

I/33200/2024



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

सेवामें / To,
Members of Commercial Sub-Committee (As per List)
वाणिज्यिक उप-समिति के सभी सदस्य (संलग्न सूचीनुसार)

Date 23.01.2024

विषय: उ.क्षे.वि.स. की वाणिज्यिक उप-समिति की 48 वीं बैठक- बैठक के कार्यवृत्त।

Subject: 48th meeting of Commercial Sub-committee- Minutes of the meeting.

महोदय/ Sir,

उत्तर क्षेत्रीय विद्युत समिति की वाणिज्यिक उप-समिति की 48 वीं बैठक 04 दिसंबर, 2023 को 11:00 बजे एनआरपीसी कॉन्फ्रेंस हॉल, कटवारिया सराय, नई दिल्ली में आयोजित की गई थी। उपरोक्त बैठक के कार्यवृत्त संगलन हैं। यह कार्यवृत्त उत्तर क्षेत्रीय विद्युत समिति की वेबसाइट(<http://164.100.60.165>) पर भी उपलब्ध है।

The 48th meeting of Commercial Sub-Committee of NRPC was held on 04th December 2023 from 11:00 AM at NRPC conference hall, Katwaria Sarai, New Delhi. The minutes of meeting are enclosed herewith. The same are also available on NRPC website (<http://164.100.60.165>).

Enc.: As above.

भवदीय

Signed by Anzum Parwej
Date: 23-01-2024 11:40:33
Reason: Approved

(अंजुमपरवेज)
अधीक्षण अभियंता (वाणिज्य)

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**MINUTES OF MEETING
FOR
48thMEETING OF COMMERCIAL SUB-COMMITTEE OF NRPC**

ITEM-1 Confirmation of Minutes of 47th Meeting of Commercial Sub Committee of NRPC

- 1.1 EE(C) apprised that minute of 47th Commercial Sub-committee meeting were issued vide letter dated 04.10.2023 and no comments on minutes have been received till date.
- 1.2 Members confirmed the minutes of 47th meeting of Commercial Sub-committee 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:

“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:

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

- 2.2 EE(C) apprised that a methodology was deliberated in 212th OCC meeting, however, due to no consensus, matter was deferred to the upcoming CSC meeting. Further, present methodology shall be continued in the meanwhile and RTDA accounts from October, 2023 onwards would be revised after finalization of the said methodology.
- 2.3 GM, NRLDC apprised that a philosophy may be developed based on the similar lines as devised by SRPC.

Decision of Sub-committee:

- 2.4 After detailed deliberation it was decided for incorporating primary response in RTDA calculation, methodology for NR will be finalized in a separate meeting. Further, present methodology shall be continued in the meanwhile and RTDA accounts from October, 2023 onwards would be revised after finalization of the said methodology.

ITEM-3 Declaration of High Flow Season for FY 2023-24 (Agenda by NRPC Sectt.)

- 3.1 EE(C) apprised that High flow season for Regional Hydro generators of NR were finalized in the 212th OCC meeting and same was communicated to these regional entities vide NRPC letter dated 25.10.2023. There was some concern of NHPC in this matter regarding its URI-1 and URI-2 due to their atypical flow pattern than other Hydro plants.

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- 3.2 Representative from NHPC informed that as per the data made available the inflow is high for more than four months and requested to consider the high inflow period to be increased from the current period.
- 3.3 EE(C) opined that declaration of high inflow period for more months will have impact on beneficiary states in terms of PAF as generator would be able to declare DC for overload capacity of 10% for a period of more than 4 months.
- 3.4 After detailed deliberation, high inflow period for URI-1 and URI-2 was agreed for 15th March to 15th August.
- 3.5 Representative from Tehri informed that Tehri is a reservoir-based hydro power plant and during early stage of actual high inflow season, reservoir filling takes place and consequently plant is not run at overload capacity, whereas overload capacity is utilised in later stage of actual high demand season. Koteshwar lies in d/s of Tehri HPP and follows same flow pattern. In view of this, THDC requested to revise the high flow period for Tehri and Koteshwar HEP.

Decision of Sub-committee:

- 3.6 After detailed deliberation forum agreed on revising high inflow season for URI-1, URI-2, Tehri and Koteshwar. Revised high inflow season was declared by NRPC Sectt. vide letter dated 06.12.2023 (enclosed at **Annexure-I**).

ITEM-4 Declaration of High Flow Season for FY 2024-25 (Agenda by NRPC Sectt.)

- 4.1 EE(C) apprised that for the declaration of high inflow season for FY 2024-25, Regional Hydro generators of NR are requested to furnish 10-daily water inflow series for last 5 years (since January 2019) to NRPC Sectt. by 31.12.2023.
- 4.2 Declaration of High Flow Season for FY 2024-25 as per Regulation 45.8(a) of CERC (IEGC) Regulations, 2023, and Regulation 12.1(a) of CERC (Sharing of ISTS charges and losses) Regulations, 2020 would be taken up in 49th CSC meeting of NRPC.

For information of members.

ITEM-5 Methodology for Reactive Charge Calculation for Regional Entities in accordance with the CERC (IEGC) Regulations, 2023 (Agenda by NRPC Sectt.)

