



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

दिनांक: 12 जुलाई, 2025

सेवा में / To,

उ.क्षे.वि.स. एवं टीसीसी के सभी सदस्य एवं विशेष आमंत्रित (संलग्न सूचीनुसार)

Members of NRPC & TCC & Special Invitees (As per List)

विषय: 55 वीं तकनीकी समन्वय समिति (टीसीसी) और 80 वीं उत्तरी क्षेत्रीय विद्युत समिति (एनआरपीसी) बैठक की कार्यसूची।

महोदय / महोदया,

1. The 55th meeting of Technical Co-ordination Committee (TCC) will be held on **17.07.2025 (09:30 AM) at Udaipur, Rajasthan.**

It is pertinent to mention that as per Conduct of Business Rules of NRPC, the representation in TCC shall be at the level of Technical Heads in State Utilities, Executive Directors / Chief General Managers or equivalent in PSUs / Technical Heads of Distribution company / Traders / IPPs and Chief Engineer in CEA.

2. The 80th meeting of Northern Regional Power Committee (NRPC) will be held on **18.07.2025 (09:30 AM) at same place.**

It is pertinent to mention that as per MoP gazette resolution dated 03.12.2021, the representative in NRPC from respective organizations should be either the head of the organization or at least a person not below the rank of a Director on the Board of the company/corporate entity except for Central Public Sector Undertakings (CPSUs) where representative could also be at the level of Executive Director.

3. Agenda for the above meetings is attached. **Kindly make it convenient to attend the same or depute suitable representative (as per above equivalency) for each meeting on your behalf. Deputed representative shall be able to provide input on agenda items related to their organization.**

4. The meetings are being hosted by MEIL Anpara Energy Ltd & Prayagraj Power Generation Company Ltd (PPGCL). Details of nodal officials are as below:

Sh. Arun Tholia, Executive Director (Commercial & Fuel); +91- 9560464455
Sh. Sanjay Bhargava, Head - Commercial & Regulatory, PPGCL; +91- 9212139731

भवदीय,

Signed by Dharmendra
Kumar Meena

Date: 12-07-2025 21:59:43

(डी. के. मीना)

अधीक्षण अभियंता (प्रचालन)

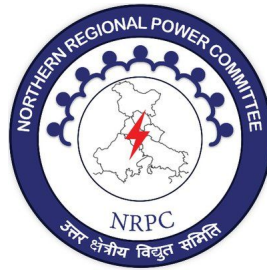
Copy to:

1. Sh. H Rajesh Prasad, IAS, Chairperson, NRPC and Principal Secretary to Government Power Development Department, J&K (jkpdd9@gmail.com)
2. Er. Raheela Wani, Chairperson, TCC and Managing Director, JKPTCL (mdjkptcl1@gmail.com)

55th TCC & 80th NRPC Meeting (17-18 July, 2025)–Agenda



उत्तर क्षेत्रीय विद्युत समिति
NORTHERN REGIONAL POWER COMMITTEE



Agenda of
55th meeting of
Technical Coordination Committee
&
80th meeting of
Northern Regional Power Committee
Date: 17-18 July 2025
Time: 09:30 AM
Venue- Udaipur, Rajasthan

55th TCC & 80th NRPC Meeting (17-18 July, 2025)–Agenda

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55th TCC & 80th NRPC Meeting (17-18 July, 2025)–Agenda**Agenda for TCC meeting****A.1 Approval of MoM of the 54th TCC & 79th NRPC meeting**

A.1.1 The minutes of the 54th TCC & 79th NRPC meeting (held on 30.05.2025) were issued vide letter dtd. 24.06.2025. Comment received from NPCIL is as below

Agenda	Text from Issued minutes of 54 th TCC & 79 th NRPC	NPCIL comment
A.7 Expediting Islanding scheme testing and implementation	A 7.7 <i>Accordingly, SLDCs are advised to maintain the island load at approximately 90% of the respective island generation. Based on current generation figures:</i> <i>i.NAPP: Generation ~190 MW → Target Load ≤ 170 MW</i> <i>ii.RAPP: Generation ~350 MW → Target Load ≤ 315 MW</i> <i>iii.Bawana: Generation ~300 MW → Target Load ≤ 270 MW</i>	With regard to point A 7.7, NPCIL has asked to rectify the RAPS GENERATION as 570MWe instead of 370MW and NAPS generation is 400MWe instead of 190MW. Accordingly, load requirement can be adjusted.

Decision required from Forum:

Forum may discuss on the comment received from the NPCIL on the issued MoM and may recommend to amend the same, if required.

55th TCC & 80th NRPC Meeting (17-18 July, 2025)–Agenda**A.2 Status of action taken on decisions of 54th TCC & 79th NRPC meeting (agenda NRPC Secretariat)**

A.2.1 Status on decisions of 54th TCC & 79th NRPC meeting is attached as **Annexure-A.I.**

Decision required from Forum:

Status of action taken may be discussed in meeting.

A.3 Returning of spare 400/220 kV 315 MVA ICT provided by POWERGRID to DTL & RVPNL (agenda by POWERGRID)

A.3.1 Powergrid has informed that 04 nos. 400/220/33 kV 315 MVA ICTs has been provided to DTL by POWERGRID in past 05 years as per request of DTL to ensure load management in National Capital Delhi. In additional to DTL, ICTs have been provided to other utilities also.

A.3.2 The present status of ICTs provided to DTL & other utilities and not returned to POWERGRID is given below:

S. No.	Details of ICT	Diverted from	Diverted to	Date of diversion
1	BHEL Make 315 MVA 400/220/33 KV ICT	Ludhiana	Tikrikalan (DTL) - Mundka	Apr-23
2	BHEL Make 315 MVA 400/220/33 KV ICT	Ludhiana	Jodhpur GSS Surpura (RVPNL)	Nov-23
3	CGL Make 315 MVA 400/220/33 KV ICT	Mandola	Bawana (DTL)	Jan-22
4	BHEL Make 315 MVA 400/220/33 KV ICT	Mandola	Tikrikalan (DTL) - Mundka	Feb-20
5	BHEL Make 315 MVA 400/220/33 KV ICT	Ballabgarh	Tikrikalan (DTL) - Mundka	Mar-24

A.3.3 POWERGRID Northern Region operation encompasses approximately 58,805 Ckt Kms of Transmission lines, 96 substations and transformation capacity of 2,11,327MVA. The Northern Region is critically important with substantial renewable capacity of around 69.9 GW. At present due to diversion of majority of spare 315 MVA ICT to DTL and other utilities, there are no spare transformer of similar capacity in Northern Region -I. This situation poses serious concern regarding the availability & reliability of ISTS Grid.

A.3.4 It is also to mention that certain transformers in the Northern Region are exhibiting elevated levels of fault gases. In such scenarios, the availability of spare transformers is critical to address any contingency and ensure grid stability.

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- A.3.5 In view of the above, returning of 04 nos. 400/220/33 kV 315 MVA ICTs provided to DTL & 01 no. 400/220/33 kV 315 MVA ICT provided to RVPNL may be deliberated by forum and firm timeline may be provided for the return of the same.

Decision required from Forum:

Members may deliberate.

- A.4 The demolition and reconstruction of residential and non-residential buildings at Bassi substation premises is proposed under the Rihand Transmission System through Additional Capitalization in the 2024-29 Tariff Block (agenda by POWERGRID)**

Background

- A.4.1 Powergrid has submitted that the residential and non-residential buildings at Bassi substation were constructed under the Rihand Transmission System between (1992 -1993) and are currently in service. These assets will be completing approximately 32 years of useful service life during the 2024-29 Tariff Block. Total 65 nos. residential quarters, 01 no transit camp & 01 no. recreation club was constructed at Bassi as residential & non-residential buildings.
- A.4.2 Subsequently, the demolition and reconstruction of residential and non-residential buildings within the substation premises at Ballabgarh, Bassi, Mandola and Hisar Substation were proposed during the 216th OCC meeting held on February 14, 2024, through Additional Capitalization in the 2019-24 Tariff Block. During the meeting, MS, NRPC, recommended that:

QUOTE

“He suggested that structural assessment of these projects may be carried out by an appropriate agency, such as NCCBM. Subsequently, the proposal may be taken up for approval in the NRPC meeting.”

UNQUOTE

(Minutes of the 216th OCC meeting is attached as **Annexure-A.II.**)

- A.4.3 NCCBM conducted an assessment at the Bassi substation, including the residential quarters, transit camp, and recreation center. The final assessment report was submitted to POWERGRID on 10th March 2025. NCCBM's recommendation for

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Bassi Substation is provided based on the findings of the detailed assessment report.

QUOTE

“Considering the buildings are load bearing structures, these quarters buildings are not safe for living in its present condition. Also, it seems that if the repair of these buildings will be done, it won’t increase the service life of the structures.”

UNQUOTE

(Detail assessment report of Bassi SS is attached as **Annexure-A.III**)

- A.4.4 In view of the above, it is proposed to demolish the old and deteriorated residential quarters and non-residential buildings (Transit Camp and Recreational Centre) at the Bassi station and rebuild them under the Rihand Transmission System through Additional Capitalization in the 2024-29 Tariff Block with an estimated cost of ₹27.41 crore including of GST. Detail cost estimate will be submitted after approval.

