

I/34183/2024



सत्यमेव जयते

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

सेवा में / To,

वाणिज्यिक उपसमिति के सभी सदस्य
Members of Commercial Sub-Committee

विषय: वाणिज्यिक उप-समिति की 49 वीं बैठक संबंधी सूचना।

Subject: 49th meeting of Commercial Sub-committee- meeting notice.

उत्तर क्षेत्रीय विद्युत समिति की वाणिज्यिक उप-समिति की 49 वीं बैठक **11 मार्च 2024, को सुबह 10:30 बजे एनआरपीसी कॉन्फ्रेंस हॉल, कटवारिया सराय, नई दिल्ली** में आयोजित की जाएगी। उपरोक्त बैठक से सम्बंधित कार्यसूची **Annexure** पर संलग्न हैं।

उक्त बैठक में भाग लेने की कृपा करें।

The 49th meeting of Commercial Sub-Committee of NRPC is rescheduled and is to be held on **11 March 2024, at 10:30 AM at NRPC Conference Hall, Katwaria Sarai, New Delhi**. The agenda for the meeting is enclosed at **Annexure**.

Kindly make it convenient to attend the meeting.

Enc.: As above.

भवदीय

Signed by Anzum Parwej

Date: 02-03-2024 10:18:19

Reason: Approved

(अंजुम परवेज)
अधीक्षण अभियंता (वाणिज्य)

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**AGENDA
FOR
49th MEETING OF COMMERCIAL SUB-COMMITTEE OF NRPC**

ITEM-1 Confirmation of Minutes of 48th Meeting of Commercial Sub Committee of NRPC

- 1.1 The minutes of 48th meeting of Commercial Sub-committee held on 04.12.2023 were issued vide letter dated 23.01.2024. No comment has been received on the minutes.
- 1.2 Sub-committee may confirm the minutes of 48th CSC meeting of NRPC.

ITEM-2 Calculation of Transmission Deviation charges due to Primary Response (Agenda by NRPC Sectt.)

- 2.1 Regulation 12(2) of Amendment-I to CERC (Sharing of ISTS Charges and Losses) Regulations, 2023 provides that:
- 2.2 "Transmission deviation charges shall not be levied for the quantum of over-injection for providing primary response by a generating station, subject to verification of such over injection by concerned RPC:
- 2.3 Provided also that each RPC shall issue necessary guidelines for furnishing the data by the generating stations regarding their primary response".
- 2.4 A draft methodology based on the similar lines of methodology finalized by SRPC is prepared for NR which is enclosed at **Annexure-I**.

Members may deliberate to finalize the proposed methodology.

ITEM-3 Declaration of High Flow Season for FY 2024-25 (Agenda by NRPC Sectt.)

- 3.1 Regulation 45.8(a) of CERC (IEGC) Regulations, 2023 which came into effect on 01.10.2023 provides that

'Hydro generating stations may declare ex-bus Declared Capacity more than 100% MCR less auxiliary power consumption limited to overload capability during high inflow periods. Further that a high inflow period for this purpose shall be notified by the respective RPC.'

- 3.2 Further, Regulation 12.1(a) of CERC (Sharing of ISTS charges and losses) Regulations provides that

'For the purpose of calculation of Transmission Deviation for a hydro-generating station by RPC, overload capacity of 10% during peak season shall be taken into account.'

- 3.3 In the view of above it was Regional Hydro generators of NR were requested to furnish 10-daily water inflow series for last 5 years (since January 2019) to NRPC Sectt.

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- 3.4** Based on the data received, High flow season for Regional Hydro generators of NR for FY 2024-25 in compliance of Regulation 45.8(a) of IEGC, 2023 is proposed as follows:

S. No.	Hydro Generating Station	High inflow season for FY 2024-25
1	Bairasiul	May to August
2	Chamera-I	May to August
3	Chamera-II	May to August
4	Chamera-III	May to August
5	Dhauliganga	June to September
6	Dulhasti	16 th May to 15 th September
7	KWHEP	June to September
8	Kishanganga	16 th April to 15 th August
9	Koldam	June to September
10	Koteshwar	September to December
11	Nathpa Jhakri	June to September
12	Parbati-III	June to September
13	Greenko Budhil	June to September
14	Rampur	June to September
15	Salal	16 th May to 15 th September
16	Sewa-II	April to July
17	Tanakpur	16 th June to 15 th October
18	Tehri	September to December
19	Uri-I	16 th March to 15 th August
20	Uri-II	16 th March to 15 th August

Members may deliberate.

ITEM-4 Notification of Draft CERC (Terms and Conditions of Tariff) Regulations, 2024 (Agenda by NRPC Sectt.)

- 4.1** CERC has notified the Draft CERC (Terms and Conditions of Tariff) Regulations, 2024 on 04.01.2024.
- 4.2** It is necessary for all the utilities to go through this regulation notified by CERC.

For information of Members.

ITEM-5 Non-Payment of pending dues for O&M charges of 220KV Ganguwal-Mohali Line and associated 4 No. 66KV bays by UT Electricity Department Chandigarh (Agenda by PSTCL)

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- 5.1** 220KV Ganguwal - Mohali Line and associated 4 No. 66 KV bays are owned and maintained by PSTCL exclusively for transmission of power to UT Electricity Department Chandigarh. Accordingly, PSTCL (The successor utility of erstwhile PSEB, dealing with transmission of electricity in the Punjab state) is entitled to claim O&M charges of 220KV Ganguwal-Mohali Line & bay maintenance charges of associated 4 No. 66 KV bays from Electricity Department of UT Chandigarh. It is worth mentioning that the 4 No. Chandigarh circuits were considered as incidental ISTS lines in the 43rd NRPC meeting and the charges associated with these lines are required to be paid as per CERC regulations/ norms, as also applicable on pan-India basis.
- 5.2** PSTCL has mentioned that with the commissioning of 220KV Ganguwal-Mohali transmission line in year January, 1992, the billing is being made towards O&M charges for 220KV Ganguwal-Mohali transmission line, which is used for transmission of UT share of power from Kotla Hydro Station. Erstwhile PSEB was raising bills to Electricity Department UT Chandigarh for the O&M charges of said line at 1% of the capital cost with an escalation rate of 10% every year, right from its commissioning (January, 1992). PSTCL continued the billing upto 31.03.2015.
- 5.3** Further, UT Chandigarh conveyed that as per MoP Notification, the escalation rate from FY 1997-98 shall be as per the WPI/CPI indices, PSTCL accepted the contentions of Electricity Department UT Chandigarh for revising the billing as per MOP Notification. Electricity Department UT Chandigarh then prepared a statement up to 31.03.2011 by applying escalation @ 10% as per MOP Notification from 1992-93 to 1996-97, as per WPI/CPI indices from 1997-98 to 2003-04 and CERC norms for O&M charges from 2004-05 to 2010-11. In March, 2017, an amount of Rs. 27,74,840/- was paid by Electricity Department UT Chandigarh on account of O&M Charges of 220KV Ganguwal-Mohali line for the period FY 1992-93 to FY 2010-11 in full settlement. Thereafter, Electricity Department UT Chandigarh released Rs. 83,99,362/- in July, 2018 from FY 2011-12 to FY 2018-19 based on the CERC norms in full settlement.
- 5.4** Payments from 2019-20 onwards for O&M charges of 220KV Ganguwal - Mohali Line are pending. Regarding payment of O&M charges on account of 4 No. 66 KV bay maintenance, UT Chandigarh has not released any amount in spite of various requests by PSTCL.
- 5.5** Consequently, total outstanding dues of Electricity Department of UT Chandigarh against 220KV Ganguwal-Mohali Line and associated 4 x 66KV bays have grown to a huge amount of Rs. 20,85,20,040/- till FY 2021-22, based on the bills already raised by PSTCL. In fact, PSTCL is incurring a loss of interest charges on these long pending dues recoverable from Chandigarh Electricity Department, which is an additional but avoidable financial burden.
- 5.6** Multiple correspondence & personal visits are being made by PSTCL officers repeatedly to Electricity Department of UT Chandigarh for getting balance pending payment of O&M charges of 220KV Ganguwal-Mohali Line and associated 4 No.

