



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



आई एस ओ : 9001-2008  
ISO : 9001-2008

Tel No. :033-24239651, 24239650 FAX No.:033-24239652, 24239653 Web: [www.erpc.gov.in](http://www.erpc.gov.in)

NO: ERPC/COM-II/ABT-DC/ 675-709

Date: 12.04.2019

To  
As per List

**Sub: Statement of Deviation Charges including Additional Deviation Charges, RRAS & FRAS Settlement Account for the period from 25.03.2019 to 31.03.2019.**

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.

*The last installment of data for the subjected week has been received from ERLDC on 09.04.2019.*

*The adjustment of DSM accounts of ER generators from 010119-240319 have been done due to exemption from sign change violation for schedule=0 & Actual<0 as per decision taken at 40<sup>th</sup> ERPC meeting.*

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,

(J. Bandyopadhyay)  
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, Gonga, 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, Dongtich, 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, Bhubaneswar- 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 25.03.19 TO 31.03.19**  
**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		30.11436	106.06698	115.88119		252.06253
JUVNL		53.99675	37.15299	115.47054		206.62028
DVC	20.47108		29.22806	37.84253		46.59951
GRIDCO		134.25995	36.30999	64.85103		235.42097
SIKKIM		0.91888	17.14895	40.39213		58.45997
WBSETCL	182.06811		34.79105	55.99101	91.28605	
HVDC SASARAM		0.35128	0.02239	0.96067		1.33434
HVDC ALIPURDUAR	0.45196		0.16726	0.46731		0.18261
<b>CERC REGULATED GENERATORS (CGS/ISGS)</b>						
FSTPP-I & II		78.28057	4.56953	3.58812		86.43822
FSTPP-III		12.00351	2.27458	2.36558		16.64367
KHSTPP-I		13.13590	3.29320	0.91265		17.34175
KHSTPP-II		16.37068	2.01664	1.87161		20.25893
TSTPP		6.00516	1.73414	1.55810		9.29739
BARH		18.40147	4.95668	7.83984		31.19799
MTPS-II		21.72089	3.71533	5.20032		30.63654
BRBCL	4.18048		4.12211	10.49712		10.43875
TEESTA	11.62992		2.06619	0.39939	9.16434	
RANGIT	2.48073		0.58477	0.18284	1.71311	
MAITHON R/B	7.77720		2.46524	0.53179	4.78017	
<b>OTHER GENERATORS</b>						
APNRL	27.18617		5.40058	24.68138		2.89579
GMRKEL		46.79621	2.63309	0.00000		49.42930
JITPL		0.61551	0.70776	0.26255		1.58582
CHUZACHEN		1.24642	1.66895	1.99364		4.90901
DIKCHU		1.93421	3.00402	6.86837		11.80660
JORETHANG HEP	5.09221		0.42872	0.08188	4.58160	
THEP	5.00791		2.69802	5.86694		3.55705
TUL		6.64993	1.32534	5.72266		13.69793
<b>INTER- REGIONAL</b>						
NER	1710.58125				1710.58125	
NR		4732.03510				4732.03510
SR	461.30215				461.30215	
WR	3258.12576				3258.12576	
<b>INTER- NATIONAL</b>						
NVVN-BD		19.39260	55.50714	81.86591		156.76565
NVVN-NEPAL		2.31465	4.22181	8.01253		14.54899
TPTCL		7.06297	0.85990			7.92287
<b>INFIRM GENERATORS</b>						
OPGC_INFIRM		87.27941				87.27941
NPGC_INFIRM	79.89369				79.89369	
DARLIPALI_INFIRM		24.56821				24.56821
BRBCL U-III INFIRM		0.00000				
<b>SOLAR GENERATORS</b>						
TALCHER SOLAR	0.01702				0.01702	
<b>*Adjustment due to exemption from sign change violation when sch=0 &amp; Actual&lt;0 for generators.</b>						
Adj of BARH 010119-240319				-28.68363	28.68363	
Adj of RANGIT 010119-240319				-12.93794	12.93794	
Adj of APNRL 010119-240319				-33.96779	33.96779	
Adj of GMRKEL 010119-240319				-1.07293	1.07293	
Adj of CHUZACHEN 010119-240319				-30.51381	30.51381	
Adj of DIKCHU 010119-240319				-4.52156	4.52156	
Adj of JORETHANG HEP 010119-240319				-0.67670	0.67670	
Adj of THEP 010119-240319				-5.31146	5.31146	
Adj of TUL 010119-240319				-0.29179	0.29179	
<b>TOTAL</b>	<b>5776.26563</b>	<b>5315.45463</b>	<b>371.14141</b>	<b>484.18201</b>	<b>5739.42275</b>	<b>6133.93517</b>

