



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

Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टालीगंज, कोलकाता-700033
14 Golf Club Road, Tollygunj, Kolkata-700033



वसुधैव कुटुम्बकम्
ONE EARTH • ONE FAMILY • ONE FUTURE



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No. ERPC/COM-I/REA/2023-24/428

Date: 15.06.2023

To: As per distribution list.

Sub: Compensation for degradation of secondary fuel oil consumption for the year 2022-23, due to multiple start/stops of units.

विषय: वर्ष 2022-23 के लिए द्वितीयक ईंधन तेल की खपत में गिरावट के लिए मुआवजा, इकाइयों के कई बार शुरू/बंद होने के कारण।

Sir,

Please find enclosed herewith Compensation statement for degradation of Secondary fuel oil consumption for the year 2022-23 due to multiple start/stops of the units. The Compensation statement is based on the data furnished by NTPC and ERLDC for the stations. The Compensation statement of eligible generators along with distribution among the beneficiaries is enclosed at Annexure I.

The Compensation statement is prepared as per Hon'ble CERC order dated 05th May 2017 on the subject "Detailed procedure for taking unit(s) under reserve shutdown and Mechanism for Compensation for degradation of heat rate, Aux Compensation and Secondary Fuel Consumption, due to part load operation and multiple start/stop of unit(s) and Hon'ble CERC orders dated 31.01.2019 and 11.09.2019 on the subject "Pilot on Security Constrained Economic Despatch (SCED) of Inter State Generating Stations (ISGS) pan India".

All concerned entities are requested to intimate any discrepancy / error within a month from the date of issue of this account.

संविधान निर्माताओं से अनुरोध है कि इस अनंतिम कंपनसेशन के बयान के जारी होने की तारीख से दो महीने के भीतर किसी भी विसंगति / त्रुटि को सूचित करें। किसी भी विसंगति / त्रुटि के मामले में, पुनः परीक्षा, अंतिम निर्णय और पुष्टि के आधार पर अनंतिम कंपनसेशन के विवरण को संशोधित किया जाएगा। यदि गलती / विसंगति का संकेत देने वाले किसी भी घटक से कोई संचार प्राप्त नहीं होता है, तो जारी किए गए अनंतिम कंपनसेशन के बयान को अंतिम माना जाएगा।

Encl.: As above.

Yours faithfully,

(S. Kejriwal)
SE (Comm)

DISTRIBUTION LIST:

1. Chief Engineer, Transmission (O&M), Bihar State Power Holding Company Ltd., Vidyut Bhavan, Bailey Road, Patna-800021 (FAX:0612 2227557).
2. Chief Engineer (Comml.), Damodar Valley Corporation, DVC Tower, VIP Road, Kolkata-700054 (FAX: 033 23552129)
3. Chief Engineer (Comml. & Revenue), Jharkhand Urja Vitaran Nigam Limited, HEC Engineering Building, Dhurva, Ranchi-834002 (FAX : 0651 2400799 / 2490486).
4. Addl. Chief Engineer (SLDC/EHV), Deptt. of Power, Govt. of Sikkim, Kazi Road, Gangtok-737101 (FAX:03592 202927/209199)
5. CHIEF ENGINEER (PTR), West Bengal State Electricity Distribution Company Limited, Bidyut Bhavan, 8th Floor, Bidhannagar, Kolkata-700091 (FAX : 033 2334 5862)
6. General Manager (Commercial), NTPC Ltd., Loknayak Jaiprakash Bhawan, Dakbungalow Chowk, Patna- 800001(FAX: 0612 2230035 / 2224287)
7. Sr. General Manager (PP), GRIDCO, 4th Floor, Vidyut Bhavan, Saheed Nagar, Bhubaneswar-751007
8. Executive Director, ERLDC, 14 Golf Club Road, Kolkata-700033 (FAX: 033 2423 3648)
9. Member Secretary, WRPC, MIDC Area, Marol, Andheri(E), Mumbai-400093 (FAX : 022 2837 0193).
10. Member Secretary, NRPC, Katwaria Sarai, 18A SJSS Marg, New Delhi-16 (FAX 01126865206).
11. Member Secretary, SRPC, 29, Race Course Road, Bangalore-560009 (FAX : 080 2259343).
12. Member Secretary, NERPC, NERPC Complex, Dong Parmaw, Lapalang, Shillong-793006, Meghalaya
13. Head(Commercial), Maithon Powe Limited, Gogna, Jharkhand-828207