- 5.1 AEE(C) apprised the methodology followed by NRPC for the calculation of Reactive Energy charges in accordance with CERC (IEGC) Regulations, 2023 which was provisionally finalized in 212th OCC meeting. Further, all Regional Entities including Generating Stations are covered in Reactive Energy Compensation.
- 5.2 Detailed methodology was presented to the forum for Reactive energy charge calculation in line with IEGC, 2023 and details of the methodology are as described in the agenda for the meeting.
- 5.3 Further, as per Annexure -4(1(c)) of IEGC 2023

- a) "All the Inverter Based Resources (IBRs) covering wind, solar and energy storage shall ensure that they have the necessary capability, as per CEA Connectivity Standards, all the time including non-operating hours and night hours for solar. The active power consumed by these devices for purpose of providing reactive power support, when operating under synchronous condenser/night-mode, shall not be charged under deviations and shall be treated as transmission losses in the ISTS."
- b) In line with IEGC 2023, NRLDC to make a procedure to incorporate the treatment of active power for IBRs.

- 5.4 THDCIL apprised that as per decision taken in 44th TCC/47th NRPC (agenda B.8). DSM charges shall not be payable by Tehri for time it is running in synchronous condenser mode based on certification from NRLDC. THDCIL requested to continue with same philosophy.
- 5.5 Additionally, some garbage values have been observed in reactive energy meter data on a regular basis. Earlier such data was corrected by considering them as zero. NRLDC proposed to use check meter data in such cases if it not abruptly out of proportion whereas in other cases average of last week data may be considered.
- 5.6 Further, SJVN representative informed SEM installed by PowerGrid at Rampur HPS is taking reference voltage as 420kV in place of 400kV, causing discrepancy in Reactive Charge Compensation. EE(C), NRPC opined that concerned generators may take up the matter with PowerGrid/ CTU for making necessary modification to change the reference voltage to 400kV.

Decision of Sub-committee:

- 5.7 The presented methodology for calculation of reactive energy charges for regional entities including generators was finalized.
- 5.8 Any generator will not be levied DSM charges for the time it is running in synchronous condenser mode based on certification from NRLDC. NRLDC will make procedure for Treatment of Active Power Consumption for providing Reactive Power Support (Night mode operation/Condenser mode) for IBRs and shall include other generators (Hydro/Thermal/Gas) in the procedure when they are running in synchronous condenser mode.
- 5.9 Garbage values in reactive energy meter data to be incorporated by NRLDC as proposed above.

ITEM-6 Technical constraints in context to transmission deviation charge on Koteshwar HEP (Agenda by THDCIL)

- 6.1 THDC Representative apprised to forum that The CTU's bus reactor (125 MVAR) is installed at Koteshwar HEP switchyard and energy consumed/drawn by bus Reactor is being calculated in account of Koteshwar HEP but as Bus reactor is CTU's asset and deviation caused by this shouldn't be accounted to the generating plant.

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- 6.2 CTU representative informed that reactor was installed to overcome the fluctuation in over-voltages, therefore this was for the use by Koteshwar HEP.
- 6.3 EE(C) opined that although the reactor was installed by CTU for the use by Koteshwar HEP, it comes under plant auxiliary consumption as it was connected for the plant.

Decision of Sub-committee:

- 6.4 After detailed deliberations, it was decided that consumption by bus reactor will be treated in the same way as before since its consumption should come in the account of plant's auxiliary consumption.

ITEM-7 Delay in payment of Arrear Bills by PSPCL and interest on refund of arrear bills (Agenda by SJVNL)

- 7.1 Representative from SJVN apprised as SJVN is governed by the CERC regulations for Tariff Determination of their Projects and as per Clause 8(13) of Tariff regulation issued by CERC for the period 2014-19, Generators have to raise Arrear Bills within three months from the receipt of Tariff Order from CERC.

The amount under-recovered or over-recovered, along with simple interest at the rate equal to the bank rate as on 1st April of the respective year, shall be recovered or refunded by the generating company or the transmission licensee, as the case may be, in six equal monthly instalments starting within three months from the date of the tariff order issued by the Commission.

- 7.2 It was informed that PSPCL has wrongly interpreted the above clause by considering issue date of the bill to be 90th day from the date of the tariff order issued by the Commission instead of date on which bill is issued within 90 days after tariff order and therefore PSPCL is not in compliance with mentioned CERC regulation.
- 7.3 Representative from PSPCL agrees as per the clause practice followed by PSPCL is not in accordance with CERC regulations.

Decision of Sub-committee:

- 7.4 The matter was deliberated in detail and Forum agreed that PSPCL is not in compliance with CERC regulation as the regulation is clearly stating that bill can be raised within three months from the date of tariff order issued by the CERC.
- 7.5 PSPCL was advised to resolve this issue in accordance with CERC regulation.

ITEM-8 Rebate availed by Rajasthan DISCOMs (Agenda by NPCIL)

- 8.1 MS, NRPC stated that this agenda has been deliberated in previous NRPC and CSC meeting. Along with that a separate meeting was also conducted with concerned members and they were directed to resolve the issue bilaterally.
- 8.2 This agenda was not deliberated any further and decision was taken.

Decision of Sub-committee:

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- 8.3 Rajasthan DISCOMs are advised to follow the PPA terms & conditions. Since, rebate is not admissible in this particular case as per provisions of PPA, so they should consider releasing the outstanding amount in compliance to provisions of PPA.

ITEM-9 PPA expired with Delhi DISCOMs- Tata Power and BSES Rajdhani (Agenda by NPCIL)

- 9.1 NPCIL representative apprised The PPA with Delhi Transco Ltd (DTL) for all its DISCOMs was expired in April 2020. Since then, the renewal of PPA with the DISCOMs is pending. A petition has been filed in DERC by DISCOM on which hearing date is yet not fixed.
- 9.2 Since the hearing is pending in DERC, the matter was not taken up for further deliberation.

