



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

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NO: ERPC/COM-II/ABT-DC/ 4454-88

Date: 02.08.2019

To
As per List

Sub: Statement of Deviation Charges including Additional Deviation Charges Settlement Account for the period from 01.07.2019 to 07.07.2019(Revision-I).

Ref: 1. DSM, RRAS, FRAS & SCED A/c issued vide letter no.ERPC/COM-II/ABT-DC/4146-80 dated 29.07.2019

Sir,

Revised Statement of Deviation charges(Rev-I) for the week has been prepared as per CERC(DSM & Related matters) regulation,2014 & all amendments(including 5th Amendment regulation,2019 dated 28.05.2019).

The above revision was made due to revision of schedule for subjected week by ERLDC. Affected parties are NER, NR, SR & WR.

The affected 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, 3rd 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, 4th 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, Loknaya Jaiprakash Bhawan, 2nd 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, Dongti, 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, 2nd Floor, Shatabdi Bhawan, Sector 4, NOIDA – 201 301 (Fax: 0120-2540085/0050)
31. ED, DANS Energy Pvt Ltd, 5th 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

Revision-I

KOLKATA
ABT based Deviation Charge Account
For the period 01.07.19 TO 07.07.19
AS PER 5TH AMENDMENT OF DSM, 2019 W.E.F. 03/06/2019

(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
BENEFICIARIES OF EASTERN REGION						
BSPHCL		260.94964	79.77680	0.97974		341.70617
JUVNL		20.65498	9.62068	0.13727		30.41293
DVC	171.0281		5.80449	0.00000	165.22361	
GRIDCO	72.97771		22.22079	0.04328	50.71364	
SIKKIM	19.45024		1.23298	0.00000	18.21726	
WBSETCL		309.29440	70.30599	2.29838		381.89877
HVDC SASARAM	0.25410		0.02953	0.00000	0.22457	
HVDC ALIPURDUAR		0.52654	0.07739	0.00000		0.60393
CERC REGULATED GENERATORS (CGS/ISGS)						
FSTPP-I & II		177.18891	2.20211	0.00000		179.39101
FSTPP-III	0.00000		0.00000	0.00000		
KHSTPP-I	24.50481		0.66814	0.00000	23.83667	
KHSTPP-II		25.39604	0.50067	0.00000		25.89671
TSTPP	6.78959		1.28707	0.00000	5.50252	
BARH		19.39191	0.59832	0.00000		19.99023
MTPS-II		5.70307	1.24541	0.00000		6.94848
BRBCL		4.09677	1.57067	0.00000		5.66744
TEESTA	62.12398		0.11678	0.00000	62.00720	
RANGIT	1.52082		0.03423	0.00000	1.48659	
MAITHON R/B	15.35213		0.32641	0.00000	15.02573	
OTHER GENERATORS						
APNRL		40.06754	0.00000	0.00000		40.06754
GMRKEL		161.58346	1.35067	0.00000		162.93413
JITPL		12.91284	0.17731	0.00000		13.09014
CHUZACHEN	4.40193		1.30724	0.00000	3.09470	
DIKCHU	18.59534		0.21739	0.00000	18.37794	
JORETHANG HEP		37.03885	0.72790	0.00000		37.76675
THEP		14.11392	1.12314	0.00000		15.23707
TUL	22.70525		0.28249	0.00000	22.42276	
INTER- REGIONAL						
NER		2386.57155				2386.57155
NR		671.30169				671.30169
SR		2168.89183				2168.89183
WR	4075.57482				4075.57482	
INTER- NATIONAL						
NVVN-BD		21.69447	3.77187	0.00000		25.46634
NVVN-NEPAL		26.83101	2.05856	0.00000		28.88957
TPTCL		176.99484	17.41897			194.41381
INFIRM GENERATORS						
OPGC_INFIRM		58.72166				58.72166
NPGC_INFIRM	757.10692				757.10692	
DARLIPALI_INFIRM		45.01265				45.01265
SOLAR GENERATORS						
TALCHER SOLAR	0.78093				0.78093	
TOTAL	5253.16667	6644.93855	226.05399	3.45866	5219.59586	6840.88039

(All figures in Rs. Lakhs)

Payable to the pool(A):		6644.93855
Receivable from the pool(B):		5253.16667
Differential Amount Arising from capping of Generating Stations(A-B)		1391.77189
Additional Deviation Amount:		229.51265
VAE of Eastern Region:		127.79588

**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, 4th Amendment order dated 20.11.2018 and 5th Amendment order dated 28.05.2019 have also been incorporated.

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

v) The Cap rate for all generators has been fixed at 303.04 paisa/kwh as per DSM 5th amendment'2019.

vi) 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 $f > 50.05\text{Hz}$.

vii) 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.

viii) 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).

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

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

xi) 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

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

xiii) 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.