Tentative cost estimate for demolition and reconstruction of residential and non-residential buildings at Bassi SS:		
<u>Residential building</u>		
Description	No of quarter	Estimated cost in crore (Inclusive of GST)
Colony quarters (including demolition of old quarters & site development works)	23	22.66
<u>Non- Residential building</u>		
Transit Camp	1	2.33
Recreation Centre	1	2.42
Total: (Rs. in crore)		27.41

Proposal

- A.4.5 The proposal for demolishing and reconstructing the building at Bassi substation with a tentative cost estimate of ₹27.41 crore under ADD-CAP (2024-29) submitted to the NRPC forum for approval.

Decision required from Forum:

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Members may kindly approve.

A.5 Implementation of Travelling Wave Fault Locator (TWFL) in Critical Renewable & NCR lines in Northern Region-I under Additional Capitalisation for tariff block 2024-29 (Agenda by POWERGRID)

- A.5.1 In POWERGRID, Travelling Wave Fault Locators (TWFL) devices have been installed in critical 765kV and Inter-regional lines in earlier phase before 2015. These devices detect fault location with greater accuracy within limit of one tower span or 0.5 km distance.
- A.5.2 The technique used by TWFL is not affected by transpositions, mutual coupling of parallel lines or changes in line construction. It generates high quality result for all types of faults, including high resistance ground faults and open circuits. Therefore, implementation of TWFL in lines will help in locating the faults accurately in case of line faults and in turn will result in quick restoration, lower outage, and better reliability of system.
- A.5.3 In recent years with increased integration from Renewables, 765 kV Transmission lines corridors from Western Rajasthan up to NCR have been commissioned for evacuation RE power. Further, fault location mismatch in numerical relays has been observed in 400 kV lines having length more than 200 Km due to inherent accuracy issues resulting in substantial time in restoration after faults. Timely fault location and rectification in the above lines is very critical for ensuring smooth evacuation.
- A.5.4 Based on above mentioned criticality & other parameters like line terrain, power flow capacity, generator connectivity, tripping frequencies, installation of TWFL in 12 nos. 765 kV Lines, 10 nos. 400 kV lines & 03 nos. 220 kV lines in Northern Region -1 at at estimated expenditure of Rs 6.91 Cr has been proposed. List of lines proposed for installation of TWFL under Add Cap 2024-2029 is given below:–

765kV Transmission lines for TWL Installation:

Sl. No	Description of Line	Line Length (approx. in KM)	Criticality
1.	<u>765kV Transmission lines for TWL Installation:</u>		
1.1	Ajmer-Bhadla-2 Ckt-1&2	326	RE connected
1.2	Banaskantha-Chittorgarh Ckt-1&2	302	RE connected, Inter

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			regional line
1.3	Bhadla2-Fatehgarh2 Ckt-1 & 2	185	RE connected
1.4	Bhadla2-Fatehgarh2 Ckt-3&4	185	RE connected
1.5	Moga-Bikaner Ckt-1&2	367	RE connected, Intern regional line
1.6	Bhadla-1-Fatehgarh-2 Ckt-1&2	185	RE connected
2.	<u>400kV Transmission lines for TWL Installation</u>		
2.1	Dadri-Panipat Ckt-1&2	122	Generator and both end other utilities
2.2	Dehradun-Baghat S/C	164	Passing through forest area
2.3	Jaipur(S)-RAPP D S/C	122	Generator and both end other utilities
2.4	Dehradun-Roorkee S/C	79	Passing through forest area
2.5	Kota – Merta S/C	255	One end other utility
2.6	Kankroli – RAPP S/C	198	One end other utility
2.7	Saharanpur-Baghat	120	Passing through forest area
2.8	Roorkee-Kashipur Ckt-1& 2	150	One end other utility
3.	<u>220kV Transmission lines for TWL Installation</u>		
3.1	Anta-Bhilwara Ckt-1&2	186	Both end other utilities
3.2	RAPP(B)-Debari	230	Generator and both end other utilities

A.5.5 In view of the above, the proposal for installation of TWFL at an estimated cost of Rs. 6.91 Cr under Add Cap 2024-2029 may be approved.

Decision required from Forum:

Members may kindly approve.

A.6 Installation of 2 nos. of Synchronous Condensers (SynCon) units at 765/400/220kV Fatehgarh-II PS (agenda by CTUIL)

A.6.1 In the 71st NRPC meeting held on 29.01.24, it was deliberated that RE power is being integrated in fast pace country-wide and to ensure grid stability and provide inertial support in RE complex, requirement of dynamic compensation like Synchronous Condensers needs to be identified separately based on the detailed reactive power planning studies and the Short Circuit Ratios (SCRs) at different locations.

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- A.6.2 Accordingly, a committee was formed under Chairmanship of Member Secretary, NRPC along with members from CEA, NRPC, NRLDC, NLDC, NTPC, BHEL, CTU and STUs to do futuristic analysis for the requirement of Synchronous Condensers based on the inertia considerations for NR.
- A.6.3 Committee has concluded that in view of huge RE capacity addition in the Northern Region, particularly in Rajasthan, and the challenges thereafter like Oscillations in RE complexes, Reactive Power, Inertia & Short Circuit ratio (SCR) requirements must be addressed accordingly. The Committee is in, therefore, consensus of installation of SynCons in RE complexes because of the following advantages of SynCons :
- Enhancement in System Strength/ Short Circuit Ratio (SCR)
 - Fast Reactive Power Support during Faults/Transients
 - Increased Inertia and Frequency Response
 - Damping of Low Frequency Oscillations
 - Steady-state Reactive Power Support
- A.6.4 A methodology has been adopted to identify optimal location for installation of SynCons, which includes low SCR (<5), proximity of HVDC station, dynamic compensation requirement, real time grid issues etc.
- A.6.5 Based on the selection criteria discussed above, 7 nos. RE pooling stations were identified in RE complexes in Rajasthan for placement of SynCons with implementation schedule of 2026-27 to 2029-30, subject to availability of space at respective station.
- A.6.6 The committee recommends installation of first SynCon of 2 x+300/-200 MVar at 400kV level either at Fatehgarh-II (Priority-1) or Fatehgarh-I (Priority-2) Substation. The committee also recommended that CEA/MoP may consider the installation of proposed Syn Cons in TBCB or RTM mode similar to other transmission projects.
- A.6.7 The report was also presented in 52nd TCC & 77th NRPC Meeting 27-28th Dec'24 and Forum noted the Committee Report and recommended the same for further submission to CEA.
- A.6.8 In 36th CMETS-NR meeting. agenda for Installation of 2 nos. of SynCon units at 765/400/220kV Fatehgarh-II PS was discussed. Grid-India stated that they observed sustained oscillations on real time basis at Fatehgarh-II PS. Further, M/s Powergrid vide mail dated 05.10.24 confirmed the space for 2x(80x95sqm) for installation of 2 nos. 300MVar SynCon units at Fatehgarh-II PS

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- A.6.9 Considering Committee report recommendations comprising criteria for selection for installation of SynCons, Installation of 2 nos. of Synchronous Condensers (SynCon) units (2 x+300/-200 MVar) at 400kV level of 765/400/220kV Fatehgarh-II PS was agreed in 36th CMETS-NR meeting
- A.6.10 Estimated cost of scheme is about Rs 1160 Cr. with implementation timeframe of 30 months from allocation of project. (Scheme is attached as **Annexure A.IV**)

Decision required from Forum:

Members may deliberate.

A.7 Redundant communication for Narora Atomic Power Plant (NPCIL) (NAPP) (Agenda by CTUIL)

- A.7.1 Presently NAPP is connected with radial path through UPPTCL OPGW network and no redundant path is available. Connectivity of NAPP (NPCIL) is shown in **Figure-1**.
- A.7.2 Redundant communication for NAPP was deliberated in 2nd, 3rd & 4th CPM held on dtd 25.07.2022, 17.02.2023 & 25.07.2023 respectively and thereafter in 22nd, 23rd, 24th 25th 26th TesT of NRPC and special TeST of NRPC held on 28.06.2023, 23.10.2023, 09.02.2024, 25.07.2024, 23.12.2024 and 24.03.2025 respectively and in 72nd NRPC held on 19.04.2024.
- A.7.3 In the above meetings it was suggested that redundant communication path for NAPP can be created through fiber sharing from UPPTCL OPGW N/w i.e. NAPP – Simbhavli (UP) – Shatabdi Nagar (UP) – Modipuram (UP). At Modipuram (UP) ISTS FOTE is available. For the fiber sharing UPPTCL management approval was required.
- A.7.4 In the 23rd TeST held on 23.10.2023, NRPC requested CTU to send a letter to UPPTCL regarding Fibre Sharing on UPPTCL links for ISTS Communication/ Grid Operation purpose for redundant communication of NAPP ISGS node.
- A.7.5 In this regard CTU sent a letter dtd. 02.11.2023 to UPPTCL (attached at **Annexure-A.V**).
- A.7.6 In 72nd NRPC held on 19.04.2024, agenda was again deliberated where Forum suggested that as CEA is preparing Guidelines for Fiber Sharing Policy therefore this matter may be brought after issuance of Guidelines on fiber sharing policy by CEA. Later, CEA has published “Comprehensive guidelines for the usage and sharing of

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fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable for power system applications” in March’25.