ITEM-10 Revision/ rationalization on allocation order (Agenda by NPCIL)

- 10.1 NPCIL representative apprised Madhya Pradesh (MPPMCL) has signed its PPA for 15 years. MPPMCL has been drawing power from UA quota since June 2018 as per MoP Order dated 28/5/2018 and is regularly paying monthly bills. While signing the PPA, MPPMCL requested NPCIL to increase its quota from Nuclear Power Stations.
- 10.2 EE(C) stated that allocation of power from unallocated quota is done by MoP, so a letter to MoP may be written from NRPC Sectt. on the basis of said request.

Decision of Sub-committee:

- 10.3 A letter to MoP from NRPC Sectt. may be written based on the request of NPCIL and state.

ITEM-11 Non-Opening of Letter of Credit

- 11.1 JKPCIL has not submitted Letter of Credit in favour of SJVNL, NPCIL, PGCIL which is a regulatory requirement. No representative from J&K was present in the meeting.
- 11.2 PGCIL NR-II informed outstanding payment of 79 Cr. was released by J&K on 24.11.2023.

ITEM-12 Timeline and procedure and payment related issues for Meter replacement by CTU/ PowerGrid (Agenda by NRLDC)

- 12.1 NRLDC representative stated that due to delay in replacement of faulty meter and to streamline the process of faulty meter replacement by CTU/ PGCIL, NRLDC requested for a SOP for meter replacement by CTU/ PGCIL.
- 12.2 It was observed that there is some confusion related to payment of replacement of fault meter by constituents in the provisions contained in Regulation 49(12(a)) of IEGC 2023. As pointed out by constituents in 67th NRPC meeting that CTU is billing to the regional entity directly.
- 12.3 A special meeting held on 04.07.2023 at NRLDC between NRLDC, CTU and PowerGrid, it was discussed that the standard price of IEM meters shall be finalized on any common forum or CTU/PGCIL may share the related document if the price is

already finalized since as per the new grid code IEGC 2023, regional entity have to pay meters cost directly to CTU/PGCIL.

- 12.4** Issue has been raised in 211th OCC dated 19.09.2023 and in latest 212th OCC dated 18.10.2023. However, no representative from CTUIL were present in the meeting.

Decision of Sub-committee:

- 12.5** MS NRPC expressed his concern regarding delay in Meter Replacement activities. He insisted that the SOP for meter replacement may be finalized by CTU at the earliest for hassle free and effective implementation of replacement activities.

ITEM-13 Status update on installation of standby meter and replacement of Vincom/Elster meters (Agenda by NRLDC)

- 13.1** There are multiple elements in Northern region where meters were installed only on one side of the element and standby meters are not available which poses a problem in validation of data. NRLDC requested CTU/PGCIL to install the meters.
- 13.2** As per the discussion in 67th NRPC meeting and as finalized in a special meeting held on 04.07.2023 between CTU, NRLDC and PGCIL at NRLDC, it was concluded that CTU/ PowerGrid shall install 38 nos. standby meters and provide replacement of 118 nos. ELSTER meters and 31 nos. VINCOM meters.
- 13.3** NRLDC flagged the issue in latest 212th OCC meeting and PowerGrid informed the forum that order has been placed and 38 standby meter will be install by next month i.e. by end of November 2023. For replacement of 118 nos. ELSTER meters and 31 nos. VINCOM meters, PO has been placed on 16th October 2023. Meter supply and installation of meters will take 3 months i.e. by end of December 2023.
- 13.4** PG informed that installation of 38 standby meter is in progress. PO has been placed in Oct' 23 for replacement of 118 nos. of Elster and 31 nos. VINCOM meters and installation will be done in next three months.

ITEM-14 Implementation of 5 min metering based on Technical specifications finalized by Joint Committee (Agenda by NRLDC)

- 14.1** NRLDC deliberated ongoing challenges in existing metering system in NR related to **operating life span of Elster/Vincom meters** as the meters are old (more than 10yrs) and also unavailability of Vendor in market for its software support.
- 14.2 Robust and completely integrated AMR infrastructure**, as current AMR in old installed in 2009-10 and due lack of software update and sim card problem, issue in data retrieval is arising hence in future with high pace of RE integration number of meters will increase and this AMR system will not be able to handle it. As not all existing meters in NR region are AMR compatible (e.g., SECURE, ELSTER).
- 14.3 Reactive Energy accounting in line with IEGC 2023**, Existing meters record Reactive power exchange on cumulative basis, not block-wise. VAR data validation and substitution in case of data discrepancy is an issue since meter data is on cumulative basis. In 5-minutes metering, reactive power recording and voltage

recording will be done block-wise, this will make it convenient for validation, substitution and accurate accounting of reactive energy.