RSD OIL COMPENSATION FOR NTPC COAL STATIONS IN FY 2022-23							
STATION	No. of Units	No. of Total Start Up	No of RSD	No. of Eligible RSD for Compensation	Type of Satrt Up of RSD C-COLD, W-WARM, H-HOT	Total Oil Compensation in KL	Eligible Oil Compensation in KL
Farakka I&II	5	50	15	15	200(C-4,W-4), 500(C-4, W-3)	830	830

Gross Generation (G)	Norm SFC (A)	Actual SFC (B)	Norm Oil Consumption (A=A*G)	Actual Oil Consumption (B=B*G)	Eligible Oil Compensation (C)	A+C=D	Restricted to B' (If D>B')	Oil Consumption beyond Norm	Oil Consumption eligible for Compensation	Secondary Oil Price	RSD Oil Compensation
MU	ml/KWh	ml/KWh	KL	KL	KL	KL	KL	KL	KL	(Rs/KL)	Rs.
9651.552	0.50	0.79	4825.776	7639.00	830	5655.776	7639.00	2813.22	830	57274.09	47537495

DISTRIBUTION OF COMPENSATION AMONG BENEFICIARIES						
SL No.	Beneficiary	Weighted Average Share (X)	No. of Start Ups (Y)	(Z=X*Y)		Amount Payable (Rs)
ER:						
1	BIHAR	31.278671	12	375.344048		16445420
2	JHARKHAND	8.435131	8	67.481045		2956632
3	DVC	0.000000	0	0.000000		0
4	ODISHA	0.147555	0	0.000000		0
5	ODISHA SOLAR	0.553562	13	7.196306		315301
6	WEST BENGAL	32.027557	12	384.330687		16839163
7	WEST BENGAL SOLAR	0.919117	15	13.786755		604056
8	SIKKIM	0.013244	0	0.000000		0
SR:						
9	ANDHRA PRADESH	0.000000	0	0.000000		0
10	TELANGANA (NSM-II)	0.751558	15	11.273370		493934
11	TAMILNADU	1.290000	13	16.770000		734765
WR :						
12	GUJARAT	15.900849	9	143.107644		6270155
NR:						
13	UTTAR PRADESH	2.080000	15	31.200000		1367005
14	HARYANA	0.690000	10	6.900000		302318
15	RAJASTHAN	0.049151	0	0.000000		0
16	J & K	0.850000	5	4.250000		186211
17	DELHI	1.390000	12	16.680000		730822
18	PUNJAB	0.000000	0	0.000000		0
NER :						
19	ASSAM	2.547649	6	15.285894		669740
20	NAGALAND	0.429803	5	2.149015		94157
21	ARUNACHAL PRADESH	0.191917	4	0.767668		33635
22	MIZORAM	0.141736	7	0.992152		43470
23	NVVN POWER - A/C BPDB	0.312500	4	1.250000		54768
TOTAL		100.000000	165	1084.977829		47537495

Unit Size (MW)	Oil Consumption per start up (KI)		
	Hot	Warm	Cold
200/210/250 MW	20	30	50
500 MW	30	50	90
660 MW	40	60	110

SE (Commercial)

DETAILS OF START-UPS ATTRIBUTABLE TO BENEFICIARIES

RSD oil Compensation of Farakka-I & II for the FY 2022-23								
RSD No.	1 (Unit-1)			2 (Unit-1)			3 (Unit-1)	
Date and Time of RSD	14.08.2022 at 12:04 Hrs.			25.10.2022 at 11:01 Hrs.			11.11.2022 at 01:56 Hrs.	
Details in the RSD Time Block	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)
Bangladesh	4.078313	4.078313	100.00	4.660937	2.039156	43.75	4.660938	3.204406
Bihar	409.76099	228	55.64	468.299171	47	10.04	468.299172	0
Jharkhand	111.899655	50	44.68	127.885566	40	31.28	127.885564	87.921647
Odisha	0	0	0.00	0	0	0.00	0	0
Odisha Solar	7.224316	0	0.00	8.256377	0	0.00	8.256378	0
West Bengal	416.705658	71	17.04	476.23595	20	4.20	476.23595	200
West Bengal Solar	11.995028	0	0.00	13.70863	0	0.00	13.70863	0
Delhi	18.140334	2	11.03	20.73185	0	0.00	20.73185	15.463199
Haryana	9.004914	9.004914	100.00	10.29135	0	0.00	10.29135	0
J&K Ladakh	11.09301	11.09301	100.00	12.67775	5.546505	43.75	12.67775	8.715985
Rajasthan	0	0	0.00	0	0	0.00	0	0
Uttar Pradesh	27.145248	0	0.00	31.0232	0	0.00	31.0232	0
Tamil Nadu	16.835274	0	0.00	19.24035	0	0.00	19.24035	0
Telengana	9.808283	0	0.00	11.209488	0	0.00	11.209487	0
Arunachal Pradesh	2.504632	2.504632	100.00	2.862442	1.252316	43.75	2.862443	1.967937
Assam	33.248348	33.248348	100.00	37.998185	0	0.00	37.998184	0
Mizoram	1.84974	1.84974	100.00	2.113992	0.92487	43.75	2.113993	0
Nagaland	5.609187	5.609187	100.00	6.410512	2.804593	43.75	6.410511	3.525781
Gujarat	208.15707	108	51.88	237.89425	80	33.63	237.89425	163.552895

