SCED Generators	Increment due to SCED scheduled to VSCED [Eastern] (MWhr) (A)	Decrement due to SCED scheduled to VSCED [Eastern] (MWhr) (B)	Charges to be paid to SCED Generators from National Pool(SCED) (in Rs) (C)= (A)xV.C.	Charges to be Refunded by SCED Generators to National Pool(SCED) (in Rs) (D)= (B)xV.C.	Net Charges Payable(+)/Receivable(-) (in Rs) (E)*= (C)-(D)
1	FSTPP I & II	17956.13500	717.28750	46021574	1838408	44183166
2	FSTPP-III	4497.69500	756.65750	11316201	1903750	9412451
3	KHSTPP-I	5197.09250	1182.64000	11475180	2611269	8863911
4	KHSTPP-II	4676.77250	984.94750	9793162	2062480	7730682
5	TSTPP-I	2633.89250	472.87000	5036002	904127	4131875
6	BARH	14301.75500	2628.96500	31149222	5725886	25423336
7	BRBCL	9960.80750	247.61250	21545227	535586	21009641
8	MTPS-II	8051.29000	67.16250	20579097	171667	20407430
	<b>TOTAL</b>	<b>67275.44000</b>	<b>7058.14250</b>	<b>156915665</b>	<b>15753173</b>	<b>141162492</b>

\*(+)- means payable from the 'National Pool Account (SCED)' to SCED Generator  
 /(-) means Receivable by 'National Pool Account (SCED)' from SCED Generator

A)SCED settlement account for the week 27-May-19 to 02-Jun-19 has been prepared based on the CERC order in petition No. 02/SM/2019/Suo-Motu dated 31.01.2019 & subsequently approval of detailed procedure.

B)Variable Charges(Rs/MWhr) for SCED accounting have been taken from the AS-3 format published by ERPC.