- 14.4 Night mode operation/Synchronous condenser mode** for Var support, IEGC 2023 encourages Inverter Based Resources (IBRs) covering wind, solar, and energy storage to provide reactive power support during non-operating and night hours. As Var recording is on cumulative level (i.e. on day basis), it is difficult to capture actual VAR support provided and to provide exemption of active power consumption during that period.
- 14.5 Shortcomings in existing Meter Data Processing Software (MDP)**, As current MDP is outdated, its processing time is getting slow as the data size is increasing. It does not generate various report related to time drift, meter healthiness etc. Validation and substitution of reactive power feature is not available. Advanced features like automatic data validation in not available. Facilities like Big data analysis and retrieval of old data as per current requirement is not available and needs manual intervention.
- 14.6** NRLDC also presented deliberations in various forums in regard to implementation of 5 min metering, accounting and settlement including SAMAST report July 2016, CERC recommendation vide its order dated July 2018, Grid India report in Jan 2021 and Technical specification by Joint Committee in July 2022.
- 14.7** NRLDC concern was to have the clarity in regulations, as there is no inclusion of 5 min metering in CEA regulations. As recommended in various reports and considering high penetration of Renewable Energy (RE) in the near future, 5-minute meters and related infrastructure will be required for future implementation of 5-minute scheduling and accounting. Primary response of a generator can be captured more accurately with a 5 min SEM, since the response goes upto a max of 5 mins.
- 14.8** Adapting the TS of 5-minute meters as per the Joint Committee, which may be calibrated both for 5 min and 15 min recording will ensure seamless transition from 15 min to 5 min scheduling and settlement process.
- 14.9** Further, CTU had also raised the issue vide its letter dtd 24.07.2023 to NPC regarding confusion on 5 minute / 15-minute block, between CEA Metering Regulation and Technical specification for ISTS meters prepared by JC.
- 14.10** A meeting in this regard was held on 18.08.2023 between NPC(CEA), CTUIL and Grid-India. It was concluded that adopting a 5-minute Time Block for future meter procurement appears favorable. However, to ensure a comprehensive assessment, a meeting encompassing diverse perspectives from various stakeholders including generators, CERC, STUs, Discoms and meter manufacturers will be convened by CEA, reflecting the issue appropriately in CEA's (Installation and Operation of Meters) Regulations.
- 14.11** CTU stated that the issue of 5-minute Metering and AMR infrastructure was discussed in SRPC forum and the same was approved in SRPC and further the agenda is being put forward for approval in forthcoming 16th NCT meeting.

Decision of Sub-committee:

14.12 MS NRPC appreciated the concerns raised by NRLDC and expressed that robust metering and AMR infrastructure is must for accurate Energy accounting and timely issue of various energy accounts. He directed that the agenda be put in the next NRPC meeting for Approval.

ITEM-15 Nomination of Nodal officer by UP SLDC for meter data collection (Agenda by NRLDC)

15.1 NRLDC representative apprised This agenda was discussed in 44th Commercial sub-committee dated 14.02.2022 wherein it was deliberated to designate one/two nodal officer from each state for overall meter data coordination. However, till date, nomination of nodal officers has been received from all the states except SLDC, UP.

15.2 Further, it was deliberated in 212th OCC meeting in which it was informed some co-ordination issues has been observed within state and UPSLDC was requested to give nominations as agreed.

15.3 No representative from UPSLDC was present in the meeting.

ITEM-16 RLDC Fees & Charges Agenda Points (Agenda by NRLDC)**16.1 Change in RLDC Fees & Charges monthly billing philosophy on account of implementation GNA Regulations**

- a) NRLDC representative apprised the forum that CERC has passed order in Petition No. 17/SM/2023 viz. Removal of Difficulties for Recovery of RLDC Fee and Charges in pursuance of the provisions of the CERC (Fees and Charges of Regional Load Dispatch Centre and other related matters) Regulations, 2019 on 30.11.2023.
- b) In which, Hon'ble commission has directed that LDC charges for distribution licensees, buyers and sellers shall be calculated on the basis of their GNA quantum under clauses (b) and (c) of Regulation 30 and Regulation 31 of the RLDC Fee and Charges Regulations. The calculation of LDC charges for inter-State transmission licensees and generating stations shall continue to be carried out in terms of clauses (a) and (b) of Regulation 30 of the RLDC Fee and Charges Regulations.
- c) NRLDC representative further presented the below computation table for Discoms/Buyer category of Users i.e. based on GNA quantum.

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Sl No	Entity Name	Entity Type Name	Oct-23		Nov-23		Difference	
			Quantum (LTA/IC/ckt kM)	Monthly Bill Amount (₹)	Quantum (GNA/IC/ckt kM)	Monthly Bill Amount (₹)	Quantum (GNA/IC/ckt kM)	Monthly Bill Amount (₹)
1	Delhi	DL	6521.81	3328421	4678	2969604	-1843.81	-358817
2	Delhi Buyer(DMRC Ltd)	Buyer	99	50525	99	62845	0	12320
3	Delhi International Airport Limited	Buyer	33	16842	33	20948	0	4106
4	Haryana	DL	8922.96	4553853	6618	4201120	-2304.96	-352733
5	Himachal Pradesh	DL	1897.36	968322	1130	717326	-767.36	-250996
6	Punjab	DL	6879.95	3511198	5497	3489507	-1382.95	-21691
7	Rajasthan	DL	4911.66	2506677	5755	3653286	843.34	1146609
8	UT Chandigarh	DL	483.67	246842	342	217102	-141.67	-29740
9	UT J&K	DL	1934.26	987154	1977	1255004	42.74	267850
10	Uttar Pradesh	DL	13875.2	7081240	10165	6452764	-3710.2	-628476
11	Uttarakhand	DL	1335.05	681346	1402	889993	66.95	208647
12	NVVNL (SNA Nepal)	Buyer	16	8166	0	0	-16	-8166
13	Northern Central Railway	Buyer	141.53	72230	130	82524	-11.53	10294
14	National Fertilizers Limited	Buyer	5	2552	5	3174	0	622
15	HVDC Kurukshetra (PG)	Buyer	3.5	1786	0	0	-3.5	-1786
16	HVDC Agra (PG)	Buyer	2.5	1276	0	0	-2.5	-1276
17	HVDC BALIA (PG)	Buyer	1.01	515	0	0	-1.01	-515
18	HVDC BHIWADI(PG)	Buyer	1.01	515	0	0	-1.01	-515
19	HVDC Dadri (PG)	Buyer	0.8	408	0	0	-0.8	-408
20	HVDC Rihand (PG)	Buyer	0.8	408	0	0	-0.8	-408
21	PG-HVDC-NR	Buyer	0	0	8	5078	8	5078
	Total		47066	24020276	37839	24020275	-9227	-1

d) The following points were also elaborated for information and records.