No. of Start-ups attributable to each beneficiary
1
2
2
0
3
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2

RSD oil Compensation of Farakka-I & II for the FY 2022-23								
RSD No.	4 (Unit-2)			5 (Unit-2)			6 (Unit-2)	
Date and Time of RSD	23.05.2022 at 12:22 Hrs.			11.10.2022 at 12:48 Hrs.			16.10.2022 at 01:22 Hrs.	
Details in the RSD Time Block	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)
Bangladesh	3.204406	3.204406	100.00	4.660938	4.660938	100.00	4.660938	4.660938
Bihar	321.956858	177.076272	55.00	468.299171	168.299171	35.94	468.299171	148.299171
Jharkhand	87.921647	0	0.00	127.885566	127.885566	100.00	127.885566	127.885566
Odisha	0	0	0.00	0	0	0.00	0	0
Odisha Solar	5.676281	0	0.00	8.256377	0	0.00	8.256377	8.256377
West Bengal	327.413413	180	54.98	476.23595	250	52.49	476.23595	270
West Bengal Solar	9.424718	0	0.00	13.70863	0	0.00	13.70863	0
Delhi	14.253199	0	0.00	20.73185	9.1046	43.92	20.73185	11.1046
Haryana	7.075329	0	0.00	10.29135	0	0.00	10.29135	0
J&K Ladakh	8.715985	8.715985	100.00	12.67775	12.67775	100.00	12.67775	12.67775
Rajasthan	0	0	0.00	0	0	0.00	0	0
Uttar Pradesh	21.328528	0	0.00	31.0232	0	0.00	31.0232	0
Tamil Nadu	13.227789	0	0.00	19.24035	0	0.00	19.24035	19.24035
Telengana	7.70655	0	0.00	11.209488	0	0.00	11.209488	0
Arunachal Pradesh	1.967937	1.967937	100.00	2.862442	2.862442	100.00	2.862442	2.862442
Assam	26.123847	26.123847	100.00	37.998184	37.998184	100.00	37.998184	37.998184
Mizoram	1.453375	1.453375	100.00	2.113992	2.113992	100.00	2.113992	2.113992
Nagaland	4.407243	4.407243	100.00	6.410512	3.525782	55.00	6.410512	6.410512
Gujarat	163.552895	0	0.00	237.89425	130	54.65	237.89425	100

No. of Start-ups attributable to each beneficiary
0
2
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3