ERPC, KOLKATA
Day-wise schedule, actual and Deviation charge statement

DATE	BENEFICIARY	SCH. TOTAL IN MWH	ACTUAL DRAWAL/GEN TOTAL IN MWH	DEVIATION CHARGE IN Rs.	ADDITIONAL DEVIATION CHARGE(Block wise Volume limit) IN Rs.	Page 1 of 1
						ADDITIONAL DEVIATION CHARGE(Sign Change Violation) IN Rs.
01-07-19	BSPHCL	-1,00,564.767	-1,02,065.004	-49,44,159.72	-7,92,108.64	-32,158.78
	JUVNL	15,164.539	-14,759.717	7,19,036.80	1,26,209.51	0.00
	DVC	45,050.779	45,496.066	24,09,188.95	-14,129.15	0.00
	GRIDCO	-20,246.188	-19,161.027	28,23,621.52	-1,23,376.22	-4,327.89
	SIKKIM	-1,382.865	-1,252.152	4,18,565.83	0.00	0.00
	WBSETCL	-52,804.664	-53,520.824	-20,26,986.19	-6,38,182.77	-28,909.02
	NER	1,585.785	-11,483.360	-3,94,44,403.82	-3,44,99,520.44	-3,80,582.52
	NR	-78,430.457	-91,273.222	-3,36,71,107.45	-2,48,30,134.73	-10,10,13,322.36
	SR	-22,343.217	-20,850.586	66,52,320.25	-1,30,33,827.90	-1,53,028.16
	WR	-4,386.298	38,182.570	12,22,10,325.31	0.00	-9,84,921.21
	FSPPP-I & II	34,623.425	33,362.690	-30,30,500.27	0.00	0.00
	KHSTPP-I	17,353.803	17,390.322	1,24,132.26	0.00	0.00
	TSTPP	21,032.529	20,953.370	-1,06,974.05	0.00	0.00
	RANGIT	1,416.000	1,421.471	13,113.36	0.00	0.00
	CHPC	2,701.000	3,527.491	21,07,552.82	0.00	0.00
	KHPC	168.828	1,548.650	29,16,944.12	0.00	0.00
	THPC	8,116.395	7,353.883	-16,16,525.58	0.00	0.00
	KHSTPP-II	22,258.166	22,086.456	-3,87,524.72	0.00	0.00
	FSPPP-III	0.000	0.000	0.00	0.00	0.00
	TEESTA	12,141.000	12,503.309	9,15,426.84	0.00	0.00
	MAITHON R/B	9,584.868	9,648.909	2,21,484.94	0.00	0.00
	BARH	29,306.114	29,097.272	-3,31,945.223	0.00	0.00
	NVVN-NEPAL	-5,256.407	-5,430.560	-4,42,484.576	0.00	0.00
	APNRL	8,234.160	7,970.182	-5,66,177.163	0.00	0.00
	GMKREL	15,538.336	14,351.782	-26,34,221.477	0.00	0.00
	JITPL	21,721.468	21,652.582	-1,75,438.06	0.00	0.00
	TPCTCL	2,943.094	581.693	-53,88,695.55	-15,75,161.91	0.00
	BRBCL	14,522.709	14,471.491	-1,17,404.787	-1,419.16	0.00
	TALCHER SOLAR	6.528	5.236	-12,079.27	0.00	0.00
	JORETHANG HEP	1,831.625	1,393.248	-8,98,693.50	-383.90	0.00
	IND Barab	0.000	0.000	0.00	0.00	0.00
	HVDC SASARAM	-23.079	-22.018	2,971.094	-72.54	0.00
	VAE	-2,356.860	0.000	70,56,165.520	0.00	0.00
	NVVN	-20,073.987	-20,129.091	-4,58,266.860	-1,21,040.63	0.00
	CHUZACHEN	2,074.861	2,141.128	1,74,548.095	-1,323.00	0.00
	TUL	31,236.777	31,309.309	2,41,925.315	0.00	0.00
	DIKCHU	2,294.242	2,402.727	2,60,151.516	-7,006.60	0.00
	THEP	1,628.212	1,273.472	-6,48,815.984	0.00	0.00
	HVDC ALIPURDUAR	-21.797	-27.090	-17,369.326	0.00	0.00
	OPGC_INFIRM	0.000	-266.909	-7,92,981.324	0.00	0.00
	MTPS-II	3,472.490	3,431.492	-88,240.741	0.00	0.00
	NPGC_INFIRM	0.000	-427.309	-13,53,113.114	0.00	0.00
	DARLIPALI_INFIRM	0.000	-223.797	-6,60,906.355	0.00	0.00
	BRBCL U-III INFIRM	0.000	0.000	0.000	0.00	0.00
02-07-19	BSPHCL	-90,948.802	-90,505.054	-5,34,170.45	-2,34,915.63	0.00
	JUVNL	15,349.872	15,535.334	-6,47,190.33	-15,739.18	-1,364.66
	DVC	46,633.588	47,052.754	25,27,746.64	-25,345.19	0.00
	GRIDCO	-21,095.325	-22,269.853	-21,58,252.35	-7,91,018.59	0.00
	SIKKIM	-1,371.727	-1,239.991	4,35,186.12	0.00	0.00
	WBSETCL	-55,059.838	-53,589.108	39,96,216.24	-1,734.34	-14,021.45
	NER	2,438.548	-8,351.162	-3,59,99,772.82	-2,97,97,052.49	-2,76,824.02
	NR	-90,152.842	-99,570.936	-2,80,14,956.78	-2,29,08,341.37	-6,72,35,896.27
	SR	-27,471.683	-33,671.819	-1,62,93,442.86	-3,07,88,743.44	-2,01,123.79
	WR	28,219.926	42,293.878	4,13,07,804.05	-46,13,359.42	-3,66,093.64
	FSPPP-I & II	35,453.634	33,737.636	-42,54,881.65	0.00	0.00
	KHSTPP-I	17,218.811	17,352.682	4,11,808.91	0.00	0.00
	TSTPP	21,192.659	21,063.797	-1,86,621.62	0.00	0.00
	RANGIT	1,446.000	1,465.440	44,504.81	0.00	0.00
	CHPC	3,239.835	3,960.955	18,38,855.34	0.00	0.00
	KHPC	1,440.000	1,501.668	1,30,736.16	0.00	0.00
	THPC	9,422.450	8,257.539	-24,69,611.01	0.00	0.00
	KHSTPP-II	22,249.468	22,104.835	-3,22,758.04	0.00	0.00