- i. The GNA quantum allocated to Delhi is 4810 MW. However, DMRC and DIAL are registered as a separate User under the category of “Buyer” with NRLDC. Hence, Delhi’s GNA quantum is considered 4678 MW (i.e. after deduction of DMRC & DIAL quantum) and same has been bifurcated among BRPL, BYPL, TPDDL, NDMC & Railways) as per information received from Delhi SLDC.
- ii. Haryana’s total GNA quantum as per CTUIL website is 6913 MW (i.e. including 1495 MW from APL and 75 MW of Northern Railways). However, as per communication received from HPPC vide mail dated 30.11.2023, the 1495 MW of APL-Haryana has been reduced to 1200 MW due to change in PPA. Hence, the GNA quantum of Haryana has been considered 6618 MW (i.e. 5418+1200).
- iii. Due to grant of single GNA of 8 MW to “PG-HVDC-NR”, all the HVDC stations of NR have been der-registered and a single entity "PG-HVDC-NR" has been registered as per the details provided by PG-NR-1 Office (without levy of any registration fees). Scheduling, Energy Accounting and Deviation computation will also be carried out considering “PG-HVDC-NR” a single entity w.e.f. 04/12/2023.
- iv. NFL and NVVN (SNA for Nepal) have not been allocated any GNA quantum. However, both entity will be billed for their scheduling quantum of 5 MW (share from BBMB) and 16 MW for 10 months (as per Indo-Nepal treaty) considering deemed GNA respectively.
- v. MUNPL is registered as Seller at NRLDC and it has been granted GNA for full IC of 1320 MW by CTUIL. However, NRLDC is only scheduling its share

outside the UP (based on NRPC share allocation) through UP-SLDC. Hence, NRLDC shall raise the bill to MUNPL on the basis of % share (in MW) outside the UP i.e. based on previous month's allocation order (as per earlier practice).

16.2 Entry of payment information in respect of RLDC Fees & Charge Bill Payments

- a) NRLDC representative stated that after the Go-Live of Fees & Charges portal of Grid-India (POSOCO), NRLDC executives are regularly requesting all the Users for entering the Payment Details (i.e. date of payment, amount paid, UTR No., Rebate and TDS) in portal (<https://fc.posoco.in/FnCWeb/#/landing>) for all the payments made against NRLDC Fees & Charges Bills.
- b) However, despite of our repeated requests the 50% Users are not entering the details in the portal. He further added that many times it is experienced the User responds only after issuance of late payment surcharge bills by NRLDC that is raised mainly due to non-availability of payment information at NRLDC end.
- c) NRLDC representative requested all the members especially NTPC and NHPC Generating stations to enter the payment details in portal immediately after making the payment for smooth reconciliation of payments.
- d) MS, NRPC also supported and directed all the Users for timely providing the payment information to NRLDC.

ITEM-17 Issuance of NOC to Regional Generating Stations up to Deemed/Provisional GNA (Agenda by NRLDC)

- 17.1 NRLDC representative apprised the forum regarding issuance of NOC to regional entity generating stations which have been granted Connectivity /Deemed GNA /Provisional GNA by CTU.

ITEM-18 Uploading of GNA schedule by SLDCs in NOAR by 14:00hrs of D+1 on daily basis (Agenda by NRLDC)

- 18.1 NRLDC representative informed the forum that as per Clause 34.2 of Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2022 and amendments thereof, transmission charges for collective transactions shall be payable for drawal schedule over and above the GNA and bilateral T-GNA quantum.
- 18.2 The representative of NRLDC through the forum requested the SLDCs to upload each intra-state entity-wise detail of schedule under GNA in NOAR by 1400 hours of next day of delivery (D+1, where D is the day of delivery).

ITEM-19 Requisition of Advanced T-GNA Transactions on D-1 Day (Agenda by NRLDC)

- 19.1 NRLDC representative apprised the forum about the requisition timeline of advance T-GNA transactions.
- 19.2 The representative informed the forum that Advance T-GNA granted under Central Electricity Regulatory Commission (Connectivity and General Network Access to the

inter-State Transmission System) Regulations, 2022 needs to be scheduled on daily basis unlike Advance and FCFS applications approved under previous STOA regime, wherein schedule was combined with Access. In the GNA regime the applicant has the provision to schedule multiple PPAs under a single Advance T-GNA application.

- 19.3** Applicant needs to furnish time block wise requisition of approved Advance T-GNA application on D-1 day for D day. The same needs to be furnished by 09:00hrs on D-1 day as per clause (1)(j) Regulation 49 of Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023.
- 19.4** Member Secretary, NRPC and representative of NRLDC advised all the participants to provide requisition for the Advance T-GNA transactions as per timeline of IEGC.

ITEM-20 Status of Reconciliation of STOA charges as on 07.11.2023 (Agenda by NRLDC)

- 20.1** NRLDC representative apprised the forum that the letter regarding reconciliation of STU/SLDC disbursement and refund reconciliation statement to applicants vide reference no. NRLDC/STOA/2023-24/2A and NRLDC/STOA/2023-24/2B dated 25.10.23 for the Quarter-2 (01-07-23 to 30-09-23) have been sent through mail and statements have been uploaded on NRLDC website. NRLDC requested the applicants/STU/SLDCs to verify /check the reconciliation statement meticulously and reply with signed statement within due date and revert if any discrepancy is observed. In case of no response by the applicant/STU/SLDC, the same shall be considered deemed reconciled. Status of signed reconciliation statement from the applicants/STU/SLDC was also shared as per **Annexure-II**.