- A.7.7 After the issuance of CEA Fiber sharing guidelines this agenda was again deliberated in 78th NRPC meeting held on 17.03.2025 and in Special TeST Meeting held on 24.03.2025. In the meetings forum suggested that CTU to again write letter to UPPTCL for sharing of fibers. CTU has sent a letter dtd. 09.04.2025 to UPPTCL in this regard (attached at **Annexure-A.VI**).
- A.7.8 UPPTCL vide letter 05.06.2025 provided their consent regarding sharing of 2 pairs of fibers on the following UPPTCL links for provide redundant communication to NAPP (NPCIL):
- Simbhavali (UP) - Shatabdi Nagar (UP)
 - Shatabdi Nagar (UP) - Modipuram (UP)-having ISTS FOTE
- A.7.9 UPPTCL has also given their consent to CTU to plan OPGW on 220kV NAPP (NPCIL) – Simbhavli UPPTCL line under ISTS (88 Km). (UPPTCL consent letter is attached at **Annexure-A.VII**).
- A.7.10 After receiving UPPTCL confirmation, CTUIL has prepared a scheme for redundant communication to NAPP (NPCIL) which is attached at **Annexure-A.VIII**. The scope of the scheme comprises of 88 Km OPGW (48F) and 2 No. of FOTE at Simbhavali (UP) and Shatabdi Nagar (UP).
- A.7.11 The estimated cost of the scheme is approx. **Rs. 6.45 Crs.** The Implementation time frame is **24 months from date of allocation**. After Review in NRPC, the Scheme shall be put up in NCT for approval in RTM mode to POWERGRID.

Connectivity of NAPP (NPCIL)

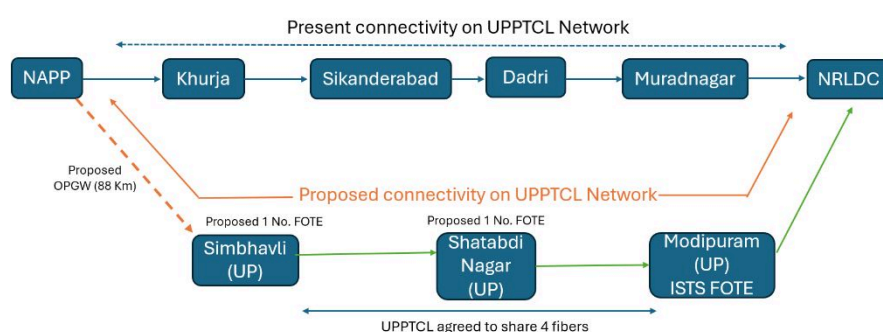


Figure-1

Decision required from Forum:

Members may deliberate.

A.8 Redundant communication for Saharanpur S/s (PG) (Agenda by CTUIL)

A.8.1 Saharanpur (PG) is presently connected with Roorkee and Dehradun (PG). On Saharanpur to Roorkee line, there is a single OPGW installed upto LILO point of Dehradun (PG) (16 Km). This creates a single point of failure in case of snapping of OPGW or damage of fiber.

Connectivity of Saharanpur S/s (PG) is shown in **Figure-2**.

A.8.2 Redundant communication for Saharanpur was deliberated in 2nd, 3rd & 4th CPM held on dtd 25.07.2022, 17.02.2023 & 25.07.2023 respectively and thereafter in 22nd, 23rd, 24th, 25th, 26th TeST of NRPC and special TeST of NRPC held on 28.06.2023, 23.10.2023, 09.02.2024, 25.07.2024, 23.12.2024 and 24.03.2025 respectively and in 72nd NRPC held on 19.04.2024.

A.8.3 In the above meetings it was suggested that redundant communication path for Saharanpur can be created by using 2 pair of fibers on following UPPTCL links:

- a. Saharanpur (PG)- Deoband (UP)
- b. Deoband (UP)- Saharanpur (UP)
- c. Saharanpur (UP) -Nanauta (UP)
- d. Nanauta (UP)-Shamli (UP)
- e. Shamli (UP) -Muradnagar (UP)-having ISTS FOTE

A.8.4 In the 23rd TeST held on 23.10.2023, NRPC requested CTU to send a letter to UPPTCL regarding Fibre Sharing on UPPTCL links for ISTS Communication/ Grid Operation purpose for redundant communication of Saharanpur.

A.8.5 In this regard CTU sent a letter dtd. 02.11.2023 to UPPTCL (attached at **Annexure-A.V**). In 72nd NRPC held on 19.04.2024, agenda was again deliberated where Forum suggested that as CEA is preparing Guidelines for Fiber Sharing Policy therefore this matter may be brought after issuance of Guidelines on fiber sharing policy by CEA. Later, CEA has published “Comprehensive guidelines for the usage and sharing of fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable for power system applications” in March’25.

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- A.8.6 After the issuance of CEA Fiber sharing guidelines this agenda was again deliberated in 78th NRPC meeting held on 17.03.2025 and in Special TeST Meeting held on 24.03.2024. In the meetings forum suggested that CTU to again write letter to UPPTCL for sharing of fibers. CTU has sent a letter dtd. 09.04.2025 to UPPTCL in this regard (attached at **Annexure-A.VI**).
- A.8.7 UPPTCL vide letter 05.06.2025 (attached at **Annexure-A.VII**) provided their consent regarding sharing of 2 pairs of fibers on the following UPPTCL links for provide redundant communication to Saharanpur:
- Saharanpur (PG)- Deoband (UP)
 - Deoband (UP)- Saharanpur (UP)
 - Saharanpur (UP) -Nanauta (UP)
 - Nanauta (UP)-Shamli (UP)
 - Shamli (UP) -Muradnagar (UP)-having ISTS FOTE
- A.8.8 After receiving UPPTCL confirmation, CTUIL has prepared a scheme for redundant communication to Saharanpur S/s which is attached at **Annexure-A.IX**. The scope of the scheme comprises of supply and installation of 5 No. of STM-16 FOTE at Saharanpur (PG), Deoband (UP), Saharanpur (UP), Nanauta (UP) and Shamli (UP).
- A.8.9 The estimated cost of the scheme is approx. **Rs. 2.10 Crs.** The Implementation time frame is **12 months from date of allocation**. After Review in NRPC, the Scheme shall be put up in NCT for approval in RTM mode to POWERGRID.

Redundant Communication for Saharanpur S/s (PG)

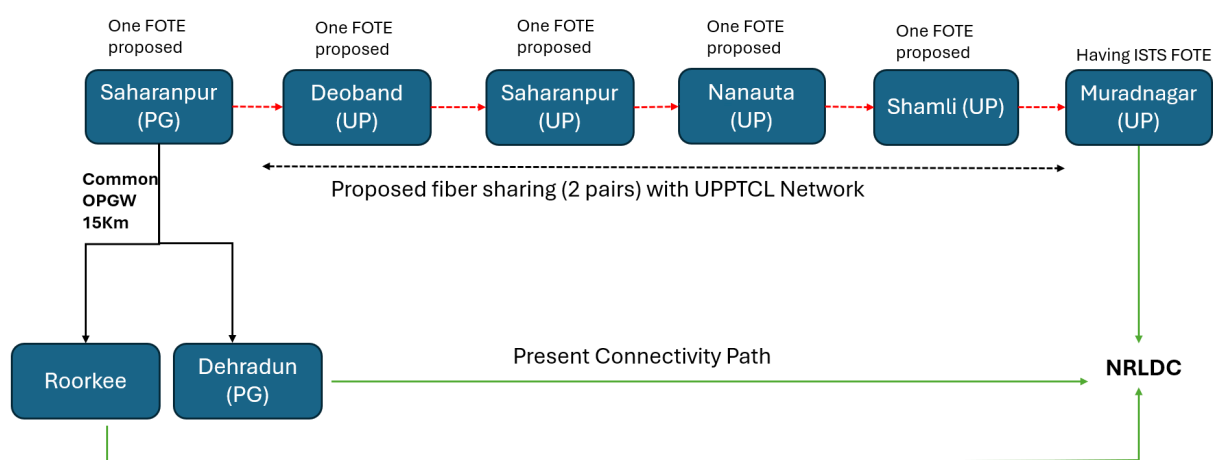


Figure-2

Decision required from Forum:

Members may deliberate.