	FSPPP-III	0.000	0.000	0.00	0.00	0.00
	TEESTA	12,141.000	12,548.836	11,08,124.33	0.00	0.00
	MAITHON R/B	9,430.195	9,510.673	2,22,722.64	0.00	0.00
	BARH	29,520.104	29,146.800	-7,45,718.082	0.00	0.00
	NVVN-NEPAL	-5,256.407	-5,290.576	-27,718.803	0.00	0.00
	APNRL	8,466.085	8,166.036	-6,72,459.498	0.00	0.00
	GMKREL	15,611.417	14,296.363	-32,09,509.128	-704.12	0.00
	JITPL	24,007.832	23,874.181	-3,20,382.87	0.00	0.00
	TPCTCL	1,687.001	594.539	-26,58,131.60	0.00	0.00
	BRBCL	9,048.005	9,171.709	1,57,227.653	-32,786.52	0.00
	TALCHER SOLAR	13.778	12.588	-11,345.85	0.00	0.00
	JORETHANG HEP	1,750.234	1,685.760	-1,71,619.65	0.00	0.00
	IND Barab	0.000	0.000	0.00	0.00	0.00
	HVDC SASARAM	-23.102	-21.588	4,372.176	0.00	0.00
	VAE	-2,914.890	0.000	88,43,645.657	0.00	0.00
	NVVN	-22,290.326	-22,397.309	-3,32,588.338	0.00	0.00
	CHUZACHEN	2,094.998	2,216.194	3,25,859.672	0.00	0.00
	TUL	31,295.534	31,350.545	1,89,538.606	0.00	0.00
	DIKCHU	2,294.242	2,402.455	3,02,803.738	0.00	0.00
	THEP	1,692.883	1,721.856	1,19,770.218	0.00	0.00
	HVDC ALIPURDUAR	-21.984	-28.442	-23,275.598	0.00	0.00
	OPGC_INFIRM	0.000	-257.673	-8,37,323.989	0.00	0.00
	MTPS-II	3,688.795	3,609.180	-1,91,928.045	0.00	0.00
	NPGC_INFIRM	0.000	6,748.691	1,06,83,817.802	0.00	0.00
	DARLIPALI_INFIRM	0.000	-225.884	-7,40,502.762	0.00	0.00
	BRBCL U-III INFIRM	0.000	0.000	0.000	0.00	0.00
03-07-19	BSPHCL	-96,736.982	-97,990.085	-42,44,671.81	-4,16,489.23	0.00
	JUVNL	17,602.945	17,602.454	-5,87,262.74	-56,038.67	0.00
	DVC	40,778.789	41,526.221	42,63,532.32	-36,874.18	0.00
	GRIDCO	-27,478.701	-25,758.933	61,79,747.59	0.00	0.00
	SIKKIM	-1,396.191	-1,383.638	70,491.11	0.00	0.00
	WBSETCL	-50,882.615	-54,434.995	-1,31,88,604.14	-16,95,334.28	-53,595.17
	NER	1,939.555	-8,379.336	-3,86,53,834.25	-3,25,45,729.34	-2,31,238.48
	NR	-77,542.184	-87,773.903	-2,97,32,660.07	-1,93,30,208.93	-6,54,11,852.15
	SR	-7,748.828	-34,151.488	-20,73,95,800.97	-27,71,55,741.36	-4,78,028.90
	WR	50,066.497	49,946.926	-13,32,03,467.13	-26,39,72,476.60	-8,98,935.78
	FSPPP-I & II	32,788.797	31,241.599	-34,77,173.59	0.00	0.00
	KHSTPP-I	16,011.032	16,131.045	4,90,133.10	-54,414.52	0.00
	TSTPP	20,093.545	20,050.912	1,68,720.62	0.00	0.00
	RANGIT	1,446.000	1,463.953	39,857.28	0.00	0.00
	CHPC	4,845.835	5,259.037	10,53,664.89	0.00	0.00
	KHPC	1,440.000	1,461.485	45,547.78	0.00	0.00
	THPC	12,758.250	10,963.696	-38,04,454.59	0.00	0.00
	KHSTPP-II	21,765.988	21,585.748	-3,69,903.60	0.00	0.00
	FSPPP-III	0.000	0.000	0.00	0.00	0.00
	TEESTA	12,156.000	12,548.327	10,78,991.05	0.00	0.00
	MAITHON R/B	9,878.845	9,974.691	2,71,708.22	0.00	0.00
	BARH	27,038.207	26,868.000	-3,50,462.450	0.00	0.00
	NVVN-NEPAL	-5,256.407	-5,505.536	-8,01,992.007	-64,366.11	0.00
	APNRL	8,365.248	8,106.254	-6,24,126.920	0.00	0.00
	GMKREL	15,662.012	14,479.200	-27,98,681.348	-23,454.08	0.00
	JITPL	23,341.203	23,129.018	-5,16,725.92	-1,546.91	0.00
	TPCTCL	1,687.001	1,552.186	-27,47,479.23	-35,585.90	0.00
	BRBCL	9,199.530	9,304.363	2,54,022.058	0.00	0.00
	TALCHER SOLAR	13.758	19.803	55,104.74	0.00	0.00
	JORETHANG HEP	1,891.600	1,482.720	-9,89,761.62	0.00	0.00
	IND Barab	0.000	0.000	0.00	0.00	0.00
	HVDC SASARAM	-21.213	-21.169	-2,194.822	-455.03	0.00
	VAE	-2,018.050	0.000	56,23,099.183	0.00	0.00
	NVVN	-22,198.667	-22,310.909	-4,34,600.612	-3,459.70	0.00
	CHUZACHEN	1,014.989	843.808	-4,83,494.056	-10,589.37	0.00
	TUL	31,239.931	31,310.545	2,35,091.149	0.00	0.00
	DIKCHU	2,294.242	2,393.091	2,36,995.005	0.00	0.00
	THEP	1,672.739	1,431.872	-5,18,931.487	-14,367.31	0.00
	HVDC ALIPURDUAR	-21.659	-27.205	-23,655.454	-2,260.80	0.00
	OPGC_INFIRM	0.000	-244.800	-9,06,722.662	0.00	0.00
	MTPS-II	3,453.958	3,432.072	-43,020.117	0.00	0.00
	NPGC_INFIRM	0.000	12,811.527	1,91,64,542.381	0.00	0.00
	DARLIPALI_INFIRM	0.000	-214.200	-8,00,958.186	0.00	0.00
	BRBCL U-III INFIRM	0.000	0.000	0.000	0.00	0.00