ITEM-21 Pool Account (Agenda by NRLDC)

21.1 NR Deviation and Ancillary Service Pool Account

- a) NRLDC representative informed the forum that all the transactions for Deviation Charges, Congestion Charge, Reactive Energy Exchanges and Ancillary Services (SRAS & TRAS) shall be made from the Regional Deviation and Ancillary Service Pool Account (A/c No. 33706352298, IFSC code: SBIN0013913, Bank: SBI, SOUTH EXTN, PART1, NEW DELHI).
- b) No separate bank account shall be maintained for Reactive Energy and Congestion Charge.

21.2 Status of Northern Region Deviation charges as on 30.11.2023

- a) NRLDC representative apprised the forum that Deviation charges have been fully settled up to week No. 33 (06/12/2023 to 12/12/2023).
- b) NRLDC representative intimated that outstanding of Rs. 146.33 Cr is pending against deviation charges from Jammu & Kashmir.
- c) No representative from Jammu & Kashmir was present in the meeting.
- d) Member secretary, NRPC advised all the defaulting entities to clear all the outstanding DSM charges at the earliest. He further stated that all payable utilities

should make timely payment to DSM Pool Account in accordance with CERC Regulations.

21.3 Status of Reactive energy charges as on 30.11.2023

- a) NRLDC representative apprised the forum that Reactive energy charges have been fully settled up to week No. 27 (29/09/2023 to 01/10/2023).
- b) Reactive Energy Charges partially settled from Week No-28 (02/10/2023 to 08/10/2023) to Week No-33 (06/11/2023 to 12/11/2023).
- c) Reactive Pool Deficit Rs. 7,49,94,208/-.

21.4 Status of Ancillary Services charges as on date 30.11.2023

- a) NRLDC representative apprised the forum that SRAS Charges (Receivable from Pool) are fully settled up to week 30 (16.10.23 to 22.10.23) of FY 2023-24 and an amount of ₹416.65 lakh for week 31 (23.10.2023 to 29.10.2023) to week 33 (06.11.2023 to 12.11.2023) is yet to be disbursed to the SRAS providers.
- b) NRLDC representative apprised the forum that TRAS Charges (Receivable from Pool) are fully settled up to week 28 (02.10.2023 to 08.10.2023) of FY 2023-24 and an amount of ₹7776.03 lakh for week 29 (09.10.2023 to 15.10.2023) to week 33 (06.11.2023 to 12.11.2023) of FY 2023-24 is yet to be disbursed to the TRAS providers.
- c) NRLDC requested Periodic (say Quarterly) issuance of account of interest charges for Deviation, Reactive, SRAS and TRAS to facilitate utilization of surplus amount to pay interest charges of Ancillary service (TRAS/SRAS) providers instead of transfer to PSDF.

21.5 Status of LC against Deviation charges liability

- a) Representative of NRLDC informed that as per Regulations 10(2) of CERC (Deviation Settlement Mechanism & related matter 2022) dated 22.03.2022 specifies:

-

Quote: "Any regional entity which at any time during the previous financial year fails to make payment of charges for deviation within the time specified in these regulations, shall be required to open a Letter of Credit (LC) equal to 110% of their average payable weekly liability for deviations in the previous financial year in favor of the concerned Regional Load Despatch Centre within a fortnight from the start of the current financial year."

- b) Unquote: 49 Entity default in payment during FY 2022-23. Default Entities were requested to open LC in line with regulation. Out of 49 entities only 28 entities open LC.
- c) Member secretary, NRPC advised all the defaulting entities to open the LC in accordance with CERC Regulations at the earliest.

21.6 Submission of Bank Account Details for disbursement of payments pertaining to pool accounts

- a) Representative NRLDC intimated that, Chandigarh & Railways have not submitted the bank account details for disbursement of payments from pool accounts through electronic mode even after several reminders & regular follow up through correspondences.
- b) No representative of Chandigarh & railways was present in the meeting.
- c) The sub-committee requested Chandigarh & Railways to provide bank account details at the earliest in order to get the timely payments from the pool accounts through electronic mode.

21.7 Monthly Reconciliation of pool accounts

- a) Representative of NRLDC informed that a separate web portal <https://poolar.nrlc.in/login> has been created in house for reconciliation of pool accounts and all the entities were provided with Username & Password to access the web portal to reconcile the accounts.
- b) Monthly reconciliation statement of the pool accounts is being published through the web portal. Reconciliation Statement up to October 2023 has been uploaded on the portal.
- c) Representative of NRLDC informed that, Reconciliation of pool accounts Azure Power, Delhi, Punjab, Uttar Pradesh, Ayana One, Mega Suryaurja, Nepal-NVVNL and Thar Surya1 are pending since June 2023. All Members are requested to reconcile the statement on monthly basis through the portal to avoid any dispute in future.
- d) The sub-committee requested all Members of Pool Accounts (DSM, RE, Congestion charge) to reconcile the statement on monthly basis through the portal to avoid any dispute in future. In case reconciliation is not done with in the due date, the same shall be considered as deemed reconciled.

ITEM-22 Compensation Mechanism for Secondary Fuel Oil Consumption for additional StartUps in excess of 7 Start-Ups and its sharing by Beneficiaries (Agenda by NRPC secretariat).

- 22.1 AEE(C) presented the Compensation mechanism for secondary fuel oil consumption which was based on relevant CERC regulation and 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".
- 22.2 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-III**.