A.9 Installation of OPGW on the existing lines of ISTS (Agenda by CTUIL)

- A.9.1 As per CEA letter dtd. 22.05.2024 (attached at **Annexure-A.X**), all the lines 110kV and above shall have Optical Ground Wire along with necessary terminal equipment for speech transmission, line protection, and data channels. Further as CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 primary path for tele-protection shall be on point-to-point Optical Ground Wire and alternative path shall be either on Power Line Carrier Communication or predefined physically diversified Optical Ground Wire paths. Subsequently CEA vide their letter dtd. 22.11.24 (attached at **Annexure-A.XI**) communicated that all the upcoming lines shall be provided with 48 Fiber OPGW to cater broadband and internet requirement in the rural areas and hinterlands to provide reliable Telecom connectivity.
- A.9.2 In the present scenario of increased RE penetration, frequent system expansion and strengthening, many of the existing lines are proposed for LILO frequently during transmission planning. Because of expeditious Transmission Project planning and execution, many times it is observed during execution of these LILO systems that main line is not having OPGW, which leads to issues such as compromising on the alternate path/ redundancy/ protection. Further installation on OPGW on the existing lines being LILOed are planned subsequently which leads to time mismatch and moreover these OPGW laying takes even more time as Live Line installation involved for OPGW on charged lines including ROW.
- A.9.3 CEA Chairperson in the 16th NPC meeting suggested that a comprehensive scheme may be prepared in place of multiple small schemes. Further it is prudent to take proactive action in view of increased RE penetration which requires reliable, fast and robust communication system to cater Power System and Grid-Operation applications requirement. The same to be put up in the TCC/RPC meetings for deliberation.
- A.9.4 **As per para (ii) above**, ISTS Transmission lines in Northern Region which are not having OPGW have been identified and same is attached at **Annexure-A.XII** which

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comprises RTM/TBCB/JV projects. Summary of transmission lines without OPGW is given below:

Sr. No.	Projects	Total Transmission Length (Kms)
1	RTM	4084
2	JV	742
Grand Total		4826

Tentative Estimated Cost: Rs. 265 Crs.

A.9.5 Accordingly, it's proposed that:

A.9.6 For ISTS lines CTU shall formulate the schemes of implementation of OPGW on existing system on which OPGW is not available, which could be taken up as follows:

- a. For TBCB projects, the scheme would be implemented by respective TSP under Change in Law / RTM
- b. For RTM projects, the scheme would be implemented by respective TSP under RTM

Decision required from Forum:

Members may deliberate.

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A.10.1 During the process of reporting pending RTUs directly to the Backup Control Centre by BBMB, it was observed that no spare Ethernet ports are available at Bhakra Left Bank Power House. As such, Powergrid informed that the existing communication equipment requires replacement with new one as the existing Fibrehome equipment does not support additional card installations. Further, PGCIL is in the process of replacement of Fibrehome equipment in line with the process for other communication equipment and OPGW laying under the ULDC Scheme.

A.10.2 Keeping in view of the above requirement, it is requested to add this additional requirement in the existing replacement of Fibrehome equipment by PowerGrid under ULDC Scheme, so that the remaining RTU's may be directly reported to Backup Control Centre of BBMB and any additional future requirement of Ethernet ports for connecting any other equipment may also be catered to.

A.10.3 It is also mentioned that this matter was discussed in 26th TeST Sub Committee Meeting wherein it was decided to put up this agenda in NRPC meeting for approval. (Minutes attached as **Annexure A.XIII**)

Decision required from Forum:

Members may deliberate.

A.11 High frequency operation of grid and TRAS mechanism (agenda by NRLDC)

A.11.1 The rapid increase in renewable energy penetration, combined with periods of low demand has created significant operational challenges for the grid as well as thermal generators in India. During weekends/holidays solar hours, the share of Variable RE in total available generation is high, consequently the requisitions from several inter-state thermal stations by beneficiary is nil or negligible resulting in injection schedules below the minimum technical levels (MTL). However, these generators are still required to provide firm supply during non-solar hours/evening peak hours.

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A.11.2 Backing down of conventional generation (thermal, gas and hydro) at regional and intrastate level through the de-centralized scheduling mechanism and through the centralized ancillary despatch (SRAS, TRAS) from NLDC to the participating generation fleet has been found to be thoroughly inadequate during these conditions. Even under these circumstances, the decision to de-commit thermal units during surplus solar hours is severely constrained by the limited thermal capacity for quick start and inadequacy of reserves during non-solar hours.

A.11.3 Hon'ble CERC through Petition No. 07/SM/2023 order dated 31st May 2023 expanded the scope for procurement of Ancillary Services under shortfall conditions of the CERC (Ancillary Services) Regulations, 2022. Through this order, generating stations other than those whose tariff is determined by CERC under Section 62, are eligible to participate under TRAS-Shortfall by declaring compensation charge in advance to the Nodal Agency.

A.11.4 Further as per Ancillary services regulation, 2022 clause 20(6) Nodal agency can despatch any power station under emergency conditions for reason of grid security. The relevant clause is quoted below:

"In case the Nodal Agency requires any generating station to provide Ancillary Services to meet the emergency conditions for reasons of grid security as per the provisions of the Grid Code, such generating station shall be compensated at the rate of the energy charge as determined under Section 62 of the Act or adopted under Section 63 of the Act, or at the rate of the compensation charge declared by the AS provider, as the case may be."

A.11.5 As per the regulatory provisions, the following real-time measures to maintain the system frequency within IEGC band in lean hours has been taken:

1. Trial run of generators are avoided on these low demand days.
2. Inter-State Hydro generation is moderated and backed down based on storage availability.
2. Inter-State thermal generating stations and thermal IPPs (Independent power producers) are being instructed to run the plant at 55% i.e. Minimum Turndown Level. The desired quantum required to reduce the plant schedule up to technical minimum is being incorporated/despached as Ancillary (Emergency) in the respective IPP schedule and beneficiaries schedule of those IPPs remains unchanged.
3. If further required, TRAS Down under emergency provision of Ancillary Service Regulation are being implemented in regional entity RE solar generating

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stations having installed capacity of 250 MW or more. While implementing the TRAS Down under emergency condition the schedule of their concerned beneficiaries shall remain unchanged.

4. Under Emergency condition TRAS down was implemented on several days from 25.05.2025 in ISTS RE solar generating stations having installed capacity of 250 MW or more. Details for Northern Region TRAS down instruction is attached as **Annexure A.XIV**.

Communication from NLDC side to all RPCs dated 29.05.2025 in this regard is attached as **Annexure A.XV**.

A.11.6 To integrate maximum VRE and also to provide support during evening peak hours, all the Inter-state thermal generating stations and IPPs are already operating at 55% of MTL during less requirement period. However, as per SERC regulations, there is no mandate for operation at 55% of MTL for Intra State thermal generators, except for few states such as Uttar Pradesh, Haryana, Telangana, Andhra Pradesh, Karnataka, Madhya Pradesh, and Maharashtra. Other states continue to operate their intra state plants above 55% even when frequency is high. There is still a margin of around 8000 to 10,000 MW in the intra-state generating stations at all India level, which are presently operating at 70% or 80% of their full load capacity. If the Intra State Generator will operate further till 55%, then it can create an additional cushion of 8000 to 10,000 MW for down reserve and which in turn can avoid invoking emergency ancillary on the solar plants.

A.11.7 As per the discussions held in CERC on 14.02.2025, following is the status of technical minimum support extended by intrastate thermal generating units (as per MoM of the meeting):

Quote

“Backing down of state-owned thermal generating stations up to Minimum Turndown level (MTL) (i.e., 55% of the MCR)

- (a) UPSLDC submitted that all of their intra-state thermal generators can achieve MTL of 55%.*
- (b) Delhi SLDC stated that they do not have any intra-state thermal generation and only have gas-based generating plants.*
- (c) Rajasthan SLDC submitted that only supercritical thermal generators are able to operate upto 55 % of MCR in state but sub-critical thermal generator are being operated upto 72% of MCR. Accordingly, out of 10711 MW installed capacity, capacity of 5421 MW cannot achieve MTL of 55%. Rajasthan Grid Code provides for MTL of 55% of thermal generating units.*

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On above, Chief (RA), CERC stated that SLDC should take up the issue with the generators regarding enforcement of operation of thermal generating units at MTL of 55%.

- (d) J&K SLDC submitted that they have only run of the river (RoR) generating plants and do not have any thermal generation.*
- (e) Punjab SLDC stated that out of 5070.45 MW installed capacity, capacity of 1909.05 MW cannot achieve MTL of 55% due to some technical issues. Further, there is no mandate under the State Grid Code for operation of thermal generating units at MTL of 55% and no part load compensation.*
- (f) Uttarakhand SLDC submitted that they have only two gas-based power plants and the MTL of 85% is being achieved in terms of the provisions of respective PPAs.*
- (g) HPSLDC submitted that they do not have any intra-state thermal generation.*
- (h) Haryana SLDC stated that units of PTPS which are legacy units, cannot achieve MTL of 55% due to some technical issues.*
- (i) Member (Technical), CERC pointed out that many older generating units including sub-critical units in the country are successfully operating at MTL of 55% and suggested that the SLDCs should further investigate and work towards addressing the issues in operation of state-owned thermal generating stations at MTL of 55%."*

Unquote

A.11.8 Still, it is being observed that number of intrastate generating units are not being backed down to 55% of their MCR and states continue to underdraw and there is also need for emergency TRAS support. Deviation in drawl from ISTS grid by Rajasthan during June 2025 is shown below:

Rajasthan Deviation and grid frequency

Date	Max. Under-drawl in day (ACE in MW)	Daily Deviation (Under-drawl) (MU)	>50.05 (% of time in day)	Max. freq. of day (Hz)
1-Jun-25	1650	5.4	25.5	50.37
2-Jun-25	1325	8.5	24.1	50.31
4-Jun-25	1650	8.0	28.6	50.35
9-Jun-25	915	4.2	26.4	50.31
17-Jun-25	2000	5.4	29.1	50.36
20-Jun-25	1015	11.8	24.7	50.32