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66KV bays released, as well as to obtain consent for signing of MOU in order to streamline the payment basis for future. Because of this, PSTCL is of the view that Electricity Department of UT Chandigarh is deliberately delaying the decision of signing of MOU and clearance of long pending dues on the pretext of internal discussions & issues in reaching consensus for making payment as per CERC Norms.

- 5.7** Accordingly, to settle outstanding dues, a notice was given on date 11/09/2023 for the discontinuation of maintenance activities from 01/11/2023 onwards by switching off 66KV Chandigarh circuits emanating from 220KV Mohali-1 due to default of Chandigarh Electricity department in signing of MOU & making payment of outstanding dues towards bay maintenance charges. The same was withdrawn on the verbal assurance of CE/UT that matter will be resolved at the earliest by arranging bilateral meetings. But, despite the lapse of more than 3 months, the matter is still unresolved.
- 5.8** Further mentioned by PSTCL, A payment of Rs. 20,37,849/- (for the FY 2019-20 to FY 2022-23) out of total outstanding dues of Rs. 20,85,20,040/- (till FY 2021-22) on account of O&M charges of 220 kV Ganguwal-Mohali Line and associated 4 No. 66KV bays has been made on dated 20/11/2023 by UT Chandigarh based on own developed method of calculations by mixing with TIE-4 Norms (The TIE-4 Norms was prepared by erstwhile PSEB in 2004 having maintenance/material cost of 66KV bay around Rs 500/- year by applying escalation @ 4%. These charges do not include employee cost or any other major expenditure being incurred on replacement/repair required from time to time through special estimates). As per methodology used, the UT has calculated the O&M charges of 220 KV Ganguwal – Mohali line and 04 Nos., 66KV Bays as under:-

Financial Year	Description of Transmission Element	Components for calculation of O & M charges	Tentative Amount (calculated by Electricity department UT Chandigarh)	Remarks (By PSTCL)
2022-23	O&M charges of Ganguwal - Mohali line	Employee Cost	12,63,434	(own developed method used and not approved by regulating authorities)
		M&R of Transmission Line	1,11,888/-	as per TIE-4 norms @1512/ KM and not approved by regulating authorities
		Repair & carriage of T&P	12,900/-	(own developed method used and not approved by regulating authorities)
	O&M charges of 4No. 66KV bays	Employee Cost	Nil	Wrongly merged with employee cost of line. Staff deputed at substations is different from line staff &

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			performing duties round the clock in shifts. Presently, 50% of total grid demand is being handled by station staff to supply power to Electricity department, UT Chandigarh.	
		M&R of Transmission Line	2,064/-	as per TIE-4 norms @516/Bay and not approved by regulating authorities
		Repair & carriage of T&P	2,150/-	(own developed method used and not approved by regulating authorities)
	O & M charges of Other electrical equipment		2,30,772/-	as per TIE-4 norms and not approved by regulating authorities
Total for FY 2022-23			16,63,208/-	
Similarly for FY 2019-20-FY 2021-22			44,90,340/-	
Total			61,13,548/-	

Payment as per 2/3rd share of Chandigarh = Rs. 40,75,699/-

50% of shared Amount = Rs. 20,37,849/-

5.9 From the above calculation methodology, it is clear that payment of Rs. 20,37,849/- has been calculated by own developed methods of Electricity Department UT Chandigarh by keeping aside all the regulations approved by regulating authorities. Accordingly, PSTCL vide letter dated 22/12/2023, Electricity department of UT Chandigarh was requested to reply to the following objections:

- Reasons of calculations by own developed methods of UT by keeping aside all the regulations approved by regulating authorities in spite of the fact that the 4 No. Chandigarh circuits were considered as natural ISTS lines in the 43rd NRPC meeting and the charges associated with these lines are required to be paid as per CERC regulations/ norms, as also applicable on pan-India basis.
- Reasons of reduction of payment first by the factor 2/3rd then again reduced the payment by 50%. The overall reduction becomes 67%. It is pertinent to mention here that 4No. 66KV Chandigarh ckts are dedicatedly for supply of power to Chandigarh so the 67% reduction factor on M&R of these 66 KV Line, Repair & carriage of T&P & non consideration of employee cost of sub-station is not justified.
- Reasons of calculation of the employee cost considering salaries of new joined employees (having service less than 4 years).

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- d. Reasons of non-consideration of clerical staff charges & supervision/ monitoring charges of officers above AEE.
- e. Reasons of non-considerations departmental charges @ 27.5% on employee cost as per letter dated 31/01/2005 have not been considered.
- f. Reasons of non-considerations of Cost of Protection testing.
- g. Unrealistic payment calculation/by maintenance charges of 66 KV bays @300 (with 72% premium) i.e., Rs. 516/- per year.
- h. Reasons of non-considerations of depreciation cost (@5.28% of Rs 70,72,642 of 2 Nos. 100/160 MVA T/F costing Rs. 13,39,51,568 (as per asset Card) installed by PSTCL for supplying power exclusively to UT has not been considered.

5.10 However, instead of providing reply to objections, UT electricity Chandigarh vide letter dated 08/01/2024 has suggested to raise the issue of these unauthorised calculation at higher appropriate level.

5.11 PSTCL has submission that a letter dated 23/01/2024 was sent to Electricity department of UT Chandigarh was requested that own developed methods of calculation may be avoided and ensure providing consent for signing of MOU & payments towards outstanding dues against O&M charges of 220KV Ganguwal-Mohali Line and associated 4 No. 66KV bays in line with CERC norms.

5.12 Submitted for deliberation of members & suitable directions to UT.

Members may deliberate for giving suitable directions to both parties.

ITEM-6 Regarding erroneous calculation of Reactive energy charges of 412 MW Rampur HPS (Agenda by SJVNL)

6.1 After implementation of IEGC, 2023 w.e.f. 01.10.2023, matter regarding discrepancy in Reactive Energy Charges in Rampur HPS has been pursued by SJVN with NRPC. In this regard a meeting through video conference was convened by NRPC Secretariat between NRLDC, CTU, PGCIL, NHPC, THDC and SJVN on 07.02.2024, wherein it was directed by NRPC that matter of revision of reactive energy charges may be taken up in commercial sub-committee meeting by SJVN.

6.2 Reactive Power Compensation (Annexure-4) of CERC (IEGC) Regulation 2023

A) Reactive power compensation should ideally be provided locally, by generating reactive power as close to the reactive power consumption as possible. The regional entities are therefore expected to provide local VAR compensation or generation such that they do not draw VARs from the EHV grid, particularly under low-voltage condition. To discourage VAR draws by regional entities, VAR exchanges with ISTS shall be priced as follows:

(a) The regional entity pays for VAR drawal when voltage is below 97%

(b) The regional entity gets paid for VAR return when voltage is below 97%.

(c) The regional entity gets paid for VAR drawal when voltage is above 103%.

(d) The regional entity pays for VAR return when voltage is above 103%.

Where all voltage measurements are at the interface point with ISTS.

B) The charge for VARh shall be at the rate of 5 paise/kVARh w.e.f. the date of effect of these regulations. This rate shall be escalated at 0.5paise/kVARh per year thereafter, unless otherwise revised.