Decision of Sub-committee:

22.3 Forum was informed that Secondary Fuel Compensation for Generators due to Multiple Start/ Stop of Units have not yet been issued. Now, it is being examined and compensation statement will be issued within 15 days.

ITEM-23 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)

23.1 NHPC representative stated that subsequent to truing up of ECR of various NHPC stations, DSM accounts may be revised using updated reference rate from data of true up of ECR.

23.2 EE(C) apprised that reference charge rate for calculation of DSM charges in case of RRAS/ TRAS generators is taken up from last data available in AS1 format. Further, as per Detailed Procedure for Ancillary Services Operation issued by NLDC (March 2016), Any post-facto revision in rates/charges by RRAS providers shall not be permitted. Although, such clear instructions regarding post-facto revision in reference rate based on revision in ECR is not mentioned in DSM regulations, 2022, NRPC secretariat is of the view that post-facto revision in reference rate should be implemented in the same spirit as that in Detailed Procedure for Ancillary Services Operation.

23.3 NHPC representative opined the matter may be taken up with CERC for clarification as it involves significant financial implication to NHPC.

Decision of Sub-committee:

23.4 NRPC secretariat will seek clarification from CERC on the matter.

ITEM-24 Regarding non- disbursement of SCED (Security Constrained Economic Dispatch) Benefits from July 2022 to October 2023 by Delhi SLDC to BYPL (Agenda by BYPL)

24.1 BYPL representative apprised Delhi SLDC has issued SCED disbursement advises from 1st July 2022 to 30th June 2023 amounting to Rs. 4,28,52,846, however, funds have not yet been disbursed by Delhi SLDC to BYPL.

24.2 Delhi SLDC representative informed although accounts are issued by DL-SLDC, their finance department has not disbursed the payments to BYPL for want of some observations/ clarifications. Further, he advised BYPL to take up this matter in Delhi SLDC commercial meeting.

24.3 EE(C) opined that this seems to be an internal administrative matter of Delhi SLDC rather than a regulatory matter, therefore it should be resolved by Delhi SLDC internally with their finance section.

Decision of Sub-committee:

24.4 BYPL will take up this matter in Delhi SLDC commercial meeting. Simultaneously, Delhi SLDC will resolve this matter with their finance section for disbursal of funds as per issued SCED disbursement advises.

I/33200/2024

ITEM-25 Singrauli stage III 2 X 800 MW project: Construction Power Drawl Scheme (Agenda by NTPC)

- 25.1** NTPC Representative apprised that a new project Singrauli Stage-III is coming up which will require construction power from February, 2024 onwards.
- 25.2** Construction power drawl scheme was presented (enclosed at **Annexure-IV**) in which it was informed that construction power will be taken from the miscellaneous feeder of 11kV from the operational stages of the plant and settlement for the drawl of power will be done with UPPCL (by DISCOM meter) and DSM related matter will be dealt based on NRLDC meter data.

Decision of Sub-committee:

- 25.3** The presented scheme for drawl of construction power for the project of Singrauli Stage-III was approved by forum.

Meeting ended with the thanks to the Chair.



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

To,

1. General Manager (O&M), NHPC Limited
2. General Manager, (O&M), THDC India Limited

विषय: Revised Declaration of High inflow period for Uri – I, II, Tehri and Koteshwar as for FY 2023-24- reg.

महोदय,

As per Regulation 45.8(a) of IEGC, 2023, high inflow season for regional Hydro Generating Stations of NR was declared for FY 2023-24 as per 10-daily water inflow series for last 5 years (since April 2018) submitted by HEPs and deliberation in 212th OCC meeting and the same was communicated vide NRPC letter of even no. dated 25.10.2023.

Subsequently, in 48th Commercial sub-committee meeting held on 04.12.2023 (additional agenda point 2), NHPC and THDC requested to review high inflow season for Uri-I & Uri-II, and Tehri & Koteshwar, respectively. The issue was deliberated in detail and the forum agreed on revising high inflow season for Uri-I, II, Tehri, Koteshwar and now the following season has declared for FY 2023-24 as per provisions contained in CERC (IEGC), Regulations 2023 and CERC (Sharing of ISTS Charges and Losses), Regulations, 2020:

Hydro Generating Station	FY 2023-24	
	Earlier Declared High Inflow Season	Revised High Inflow Season
Koteshwar	15 th June to 15 th October	September to December
Tehri	15 th June to 15 th October	September to December
Uri	15 th Mar to 15 th July	15 th March to 15 th August
Uri-II	15 th Mar to 15 th July	15 th March to 15 th August

Signed by Anzum Parwej

Date: 06-12-2023 13:06:42

Reason: Approved

(अंजुम परवेज)

अधीक्षण अभियंता (वाणिज्य)

Copy for information to: Executive Director, NRLDC

Status of Reconciliation of STOA charges as on 03.12.2023

List of applicants/STU/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	SLDC- Himachal Pradesh	26.10.2023
2	PTC India Ltd.	31.10.2023
3	Yogindera Power Ltd.	26.10.2023
4	Karnataka STU/SLDC	09.11.2023

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

STU/ SLDC	
S. No.	Name
1	Andhra Pradesh STU SLDC.
2	Delhi STU & SLDC.
3	Uttar Pradesh STU & SLDC.
4	Himachal Pradesh STU.
5	Jammu Kashmir STU SLDC
6	Uttarakhand STU SLDC
7	Haryana STU SLDC
8	Manipur STU SLDC
9	Telangana STU SLDC
10	Tamil Nadu STU SLDC
11	West Bengal STU SLDC
12	Rajasthan STU SLDC
13	Damodar Valley Corporation SLDC
14	Manipur STU SLDC
15	Madhya Pradesh STU & SLDC
16	Odisha STU & SLDC
17	Maharashtra STU SLDC
18	Gujarat SLDC