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22-Jun-25	1382	9.8	21.8	50.34
23-Jun-25	1545	4.5	17.8	50.33
28-Jun-25	1603	6.3	20.7	50.32
29-Jun-25	1749	12.0	35.2	50.38

It may be noted that grid frequency continued to on the higher side in the month of June-2025 despite measures such as Emergency TRAS down by NLDC/RLDCs. The frequency profile for the month of June 2025 is shown below:

	<49.90	49.90-50.05	>50.05		Max	Min	Avg	FVI
1-Jun-25	10.0	64.6	25.5		50.37	49.64	50.01	0.091
2-Jun-25	8.7	67.2	24.1		50.31	49.75	50.01	0.081
3-Jun-25	5.4	74.9	19.7		50.28	49.75	50.00	0.037
4-Jun-25	5.2	66.1	28.6		50.35	49.70	50.02	0.064
5-Jun-25	15.3	73.9	10.8		50.15	49.56	49.96	0.085
6-Jun-25	2.1	82.5	15.5		50.17	49.83	50.00	0.023
7-Jun-25	6.8	78.3	14.9		50.15	49.71	49.99	0.036
8-Jun-25	7.4	78.3	14.4		50.19	49.67	49.99	0.046
9-Jun-25	3.9	69.6	26.4		50.31	49.76	50.02	0.050
10-Jun-25	3.2	71.8	25.0		50.28	49.83	50.02	0.039
11-Jun-25	4.4	84.9	10.7		50.20	49.77	49.99	0.028
12-Jun-25	15.3	74.8	9.9		50.12	49.65	49.97	0.058
13-Jun-25	5.3	74.4	20.2		50.26	49.79	50.01	0.043
14-Jun-25	10.1	76.0	13.9		50.23	49.67	49.99	0.044
15-Jun-25	9.7	70.1	20.2		50.26	49.78	50.00	0.054
16-Jun-25	7.6	69.4	23.0		50.22	49.75	50.00	0.043
17-Jun-25	5.8	65.2	29.1		50.36	49.72	50.03	0.082
18-Jun-25	1.0	69.0	30.0		50.25	49.85	50.02	0.041
19-Jun-25	5.9	77.0	17.1		50.25	49.78	50.00	0.046
20-Jun-25	1.7	73.6	24.7		50.32	49.83	50.02	0.044
21-Jun-25	10.2	78.2	11.6		50.28	49.78	49.99	0.047
22-Jun-25	6.8	71.4	21.8		50.34	49.80	50.01	0.059
23-Jun-25	15.8	66.4	17.8		50.33	49.72	49.99	0.079
24-Jun-25	5.2	61.4	33.5		50.27	49.78	50.02	0.054
25-Jun-25	14.2	73.6	12.2		50.28	49.72	49.98	0.071
26-Jun-25	3.8	77.0	19.2		50.28	49.77	50.01	0.039
27-Jun-25	15.2	67.8	17.1		50.22	49.55	49.98	0.081
28-Jun-25	12.6	66.7	20.7		50.32	49.76	49.99	0.069
29-Jun-25	4.6	60.2	35.2		50.38	49.71	50.04	0.109
30-Jun-25	3.5	71.4	25.0		50.29	49.83	50.02	0.041

A.11.9 A committee was also set up under the chairmanship of Member (Power Systems), CEA to evolve mechanism for ensuring Thermal Generation at Technical Minimum

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level for Grid Stability and RE Integration. Following are the major recommendations of the committee:

1. Short Term solutions (within 1 year):

- a) Implementation of minimum technical load (MTL) level of 55% immediately on pan-India basis and 40% as per phasing plan for all units, irrespective of their ownership at Intrastate/Interstate level and establishment of monitoring mechanism to ensure compliance with the CEA (Flexible Operation of Coal based Thermal Power Generating Units) Regulations, 2023. Exemption, if any, may be granted by SERC/CERC on technical ground.
- b) State Grid Codes shall be aligned with the Central Electricity Authority (CEA) “Flexible Operation of Coal based Thermal Power Generating Units” regulation 2022, notified in January 2023 and IEGC 2023. Suitable directions needs to be issued to SERCs by Ministry of Power/CEA to notify commercial compensation mechanism as per CEA guidelines to ensure the MTL of 55%, which in force from 01.02.2024 as per CEA (Flexible Operation of Coal based Thermal Power Generating Units) Regulation 2023 on sustained basis.
- c) Generators maintaining MTL of 40-45% may be given more preference (bypassing Merit Order when required for maintaining down reserves) and units may be kept on bar.
- d) Directions from RPCs may be issued to existing PSPs to make all pumps operational and also use as a load during solar hours as envisaged in Optimal Generation Mix Report of CEA.
- e) Time lines for scheduling for all Intra State generators also need to be streamlined/harmonized with CERC IEGC Regulation 2023 which will ensure equitable comparison and similar provisions of scheduling of power.
- f) There is a need to create equitable balance between the supply obligation of generators under IEGC Regulation 2023 as well as offtake obligation of drawing entities/ beneficiaries of the generators. Beneficiaries requisitioning power during non-solar hours from an ISGS shall have Offtake obligations from those stations during solar hours.

Beneficiaries may be mandated to maintain a minimum requisition as percentage of maximum requisition in a day, during the lean hours to ensure operationally reasonably schedule during lean hours and availability in non-solar hours. If the ratio cannot be maintained, one or more units from that station could be allowed to be taken under reserve shutdown to replenish down reserves. Once the unit is taken under reserve shut down, the aggregate requisition by beneficiaries in that station should be restricted to the declared capacity corresponding to the units on bar in that station. The proposed ratio of minimum and maximum requisition by the beneficiary in a generating stations during a day may be 40%.

- g) De-commitment of the Thermal units through SCUC is required to be included in regulatory provisions (CERC/SERC). The unit which is not committed under

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SCUC by NLDC 1500 hrs on day ahead and its schedule remains below MTL level by 2200 hrs on day ahead basis may be allowed to de-commit. The time between 1500 hrs and 2200 hrs would be the time available to the beneficiaries to revise their schedules to either support the unit by giving schedule above MTL or reduce their schedule from those units. The de-committed unit will have no supply obligation while it will be able to maintain its DC.

- h) Optimal number of thermal units may be kept on bar during solar hours by NLDC/RLDC/SLDCs to meet non-solar hours demand. Excess generation is leading to frequency excursions. Empowering NLDC/RLDC/SLDC to take out units under exigencies.
 - i) Suitable provisions may be provided for higher DSM charges on entities for overinjection or under-drawl by the entities when the grid frequency exceeds 50.05 Hz during solar hours/off-peak hours, irrespective of the nature (both RE and non-RE) of the entities. However, under-injection/over-drawl by the entities when the grid frequency exceeds 50.05 Hz during solar hours/off-peak hours, irrespective of the entity type (RE or non-RE), should attract a lesser penalty and incentivization may be considered. Further, during the schedule revision under TRAS Emergency provision, over injection may not be allowed and the volume limit may be made as Zero during such time period.
 - j) Necessary Regulatory provisions for participation of all ISTS & InSTS generators for giving Ancillary Service support to the Grid are required. Ancillary service regulations should be brought out by SERC for intra state level in line with CERC Ancillary Service Regulation. TRAS Shortfall & TRAS Emergency needs to be brought out by all SERC which may include backing down of RE as last resort. Suitable directions needs to be issued to SERCs by Ministry of Power/CEA in this regard.
 - k) NTPC Ltd. shall develop and share Standards Operating Procedure for implementation of 55% minimum turn down level in intrastate thermal power stations. Training program to be conducted in NPTI with support from NTPC Ltd. for employees of state thermal generators/IPPs for running intra state plants upto 55% MTL.
 - l) Energy storage capacity to be created/ augmented in interstate as well as intra-state system. States may accelerate the commissioning of the required storage capacities.
2. Long Term solutions (Beyond 1 year):
- a) Ensuring 40% MTL for all coal based thermal generators both at ISTS & InSTS on sustained basis. Other technological intervention may be considered by generators (storage etc.). Monitoring of the same has to be done rigorously.
 - b) Two shift operation/taking out units on weekends/holidays/high wind season needs to be implemented. Before implementation two shift operation of thermal Generating units must be performed on pilot basis in each region and potential damage including wear & tear, O&M, and plant life spans should be thoroughly examined before final implementation. Wear & tear, O&M, plant life spans and cost implications may be properly recorded during pilot two shift operation.

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- c) Peaking capacity may be considered with technical and commercial aspects with well-defined rules. This will further optimise number of units on bar, ensuring MTL at solar hours and also enable the states to meet the evening peak demand.
- d) Energy storage (BESS, PSP etc.) need to be promoted rigorously to integrate the RE targets. BESS installation in existing thermal stations (Both Inter and Intra State thermal stations) may be one of the options for storing excess energy during solar hours.
- e) Each control area needs to maintain the reserves (Up & Down) as calculated by NLDC in different timeframes to control and manage the deviations and other grid parameters.
- f) Demand response needs to be promoted. Initially large industries with captive generation may be focused.
- g) TOD tariff with lower tariff during solar hours and higher tariff during evening needs to be implemented by all SERCs.