ERPC, KOLKATA
Day-wise schedule, actual and Deviation charge statement

DATE	BENEFICIARY	SCH. TOTAL IN MWH	ACTUAL DRAWAL/GENT OTAL IN MWH	DEVIATION CHARGE IN Rs.	ADDITIONAL DEVIATION CHARGE(Block wise Volume limit) IN Rs.	Page 2 of 2
						ADDITIONAL DEVIATION CHARGE(Sign Change Violation) IN Rs.
04-07-19	BSPHCL	-99,391.498	-1,02,601.428	-1,28,84,197.42	-42,28,360.97	-43,830.62
	JUVNL	-17,621.262	-18,106.024	-16,11,918.89	-3,45,395.38	-6,494.44
	DVC	40,623.152	40,735.457	34,81,537.85	-91,683.86	0.00
	GRIDCO	-25,654.074	-25,447.841	9,61,188.27	-6,46,776.32	0.00
	SIKKIM	-1,359.336	-1,384.925	-1,94,968.10	-36,247.16	0.00
	WBSETCL	-55,582.128	-60,981.878	-1,23,00,261.35	-27,58,528.64	-97,546.25
	NER	1,762.003	11,191.475	-3,81,50,226.13	-3,24,77,951.68	-2,15,899.85
	NR	-70,960.821	-75,917.887	-2,03,84,549.14	-1,56,18,914.89	-4,89,22,917.94
	SR	-34,500.888	-33,640.185	4,78,62,500.93	-1,43,81,437.39	-3,54,837.68
	WR	24,412.561	63,603.590	9,01,70,529.01	-55,69,530.03	-3,28,289.59
	FSPPP-I & II	28,622.663	27,346.909	-23,14,314.61	-1,44,239.49	0.00
	KHSTPP-I	16,653.239	16,737.701	3,63,219.33	-6,968.35	0.00
	TSTPP	18,865.208	18,850.944	2,37,566.61	0.00	0.00
	RANGIT	1,446.000	1,462.777	33,033.95	-2,460.68	0.00
	CHPC	3,507.250	3,830.259	8,23,671.81	0.00	0.00
	KHPC	1,440.000	1,387.305	-1,11,713.40	0.00	0.00
	THPC	9,144.000	7,985.072	-24,56,926.74	0.00	0.00
	KHSTPP-II	22,039.420	21,714.443	-6,03,775.68	-39,554.20	0.00
	FSPPP-III	0.000	0.000	0.00	0.00	0.00
	TEESTA	12,156.000	12,495.345	8,79,390.13	-4,187.44	0.00
	MAITHON R/B	9,696.643	9,743.745	91,000.42	-13,747.00	0.00
	BARH	27,272.998	27,272.998	-1,63,638.453	-1,503.56	0.00
	NVVN-NEPAL	-5,256.407	-5,468.880	-5,14,703.509	-1,26,026.34	0.00
	APNRL	8,314.829	8,104.582	-4,30,997.164	0.00	0.00
	GMRKEL	14,425.949	13,460.872	-18,09,751.039	-15,823.06	0.00
	JITPL	20,699.292	20,593.382	-2,01,302.03	-1,390.61	0.00
	TPFCL	1,687.001	545.395	-22,89,772.63	-1,11,396.69	0.00
	BRBCL	9,112.284	8,911.200	-3,23,060.547	-31,943.20	0.00
	TALCHER SOLAR	9.613	13.438	35,460.20	0.00	0.00
	JORETHANG HEP	1,927.599	1,412.192	-10,68,773.35	-63,703.79	0.00
	IND Barath	0.000	0.000	0.00	0.00	0.00
	HVDC SASARAM	-23.093	-21.391	5,505.364	-83.24	0.00
	VAE	1,911.255	0.000	-63,49,601.875	0.00	0.00
	NVVN	-22,087.661	-22,258.836	-6,58,952.002	-50,063.86	0.00
	CHUZACHEN	2,113.815	2,120.122	44,400.266	-40,650.40	0.00
	TUL	31,254.087	31,138.763	8,013.113	-9,275.90	0.00
	DIKCHU	2,294.242	2,329.909	1,71,415.872	0.00	0.00
	THEP	1,707.833	1,434.656	-4,35,425.543	-2,246.62	0.00
	HVDC ALIPURDUAR	-25.166	-27.909	-5,357.645	-2,655.36	0.00
	OPGC_INFORM	0.000	-232.073	-7,05,389.008	0.00	0.00