6.3 Regulation 29 (System Security)- of CERC (IEGC) Regulation 2023

6.4 (15) NLDC, RLDCs, SLDCs, and users shall operate in a manner to ensure that the steady state grid voltage as per the CEA Grid Standards remains within the following operating range:

Voltage (kV rms)		
Nominal	Maximum	Minimum
400	420	380

6.5 Observation of Rampur HPS/SJVN Ltd regarding installed SEM's at 412MW RHPS:

- a. It is submitted that Special Energy Meter (SEM) of L&T make (model ER 300P) has been installed by PowerGrid at Rampur HPS. However, CVTs installed in Switchyard of Rampur HPS have transformation ratio of $420\text{KV}/\sqrt{3} / 110\text{V}/\sqrt{3}$. Hence, these meters are taking the reference voltage of 110 V in LV side for voltage level of 420kV in place of 400kV, which results in discrepancy in triggering of VARh Low and VARh high registers at wrong voltage levels for accounting for reactive power. As per the relevant provisions of CERC (IEGC) Regulations, 2023, Generating Unit to supply or absorb the reactive power in reference to 400 kV after tolerance of $-/+3\%$ i.e 388kV on lower side and 412kV on higher side. However, in case of Rampur HPS, due to discrepancy as mentioned above, the tolerance of $-/+3\%$ shifted to 407.4 kV from 388kV on lower side and 432.6 kV from 412 kV on higher side. Due to this, SEMs are recording the "Low VARh" even though the grid voltage is well above 388kV. It is pertinent to mention here that 80 MVAR BUS Reactor installed at Rampur HPS has been supporting the GRID especially during lean hydro season by absorbing Var even when the generation schedule of Rampur HPS is zero. But due to above cited issue, we are getting the penalty although the system volage is well above 388kV. The sole reason for occurrence of this discrepancy observed, because there is no multiplication factor incorporated in meter and data of secondary side is recorded for irrespective of primary voltage of instrument transformer (i.e. CVT/PT).
- b. In addition to above, the following problem are also faced in Interface SEMs of Rampur HPS:
 - i. Frequent change in Time w.r.t GPS Time is noticed in SEM Sr No: NP-8524-A (Check Meter), installed in Rampur-Nalagath CKT-1, the same has led to incorrect energy accounting in this SEM.

- ii. The optical port of Some SEMs becomes non-responsive and doesn't communicate with CMRI, in order to restore the communication, SEM has to be restarted by temporarily removing PT Input to the Meter.

6.6 Proposed Solution for consideration of NRPC/NRLDC:

6.7 In order to resolve the above discrepancies in existing SEM's of Rampur HPS, the following necessary modification in secondary voltage set point for trigger of "Low Varh" and "High Varh" in SEMs may please be incorporated.

Description	Secondary Voltage for 400 kV	Necessary Modification required in Secondary Voltage for 420 kV in existing SEM's of Rampur HPS
Trigger of "Low Varh" register (97%)	106.7 Volt	101.6 Volt
Trigger of "High Varh" register (103%)	113.3 Volt	107.9 Volt

6.8 As described above, if the respective triggers of secondary voltage get incorporated in all SEM meters, then voltages (in reference to primary side) for trigger of "Low Varh" get shifted from existing 407.4kV to 388kV and for "High Varh" from existing 432.6 kV to 412 kV even with the existing 420kV CVT. Further, the suggested modification is proposed for trigger of reactive power recording register in the SEM only. However, there shall not be any change in existing SEM's energy accounting for Rampur HPS.

6.9 SJVN proposal is that the above modification in SEM's may be incorporated on priority basis, so that discrepancy on account of reactive power charges may not be reflected in future for Rampur HPS. And requested to advise M/s POWERGRID who had supplied & commissioned L&T make SEMs at Rampur HPS to incorporate the necessary modification in secondary voltage of SEM's as deliberated above in order to avoid any further loss to SJVN Ltd.

OR

6.10 M/s POWERGRID/CTU may explore the possibility of installation of new latest SEMs with modified secondary triggering voltages for VARH Low and VARH High registers in accordance with CVT Transformation Ratio of feeders of Rampur HPS i.e $420KV/\sqrt{3} / 110V/\sqrt{3}$.

6.11 Raw Data for Reactive Power compensation from L&T Make ER-300P 0.2S Class Active and 0.5S for reactive, Energy Accounting & Audit Meters (Installed and Maintained by SJVN as Stand By Meter) for the period 01.12.2023 to 15.02.2024 has

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been submitted by SJVN to NRPC for verification of data. Further, SJVN mentions that the accuracy class and Make & Model of these Stand by Energy meters of SJVN Ltd are same as the SEMs (Main & Check Meter) installed by M/s PowerGrid.

- 6.12** On the basis of above raw data, SJVN requests to compensate RHPS against the reactive power Support to Grid, in compliance to the CERC (IEGC) Regulation 2023 for the period 01.12.2023 to 15.02.2024. However, on same pattern it is further requested to compensate against the reactive power Support to Grid made by Rampur HPS for the period 02.10.2023 to 30.11.2023 although Raw data of Stand By SEM owned by SJVN Ltd for this period is not available with us. However, the raw data from 16.02.2024 till the time Modification/New SEMs will be installed by POWERGRID/CTU shall be provided separately by SJVN Ltd to NRPC.

Members may deliberate.

ITEM-7 DSM Discrepancy Resolution:(Agenda by Adani Green Energy Ltd.)

- 7.1** AGEL raised the discrepancies as mentioned below which are pending:

Sr no	Issue related	Impact Receivable from pool (In Rs.)	Impact payable to pool (In Rs.)
1	AvC related issue	12,27,522	-
2	DSM waive off in grid tripping event	2,58,30,293	
3	Actual Generation Related Issue	42,25,844	23,36,125
4	Schedule Mismatch Issue	33,26,364	44,645
5	Consider wrong contract rate for DSM calculation Issue	16,41,736	12,72,780
Total		3,62,51,759	36,53,550

- 7.2** AGEL requests to resolve the above said discrepancies whose details are attached at **Annexure-II**.

Members may deliberate.

ITEM-8 Revision of Reactive Energy Accounts issued by NRPC for the Week 28 onwards of FY 2023-24, no. of Drawl Points considered i.r.o. HP State are as follows: (Agenda by HPSLDC)

- 8.1** After the implementation of CERC GNA Regulations, 2022 w.e.f. 01.10.2023, NRPC has changed the no. of drawl points considered for preparing the Reactive Energy Account i.r.o HP State. So, it is requested by HPSLDC to deliberate on the methodology used and some clarity on drawl points being considered in preparing Reactive Energy Account i.r.o HP State as mentioned below.

S.No	Duration	No. of Drawl Points considered by NRPC i.r.o. HP	Remarks
1.	WK-01 to 27 FY 2023-24	20	Details attached as Annexure-III
2.	WK-28 to 40 FY 2023-24	32	
3.	WK-42 FY 2023-24	28	

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- 8.2** In Reactive Energy Accounts issued for the week no. 43 & 44 FY 2023-24, multiple issues were there regarding ISTS points- BADDI-HPSEB & MAJHRI-HPSEBL, meter no. NP-1867 & NP-6971 respectively, Reactive Energy (MVARH) values shown under HV1,HV2, HV3, HV4, HV5, HV6 & HV7 are same in each day of week i.e. - 1882.20, which seems to be incorrect as values may be stuck in the meter. At ISTS point Hamirpur- HPSEB, meter no.NP-3137, values shown in Reactive Energy Account are not matching with the meter data available on NRLDC website.
- 8.3** HPSLDC requests for revision of these accounts by rectifying the drawl points.

Members may deliberate.

ITEM-9 Non-Opening of Letter of Credit

NHPC

- 9.1** NHPC has requested JKPCL, J&K to open letter of credit (LC) in accordance with Rule-6 of MoP notification no. 23/22/2019-R&R (Part-4) dated 03.06.2022 "Electricity (Late Payment Surcharge and Related Matters), Rules, 2022". LC is still to be opened by JKPCL, J&K in favour of NHPC for the requisite amount of **₹96.76 crores** worked out on the basis of 105% of last 12 months average billing.

SJVNL

- 9.2** As per mutually signed Power Purchase Agreement and MOP, GOI various order/ gazette Notifications (e.g. 28.06.2019, 21.02.2021 and 03.06.2022), Beneficiary has to establish Letter of Credit in line with payment security Mechanism. The established LC should be confirmed, revolving, irrevocable and in favour of SJVN for an amount equivalent to 105% of average monthly billing of preceding 12 months with appropriate bank as mutually acceptable to both the parties. The LC shall be kept valid at all the time during the validity of the Power Purchase Agreement.
- 9.3** In spite of repeated reminders, JKPCL had not opened Letter of Credit after 13.11.2019 for power supplied from NJHPS and RHPS. SJVNL requests As such of SJVN at the earliest.