Decision required from Forum:

Forum may deliberate on the above recommendations and direct the concerned members to act accordingly. Members may please discuss.

A.12 Transmission Line outage due to Tower collapse in Northern region (agenda by NRLDC)

A.12.1 Several important transmission lines in the Northern Region are under prolonged outage

due to tower collapse. The extended non-availability of these elements is impacting grid

reliability, load transfer capability, and in some cases RE evacuation.

A.12.2 As per the CERC Standards of Performance, the restoration of transmission lines in plain

terrain is to be completed within 30 days whereas it shall not exceed 12 days when restoration is through Emergency Restoration System (ERS). However, in many cases, these timelines are significantly exceeded.

Details of Key Transmission Line Outages (As on 09.07.2025):

Sr. No.	Element	Owner	Outage Date	No. of Days Out	Reason	Impact on grid operation

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1	220 kV Gazipur (DTL) – Sahibabad (UP)	UPPTC L	30-04-2022	1166	Bending of tower no. 4	Supply redundancy reduced
2	220kV Gazipur(DTL)-Noida Sec. 62				Tower tilted at location no. 10	
3	220 kV Kishenpur (PG) – Mir Bazar (PDD) Ckt-1	JKPTC L	21-06-2024	383	Tower foundation damaged at loc. no. KP-196	Supply redundancy reduced
4	400 kV Moradabad (UP) – Kashipur (UK) Ckt-1	PTCUL	18-04-2025	80	Tower collapse at loc. no. 94	Supply redundancy reduced
5	400 kV Jaisalmer – Barmer (RS) Ckt-2	RRVPN L	01-05-2025	69	Tower collapse at 12 locations (Loc. no. 70–81)	Issues in evacuation of RE power especially during high wind generation
6	400 kV Jaisalmer – Barmer (RS) Ckt-1		01-05-2025	69	Tower collapse at 12 locations (Loc. no. 70–81)	
7	400 kV Babai (RS) – Bhiwani (PG) Ckt-1	NRSS3 6	13-06-2025	26	Collapse of tower no. 300 & 301	Increases loading of already constrained 765/400kV Bhiwani ICTs

A.12.3 Further, it may be noted that following lines were also under prolonged outage due to tower damage during this summer. These lines were under outage for more than 12 days which is the timeline as per CERC Standards of Performance for restoration of transmission lines on ERS.

Sr. No	Element	Owner	Outage Date	No. of Days Out	Reason	Impact on grid operation
1	400 KV Bhinmal(PG)-Barmer(RS) (RS) Ckt-1	RRVPN L	05-05-2025	30	Tower no. 101 collapsed	Need for removal of bypass of 400kV Kankroli-
2	400 KV		05-05-	30		

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	Bhinmal(PG)- Barmer(RS) (RS) Ckt-2		2025			Zerda at 400kV Bhinmal.
3	400 KV Orai- Paricha (UP) Ckt-1	UPPTC L	11-05- 2025	19	03 no. Tower bend at (Loc. no. 55, 56, 57)	Increase in Supply redundancy reduced
4	400 KV Orai- Paricha (UP) Ckt-2		11-05- 2025	19		
5	400 KV Dadri-Loni Harsh Vihar (NTPC) Ckt-1	NTPC	21-05- 2025	31	Tower no. 24 collapsed	Load shifted to Mandola and Maharanibag h. Issues when Delhi demand >7500MW
6	400 KV Dadri-Loni Harsh Vihar(DV) (NTPC) Ckt-2		21-05- 2025	31	Tower no. 24 collapsed	
7	400 KV Unnao- Panki (UP) Ckt-1	UPPTC L	30-05- 2025	27	Tower bent/damage d (Loc. 108 to 112)	Supply redundancy reduced
8	400 KV Mahindergarh(APL) -Bhiwani(PG) (ATIL) Ckt-1	ATIL	13-06- 2025	21	Tower leg and cross- arm bend at Tower no. 135	Increases loading of already constrained 765/400kV Bhiwani ICTs
9	400 KV Mahindergarh(APL) -Bhiwani(PG) (ATIL) Ckt-2		13-06- 2025	21		
10	400 KV Babai(RS)- Bhiwani(PG) Ckt-2	NRSS3 6	13-06- 2025	17	Tower no. 300 and 301 collapsed	

A.12.4 To ensure timely revival of critical transmission infrastructure, immediate restoration plans should be finalized and shared by the respective transmission licensees. The use of ERS should be prioritized wherever feasible to enable interim restoration and minimize prolonged outages. Additionally, transmission licensees must focus on strengthening tower foundation designs, particularly in regions vulnerable to shifting sand dunes or weak soil conditions. Enhanced patrolling and preventive maintenance practices must also be adopted to proactively identify and address structural vulnerabilities.

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A.12.5 During 53rd TCC and 78th NRPC meeting held on 30.05.2025, Member (GO&D), CEA, noted that such issues are becoming increasingly common and stressed on the need for enhanced patrolling and monitoring. He advised Rajasthan to strengthen preparedness in light of the growing number of EHV lines in the region. He also cautioned that prolonged outages of load-serving lines could severely impact Rajasthan's power drawl from the grid and supply to consumers.

A.12.6 Rajasthan representative informed that three ERS sets have been ordered and are expected to be delivered by August 2025. These will significantly reduce outage durations in future incidents.

Decision required from Forum:

Forum is requested to advise all concerned licensees and utilities to strictly adhere to the CERC restoration timelines, deploy adequate resources and manpower for expedited restoration, and regularly update progress to NRPC and NRLDC.

A.13 Expediting transmission system related to evacuation of RE power in Western Rajasthan (agenda by NRLDC)

A.13.1 In line with Govt. of India targets for renewable energy integration, majority of the RE power at ISTS level is being commissioned in Western Rajasthan area. A total of 22.24 GW of ISTS connected RE generation in Rajasthan has been commissioned and being scheduled by NRLDC as on 03.07.2025. The agenda related to need for matching commissioning of transmission system in line with the rapid pace of integration of RE generation has also been deliberated. However, there continues to be delay in commissioning of planned RE evacuation transmission system and restriction has to be imposed on the RE generation that can be safely evacuated due to non-availability of associated transmission system (ATS).

A.13.2 It may be noted that the original SCOD of phase-II-Part G and Part G1 was Nov-23 and phase-II-Part E was Sept-24, but Tr. System of phase-II Part G and Part E is not yet commissioned and delayed by ~21 months and 11 months respectively, same is summarized in below table:

Transmission System	Implementing Agency	SCOD	Revised Anticipated COD
Phase-II-Part E	SPV: POWERGRID Bhadla Sikar Transmission Limited (PBSTL)	Sep-24	Aug-25
Phase-II-Part G	SPV Name: POWERGRID Narela	Nov-23	Aug-25

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	Transmission Ltd.		
Phase-II-Part G1	POWERGRID	Nov-23	Jul-25

A.13.3 Due to this significant delay in commissioning of the planned transmission system, considerable quantum of RE power in Rajasthan REZ is getting bottlenecked. Details of present RE capacity commissioned in Rajasthan REZ, quantum of GNA & T-GNA and restriction in NOC for T-GNA due to non-availability of transmission system is summarized below;

1. As on 03.07.25, total 22239 MW (~22.24 GW) of ISTS connected large RE generation in Rajasthan have been commissioned and being scheduled. Out of 22239 MW, 14273 MW has effective GNA (ATS commissioned) and 7966 MW has Non-effective GNA (ATS pending). ~36% of ISTS connected RE capacity is having non-effective GNA (Commissioning of Associated Transmission system is still pending) and is being evacuated under T-GNA using NRLDC NOC.
2. Out of 7966 MW, 4112 MW is being scheduled for RTC and 3854 MW only for Solar -peak hrs. Presently, 3854 MW (~48%) is being restricted during solar peak hrs (10:30-14:30hrs) due to non-availability of associated transmission system (ATS).
3. Out of total 7966 MW RE capacity, ATS of 5248 MW RE capacity was planned under Phase-II while ATS of 2668 MW was planned under Phase-III and ATS for 50 MW RE capacity was planned under Ph-V (Part-1: 4GW) [Sirohi/Nagaur] complex. ~2.7 GW of Phase-III generation has been commissioned but not a single transmission element of Phase-III is commissioned yet. Out of total 7966 MW RE capacity being evacuated under T-GNA, 66% RE capacity belongs to Phase-II transmission system (few transmission elements pending), and 34% RE capacity belongs to Phase-III (All transmission elements pending).

A.13.4 In the current scenario, the following constraints are being observed during peak solar generation hours:

- N-1 contingency of the 765kV Bara-Mainpuri Circuit 2 will result in the overloading of the 765kV Aligarh-Greater Noida line.
- Loading of 765kV Bhadla2-Ajmer ckts crossing 2300MW.
- Loading crossing 750MW each ckt for 400kV Bhadla(RJ)-Bikaner(RJ) D/C
- N-1 non-compliance of the 765/400kV Jhatikara ICTs (both sections)
- N-1 non-compliance of the 765/400kV Bhiwani ICTs (2 ICT section).
- N-1 non-compliance of the 765/400kV Moga ICTs.
- N-1 non-compliance of the 400kV Jhatikara-Mundka D/C line.