	MTPS-II	3,337.733	3,157.104	-3,25,161.528	-1,09,800.12	0.00
	NPGC_INFORM	0.000	12,776.400	1,62,87,611.415	0.00	0.00
	DARLIPALI_INFORM	0.000	-213.922	-6,53,736.163	0.00	0.00
	BRBCL U-III INFORM	0.000	0.000	0.00	0.00	0.00
05-07-19	BSPHCL	-1,02,534.251	-1,03,265.802	-46,05,835.07	-11,87,109.12	0.00
	JUVNL	-18,681.654	-19,040.355	7,96,015.15	3,002.66	-5,867.87
	DVC	38,303.150	38,332.558	15,49,830.83	-58,304.81	0.00
	GRIDCO	-29,453.638	-30,974.070	-13,24,562.31	-5,04,797.82	0.00
	SIKKIM	-1,428.575	-1,306.228	2,52,677.91	-9,510.11	0.00
	WBSETCL	-65,490.871	-68,483.645	-78,42,845.61	-13,75,641.29	-18,920.46
	NER	-1,735.386	-13,811.062	-3,23,65,463.72	-2,79,87,700.28	-3,05,867.46
	NR	-78,759.447	-69,036.019	1,88,62,713.12	-73,32,089.18	-5,28,15,596.74
	SR	-32,649.583	-35,369.679	-71,18,757.77	-3,00,76,103.05	-6,13,148.16
	WR	25,780.701	77,467.503	14,15,29,235.33	-68,23,170.58	-16,80,186.39
	FSPPP-I & II	26,450.851	25,581.018	-14,27,114.62	-44,168.97	0.00
	KHSTPP-I	15,074.616	15,136.422	2,66,609.21	0.00	0.00
	TSTPP	19,243.370	19,267.670	1,28,594.26	-63,095.52	0.00
	RANGIT	1,440.000	1,460.092	37,318.65	-898.21	0.00
	CHPC	3,757.500	4,563.962	20,56,479.02	0.00	0.00
	KHPC	1,440.000	1,545.008	2,22,617.81	0.00	0.00
	THPC	9,840.250	9,514.650	-6,90,272.05	0.00	0.00
	KHSTPP-II	27,990.194	27,790.999	-1,46,472.83	0.00	0.00
	FSPPP-III	0.000	0.000	0.00	0.00	0.00
	TEESTA	12,156.000	12,489.309	8,45,024.58	-220.39	0.00
	MAITHON R/B	8,878.740	8,950.254	2,27,165.79	-433.90	0.00
	BARH	25,020.562	24,912.654	-1,04,348.688	-6,680.73	0.00
	NVVN-NEPAL	-5,256.407	-5,436.320	-4,30,171.727	0.00	0.00
	APNRL	8,365.248	8,116.654	-3,78,120.511	0.00	0.00
	GMRKEL	14,582.734	13,508.945	-20,27,797.044	-818.73	0.00
	JITPL	22,955.029	22,862.254	-1,46,807.12	0.00	0.00
	TPFCL	1,687.001	562.406	-21,02,402.80	-839.03	0.00
	BRBCL	9,165.210	9,307.818	1,39,778.837	-606.31	0.00
	TALCHER SOLAR	12.335	11.876	-4,287.91	0.00	0.00
	JORETHANG HEP	1,881.184	1,674.368	-4,36,260.21	-93.92	0.00
	IND Barath	0.000	0.000	0.00	0.00	0.00
	HVDC SASARAM	-22.971	-21.542	4,594.364	-82.16	0.00
	VAE	589.440	0.000	-39,05,619.483	0.00	0.00
	NVVN	-22,517.200	-22,576.000	-1,26,649.546	0.00	0.00
	CHUZACHEN	2,139.982	2,063.485	-1,94,799.951	-954.22	0.00
	TUL	31,295.534	31,286.909	1,21,873.961	0.00	0.00
	DIKCHU	2,294.242	2,366.091	1,89,407.374	0.00	0.00
	THEP	1,684.259	1,708.640	1,28,496.606	0.00	0.00
	HVDC ALIPURDUAR	-27.607	-26.837	4,197.408	-151.16	0.00
	OPGC_INFORM	0.000	-343.709	-8,76,305.568	0.00	0.00
	MTPS-II	3,302.828	3,239.184	97,727.787	0.00	0.00
	NPGC_INFORM	0.000	8,226.000	1,00,23,542.763	0.00	0.00
