

I/31901/2023



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
उत्तर क्षेत्रीय विद्युत समिति
Northern Regional Power Committee

दिनांक: 28.11.2023

सेवा में / To,

वाणिज्यिक उपसमिति के सभी सदस्य
Members of Commercial Sub-Committee

विषय: वाणिज्यिक उप-समिति की 48 वीं बैठक संबंधी सूचना।
Subject: 48th meeting of Commercial Sub-committee- reg.

उत्तर क्षेत्रीय विद्युत समिति की वाणिज्यिक उप-समिति की 48 वीं बैठक **04 दिसंबर 2023**, को सुबह **11:00** बजे एनआरपीसी कॉन्फ्रेस हॉल, कटवारिया सराय, **नई दिल्ली** में आयोजित की जाएगी। उपरोक्त बैठक से सम्बंधित पहले से ही अवगत करा दिया गया है और एनआरपीसी वेबसाइट पर भी उपलब्ध है। आगे का अतिरिक्त एजेंडा इसके साथ संलग्न है।

उक्त बैठक में भाग लेने की कृपा करें।

The 48th meeting of Commercial Sub-Committee of NRPC is to be held on **04 December 2023, at 11:00 AM at NRPC Conference Hall, Katwaria sarai, New Delhi**. The agenda for the meeting is already being issued and available on NRPC website. Further additional agenda is enclosed herewith.

Kindly make it convenient to attend the meeting.

भवदीय

-sd

(अंजुमपरवेज)
अधीक्षण अभियंता (वाणिज्य)

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**ADDITIONAL AGENDA
FOR
48th MEETING OF COMMERCIAL SUB-COMMITTEE OF NRPC**

1) Compensation Mechanism for Secondary Fuel Oil Consumption for additional Start-Ups in excess of 7 Start-Ups and its sharing by Beneficiaries (Agenda by NRPC).

- 1.1** As per sub-regulation 6.3 B Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Fourth Amendment) Regulations, 2010 (Grid Code) if CGS or ISGS whose tariff is determined or adopted by Commission, is directed by the concerned RLDC to operate below normative plant availability factor but at or above technical minimum, the CGS or ISGS may be compensated depending on the average unit loading duly taking into account the forced outages, planned outages, PLF, generation at generator terminal, energy sent out ex-bus, number of start-stop, secondary fuel oil consumption and auxiliary energy consumption, in due consideration of actual and normative operating parameters of station heat rate, auxiliary energy consumption and secondary fuel oil consumption etc. on monthly basis duly supported by relevant data verified by RLDC or SLDC, as the case may be.

Provided that

(iii) Where the scheduled generation falls below the technical minimum schedule, the concerned CGS or ISGS shall have the option to go for reserve shut down and, in such cases, start-up fuel cost over and above seven (7) start / stop in a year shall be considered as additional compensation based on following norms or actual,

Unit Size (MW)	Oil Compensation per start-up (KI)		
	Hot	Warm	Cold
200/ 210/ 250 MW	20	30	50
500 MW	30	50	90
660/ 800 MW	40	60	110

As per sub-regulation 7

7. The RPCs shall work out a mechanism for compensation for station heat rate and auxiliary energy consumption for low unit loading on monthly basis in terms of energy charges and compensation for secondary fuel oil consumption over and above the norm of 0.5 ml/kWh for additional start-ups in excess of 7 start-ups, in consultation with generators and beneficiaries at RPC forum and its sharing by the beneficiaries.

- 1.2** Further, CERC issued an order dated 05th May 2017 on “Detailed procedure for taking unit(s) under Reserve Shut Down and Mechanism for Compensation for degradation of Heat Rate, Aux Compensation and Secondary Fuel Compensation due to Part Load Operation and Multiple Start/ Stop of Units”.

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- 1.3 Accordingly, the Compensation statement for degradation of Heat Rate and aux Compensation due to Part Load Operation are already being issued by NRPC on monthly basis.
- 1.4 In compliance with the above regulation and orders Compensation mechanism for degradation of Secondary Fuel to Generators due to Multiple Start/ Stop of Units and its sharing by the beneficiaries is attached at **Annexure-I**.
- 1.5 Secondary Fuel Compensation for Generators due to Multiple Start/ Stop of Units have not yet been issued. The same is being analyzed and compensation statement will be issued within 15 days.

Members may deliberate.