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- N-1 non-compliance of the 400kV Jhatikara-Dwarka and 400kV Jhatikara-Bamnauli lines.
- Low voltages and possibility of voltage oscillations in case of high wind generation, due to drawl of reactive power by intrastate wind generators.

A.13.5 Further, shutdowns of major 765kV lines such as 765kV Bikaner-Moga D/C for NHAI related works are to be facilitated in the RE complex, which can lead to curtailment of huge quantum of RE power. To facilitate these shutdowns and integrate maximum possible RE power in upcoming months, it is requested that the remaining transmission infrastructure under Phase-II is expeditiously commissioned, including:

- 765kV Khetri-Narela D/C lines
- 765/400kV Narela Substation with the LILO of the 765kV Meerut-Bhiwani line at Narela.
- 400kV D/C lines connecting the 400kV Narela Substation to the 400kV Gopalpur and 400kV Maharani Bagh substations.

A.13.6 It is pertinent to mention that ~2.7 GW of Phase-III generation have been commissioned but not a single transmission element of Phase-III is commissioned yet. Timely commissioning of Phase-III transmission system is equally important to relieve the constraint and facilitating evacuation of upcoming RE generation in Rajasthan REZ.

A.13.7 Following are past commitments by POWERGRID in TCC and NRPC meetings:
During 52nd TCC and 77th NRPC meeting held on 27.12.2024 and 28.12.2024 respectively,

A.13.8 POWERGRID representative informed the forum that the 765/400kV Narela Substation is nearing completion; however, severe ROW issues around the substation are causing delays. These issues are being actively addressed in coordination with the Government of Delhi. It was also mentioned that 400kV Narela–Maharanibagh D/C line and the LILO of the 765kV Meerut–Bhiwani line at Narela are scheduled for completion by March 2025.

A.13.9 During 53rd TCC and 78th NRPC meeting held on 16.03.2025 and 17.03.2025 respectively,

A.13.10 POWERGRID highlighted severe ROW constraints in line in Delhi portion and mentioned that the issues are being discussed at Ministerial level. Firm timeline for Narela transmission system could not be provided.

Decision required from Forum:

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Forum may ask POWERGRID to expedite the commissioning of pending transmission system (both phase-II and phase-III transmission system) for facilitating evacuation of RE generation from Rajasthan REZ and for ensuring reliability and security of the grid with huge RE penetration.

A.14 Proposal for Interconnection of 400kV Bikaner (PGCIL) and 400kV Bikaner (RVPNL) Substations (agenda by NRLDC)

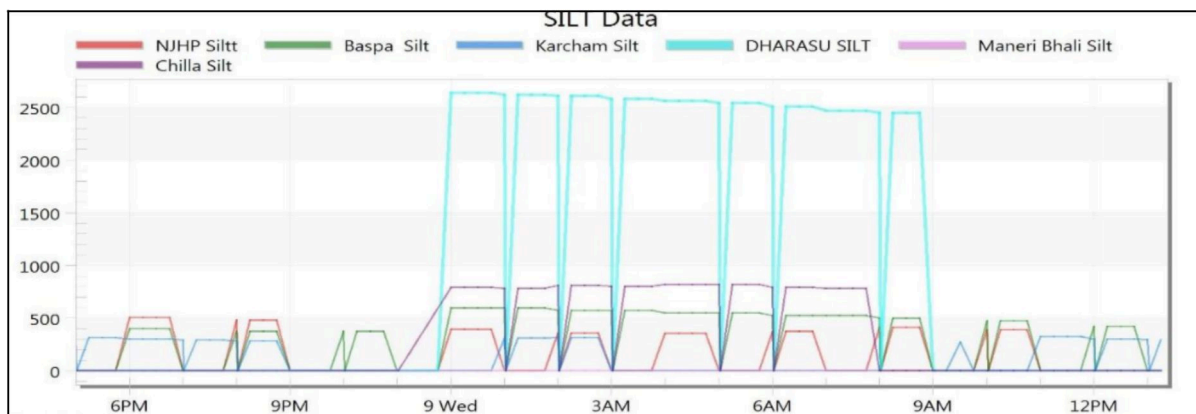
- A.14.1 The increasing renewable energy injection from the Bhadla and Fatehgarh complexes has led to high loading on existing transmission corridors, especially the 400kV Bhadla (RS)–Bikaner (RS) double circuit (D/C) line.
- A.14.2 A joint study conducted by NRLDC and NLDC assessed the proposed interconnection between 400kV Bikaner (PGCIL) and 400kV Bikaner (RVPNL) substations via a 33 km 400kV D/C Quad Moose line, considering their close proximity.
- A.14.3 Simulation results indicate that this interconnection can provide significant temporary operational benefits, including the mitigation of RE curtailment currently observed during solar peak hours. These curtailments are primarily due to delays in the commissioning of Associated Transmission System infrastructure for already-commissioned RE plants. Study results attached as **Annexure-A.XVI**.
- A.14.4 Major Technical benefits include:
1. Approximately 1000–1200 MW of additional RE in Western Rajasthan can be accommodated under the current scenario. However, this estimate is subject to change based on the actual Load Generation Balance after system charging.
 2. 36% reduction in loading per circuit on the 400kV Bhadla (RS)–Bikaner (RS) line (from 780 MW to 525 MW per ckt).
 3. Relief in loadings of critical lines like 765kV Bikaner (PG)–Moga D/C by ~65MW/ckt, 765kV Bikaner (PG)–Khetri D/C by ~100MW/ckt and 765kV Bhadla2–Ajmer D/C by ~55MW/ckt, improving margins and grid stability.
 4. Interconnection strengthens the intra-state and inter-state grid connectivity, improves redundancy, and enhances operational flexibility.

Decision required from Forum:

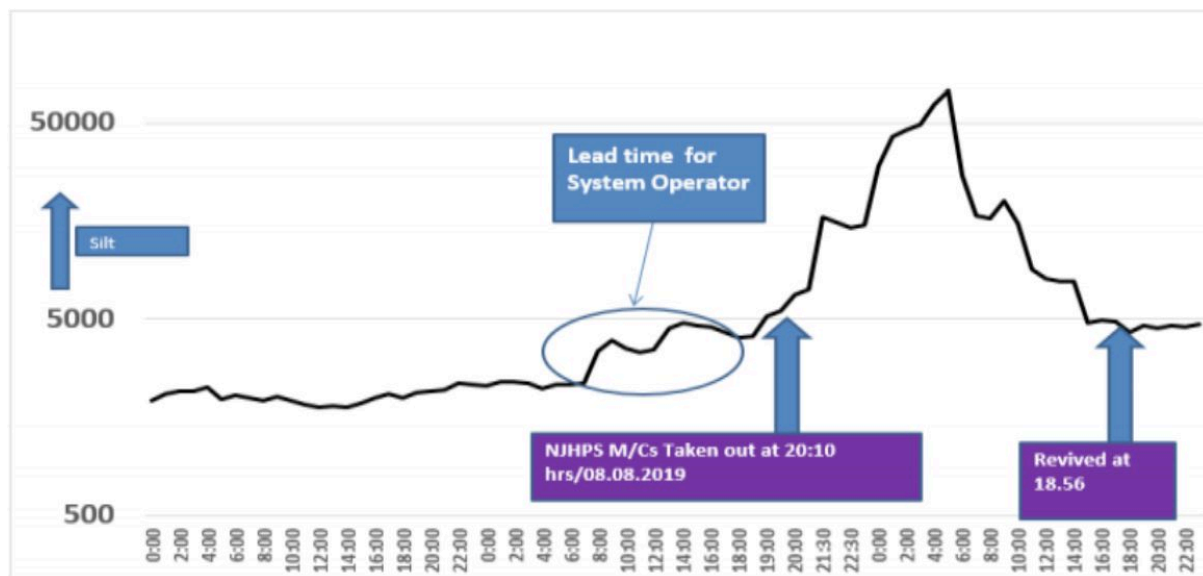
Forum may discuss the proposal and CEA/CTUIL/RRVNL may consider it as an interim measure for mitigating RE curtailment.