	DARLIPALI_INFORM	0.000	-221.711	-5,73,470.841	0.00	0.00
	BRBCL U-III INFORM	0.000	0.000	0.00	0.00	0.00
06-07-19	BSPHCL	-98,312.462	-96,946.854	27,61,996.75	-4,82,676.62	0.00
	JUVNL	-16,928.759	-16,649.300	2,17,386.48	-58,668.17	0.00
	DVC	34,393.564	33,597.939	-17,63,226.92	-1,05,838.03	0.00
	GRIDCO	-28,310.132	-29,064.206	-7,56,085.76	-1,21,463.67	0.00
	SIKKIM	-1,236.273	-1,129.251	2,97,402.86	-10,205.57	0.00
	WBSETCL	-59,291.776	-59,571.520	-1,58,880.15	-1,07,639.67	-16,845.66
	NER	-1,193.610	-11,321.468	-2,59,27,445.18	-2,16,07,656.80	-2,32,837.69
	NR	-82,142.084	-74,752.170	1,58,46,118.92	-1,00,06,142.84	-4,43,69,132.98
	SR	-43,429.863	-50,477.449	-1,21,58,347.38	-3,34,26,338.39	-4,41,187.80
	WR	34,289.585	75,767.512	9,49,97,971.99	-2,32,77,407.79	-4,28,665.18
	FSPPP-I & II	28,811.939	27,983.236	-16,77,014.84	-30,452.72	0.00
	KHSTPP-I	14,414.018	14,610.448	5,37,876.46	-641.22	0.00
	TSTPP	17,963.728	18,003.657	1,77,959.39	-60,161.88	0.00
	RANGIT	1,440.000	1,433.832	-11,017.79	0.00	0.00
	CHPC	5,350.500	6,825.832	37,62,097.30	0.00	0.00
	KHPC	1,440.000	1,868.848	9,09,158.18	0.00	0.00
	THPC	14,579.500	14,230.048	-7,40,837.43	0.00	0.00
	KHSTPP-II	28,357.373	28,030.053	-5,20,377.36	-9,916.15	0.00
	FSPPP-III	0.000	0.000	0.00	0.00	0.00
	TEESTA	12,156.000	12,448.218	7,01,989.54	-2,975.30	0.00
	MAITHON R/B	7,974.205	8,100.545	2,87,968.60	-6,150.33	0.00
	BARH	24,292.466	24,234.327	-53,610.719	-8,404.61	0.00
	NVVN-NEPAL	-5,256.407	-5,406.192	-3,22,043.252	-10,091.95	0.00
	APNRL	8,314.829	7,934.763	-8,02,253.949	0.00	0.00
	GMRKEL	15,188.231	13,904.145	-27,07,554.442	-94,267.47	0.00
	JITPL	19,291.292	19,263.927	1,083.64	-7,827.56	0.00
	TPFCL	1,687.001	880.644	-16,14,968.97	0.00	0.00
	BRBCL	8,898.131	8,708.582	-4,55,186.487	-7,388.77	0.00
	TALCHER SOLAR	13.393	13.025	-3,433.79	0.00	0.00
	JORETHANG HEP	2,231.136	2,160.160	-1,68,762.92	-912.09	0.00
	IND Barath	0.000	0.000	0.00	0.00	0.00
	HVDC SASARAM	-22.659	-21.345	3,928.838	-241.23	0.00
	VAE	683.990	0.000	26,15,843.717	0.00	0.00
	NVVN	-20,598.738	-20,684.363	-2,08,277.376	-52,849.66	0.00
	CHUZACHEN	2,064.969	2,218.478	2,53,563.101	-8,236.23	0.00
	TUL	31,285.268	31,282.327	1,22,199.744	0.00	0.00
	DIKCHU	2,246.445	2,408.909	3,86,174.369	-6,302.49	0.00
	THEP	2,328.068	2,031.868	-4,76,118.844	-1,217.47	0.00
	HVDC ALIPURDUAR	-27.689	-26.340	5,572.194	-526.22	0.00
	OPGC_INFORM	0.000	-380.654	-9,82,799.845	0.00	0.00
	MTPS-II	2,936.685	2,934.012	-8,776.623	-4,833.60	0.00
	NPGC_INFORM	0.000	8,401.527	1,14,85,783.007	0.00	0.00
	DARLIPALI_INFORM	0.000	-225.466	-5,83,401.180	0.00	0.00
	BRBCL U-III INFORM	0.000	0.000	0.00	0.00	0.00