Applicants	
S. No.	Name
1	Arunachal Pradesh Power Corporation Pvt Ltd.
2	GMR Energy Trading Ltd.
3	Tata Power Trading Company Ltd.
4	Sandhya Hydro Power Project Balargha Pvt Ltd
5	SKS Power Generation Chhattisgarh Ltd
6	MB Power (Madhya Pradesh) Ltd
7	Hindustan Power Exchange Limited
8	NTPC Vidyut Vyapar Nigam Limited
9	Manikaran Power Limited
10	Indian Energy Exchange Ltd.
11	PSPCL
12	Power Exchange India Ltd.
13	Adani Enterprises Limited
14	U P Power Corporation Ltd
15	Tata Power Delhi Distribution Limited
16	Avaada Sunrays Energy Private Limited
17	Shubheksha Advisors Private Limited
18	GMR Bajoli Holi

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:

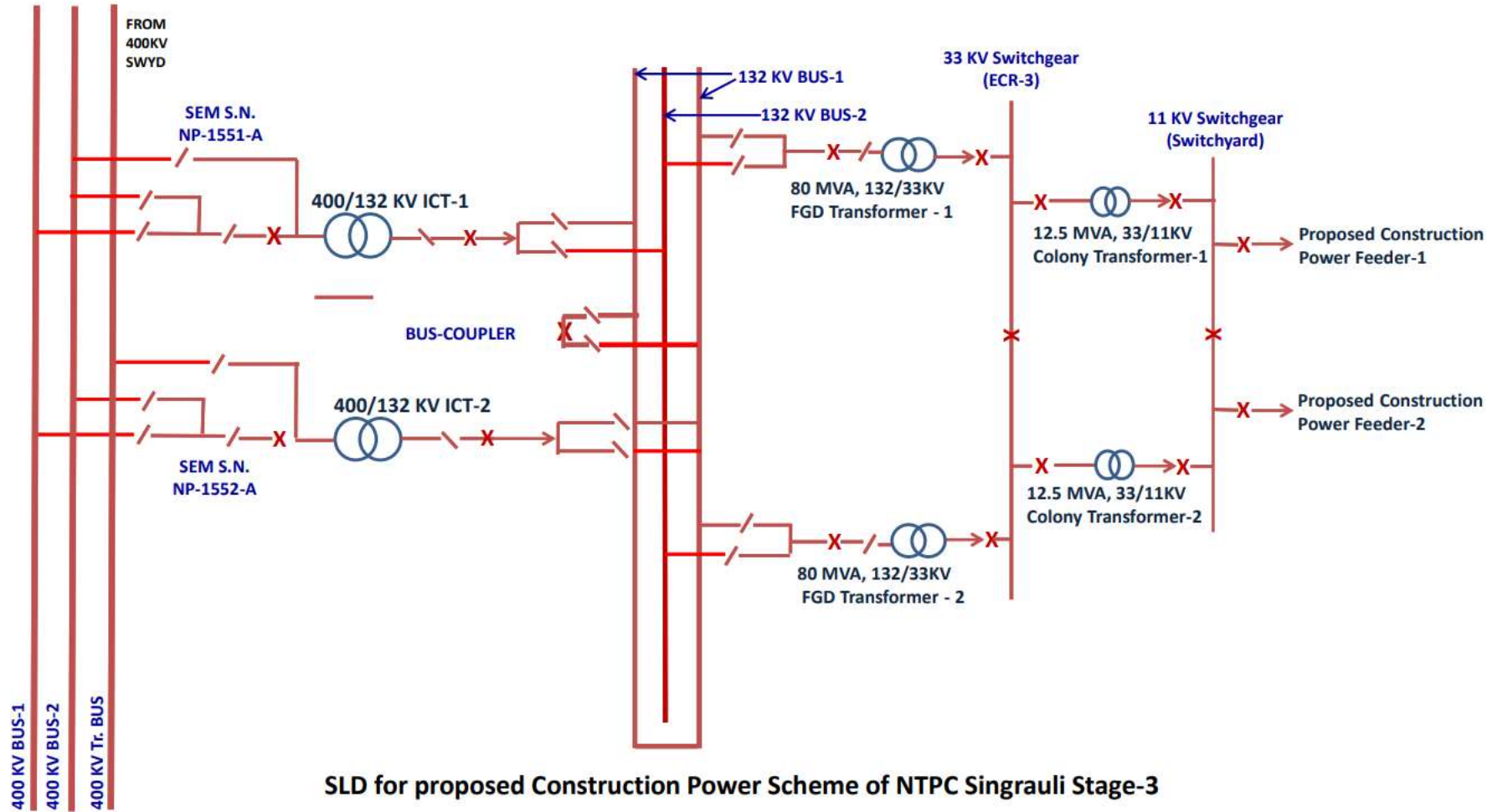
Beneficiary	A1	A2	A3	A4	Total
Weighted Average percentage share allocation	15 %	20 %	40 %	25 %	100 %
Number of start-ups attributable to RSDs (of beneficiary requisitioned below 55% of their entitlement during RSD)	8	12	6	2	
Payable Amount	$\frac{(8 * 0.15)}{D} * Y$	$\frac{(12 * 0.2)}{D} * Y$	$\frac{(6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

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

Construction Power Draw Scheme



Annexure-IV



SLD for proposed Construction Power Scheme of NTPC Singrauli Stage-3