NPCIL

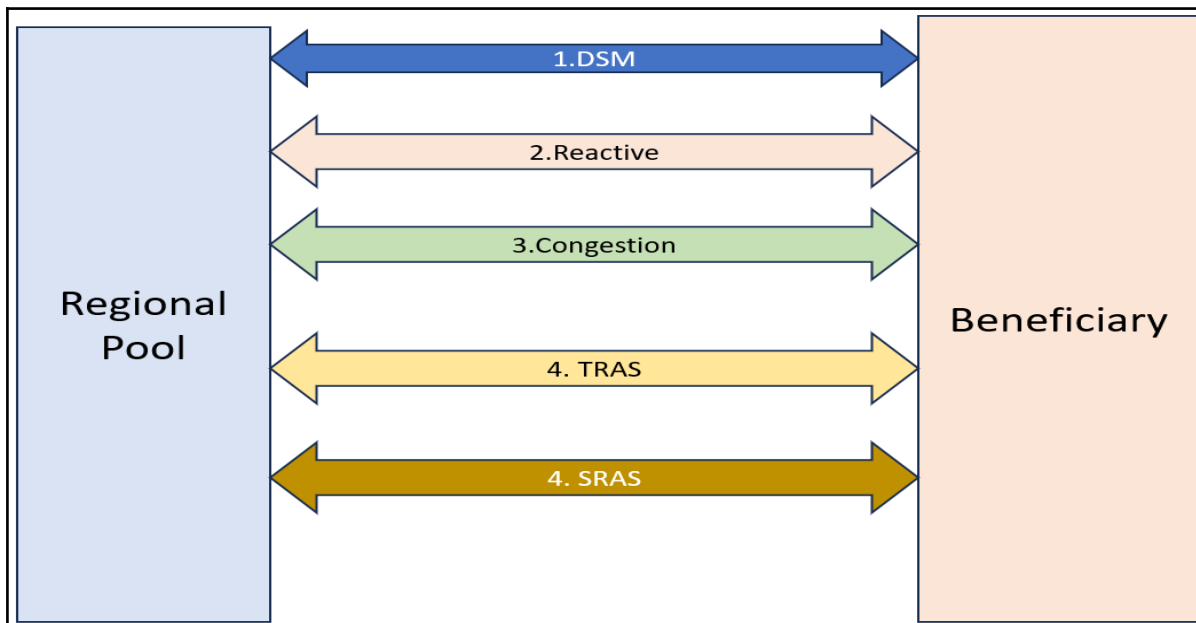
- 9.4** Maintenance of Letter of Credit (LC) as Payment Security mechanism is Compulsorily required to be submitted by M/s JKPCL (J & K Power Corporation Ltd) as per Power Purchase Agreement (PPA) conditions.
- 9.5** However, LC of M/s JKPCL has been expired on 13/11/2019 and the same has not been yet renewed by them. F&A Section of NPCIL is being regularly following-up with M/s JKPCL regarding opening of LC.
- 9.6** Various letters / reminders have been sent to M/s JKPCL by F&A Section of NPCIL, but they have not yet submitted Letter of Credit in favour of NPCIL as per PPA conditions for Supply of Power to them.
- 9.7** In view of above, it is requested by above utilities that the beneficiary may kindly be impressed upon to open LC accordingly, at the earliest in favour of them.

Members may deliberate.

ITEM-10 Pool Account:(Agenda by NRLDC)

10.1 Weekly Accounts on Net Basis:

A. Presently separate weekly account of Deviation Charges, Ancillary Service, Congestion Charges and Reactive Account are being issued by NRPC. The flow money is as follows:



B. As per IEGC 2023 “Pool Account” means Deviation and Ancillary Service Pool Account as defined in the DSM Regulations, where the following transactions shall be accounted:

- i. Deviations and Ancillary Services.
- ii. Reactive Energy Exchanges.
- iii. Congestion Charge.

C. As the Deviation, Ancillary Services, Reactive and Congestion accounts are merged into single account, hence it is proposed to issue a common weekly account of Deviation Charges, Congestion Charges and Reactive Account on net basis. Similarly, Ancillary account i.e. SRAS, TRAS, Black Start and SCUC can also be issued on net basis. This will address the issues related to multiple transactions and circular flow of money between beneficiaries and Pool account. In addition, it will also ease out the reconciliation of accounts with beneficiaries.

D. Sample format for issuance of account on net basis is as shown below:

10.2 Deviation Account:

(+) Payable by Entity/ (-) Receivable by Entity
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S.No	Beneficiary Name	Deviation Settlement Account (Rs) (A)	Reactive Energy Charge (Rs) (B)	Congestion (Rs) (C)	Net Payable (Rs) (D)= (A)+(B)+ (C)	Net Receivable (Rs) (E)= (A)+(B)+ (C)
1						
2						
3						
4						

10.3 Ancillary Services Account:

(+) Receivable by pool/(-) Payable by pool							
S.No	Beneficiary Name	TRAS (Rs) (A)	SRA S (Rs) (B)	SCUC (Rs) (C)	Black Start (Rs) (D)	Net Payable (Rs) (E)= (A)+(B)+(C)+ (D)	Net Receivable (Rs) (F)= (A)+(B)+(C)+ (D)
1							
2							
3							
4							

10.4 Restriction of Minimum payable/receivable amount in Reactive Energy Account:

- A. As per IEGC 2023, Generators have also come under the purview of Reactive power compensation. It is observed that reactive charges payable/ receivable are very less for many regional entities (even less than ₹10). These small amounts are negligible as compared to large transactions taking place in the pool account. Accounting/Payment and reconciliation of such small amounts is very inconvenient and time-consuming job. Below is the summary of such entities:

Week No	Total entity as per Account	No. of Entity Whose Reactive Charges less than ₹100		No. of Entity Whose Reactive Charges less than ₹1000	
		No	%	No	%
30	36	13	36%	17	47%
31	44	15	34%	23	52%
32	52	21	40%	29	56%
33	55	19	35%	33	60%
34	49	15	31%	27	55%
35	40	13	33%	18	45%
36	38	10	26%	13	34%
37	39	7	18%	15	38%
38	45	12	27%	19	42%
39	36	8	22%	12	33%
40	31	6	19%	7	23%
41	35	9	26%	12	34%
42	30	5	17%	4	13%
43	31	4	13%	7	23%
44	55	17	31%	28	51%
45	52	11	21%	22	42%

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- B. Hence it is proposed that reactive charges (payable/receivable) less than ₹1000 may not be published in the weekly Reactive Energy Account and may be kept on hold. Whenever the accumulated reactive charges of the grid entities are more than ₹1000, they may be published in the weekly statement.

10.5 Status of Northern Region Deviation charges as on 23.02.2024

- A. Deviation charges receivable from pool are settled up to Week No. 45th (29.01.2024 to 04.02.2024) of FY 2023-24.

i. Deviation Outstanding Status:

Sr. No.	Entity	Outstanding Amount (₹)	Remarks
1	Jammu & Kashmir	53,73,06,507	For Wk-38 to 45
	Total	54,55,53,054	
2	Chandigarh (Deviation)	16,54,01,002	For Wk-39 to 45
3	Azure Forty One	58,76,764	For Wk-44 & 45
4	Azure Forty Three	85,72,678	For Wk-40, 43, 44
5	Azure Power Maple	12,94,967	For Wk-44 & 45
6	Azure Thirty Four	7,28,598	For Wk-45
	Total Azure	1,64,73,007	
7	RENEW SUNWAVES	43,88,419	For Wk-44 & 45
8	RENEW SUN BRIGHT	49,97,704	For Wk-44 & 45
9	Renew Surya Pratap Pvt Ltd	1,22,06,344	For Wk-44 & 45
10	Renew Surya Vihaan Private Limited	98,06,377	For Wk-44 & 45
11	RENEW JHARKHAND	43,08,776	For Wk-44 & 45
12	RENEW SURYA RAVI	2,02,22,546	For Wk-41, 43 & 44
13	RENEW SOLAR URJA	25,68,129	For Wk-44 & 45
14	RENEW POWER	92,92,488	For Wk-40 to 45
	Total Renew	6,77,90,783	

ii. Status of Reactive Energy Charges

- a. Reactive Energy Charges have been fully settled up to Week No. 45th (29.01.2024 to 04.02.2024) of FY 2023-24.
- b. Reactive Energy Charges are partly settled upto Week No. 44th (22.01.2024 to 28.01.2024) of FY 2023-24.