RSD oil Compensation of Farakka-I & II for the FY 2022-23								
RSD No.	7 (Unit-2)			8 (Unit-3)			9 (Unit-4)	
Date and Time of RSD	26.11.2022 at 12:49 Hrs.			16.10.2022 at 10:02 Hrs.			19.11.2022 at 22:00 Hrs.	
Details in the RSD Time Block	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)
Bangladesh	4.078313	2.621781	64.29	4.662688	4.078313	87.47	4.078312	1.16525
Bihar	409.76099	0	0.00	468.474999	0	0.00	409.76099	0
Jharkhand	111.899655	0	0.00	127.933581	60	46.90	111.899655	71.935737
Odisha	0	0	0.00	0	0	0.00	0	0
Odisha Solar	7.224316	0	0.00	8.259477	0	0.00	7.224316	0
West Bengal	416.705658	80	19.20	476.414758	240	50.38	416.705658	119.060584
West Bengal Solar	11.995028	0	0.00	13.713777	0	0.00	11.995028	3.427203
Delhi	18.140334	18.140334	100.00	20.739634	11.109	53.56	18.140334	8.703032
Haryana	9.004914	5.788893	64.29	10.295214	0	0.00	9.004914	2.572872
J&K Ladakh	11.09301	7.131245	64.29	12.68251	11.09301	87.47	11.09301	3.16948
Rajasthan	0	0	0.00	0	0	0.00	0	0
Uttar Pradesh	27.145248	0	0.00	31.034848	0	0.00	27.145248	0
Tamil Nadu	16.835274	0	0.00	19.247574	0	0.00	16.835274	0
Telengana	9.808283	0	0.00	11.213697	0	0.00	9.808283	2.80241
Arunachal Pradesh	2.504632	1.610126	64.29	2.863517	2.504632	87.47	2.504632	0.71562
Assam	33.248348	21.374011	64.29	38.012451	33.248348	87.47	33.248349	9.499674
Mizoram	1.84974	0	0.00	2.114787	1.84974	87.47	1.84974	0.528505
Nagaland	5.609187	3.085053	55.00	6.412918	5.609187	87.47	5.609187	1.602649
Gujarat	208.15707	208.15707	100.00	237.98357	237.98357	100.00	208.15707	30

No. of Start-ups attributable to each beneficiary
1
3
2
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3
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RSD oil Compensation of Farakka-I & II for the FY 2022-23									
RSD No.	10 (Unit-4)			11 (Unit-4)			12 (Unit-5)		
Date and Time of RSD	30.11.2022 at 00:45 Hrs.			10.12.2022 at 00:10 Hrs.			20.08.2022 at 15:32 Hrs.		
Details in the RSD Time Block	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)	in %
Bangladesh	2.621782	0	0.00	4.078344	3.495719	85.71	4.078313	2.621781	64.29
Bihar	263.418677	0	0.00	409.764129	0	0.00	409.76099	230.76099	56.32
Jharkhand	71.935737	71.935737	100.00	111.900513	111.900513	100.00	111.899655	0	0.00
Odisha	0	0	0.00	0	0	0.00	0	0	0.00
Odisha Solar	4.644219	0	0.00	7.224371	0	0.00	7.224316	4.644219	64.29
West Bengal	267.883121	70	26.13	416.708851	198	47.52	416.705658	267.883121	64.29
West Bengal Solar	7.711115	0	0.00	11.99512	0	0.00	11.995028	0	0.00
Delhi	11.661683	5.1211	43.91	18.140473	2	11.03	18.140334	2	11.03
Haryana	5.788893	0	0.00	9.004983	7.718547	85.71	9.004914	5.788893	64.29
J&K Ladakh	7.131245	3.16948	44.44	11.093095	9.508355	85.71	11.09301	0	0.00
Rajasthan	0	0	0.00	0	0	0.00	0	0	0.00
Uttar Pradesh	17.450576	0	0.00	27.145456	0	0.00	27.145248	0	0.00
Tamil Nadu	10.822713	0	0.00	16.835403	0	0.00	16.835274	0	0.00
Telangana	6.305347	0	0.00	9.808358	0	0.00	9.808283	0	0.00
Arunachal Pradesh	1.610126	0.71562	44.44	2.504651	2.146841	85.71	2.504632	1.610126	64.29
Assam	21.374011	0	0.00	33.248603	28.498766	85.71	33.248348	21.374011	64.29
Mizoram	1.189123	0.528505	44.44	1.849754	1.585501	85.71	1.84974	0	0.00
Nagaland	3.605917	1.602649	44.44	5.609231	2.644348	47.14	5.609187	3.605919	64.29
Gujarat	133.815715	133.815715	100.00	208.158665	98	47.08	208.15707	0	0.00

No. of Start-ups attributable to each beneficiary
1
2
1
0
0
2
2
3
3
1
1
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2
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2