ERPC, KOLKATA
Day-wise schedule, actual and Deviation charge statement

DATE	BENEFICIARY	SCH. TOTAL IN MWH	ACTUAL DRAWAL/ GEN TOTAL IN MWH	DEVIATION CHARGE IN Rs.	ADDITIONAL DEVIATION CHARGE (Block wise Volume limit) IN Rs.	Page 3 of 3 ADDITIONAL DEVIATION CHARGE (Sign Change Violation) IN Rs.
07-07-19	BSPHCL	-78,090.447	-80,360.449	-25,28,385.84	-6,46,019.49	-21,984.10
	JUVNL	-13,533.953	-12,877.459	8,54,468.94	-3,57,014.10	0.00
	DVC	37,400.990	37,461.742	7,82,270.62	-2,48,273.78	0.00
	GRIDCO	-30,916.573	-31,703.061	-2,11,328.09	-34,646.67	0.00
	SIKIM	-1,061.434	-894.553	3,14,862.04	-67,335.02	0.00
	WBSETCL	-43,572.325	-44,019.585	-17,57,031.67	-4,53,537.65	0.00
	NER	2,041.550	-12,312.287	-2,88,15,998.67	-2,57,45,013.51	-2,03,630.00
	NR	-84,617.732	-86,715.327	99,64,272.85	-57,92,458.24	-2,39,14,254.84
	SR	-32,327.526	-50,082.753	-2,84,37,655.44	-2,30,02,862.65	-2,55,716.89
	WR	35,582.611	74,709.558	5,05,45,083.50	-3,05,96,292.41	-5,36,648.47
	FSTPP-I & II	25,558.958	24,971.636	-13,37,912.01	-1,349.51	0.00
	KHSTPP-I	13,162.153	13,260.501	2,57,802.07	-4,790.21	0.00
	TSTPP	15,350.917	15,371.544	2,59,713.54	-5,509.69	0.00
	RANGIT	1,440.000	1,434.887	-4,728.69	-63.63	0.00
	CHPC	5,547.750	7,235.361	43,03,407.97	0.00	0.00
	KHPC	1,440.000	2,361.202	19,52,948.66	0.00	0.00
	THPC	16,634.500	15,083.807	-32,87,469.13	0.00	0.00
	KHSTPP-II	24,412.904	24,229.035	-1,88,791.76	-596.78	0.00
	FSTPP-III	0.000	0.000	0.00	0.00	0.00
	TEESTA	12,096.000	12,383.345	6,83,451.28	-4,294.88	0.00
	MAITHON R/B	7,880.988	8,004.545	2,06,162.86	-12,309.46	0.00
	BARH	21,716.837	21,665.891	-1,80,465.965	-43,243.06	0.00
	NVVN-NEPAL	-5,256.407	-5,305.296	-1,43,986.655	-5,371.51	0.00
	APNRL	7,881.230	7,543.563	-5,32,618.911	0.00	0.00
	GMRKEL	7,131.818	6,478.473	-9,70,831.087	0.00	0.00
	JITPL	12,436.415	12,457.091	68,298.57	-6,965.49	0.00
	TP TCL	2,573.098	2,103.070	-9,02,532.92	-18,913.79	0.00
	BRBCL	6,669.061	6,642.254	-65,054.149	-82,923.08	0.00
	TALCHER SOLAR	20.900	23.110	18,675.32	0.00	0.00
	JORETHANG HEP	2,267.944	2,288.448	28,986.56	-7,696.53	0.00
	IND Barath	0.000	0.000	0.00	0.00	0.00
	HVDC SASARAM	-23.137	-19.970	6,232.595	-1,270.46	0.00
	VAE	888.673	0.000	-11,03,944.741	0.00	0.00
	NVVN	-20,581.113	-20,820.000	-49,888.006	-1,49,773.17	0.00
	CHUZACHEN	2,448.034	2,675.822	3,20,116.301	-68,970.55	0.00
	TUL	30,355.216	30,770.618	13,51,882.898	-18,972.74	0.00
	DIKCHU	2,294.242	2,453.727	3,12,586.026	-8,430.34	0.00
	THEP	2,327.881	2,584.832	4,19,632.690	-94,482.99	0.00
	HVDC ALIPURDUJAR	-30.030	-25.605	7,234.067	-2,145.07	0.00
	OPGC_INFIRM	0.000	-337.673	-7,70,643.597	0.00	0.00
	MTPS-II	2,841.542	2,844.184	-10,907.298	-9,907.68	0.00
	NPGC_INFIRM	0.000	8,769.163	94,18,507.389	0.00	0.00
	DARLIPALI_INFIRM	0.000	-259.544	-4,88,289.449	0.00	0.00
	BRBCL U-III INFIRM	0.000	0.000	0.000	0.00	0.00