Reactive Outstanding Status:

Jammu & Kashmir - ₹ 82,46,547

iii. Status of Ancillary Services Charges

- a. SRAS charges (Receivable from Pool) are fully settled up to week 45th (29.01.2024 to 04.02.2024) of FY 2023-24.
- b. TRAS charges (Receivable from Pool) are fully settled up to week 45th (29.01.2024 to 04.02.2024) of FY 2023-24.

SRAS/TRAS Outstanding Status: Nil

10.6 Interest Charges Account

- A. Periodic issuance of account of interest charges for Deviation, Reactive, SRAS and TRAS is proposed (say Quarterly) to facilitate utilization of surplus funds so that interest charges of Ancillary service (TRAS/SRAS) providers are paid timely instead of transfer of surplus funds to other regions/PSDF. Interest Statement for FY 2022-23 is yet to be issued.

10.7 LC Status against Default in Deviation charges liability

- A. 49 Entities had defaulted in payment during FY 2022-23. Out of these 49 entities following 21 entities yet to open the LC.

Sl. No.	Name of NR Pool members	No of defaults in Deviation Payment during FY 2022-23	LC Amount in Rs.
1	ABC RENEWABLE ENERGY	14	4,07,163
2	ACME CSEPL	34	7,67,990
3	AVAADA RJHN	3	9,18,674
4	AVAADA SUNCE	3	33,61,064
5	AVADA SUNRAYS	4	9,93,599
6	AVADA SUSTAINABLE	5	5,31,962
7	AYANA RENEWABLE ONE	37	9,32,362
8	AZURE FORTY ONE	16	4,33,786
9	AZURE FORTY THREE	14	57,158
10	AZURE POWER	12	81,808
11	AZURE POWER MAPLE	21	8,676
12	AZURE THIRTY FOUR	13	1,784
13	CLEAN SOLAR POWER	1	4,52,258
14	HPPCL	2	8,27,108
15	JAMMU AND KASHMIR	29	29,14,674
16	NFL	1	84,634
17	NHPC	2	3,15,354
18	NPC	1	0,84,697
19	NEPAL (NVVNL)	1	75,82,701
20	PUNJAB	4	31,61,168
21	UTTAR PRADESH	3	1,87,73,903

10.8 Submission of Bank Account Details

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- A. Payments pertaining to Pool Accounts are disbursed to Chandigarh & Railways through cheque by NRLDC.
- B. Despite repeated request Chandigarh & Railways are not submitting the bank account details for enabling electronic mode of payments from the pool accounts.

Members may deliberate.

ITEM-11 STOA :(Agenda by NRLDC):

11.1 Status of Reconciliation of STOA charges as on 23.02.2024

- A. NRLDC has sent the reconciliation statement of STU/SLDC disbursement vide letter reference no. NRLDC/STOA/2023-24/3A dated 25.01.24 & refund reconciliation statement to applicants vide letter reference no. NRLDC/STOA/2023-24/3B dated 25.01.24 for the Quarter-3 (01-10-23 to 31-12-23). The applicants/STUs/SLDCs were requested to verify /check the reconciliation statement & comment if any on the same by 15.02.24.
- B. List of applicants/STUs/SLDC from whom signed reconciliation statements regarding refund/disbursement of Open access charges is received:

S. No.	Entity Name	Date of receiving the signed reconciliation statement
1	Indian Energy Exchange	25.01.2024
2	NTPC Vidyut Vyapar Nigam Ltd	29.01.2024
3	Karnataka STU & SLDC	03.02.2024

- C. List of applicants/STU/SLDC from whom signed reconciliation statements regarding refund/disbursement of Open access charges is not yet received:

STU/ SLDC

1. Delhi STU SLDC
2. HP STU SLDC
Exchange
3. UP STU SLDC
4. J&K STU SLDC
5. AP STU SLDC
6. MP STU SLDC
7. Odisha STU SLDC
8. Maharashtra STU SLDC

Applicants

1. Tata Power TCL
2. Hindustan Power
3. Manikaran Power Ltd.
4. SJVN Ltd.
5. ITC Mughal Shereton
6. ITC Shereton Ltd.
7. ITC Ltd. PCPB Haridwar
8. ITC Ltd. PPD Haridwar

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9. DVC

10. Tamil Nadu STU SLDC

11.2 Regulation of Jammu Kashmir Power Corporation Ltd (JKPCL) as per Electricity (Late Payment Surcharge and Related Matters) Rules, 2022 (Agenda by NRLDC):

- A. The Electricity (Late Payment Surcharge and Related Matters) Rules, 2022 had come into force w.e.f. 6th August 2022. As per clause 7(1), the Short-term access for sale and purchase of electricity in both the collective and bilateral category of STOA shall be regulated entirely for the defaulting entities.
- B. As per the status available on Praapti portal, the name of Jammu Kashmir Power Corporation Ltd (JKPCL) has been appearing on regular basis in view of outstanding dues. Details of regulation of JKPCL for the period October-23 to February-24 are as follows:

S.No	DISCOM	Added (PRAAPT I) as per Statement for Trigger of Date for	Removed (PRAAPT I) as per Statement for Trigger of Date for	Period of Blocking by GRID-INDIA			
		From	To	From	To	Duration-Days	Remarks
1	Jammu Kashmir Power Corporation Limited	20.10.2023	21.10.2023	21.10.2023	21.10.2023	1	Blocked in IDAM for 21.10.2023
2		21.11.2023	22.11.2023	22.11.2023	22.11.2023	1	Blocked in IDAM for 22.11.2023
3		16.01.2024	17.01.2024	17.01.2024	17.01.2024	1	Blocked in IDAM for 17.01.2024
4		24.01.2024	25.01.2024	25.01.2024	25.01.2024	1	Blocked in IDAM for 25.01.2024
5		21.02.2024	22.02.2024	22.02.2024	22.02.2024	1	Blocked in IDAM for 22.02.2024

- C. JKPCL is requested to clear the dues of generating companies/ transmission licensee in timely manner, before the trigger date, to avoid Regulation in T-GNA.

Members may deliberate.

ITEM-12 Non availability of meter data and delay in replacement of Faulty Meters at

multiple stations in NR**12.1** As per clause 49(12(e) of IEGC 2023 :

*"Entities in whose premises the IEMs are installed shall be responsible for (i) monitoring the healthiness of the CT and PT inputs to the meters, (ii) taking weekly meter readings for the seven day period ending on the preceding Sunday 2400 hrs and transmitting them to the **RLDC by Tuesday noon**, in case such readings have not been transmitted through automatic remote meter reading (AMR) facility (iii) monitoring and ensuring that the time drift of IEM is within the limits as specified in CEA Metering Regulations 2006 and (iv) promptly intimating the changes in CT and PT ratio to RLDC".*

12.2 NRLDC informs about the meter discrepancies to every entity on a weekly basis via e-mail and the weekly discrepancy report is also published on the NRLDC website. However, no response/delayed response is received from constituents in resolution of these meter issues.**12.3** Details of current ongoing meter related issues which are yet to be resolved has been provided in **Annexure -IV**. Entities are requested to provide the reason as to why these issues still being pending even after multiple communications.

Members may deliberate.

Methodology for NR generating stations for incorporating PRAS while calculating transmission deviation charges

1. Background:

Clauses (1)a of Regulation 12 of the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) (First Amendment) Regulations, 2023 mandates RPC for issuing of necessary guidelines for furnishing the data by the generating stations regarding their primary response.

'Provided further that transmission deviation charges shall not be levied for the quantum of overinjection for providing primary response by a generating station, subject to verification of such over-injection by concerned RPC:

Provided also that each RPC shall issue necessary guidelines for furnishing the data by the generating stations regarding their primary response.'