2) **Declaration of High inflow period as per IEGC, 2023 for the period 2023-24 (Agenda by NHPC)**

- 2.1 During 212th OCC Meeting, the high inflow period of Hydro Power Stations of Northern Region was decided under Agenda Point no. 14, wherein, the high inflow season of Uri-1 and Uri-2 Power Stations were also fixed and the same are given below:

Sl. No.	Power Station	High inflow period for FY 2023-24
1.	URI-1	15 TH March to 15 th July
2.	URI-2	15 th March to 15 th July

- 2.2 In this regard, NHPC submission is that the inflow data of URI-1 and Uri-2 Power Stations were submitted to NRPC for finalization of their high inflow period before 212th OCC Meeting and it was requested during the meeting to consider at least 5 months as High inflow period for Uri-1 & Uri-2 Power Station considering their actual inflow being higher than rated discharge continuously for approximately six months. The average inflow data of these power stations is again tabulated below where it shows that actual inflow at Uri-1 and Uri-2 Power Stations is higher than its rated discharge from the month of March to August/September.

AVERAGE INFLOW: URI-2 POWER STATION (Inflow in Cumecs)						
Month	Rated Discharge	2018-19	2019-20	2020-21	2021-22	2022-23
MARCH	225	266.3	345.1	347.7	239.3	418.1
APRIL	225	185.4	644.2	526.1	682.6	401.3
MAY	225	318.3	648.7	752.6	717.5	395.1
JUNE	225	331.3	603.3	534.1	642.9	413.7
JULY	225	573.2	578.1	469.7	410.0	393.1
AUGUST	225	299.8	586.4	209.1	610.5	194.0

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AVERAGE INFLOW: URI-1 POWER STATION (Inflow Cumecs)						
Month	Rated Discharge	2018-19	2019-20	2020-21	2021-22	2022-23
MARCH	237.0	284.0	311.6	406.5	224.5	235.6
APRIL	237.0	296.0	582.7	447.9	559.5	317.8
MAY	237.0	312.0	503.0	554.6	523.1	325.7
JUNE	237.0	248.1	562.9	449.2	466.3	331.2
JULY	237.0	390.3	458.6	295.9	356.1	352.9
AUGUST	237.0	245.8	405.0	188.7	499.9	342.3

2.3 Hon'ble CERC provides the following regulation in IEGC 2023 for finalization of high inflow period for hydro generators:

(8) Declaration of Declared Capacity by Regional entity generating stations (a) The regional entity generating station other than the WS seller shall declare exbus Declared Capacity limited to 100% MCR less auxiliary power consumption, on day ahead basis as per the provisions of Regulation 49 of these regulations:

Provided that the hydro generating stations may declare ex-bus Declared Capacity more than 100% MCR less auxiliary power consumption limited to overload capability in terms of sub-clause (a) of clause (10) of this Regulation during high inflow periods:

Provide further that a high inflow period for this purpose shall be notified by the respective RPC.

2.4 From the above regulation, it is clear that the no. of months of high inflow period are not restricted, however, NRPC is mandated to notify the high inflow period.

2.5 In view of above, NHPC requests that the high inflow period of URI-1 and URI-2 Power Stations may kindly be fixed from March to August/September for the FY 2023-24.

Members may deliberate.

3) Revision of DSM (Deviation Settlement Mechanism) based on revision of Energy Charge Rate (ECR) after finalization of truing up of AFC of power Stations. (Agenda by NHPC)

3.1 This is in reference of Regulation no. 27 (Relaxation of Regulation 8 of the DSM Regulations, 2022) of CERC's suo-moto order dated 06.02.23 pertaining to CERC (DSM) regulations 2022 which is effective from 08th February 2023, which is depicted as under:

"The charges for deviation in a time block by a seller by way of Over injection/Under injection has been linked with Reference Charge Rate as per frequency band".

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The 'Reference Charge Rate' means, in respect of a general seller whose tariff is determined under Section 62 or Section 63 of the Act, Rs/ kWh energy charge as determined by the Appropriate Commission

3.2 In this regard following is submitted by NHPC:

AFC (Annual Fixed Cost) of Central Generating Stations are being decided by Hon'ble CERC and based on the formula detailed under tariff regulation, the Energy Charge rate (ECR) of Hydro Generating Power Stations are being derived. Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, vide letter dated 07 March 2019, notified the tariff order for 2019-24 and based on these tariff regulations, the ECR of power stations have been derived for REA and DSM purpose.