RSD oil Compensation of Farakka-I & II for the FY 2022-23									
RSD No.	13 (Unit-5)			14 (Unit-5)			15 (Unit-5)		
Date and Time of RSD	14.09.2022 at 15:34 Hrs.			24.10.2022 at 12:02 Hrs.			01.12.2022 at 19:00 Hrs.		
Details in the RSD Time Block	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)	in %	Entitlement	Schedule (Ex-PP)	in %
Bangladesh	4.660938	4.660938	100.00	4.664469	3.495719	74.94	4.078312	0.582625	14.29
Bihar	468.299171	0	0.00	468.653967	148	31.58	409.76099	58.538181	14.29
Jharkhand	127.885566	80	62.56	127.982455	50	39.07	111.899655	16.303893	14.57
Odisha	0	0	0.00	0	0	0.00	0	0	0.00
Odisha Solar	8.256377	0	0.00	8.262632	0	0.00	7.224317	1.032061	14.29
West Bengal	476.23595	290	60.89	476.596759	26.37	5.53	416.705658	60.714436	14.57
West Bengal Solar	13.70863	0	0.00	13.719016	0	0.00	11.995029	1.747688	14.57
Delhi	20.73185	15.4646	74.59	20.747557	0	0.00	18.140334	2.643064	14.57
Haryana	10.29135	10.29135	100.00	10.299147	0	0.00	9.004914	1.286436	14.29
J&K Ladakh	12.67775	12.67775	100.00	12.687355	9.508355	74.94	11.09301	1.58474	14.29
Rajasthan	0	0	0.00	0	0	0.00	0	0	0.00
Uttar Pradesh	31.0232	0	0.00	31.046704	0	0.00	27.145248	0	0.00
Tamil Nadu	19.24035	19.24035	100.00	19.254927	0	0.00	16.835274	2.405076	14.29
Telangana	11.209488	0	0.00	11.217981	0	0.00	9.808282	1.401204	14.29
Arunachal Pradesh	2.862442	2.862442	100.00	2.86461	2.146841	74.94	2.504632	0.35781	14.29
Assam	37.998184	37.998184	100.00	38.026973	0	0.00	33.248348	4.749837	14.29
Mizoram	2.113992	2.113992	100.00	2.115594	1.585501	74.94	1.84974	0.264253	14.29
Nagaland	6.410512	6.410512	100.00	6.415369	3.528453	55.00	4.807862	0	0.00
Gujarat	133.815715	133.815715	100.00	238.074485	238.074485	100.00	208.15707	30.328696	14.57

No. of Start-ups attributable to each beneficiary
1
3
2
0
3
2
3
2
2
1
0
3
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3
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1

Plant	Unit	Reason	Sub Reason	From Date	From Time	To Date	To Time	Outage Duration	Loss in MU		START UP TYPE
Farakka STPS	UNIT01	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	14-08-2022	12:04:00	16-08-2022	09:49:00	45:45:00	9.150000	RSD	WARM
Farakka STPS	UNIT01	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	25-10-2022	11:01:00	02-11-2022	08:11:00	189:10:00	37.833334	RSD	COLD
Farakka STPS	UNIT01	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	11-11-2022	01:56:00	13-11-2022	00:00:00	70:04:00	14.013333	RSD	WARM
Farakka STPS	UNIT02	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	23-05-2022	12:22:00	25-05-2022	03:16:00	38:54:00	7.780000	RSD	WARM
Farakka STPS	UNIT02	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	11-10-2022	12:48:00	12-10-2022	12:44:00	23:56:00	4.786667	RSD	WARM
Farakka STPS	UNIT02	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	16-10-2022	01:22:00	29-10-2022	17:07:00	327:45:00	65.550000	RSD	COLD
Farakka STPS	UNIT02	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	26-11-2022	12:49:00	26-12-2022	05:30:00	712:41:00	142.536667	RSD	COLD
Farakka STPS	UNIT03	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	16-10-2022	10:02:00	31-10-2022	18:24:00	368:22:00	73.673333	RSD	COLD
Farakka STPS	UNIT04	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	19-11-2022	22:00:00	20-11-2022	23:03:00	25:03:00	12.525000	RSD	WARM
Farakka STPS	UNIT04	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	30-11-2022	00:45:00	04-12-2022	23:50:00	119:05:00	59.541667	RSD	COLD
Farakka STPS	UNIT04	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	10-12-2022	00:10:00	19-12-2022	04:42:00	220:32:00	110.266667	RSD	COLD
Farakka STPS	UNIT05	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	20-08-2022	15:32:00	22-08-2022	19:09:00	51:37:00	25.808333	RSD	WARM
Farakka STPS	UNIT05	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	14-09-2022	15:34:00	19-09-2022	10:27:00	114:53:00	57.441667	RSD	COLD
Farakka STPS	UNIT05	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	24-10-2022	12:02:00	29-11-2022	18:58:00	870:56:00	435.466666	RSD	COLD
Farakka STPS	UNIT05	09-NO DEMAND / REGULATION	01-RLDC/SLDC MESSAGE	01-12-2022	19:00:00	04-12-2022	15:04:00	68:04:00	34.033333	RSD	WARM