SUMMARY OF WEEKLY DEVIATION CHARGES							
	UTILITY	SCHEDULE(MWH)	ACTUAL(MWH)	DEVIATION CHARGE (IN RS)	DEVIATION CHARGE AFTER ADJ OF THPC,CHPC & KHPC(IN RS)	ADDITIONAL DEVIATION CHARGE (Block wise Volume Limit) (IN RS)	ADDITIONAL DEVIATION CHARGE (Sign Change Violation) (IN RS)
FOR THE WEEK 01-07-19 TO 07-07-19	BSPHCL	-6,66,578.59	-6,73,734.68	-2,69,79,423.56	-2,60,94,964.00	-79,77,679.70	-97,973.51
	JUVNL	-1,14,703.98	-1,14,570.84	-20,51,494.88	-20,65,498.00	-9,62,067.68	-13,726.97
	DVC	2,83,182.01	2,84,202.73	1,32,50,880.29	1,71,02,810.00	-5,80,449.01	0.00
	GRIDCO	-1,83,154.63	-1,84,378.99	55,14,328.88	72,97,771.00	-22,22,079.27	-4,327.89
	SIKIM	-9,236.40	-8,590.74	15,94,217.77	19,45,024.00	-1,23,297.86	0.00
	WBSETCL	-3,82,684.22	-3,94,601.56	-3,32,78,392.87	-3,09,29,440.00	-70,30,598.64	-2,29,838.02
	NER	6,838.45	-76,850.15	-23,86,57,155.00	-23,86,57,155.00	0.00	0.00
	NR	-5,62,605.57	-5,85,039.46	-6,71,30,169.00	-6,71,30,169.00	0.00	0.00
	SR	-2,00,471.59	-2,58,243.96	-21,68,89,183.00	-21,68,89,183.00	0.00	0.00
	WR	1,93,965.58	4,21,971.54	40,75,57,482.00	40,75,57,482.00	0.00	0.00
	FSTPP-I & II	2,12,310.27	2,04,224.72	-1,77,18,890.58	-1,77,18,890.58	-2,20,210.69	0.00
	KHSTPP-I	1,09,887.67	1,10,619.12	24,50,481.35	24,50,481.35	-66,814.30	0.00
	KHSTPP-II	1,69,073.51	1,67,541.57	-25,39,603.98	-25,39,603.98	-50,067.12	0.00
	TSTPP	1,33,741.96	1,33,591.89	6,78,958.75	6,78,958.75	-1,28,707.09	0.00
	FSTPP-III	0.00	0.00	0.00	0.00	0.00	0.00
	TEESTA	85,002.00	87,416.69	62,12,397.74	62,12,397.74	-11,678.00	0.00
	MAITHON R/B	63,324.48	63,936.36	15,35,213.47	15,35,213.47	-32,640.68	0.00
	RANGIT	10,074.00	10,142.45	1,52,081.57	1,52,081.57	-3,422.53	0.00
	BARH	1,84,409.29	1,83,197.45	-19,39,190.58	-19,39,190.58	-59,831.96	0.00
	NVVN-NEPAL	-36,794.85	-37,843.36	-26,83,101.00	-26,83,101.00	-2,05,855.90	0.00
	APNRL	57,941.63	55,942.04	-40,06,754.12	-40,06,754.12	0.00	0.00
	GMRKEL	98,140.50	90,479.78	-1,61,58,345.57	-1,61,58,345.57	-1,35,067.45	0.00
	JITPL	144,452.53	1,43,832.43	-12,91,283.78	-12,91,283.78	-17,730.58	0.00
	TP TCL	13,951.20	5,819.93	-1,76,99,483.71	-1,76,99,483.71	-17,41,897.32	0.00
	BRBCL	66,614.93	66,517.42	-4,09,677.42	-4,09,677.42	-1,57,067.03	0.00
	TALCHER SOLAR	90.30	99.08	78,093.00	78,093.00	0.00	0.00
	JORETHANG HEP	13,781.32	12,096.90	-37,03,884.69	-37,03,884.69	-72,790.23	0.00
	IND Barath	0.00	0.00	0.00	0.00	0.00	0.00
	HVDC SASARAM	-159.25	-149.02	25,410.00	25,410.00	-2,952.67	0.00
	VAE	-4,584.42	0.00	1,27,79,587.98	1,27,79,587.98	0.00	0.00
	NVVN-BD	-1,50,347.69	-1,51,176.51	-21,69,447.00	-21,69,447.00	-3,77,187.01	0.00
	CHUZACHEN	13,951.65	14,279.04	4,40,193.43	4,40,193.43	-1,30,723.76	0.00
	TUL	2,17,962.35	2,18,449.02	22,70,524.79	22,70,524.79	-28,248.65	0.00
	DIKCHU	16,019.90	16,756.91	18,59,533.90	18,59,533.90	-21,739.42	0.00
	THEP	13,041.88	12,187.14	-14,11,392.34	-14,11,392.34	-1,12,314.38	0.00
	HVDC ALIPURDUJAR	-175.93	-189.43	-52,654.00	-52,654.00	-7,738.62	0.00
	OPGC_INFIRM	0.00	-2,063.49	-58,72,165.99	-58,72,165.99	0.00	0.00
	MTPS-II	22,935.13	22,647.23	-5,70,306.56	-5,70,306.56	-1,24,541.40	0.00
	NPGC_INFIRM	0.00	57,306.00	7,57,10,691.74	7,57,10,691.74	0.00	0.00
	DARLIPALI_INFIRM	0.00	-1,584.52	-45,01,264.94	-45,01,264.94	0.00	0.00
	BRBCL U-III INFIRM	0.00	0.00	0.00	0.00	0.00	0.00

LEGEND: Energy:(+ve) means injection, (-ve) means drawal
Deviation Charge: (+ve) means receivable, (-ve) means payable

(+) means under drawal/ over injection
(-) means vice-versa