(All figures in Rs. Lakhs)

<b>Payable to the pool(A):</b>		<b>5315.45463</b>
<b>Receivable from the pool(B):</b>		<b>5776.26563</b>
<b>Differential Amount Arising from capping of Generating Stations(A-B)</b>		<b>-460.81100</b>
<b>Additional Deviation Amount:</b>		<b>855.32342</b>
<b>VAE of Eastern Region:</b>		<b>-312.41092</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: 12/04/2019

RRAS Account for Week: 25-Mar-19 to 31-Mar-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	188.63500	157509	483472	94317	735299
2	FSTPP-III	122.99500	184984	316712	61497	563194
3	KHSTPP-I	0.00000	0	0	0	0
4	KHSTPP-II	117.66500	129197	253451	58832	441479
5	TSTPP-I	5.50000	5302	9196	2750	17248
6	BARH	0.00000	0	0	0	0
7	BRBCL	395.08800	946235	768840	197544	1912620
8	MTPS-II	565.67000	1328758	1531268	282834	3142863
	Total	1395.55300	2751985	3362939	697774	6812703

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	348.66677	678506	508879
2	MTPS-II	1451.83274	3930111	2947583
3	FSTPP I & II	3699.78377	9482546	7111909
4	FSTPP-III	1649.08778	4246401	3184801
5	KHSTPP-I	1220.13811	2748971	2061728
6	KHSTPP-II	1118.39090	2409014	1806760
7	TSTPP-I	162.90750	272381	204286
8	BARH	1254.98490	2777282	2082961
	Total	10905.79247	26545212	19908909



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	188.63500	58622	BSPHCL
			26882	JUVNL
			51794	WBSETCL
			2443	WB SOLAR
			13290	ASSAM
			1062	DELHI
			1582	HARYANA
			1834	RAJASTHAN
2	FSTPP-III	122.99500	147511	BSPHCL
			16969	JUVNL
			18004	WBSETCL
			2500	WB SOLAR
3	KHSTPP-I	0.00000	0	-
4	KHSTPP-II	117.66500	15119	ASSAM
			36887	DELHI
			20619	GUJARAT
			11235	HP
			8653	RAJASTHAN
			36684	UTTARAKHAND
5	TSTPP-I	5.50000	5302	SIKKIM
6	BARH	0.00000	0	-
7	BRBCL	395.08800	25813	BIHAR_RAILWAYS
			2239	DVC_RAILWAYS
			314749	AHARASHTRA RAILWAYS
			138538	MP RAILWAYS
			273330	RAILWAYS
			191566	UP
8	MTPS-II	565.67000	745531	BSPHCL
			5128	DVC
			505755	GRIDCO
			72344	WBSETCL
	<b>Total</b>	<b>1395.55300</b>	<b>2751985</b>	

A) RRAS settlement account for the week 25-Mar-19 to 31-Mar-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-I 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: 12/04/2019

FRAS Account for Week: 25-Mar-19 to 31-Mar-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	1.25	218.50	219.75	21975	21975
2	RANGIT	0.75	8	8.75	875	875

A) FRAS settlement account for the week 25-Mar-19 to 31-Mar-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.