Also, Regulation 30 (8) of CERC IEGC Regulation 2023 states

'The primary response of the generating units shall be verified by the Load Despatch Centres (LDCs) during grid events. The concerned generating station shall furnish the requisite data to the LDCs within two days of notification of reportable event by the NLDC.'

2. Applicability:

The guidelines shall be applicable to all regional generators of Northern Region.

3. Guidelines:

The following guidelines shall be followed by the respective entities

- a. The generator shall submit the claim for RTDA exemption by 5th of the month for the previous month to NRPC & NRLDC. Provided that in case of no data/claim is received by the 5th of the month, it shall be treated as no claim for the previous month.
- b. The following data should be furnished by generator:
 - i. Date, Start Time & End Time of the primary response event.
 - ii. Frequency profile (clearly indicating triggering of Primary Response) at Generator Terminal with smallest scan rate (say, 500 msec intervals) available with generator one minute prior to Start Time and one minute beyond End Time.
 - iii. Generation profile at Generator Terminal of all the units with smallest scan rate available with generator one minute prior to Start Time and one minute beyond End Time.
 - iv. Primary Response Input to Governor of Generator for all the units with smallest scan rate available with generator for the above period.
 - v. Energy claim for RTDA exemption for the 15-minute Block due to primary response along with computations. The claim at Generator Terminal of all the units would be translated to Ex-bus by the Generator by using the normative/declared Auxiliary Consumption to NRLDC.
 - vi. SCADA data viz Time, Frequency, and actual MW at Generator Terminal. The SCADA data shall be submitted for 15 minutes duration covering 5 minutes before the Start Time, Actual minutes of Primary Response (5 minutes) and 5 minutes beyond End Time.

Note: The time between start and end frequency for primary response triggering shall not exceed 15 seconds for the purpose of computing the response.

- c. Based on the data furnished by generators, NRLDC should take the following actions:
 - i. Check the frequency pattern from the nearest PMU and confirm the time of the event, frequency dip, and rate of change of frequency.

- ii. Check the FGMO/RGMO status as per SCADA & confirm the status.
 - iii. Verify the claim keeping in view all the inputs received from Generator.
 - iv. Recommend the energy which can be exempted along-with reasons for deduction in claim, if any by 15th of the month.
- d. NRPC & NRLDC shall consider the effect of primary response in RTDA only if the following is satisfied.
- Let us consider the 't' as the time block in which the primary response claim is made by the generator.
- i. Generator has submitted the claim with full details as envisaged on time.
 - ii. NRLDC has confirmed the primary response event and the dip in frequency is more than 0.03Hz.
 - iii. FGMO is in enabled condition as per NRLDC SCADA data & confirmed by NRLDC.
- e. The energy claim by the generator due to the primary response shall be limited to 5 %/ 10 % of MCR (Ex-bus), as applicable, for the purpose of RTDA as area under the curve approximated by the formula below:

$$\frac{[0.5 * (5/10)] * \text{Total MCR(Ex-bus)} * \text{Change in frequency} * 100}{(\text{Droop} * 50)}$$

- f. NRPC would consider the recommendations of NRLDC for RTDA exemption.

AGEL Agenda of 49th NRPC meeting of Commercial Sub-committee**DSM Discrepancy Resolution:**

We (AGEL) have raised DSM/REA related discrepancy with NRPC as below and same is yet to resolve.

Hence, we are requesting to kindly resolve below mentioned DSM related issue.

Summary:-

Sr no	Issue related	Impact Receivable from pool (In Rs.)	Impact payable to pool (In Rs.)
1	AvC related issue	12,27,522	-
2	DSM waive off in grid tripping event	2,58,30,293	
3	Actual Generation Related Issue	42,25,844	23,36,125
4	Schedule Mismatch Issue	33,26,364	44,645
5	Consider wrong contract rate for DSM calculation Issue	16,41,736	12,72,780
Total		3,62,51,759	36,53,550

1. AvC Related Issue: -

Sr No	period	Plant Name	Discrepancy	Issue highlighted on	Impact Receivable from pool (In Rs.)	Impact payable to pool (In Rs.)
1	10 to 16 Oct 2022	AHEJ4L 700MW	Not Consider 700MW AvC	1 Nov 2022	9,80,165	-
2	05 to 11 Dec 2022	AHEJ1L 390MW	Consider AvC 360MW instead of 390MW	30 Dec 2022	1,35,255	-
3	12 to 18 Dec 2022	AHEJ1L 390MW	Consider AvC 360MW instead of 390MW	05 Jan 2023	62,473	-
4	18 to 24 Sep 2023	SBSRC11PL Hapasas 300MW	Consider AvC 262.5MW instead of 272.5MW	09 Oct 2023	26,792	-
5	02 to 08 Oct 2023	SBSRC11PL Hapasas 300MW	Consider AvC 275 MW instead of 300MW	25 Oct 2023	22,837	-
Total					12,27,522	-

2. DSM waive off in grid tripping event: -

Sr No	period	Plant Name	Discrepancy	Issue highlighted on	Impact Receivable from pool (In Rs.)	Impact payable to pool (In Rs.)
1	12 to 18 Sep 2022	AHEJ2L 300MW	R Phase PT blast on PGCIL sub station on 17 Sep 2022 10:14	11 Oct 2022	73,22,058	
2	12 to 18 Sep 2022	AHEJ3L 300MW	Grid tripped from PGCIL end on 17 Sep and power reduce 278MW to 0MW from 10:15 to 15:00 on 17 Sep 2022	11 Oct 2022	8,14,965	-

3	9 to 15 Jan 2023	ASERJ1PL 300MW	Grid tripped from PGCIL end 15:18 to 18:30	31 Jan 2023	12,53,711		
4	9 to 15 Jan 2023	ASEJ5PL 200MW	Grid tripped from PGCIL end 15:18 to 16:52	31 Jan 2023	4,03,691		
5	9 to 15 Jan 2023	AHEJ4L 700MW	Grid tripped from PGCIL end 15:18 to 16:52	31 Jan 2023	50,87,713		
6	9 to 15 Jan 2023	ASEJOPL 450MW	Grid tripped from PGCIL end 11:15 to 12:15 & 13:00 to 14:30	31 Jan 2023	29,72,906		
7	9 to 15 Jan 2023	SBSRC11PL 300MW	Grid tripped from PGCIL end 15:18 to 17:23	31 Jan 2023	4,31,253		
8	13 to 19 Feb 2023	ASERJ1PL 300MW	Grid tripping from PGCIL end dated 19 th Feb 2023 from 12:39 hrs & 13:25	11 Mar 2023	8,04,149		
9	27 Feb to 05 Mar 2023	AHEJ4L	Load curtailed as per NRLDC instruction dated 27 Feb, 1 & 2 Mar	23 Mar 2023	18,32,200		
10	15 to 21 May 2023	ASERJ1PL 300MW	Grid tripping from PGCIL end dated 15 th May 2023 from 12:15 to 15:15	07 June 2023 & 22 Jan 2024	2,33,259		
11	15 to 21 May 2023	ASEJ5PL 200MW	Grid tripping from PGCIL end dated 15 th May 2023 from 12:00 to 15:10	07 June 2023 & 22 Jan 2024	7,58,204		
12	15 to 21 May 2023	ARERJL 200MW	Grid tripping from PGCIL end dated 15 th May 2023 from 12:00 to 15:19	07 June 2023 & 22 Jan 2024	6,54,333		
13	15 to 21 May 2023	ASE4L 50MW	Grid tripping from PGCIL end dated 15 th May 2023 from 12:00 to 15:19	07 June 2023 & 22 Jan 2024	1,51,564		
15	15 to 21 May 2023	ASEJ2L 50MW	Grid tripping from PGCIL end dated 15 th May 2023 from 12:00 to 15:19	07 June 2023 & 22 Jan 2024	7,49,758		
15	22 to 28 May 2023	AHEJ3L 300MW	Grid tripping from PGCIL end dated 28 th May 2023 from 15:40 to 18:30	29 Aug 2023 & 22 Jan 2024 on R2	62,602		
16	26 June to 02 July 2023	AHEJ3L 300MW	Grid tripping from PGCIL end dated 30 th June 2023 from 22:00 to 00:45	21 July 2023	3,69,669		
17	17 to 23 July 2023	ASE4L 50MW	Grid tripping from PGCIL end dated 20 th July 13:55 to 16:30	05 Aug 2023	2,36,452		
18	17 to 23 July 2023	ASEJ2L 50MW	Grid tripping from PGCIL end dated 20 th July 13:55 to 16:30	05 Aug 2023	4,02,107		
19	16 to 22 Oct 2023	ASERJ1PL 300MW	Grid Tripping from PGCIL end 16:45 to 18:15 dates 21 Oct 2023	10 Nov 2023	1,06,241		
20	30 Oct to 05 Nov 2023	AHEJ3L 300MW	Grid Tripping from PGCIL end 15:28 to 18:45 dates 31 Oct 2023	24 Nov 2023	11,83,458		
					Total	2,58,30,293	