3.3 Further, the truing up of 2019-24 is also being done by Hon'ble CERC on the basis of actual data being submitted by NHPC against each power stations. The truing up for following power stations have been done and the revised ECR rates are as under:

Power Station	Date of CERC truing Up order	ECR (Paise Per Kwh) As per truing up order FOR FY 2019-24	
		FY 2022-23	FY 2023-24
SALAL	13 th Feb. 2023	74.8	77.7
TANAKPUR	05 th April 2023	237.8	247.6
CHAMERA-I	30 th Nov. 2022	111.2	113.9
DHAULIGANGA	18 th Aug. 2022	125.5	128.0
DULHASTI	09 th May 2022	228.5	232.8
BAIRASIUL	19 th Oct. 2023	128.6	132.6
URI-1	28 th July 2023	93.6	95.6
SEWA-2	18 th Aug. 2023	271.5	220.6
CHAMERA-3	09 th June 2023	210.6	208.8

3.4 NHPC provides the ECR/ reference charge rate through Ancillary Services format AS-1 every month for calculation of DSM for the duration from 16th of current month to 15th of next month on provisional basis and on the basis of these data NRPC prepares the DSM accounts.

3.5 It is pertinent to mention here that, after the Truing up order of above power stations the ECR/ reference charge rate of power stations have been revised for the period from 01st April 2019 to 31st March 2024.

3.6 Since, variation in ECR will cause change in financial implication of DSM amount due to linking up the deviation charges with ECR, therefore, it is necessary to revise Deviation Settlement Account of above Power station i.e. Salal, Tanakpur, Chamera-I, Dhauliganga and Dulhasti, Bairasiul, Uri-1, Sewa-2, Chamera-3 as per the aforementioned period.

3.7 In view of above, NHPC requests to kindly issue the revision of DSA against above Power Stations for the period as detailed above.

Members may deliberate.

4) Regarding non- disbursement of SCED (Security Constrained Economic Dispatch) Benefits from July 2022 to October 2023 by Delhi SLDC to BYPL (Agenda by BYPL)

- 4.1** Hon'ble CERC suo moto order Dt. 23.03.2020 directed to NRLDC regarding sharing of benefit accrued from SCED amongst generators/beneficiaries/Discoms w.e.f 1st April,2019 onwards. Based on said CERC order, Delhi SLDC was uploading on their website SCED disbursement advises & releasing funds through RTGS regularly.
- 4.2** Accordingly, BYPL has received total amount of Rs. 15.52 Crore for the period 1st April 2019 to 30th June 2022 from Delhi SLDC via Bank/Fund Transfer.
- 4.3** DELHI SLDC has uploaded SECD disbursement advises from 1st July 2022 to 30th June 2023 amounting to Rs. 4,28,52,846 but same amount is not yet released by Delhi SLDC to BYPL (Details enclosed at **Annexure-II**).
- 4.4** BYPL had been continuously pursuing with Delhi SLDC for release of the SCED benefit and Delhi SLDC had already released SCED benefits to other Delhi distribution companies.
- 4.5** Further, Delhi SLDC has not uploaded SCED disbursement advises from 1st July 2023 to 31st October 2023.
- 4.6** BYPL requests Delhi SLDC to release above said payment of Rs. 4,28,52,846/- from 1ST July 2022 to 30TH June 2023 at the earliest.
- 4.7** Further, request to Delhi SLDC to upload SECD disbursement advises from 1ST July 2023 to 31ST October 2023 and released fund accordingly.

Members may deliberate.

5) Non opening of LC (Agenda by Powergrid NR-II)

- 5.1** Despite repeated requests/ reminders to JKPCL, J&K for establishment of LC for an amount of Rs. 92.01 Cr, no action has been confirmed by J&K.
- 5.2** Further, Outstanding payments from JKPCL > 45 days is Rs. 79.88 Cr.

Members may deliberate.

Compensation Calculation for Secondary Fuel Oil Consumption

- CERC order dated 05th May 2017 on “Detailed procedure for taking unit(s) under Reserve Shut Down and Mechanism for Compensation for degradation of Heat Rate, Aux Compensation and Secondary Fuel Compensation due to Part Load Operation and Multiple Start/ Stop of Units”, stipulates the guidelines for Calculation of Compensation for degradation of Secondary Fuel Oil consumption for the year.
- Normative Secondary Fuel Compensation = 0.5 * Total Schedule Energy in Kwhr
- If actual Secondary Fuel Compensation is less than normative Fuel Oil Compensation, then no compensation for secondary fuel usage for Reserve Shutdown would be paid.
- If the total number of shutdowns in a plant (Stage) is less than 7 shut down then no secondary fuel compensation for Stage under Reserve Shut down would be paid.
- If the total shutdown is more than 7 and normative secondary fuel compensation is less than the actual secondary fuel compensation then secondary fuel compensation for each reserve shutdown over and above 7 shutdowns would be given as per the table:

<i>Unit Size (MW)</i>	<i>Oil Compensation per start-up (KL)</i>		
	<i>Hot</i>	<i>Warm</i>	<i>Cold</i>
<i>200/ 210/ 250 MW</i>	<i>20</i>	<i>30</i>	<i>50</i>
<i>500 MW</i>	<i>30</i>	<i>50</i>	<i>90</i>
<i>660/ 800 MW</i>	<i>40</i>	<i>60</i>	<i>110</i>

- The compensation would be restricted to actual secondary fuel compensation if the calculated secondary fuel compensation is more than actual secondary fuel.
- Compensation for degradation of Secondary Fuel Oil Consumption (in terms of KL of Secondary Oil) shall be calculated by multiplying the number of start-ups exceeding 7 per unit, which are solely attributable to reserve shutdowns, with the appropriate value of additional secondary oil consumption specified in Regulation and shall be restricted such that Oil Consumption based on Norms plus Compensation calculated as above does not exceed actual Secondary Fuel oil consumption for the year.

- For example, if the station consists of 2 Units of 500 MW and there are total 26 outages (Forced/ Planned/ RSD) for a year, out of which 15 are attributable to RSD, then Compensation shall be calculated for number of stat-ups exceeding $7 \times 2 = 14$, which are solely attributable to reserve shut-downs, i.e., $26 - 14 = 12$ outages would be considered for compensation of degradation of SFC.
- Among the above reserve shutdowns, if there are 6 Cold, 5 Warm and 4 Hot start-up RSD category, then oil compensation will be computed as $(\text{COLD} \times 6 + \text{WARM} \times 5 + \text{HOT} \times 4) \times 12 / \text{Total start-ups attributable RSD (15)}$; i.e., $(90 \times 6 + 50 \times 5 + 30 \times 4) \times 12 / 15 = 728$. Compensation calculated be 728 KL.
- Compensation payable to CGS/ISGS shall be restricted such that Oil Consumption based on Norms plus Compensation calculated above does not exceed actual Secondary Fuel oil consumption for the year.
- The annual Secondary Fuel price shall be taken as weighted average of SF price as per no. of RSDs in a particular month.

- Illustration:

Actual Gross Generation for the year, G: 5000 MU

Compensation Calculated be = 728 KL

	Norm SFC (A)	Actual SFC (B)	Norm Oil (A' = A*G)	Actual Oil (B' = B*G)	Eligible Oil Compensation (C = B' - A')	Compensation Calculated (D)	Minimum of (E = C/D)	Weighted Average of SF Prices (P)	Final Compensation Amount (E * P)
	ml/ KWh	ml/KWh	KL	KL	KL	KL	KL	₹	₹ Lakhs
Scenario-1	0.5	0.6	2500	3000	500	728	500	50,000	250.0
Scenario-2	0.5	0.7	2500	3500	1000	728	728	55,000	400.4

- Compensation in terms of Rupees shall be calculated by multiplying compensation in terms of KL as calculated and the average landed price of Secondary fuel oil for the year.
- Each start-up due to reserve shutdown shall be attributed to the beneficiaries, who had requisitioned below 55% of their entitlement. NRLDC is requested to furnish the relevant requisition data of the beneficiaries pertaining to Generating Station(s) for

the period, blocks, based on which decision to take generator(s) under RSD is taken.

- Compensation (in terms of Rupees) shall be shared amongst the beneficiaries in the following manner:

Compensation payable by beneficiary i

$$= \left(N_i * \frac{A_i}{\sum(N_i * A_i)} \right) * \text{Compensation payable to CGS/ISGS}$$

Where A_i = Number of start-ups attributable to the beneficiary i .

N_i = Weightage Average Percentage share of beneficiary in generating station.

- Illustrative example:

Compensation Calculated for the ISGS Station $Y = ₹.(728 * LPSFi)$.

If there are 4 beneficiaries for the ISGS Station, the payment details would be as shown below:

Beneficiary	A1	A2	A3	A4	Total
Weighted Average percentage share allocation	15 %	20 %	40 %	25 %	100 %
Number of start-ups attributable to RSDs (of beneficiary requisitioned below 55% of their entitlement during RSD)	8	12	6	2	
Payable Amount	$\frac{(8 * 0.15)}{D} * Y$	$\frac{(12 * 0.2)}{D} * Y$	$\frac{(6 * 0.4)}{D} * Y$	$\frac{(2 * 0.25)}{D} * Y$	Y

$$\text{Denominator, } D = (8 * 0.15 + 12 * 0.2 + 6 * 0.4 + 2 * 0.25)$$

BSES

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Dt: 2.11.2023

Ref: PMG/BYPL/2023-24/ 2519

To
Sh V K Singh
Member Secretary
Northern Regional Power Committee
18-A, Shaheed Jeet Singh Marg,
Katwaria Sarai, New delhi-110016

Sub:- Agenda for 48th CSC meeting scheduled to be held on 04.12.2023

Dear Sir,

With reference to the above cited subject, please find BYPL agenda point for 48th meeting of CSC enclosed as Annex-I.

This issue is very much important for Discoms.

Thanking you,

Yours Sincerely,
For BSES Yamuna Power Ltd.


Haridas Maity
AVP-BYPL

Copy to :-

General Manager (SLDC)
SLDC Building,
33 KV Grid Sub-Station Bldg
Minto Road, New Delhi-110002

Annexure-I

BYPL Agenda Item

Regarding non- disbursement of SCED (Security Constrained Economic Dispatch) Benefits from July 2022 to October 2023 by Delhi SLDC to BYPL

- 1 Hon'ble CERC suo moto order Dt. 23.03.2020 directed to NRLD regarding sharing of benefit accrued from SCED amongst generators/beneficiaries/Discoms w.e.f 1ST April,2019 onwards.
- 2 Based on said CERC order, Delhi SLDC was uploading on their website SECD disbursement advises & releasing funds thru RTGS regularly.
- 3 Accordingly, BYPL has received total amount of Rs. 15.52 Crore for the period 1ST April 2019 to 30TH June 2022 from Delhi SLDC via Bank/Fund Transfer.
- 4 DELHI SLDC has uploaded SECD disbursement advises from 1ST July 2022 to 30TH June 2023 amounting to Rs. **4,28,52,846** but same amount not yet released by Delhi SLDC to BYPL.
- 5 BYPL had been continuously pursuing with Delhi SLDC for release of the SCED benefit. Delhi SLDC had already released SCED benefits to other Delhi distribution companies.
- 6 Further, Delhi SLDC has not uploaded SECD disbursement advises from 1ST July 2023 to 31ST October 2023.
- 7 We request Delhi SLDC to release above said payment of Rs. 4,28,52,846/- from 1ST July 2022 to 30TH June 2023 as disbursement advises already issued long time back urgently at the earliest.
- 8 We also request Delhi SLDC to upload SECD disbursement advises from 1ST July 2023 to 31ST October 2023 and released fund accordingly.

Detail of SCED Benefits Disbursement Advise issued for the period July 2022 to June 2023 as below: -

Issue Date	Period	Particulars	Amount (Rs.)
18/04/2023	Jul-22	F.DTL/207/2023-24/Sr.Manager(EA)/48	44,03,830
18/04/2023	Aug-22	F.DTL/207/2023-24/Sr.Manager(EA)/49	40,88,947
18/04/2023	Sep-22	F.DTL/207/2023-24/Sr.Manager(EA)/50/55	44,69,051
18/04/2023	Oct-22	F.DTL/207/2023-24/Sr.Manager(EA)/51	44,40,883
18/04/2023	Nov-22	F.DTL/207/2023-24/Sr.Manager(EA)/52	17,91,030
26/04/2023	Dec-22	F.DTL/207/2023-24/Sr.Manager(EA)/63	42,48,493
26/04/2023	Jan-23	F.DTL/207/2023-24/Sr.Manager(EA)/62	35,72,182

28/04/2023	Apr21 to Mar22 (Revision)	F.DTL/207/2023-24/Sr.Manager(EA)/69	6,32,622
28/04/2023	Apr20 to Mar21 (Revision)	F.DTL/207/2023-24/Sr.Manager(EA)/68	20,83,438
28/04/2023	Apr19 to Mar20 (Revision)	F.DTL/207/2023-24/Sr.Manager(EA)/67	3,07,127
09/10/2023	Apr-23	F.DTL/207/2023-24/Sr.Manager(EA)/466	16,55,065
09/10/2023	May-23	F.DTL/207/2023-24/Sr.Manager(EA)/467	24,22,576
09/10/2023	Jun-23	F.DTL/207/2023-24/Sr.Manager(EA)/468	87,37,602
		Total	4,28,52,846

In view of the above, it is requested that the house may discuss the above issue and direct for early disbursement without any further delay and Delhi SLDC to take lead for timely published the pending accounts.