3. Actual Generation Related Issue: -

Sr No	period	Plant Name	Discrepancy	Issue highlighted on	Impact Receivable from pool (In Rs.)	Impact payable to pool (In Rs.)
1	20 to 26 Feb 2023	AHEJ1L 390MW	Main Meter record less generation	04 April 2023 & 27 Nov 2023	12,39,326	-
2	06 to 12 Mar 2023	AHEJ1L 390MW	Main Meter record less generation	10 April 2023 & 27 Nov 2023	12,90,297	-
3	23 to 29 Oct 2023	ASEJ2PL PPA 150MW	wrong actual generation bifurcation on PPA & merchant plant	20 Nov 2023	16,96,221	-
4	23 to 29 Oct 2023	ASEJ2PL P2 150MW	wrong actual generation bifurcation on PPA & merchant plant	20 Nov 2023	-	23,36,125
5	12 to 18 DEC 2022 9 to 15 Jan 2023 30 Jan to 5 Feb 2023 6 to 12 Feb 2023 13 to 19 Feb 2023	AHEJ4L 700MW	Sum of Wind +Solar actual generation not matched with hybrid generation in supporting file	05-Jan-2023 31-Jan-2023 20-Feb-2023 28-Feb-2023 11-Mar-2023	0	0
6	10 to 16 April 2023 17 to 23 April 2023	AHEJ3L 300MW	In proper bifurcation of Wind & Solar Actual generation (Active Power in solar part during night Hours)	04-May-2023 09-May-2023	0	0
Total					42,25,844	23,36,125

4. Schedule Mismatch Issue:

Sr No	period	Plant Name	Discrepancy	Issue highlighted on	Impact Receivable from pool (In Rs.)	Impact payable to pool (In Rs.)
1	21 to 27 Aug 2023	AHEJ4L 700MW	Consider higher schedule of 148750 kWh for DSM calculation	11 Sep 2023	11,82,069	-
2	02 to 08 Oct 2023	AHEJ4L 700MW	Schedule Mismatch on 02 Oct _359750 Kwh Difference	25 Oct 2023	12,77,888	-
3	02 to 08 Oct 2023	ASEJ2L 50MW	Schedule Mismatch on 02 Oct _ - 64750 Kwh Difference	25 Oct 2023	-	20,787
4	02 to 08 Oct 2023	AHEJ3L 300MW	Schedule Mismatch on 02 Oct _124750 Kwh Difference	25 Oct 2023	3,35,169	-
5	25 Sep 2023 to 01 Oct 2023 R2	AHEJ2L 300MW	Schedule mismatch on 30 Sep_836000 kWh Difference	06 Dec 2023	3,64,420	-
6	25 Sep 2023 to 01 Oct 2023 R2	AHEJ3L 300MW	Schedule mismatch on 30 Sep_271000 kWh Difference	06 Dec 2023	1,66,818	-
7	25 Sep 2023 to 01 Oct 2023 R2	ASEJOPL 450MW	Schedule mismatch on 30 Sep_ - 3250 kWh Difference	06 Dec 2023	-	23,858
Total					33,26,364	44,645

5. Consider wrong contract rate for DSM calculation Issue:

Sr No	period	Plant Name	Discrepancy	Issue highlighted on	Impact Receivable from pool (In Rs.)	Impact payable to pool (In Rs.)
1	15 to 21 May 2023	ASEJ2PL Hapasasr 300MW	Wrong consider of Contract rate	07 June 2023 & 22 Jan 2024 on R2	2,23,818	-
2	23 to 29 Oct 2023	ASEJ2PL PPA 150MW	Consider Normal rate instead of PPA rate 2.61 Rs./kWh	20 Nov 2023	9,12,221	-
3	30 oct to 05 Nov 2023	ASEJ2PL PPA 150MW	Consider Normal rate instead of PPA rate 2.61 Rs./kWh	23 Nov 2023	-	6,39,097
4	06 to 12 Nov 2023	ASEJ2PL PPA 150MW	Consider Normal rate instead of PPA rate 2.61 Rs./kWh	14 Dec 2023	-	5,60,761
5	13 to 19 Nov 2023	ASEJ2PL PPA 150MW	Consider Normal rate instead of PPA rate 2.61 Rs./kWh	14 Dec 2023	2,39,469	-
6	20 to 26 Nov 2023	ASEJ2PL PPA 150MW	Consider Normal rate instead of PPA rate 2.61 Rs./kWh	14 Dec 2023	-	7,29,22
7	27 Nov to 03 Dec 23	ASEJ2PL PPA 150MW	Consider Normal rate instead of PPA rate 2.61 Rs./kWh	23 Dec 2023	2,66,228	-
Total					16,41,736	12,72,780

Sr. No	ENTITY	METER CODE	METER SR NO	ELEMENT	REMARK
1	BBMB	BB-68	NS-1059-A	220/66kV ICT-3(220kV) at Ballabgarh-BBMB	METER FAULTY
2		DL-51	NP-7762-A	220kV BTPS-1 at Ballabgarh-BBMB	METER FAULTY
3		BH-10	NS-1030-A	66 kV NFF-2 at Bhakra Left Bank	METER DATA NOT PROVIDED
4		PU-07	NP-1648-A	220kV Dhandari-1 at Jamalpur-BBMB	METER FAULTY
5		HR-03	NP-3024-A	ICT-2(220kV) at Narela-BBMB	TIME DRIFT
6		BB-20	NS-1045-A	220/132kV ICT-1(132kV) at Hissar-BBMB	METER READING NEAR TO ZERO, REPLACEMENT NEEDED
7		BB-22	NR-3642-A	220/132kV ICT-3(132kV) at Hissar-BBMB	METER READING NEAR TO ZERO, REPLACEMENT NEEDED
8		BB-24	NP-7196-A	220/132kV ICT-2(132kV) at Hissar-BBMB	METER READING NEAR TO ZERO, REPLACEMENT NEEDED
9		BB-25	NP-1351-A	220kV Hissar (IA)-1 at Hissar-BBMB	METER FAULTY
10		BB-44	NR-3854-A	220kV Bhiwani(HVPM)-1 at Bhiwani-BBMB	STATION NOT PROVIDING METER DATA
11		BB-45	NR-3582-A	220kV Bhiwani(HVPM)-2 at Bhiwani-BBMB	STATION NOT PROVIDING METER DATA
12		BB-07	NR-3271-A	220/33kV T/F-1 (220 kV) at Panipat-BBMB	TIME DRIFT
13		BB-74	NP-3135-A	220/66kV ICT-3(66kV) at Jagadhari-BBMB	METER READING NEAR TO ZERO
14		CH-02	NP-6582-A	66kV UT Chd-2 Sec28 at Dhulkote-BBMB	METER FAULTY
15		BB-35	NP-5051-A	220kV Faridabad GPS-2 at Samaypur-BBMB	METER FAULTY(READING HAS SPIKES SINCE LONG)
16		PU-26	WR-2164-A	220/66kV ICT-2(66kV) at Sangrur-BBMB	HAS OPPOSITE POLARITY
17		PJ-34	NS-1884-A	220/132kV ICT-1 (132kV) at Jalandhar-BBMB	HAS OPPOSITE POLARITY
18		PJ-36	NS-1898-A	220/132kV ICT-3 (132kV) at Jalandhar-BBMB	HAS OPPOSITE POLARITY
19		PJ-38	NS-1870-A	220/66kV ICT-1 (66kV) at Jalandhar-BBMB	HAS OPPOSITE POLARITY
20		PJ-39	NS-1862-A	220/66kV ICT-2 (66kV) at Jalandhar-BBMB	HAS OPPOSITE POLARITY
21		PJ-46	NS-1893-A	220/132kV ICT-2(132kV)	METER READING

				at Jamalpur-BBMB	ABRUPT
22		PJ-47	NS-1905-A	220/132kV ICT-3(132kV) at Jamalpur-BBMB	METER READING ABRUPT
23		GW-04	NP-1020-B	33 kV Nurpurbedi at Ganguwal HPS	TIME DRIFT
24	CHANDIGARH	CH-15	NP-1356-A	66 kV Mohali-1 at Chandigarh UT-Sec.39	TIME DRIFT OF 30 MINS
25		CH-16	NP-6573-A	66 kV Mohali-2 at Chandigarh UT-Sec.39	TIME DRIFT OF 30 MINS
26	DELHI	DL-73	NP-5182-A	400kV Dadri-1 at Harsh Vihar(Loni)-DTL	TIME DRIFT
27		DL-74	NP-1158-A	400kV Dadri-2 at Harsh Vihar(Loni)-DTL	TIME DRIFT
28	HARYANA	HY-17	NS-1016-A	400 kV Abdullapur-PG at Dipalpur-HVPNL	METER FAULTY
29		HP-25	NP-1406-A	220 kV Baddi ckt 1 at Pinjore-HVPN	METER FAULTY
30		HY-51	NR-3771-A	400 KV Jind(PG)-1 at Kirori(HVPNL)	TIME DRIFT
31	J&K	PU-36	NP-1883-A	220 kV Sarna at Hiranagar-PDD	METER DATA NOT PROVIDED
32		PU-35	NP-8534-A	220 kV Sarna at Udhampur-PDD	METER DATA NOT PROVIDED
33		JK-30	NP-5481-A	220 kV Kishenpur-PG-1 at Barn-PDD	TIME DRIFT
34		JK-31	NP-5482-A	220 kV Kishenpur-PG-2 at Barn-PDD	TIME DRIFT
35		JK-38	NP-5467-A	132 kV SEWA II CIRCUIT-1 at Mahanpur- PDD	TIME DRIFT
36		JK-39	NP-6195-A	132 kV SEWA II at Kathua-PDD\$	TIME DRIFT
37	HP	HP-07	NP-3137-A	132 kV Chohal at 132kV Hamirpur-HPSEB	METER FAULTY
38		HP-31	NP-6971-A	220kV Khodri-2 at Majhri- HPSEB	METER FAULTY
39		HP-09	NP-1869-A	132kV Kulhal at Majhri- HPSEB	METER FAULTY
40		HP-12	NP-1867-A	220 kV Pinjore-HVPN ckt 2 at Baddi(HP)	METER FAULTY
41		HP-34	NP-1392-A	132 kV Dehar at Kangoo- HPSEB	METER FAULTY
42	POWERGRID	HY-67	NS-1205-A	400/220 kV ICT-3 (400KV) at Kurukshetra PG	METER DATA NOT PROVIDED
43		MS-42	NR-3712-A	ICT-3(220 kV) 500MVA at Sohawal-PG	METER HAS OPPOSITE POLARITY
44		HY-68	NS-1458-A	400/220 kV ICT-3 (220KV) at Kurukshetra PG	METER DATA NOT PROVIDED
45		CH-23	NS-1518-A	220/66 kV ICT 1(66 kV) at Chandigarh(PG)	METER HAS OPPOSITE POLARITY
46		CH-25	NS-1533-A	220/66 kV ICT 2(66 kV) at Chandigarh(PG)	METER HAS OPPOSITE POLARITY

47		NU-19	NR-3977-A	400 kV Ratangarh(RVPNL)-II at Sikar-PG	BLANK FILE, METER FAULTY
48		PU-94	NP-3125-A	ICT-2 (220 kV) at Patiala-PG	READING 2/3RD
49		PJ-33	NS-1391-A	ICT-4 (220 kV)(500MVA) at Patiala-PG	METER DATA NOT PROVIDED
50		PU-96	NP-3158-A	ICT-1 (220 kV) at Amritsar-PG	HAS TIME DRIFT MORE THAN 1 HR
51		PJ-09	NR-3426-A	220kV Mohali-2 at Nalagarh-PG	BLANK FILE, METER FAULTY
52		NB-09	NR-3383-A	ICT-1 (400 kV) at Banala PG	METER READING LESS
53		LN-07	NS-1556-A	400kV Lahal (HP) ckt 1 at Chamba(PG)(Rajera)	METER FAULTY
54		LN-09	NS-1558-A	400kV Lahal (HP) ckt 2 at Chamba(PG)(Rajera)	METER FAULTY
55		HP-37	NR-3423-A	220kV HPSEB NANGAL-1 at Nalagarh-PG	TIME DRIFT
56	PUNJAB	PS-01	NP-8268-A	400 kV Jalandhar(PG) at Nakodar-PSEB	METER DATA NOT PROVIDED
57		PS-02	NP-8158-A	400 kV Kurukshetra(PG) at Nakodar-PSEB	METER DATA NOT PROVIDED
58		PU-46	NP-1871-A	132 kV Hamirpur at Chohal-PSEB	METER FAULTY
59		PS-03	NR-3469-A	400 kV Moga(PG) at Nakodar-PSEB	METER DATA NOT PROVIDED
60		PU-83	NP-1588-A	220 kV Jalandhar(PG)-1 at Kartarpur-PSEB	METER DATA NOT PROVIDED
61		PU-84	NP-1679-A	220 kV Jalandhar(PG)-2 at Kartarpur-PSEB	METER DATA NOT PROVIDED
62		PU-38	NS-2029-A	132 kV Kotla-2 at Ropar-PSEB	HAS OPPOSITE POLARITY
63	RAJASTHAN	RJ-86	NP-5029-A	220kV Hissar(BBMB) at Chirawa-RVPNL	METER DATA NOT PROVIDED
64		RD-19	NS-1404-A	400kV Fathegarh 3(PG) ckt 1 at Jaisalmer(RS)	METER DATA NOT PROVIDED
65		RD-20	NS-1322-A	400kV Fathegarh 3(PG) ckt 2 at Jaisalmer(RS)	METER DATA NOT PROVIDED
66		RH-19	NR-4472-A	400 kV Sikar (PG)-1 at Babai-RRVPNL	METER FAULTY
67	UPPCL	UP-30	NS-1578-A	220kV Agra-PG at Kirawali(Agra)-UPPCL	METER DATA NOT PROVIDED
68		UQ-20	NP-8123-A	400kV Lucknow(PG) at 400kV Lucknow-UPPCL	METER DATA NOT PROVIDED
69		NV-03	NR-4307-A	400 kV Lucknow-2 at Basti-UPPCI	TIME DRIFT
70		NV-04	NR-4304-A	400 kV Gorakhpur 2 at Basti-UPPCL	TIME DRIFT
71		MS-34	NS-1569-A	400kV Varanasi(PG) ckt 1 at Jaunpur(UP)	METER DATA NOT PROVIDED
72		MS-35	NS-1570-A	400kV Varanasi(PG) ckt 2 at Jaunpur(UP)	METER DATA NOT PROVIDED

73	UTTARAKHAND	UA-43	NP-1890-A	400kV Moradabad at Kashipur-UPCL	METER DATA NOT PROVIDED
74		UA-36	NP-1751-A	132kV Afzalgarh at Kalagarh-UPCL(Feeder-71)	TIME DRIFT
75		UA-37	NP-1584-A	132kV Sherkot at Kalagarh-UPCL(Feeder-72)	TIME DRIFT