A.15 Near real-time monitoring of silt at NRLDC for hydro generating stations (agenda by NRLDC)

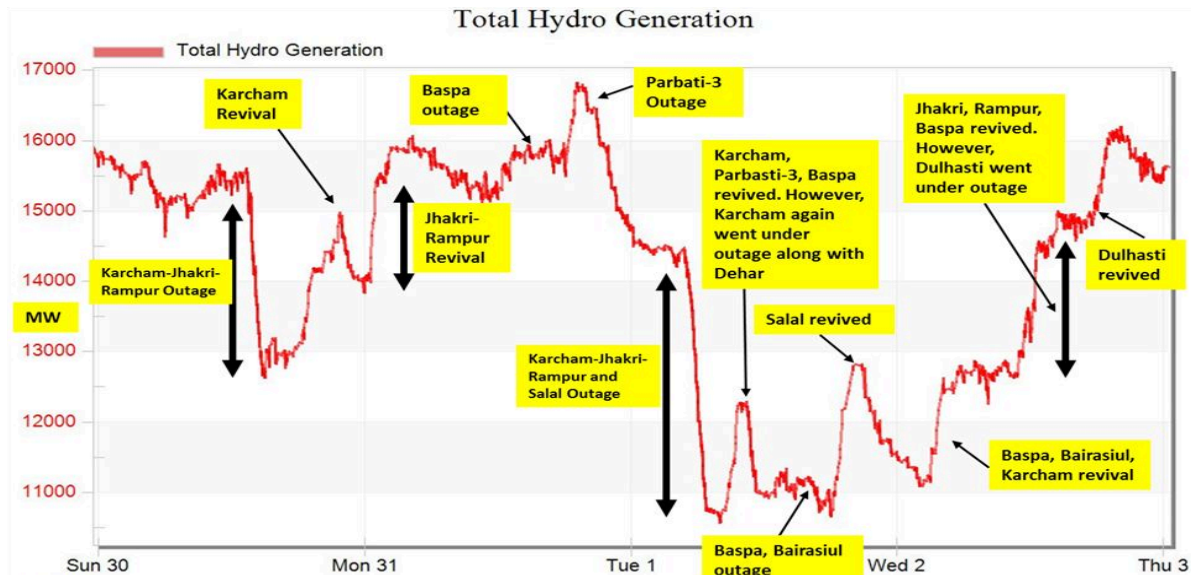
- A.15.1 Availability of near real time silt measurement data to NRLDC/ SLDCs is helpful for real time system operation in view of frequent hydro generation outage due to silt. PPM numbers are being punched directly from the site/control room at NRLDC server providing silt measurement at NRLDC control room. During previous years also, for Nathpa Jhakri, Baspa, Karcham and other small HEPs of Uttarakhand, trends of silt data were made available at NRLDC & being monitored by system operators in real-time.



- A.15.2 Sample available data of silt shown below suggests that there is some lead-time (varying from few hours to several hours) available with system operators to accommodate outage of hydro generators on account of high silt level.

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A.15.3 Sample plot showing outage of hydro generating stations due to high silt level leading sudden outage of hydro generating stations in Northern region is shown below:



A.15.4 Large hydro outage in short duration during monsoon on silt is a common phenomenon and the associated challenges have been highlighted in regular OCC/TCC meeting. The agreed action based on deliberation in various meetings are given below:

- Action for Generator

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- o Silt monitoring/Silt forecasting for planned hydro outage [Advance information]
 - o Reduction of Generation/Tripping of Units as per protocol (Staggering of units)
 - o Slow ramping down of generation on the units to be closed as per protocol.
- Action by SLDC/Constituents
 - o Generation reserve to be maintained
 - Own Generation
 - Contracted Generation from Other State/Traders
 - o Load management to be planned
 - o Optimization of Hydro generation as per demand requirement

A.15.5 It has been experienced that states those have major share in hydro e.g. Himachal Pradesh over draw from the grid during such condition. As deviation mechanism is also strict, it is gentle reminder for each state to plan in advance for such eventualities.

A.15.6 In view of upcoming silt scenario, all hydro stations are requested to furnish the silt forecast data (near-real time silt measurement) for operational planning measures to control centers (RLDCs/SLDCs) as this would help them gain some lead-time for better tackling of hydro generator outage on silt.

A.15.7 NRLDC has also developed a portal for sharing of silt-data by hydro generating stations with NRLDC. The portal is expected to go live withing a week and login credentials will be shared with all hydro generating stations for sharing of the data with NRLDC. NRLDC also plans to demonstrate the portal in upcoming 233 OCC meeting on 15.07.2025.

Decision required from Forum:

Forum may advise all hydro stations to timely share silt related information with NRLDC on newly developed portal and also follow protocol as approved by NRPC for taking units out in staggered manner in case of high silt. Further, states having major share from hydro generating stations may ensure their portfolio management under outage of hydro units due to silt so as to avoid any overdrawl from the grid.

A.16 Compliances to various regulatory provisions of IEGC 2023 (agenda by NRLDC).

a) Demand forecasting and resource adequacy related:

- A.16.1 Hon'ble CERC In the matter of Planning for safe, secure, and reliable integrated operation of the power system during critical periods arising on account of seasonal variations wherein the electricity demand increases rapidly by undertaking specific measures to mitigate the risks on the power system, under clause (h) of sub-section (1) of Section 79 of the Electricity Act, 2003 and the Regulation 31 of the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023 has issued suo-motto order 9/SM/2024 dated 07.10.2024.
- A.16.2 Subsequently, a meeting was taken by Hon'ble CERC on 14.02.2025 with all NR SLDCs, NRLDC and NRPC to review the actions being taken at SLDC end on measures related to resource adequacy.
- A.16.3 It is to be noted that CERC has also released "Report on Planning for safe, secure, and reliable integrated operation of the power system during critical periods arising on account of seasonal variations wherein the electricity demand increases rapidly by undertaking specific measures to mitigate the risks on the power system under Order dated 07.10.2024 in Suo-Moto Petition No. 9/SM/2024" on 29.04.2025.

In the report following actions have been suggested:

Area	Key Action
Power Procurement	Advance contracts, banking arrangements
Forecasting	Tool access, RLDC coordination, automation incase of manpower issue, Feedback from DISCOM,
Manpower	Approvals as per MoP guidelines, training
Reserve Management	Enforce obligations, clarify reserve norms
Thermal Generation	Enable operation at MTL, regulatory support from SERC
SAMAST	Ensure implementation within strict timelines

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A.16.4 With reference to the Clause 31(2) of Central Electricity Regulatory Commission-IEGC Regulations, 2023 and the Operating Procedure of NRLDC prepared in accordance with the same, each SLDC has to furnish the demand estimation for day ahead, week ahead, month ahead (with time block wise granularity) and demand estimation for year ahead (with hour granularity). The sub-clause 31(2) (h) of IEGC-2023 states the following timeline for the submission of demand estimate data to RLDC.

A.16.5	Type of Demand Estimation	A.16.6	Timeline
A.16.7	Daily	A.16.8	10:00 hours of previous day
A.16.9	Weekly	A.16.10	First working day of previous week
A.16.11	Monthly	A.16.12	Fifth day of previous month
A.16.13	Yearly	A.16.14	30th September of previous year

A.16.15 Status of Day Ahead Forecasting, week ahead, month-ahead and year-ahead submission status for Jul-2025 as per Clause 31(4) (a) & (b) of IEGC-2023 is shown below:

State/Entity	Day Ahead (As on Jul-25)	Week Ahead	Month Ahead (Aug 2025)	Year-Ahead
Punjab	As per Format	Demand and Resource not as per timeline	Not received	Not received
Haryana	Demand and Resource not as per format	Only demand & irregular	Not received	Not received
Delhi	Demand and Resource not as per format	As per Format	As per Format	Only Demand
Rajasthan	As per Format but irregular	As per Format	Not received	Not received
Uttar Pradesh	As per Format	As per Format	As per Format	As per Format
Uttarakhand	Demand and Resource not as per format and irregular	As per Format	As per Format	Not received
Himachal Pradesh	Demand and Resource not as per format	As per Format	As per Format	As per Format
J&K and Ladakh (UT)	Demand and Resource not as per format & irregular	Not received	Not received	Not received
Chandigarh (UT)	As per Format	Not received	Not received	Not received

A.16.16 In accordance with above, all SLDCs are requested to timely furnish the demand estimation data along with generation adequacy data as per the formats available at https://drive.google.com/drive/folders/1KWY4G9gTBLV5wTJkhGEIeRptKP-QbhjL?usp=drive_link to NRLDC through mail (nrlcmis@grid-india.in) and FTP as per above timeline.

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All SLDCs need to take actions at their end for timely submission of demand forecasting and resource adequacy data on day-ahead, week-ahead, month ahead and year ahead basis.

(b) Self-audit related:

A.16.17 As per IEGC Clause 56.2(c),

“The self-audit reports by users, QCAs, and SNAs shall be submitted to the concerned RLDC or SLDC, as the case may be.”

Failure to submit the self-audit report within the stipulated timeframe would be considered a non-compliance with IEGC regulations.

A.16.18 During the 228th OCC meeting, CGM, NRLDC, reiterated the importance of conducting the self-audit exercise within the timelines mandated by regulations. He informed that NRLDC has already submitted its self-audit report to CERC and urged all stakeholders to do the same.

Self-audit report has been received from NHPC and Koteswar THDC.

(c) Reserve management related:

A.16.19 As per CERC (Ancillary Services) Regulation, 2022 and “Detailed Procedure for Assessment of Quantum of Secondary & Tertiary Reserve Capacity, along with Information Exchange and Timelines”, NLDC is mandated to assess the quantum of secondary and tertiary reserves on year-ahead basis, to be maintained at the inter-state and intra-state levels. Accordingly, quantum of secondary and tertiary up and down reserves to be maintained at ISGS and intra-state levels has been estimated as per Format-RAS4. Details attached as **Annexure-A.XVII**.

A.16.20 During the discussions held with CERC on 14.02.2025 regarding resource adequacy related issues, it was discussed that NR SLDCs are not maintaining the reserves as per the allocated quantum by the NLDC as per the Grid Code. If reserves are to be maintained, a specific portion of capacity must be earmarked exclusively as a reserve and that quantum may not be scheduled unless under contingency. All states must ensure maintaining the reserve for their control area as per the allocation done by the NLDC as per the Grid Code.

As per the latest status:

- Data on day ahead basis received from some of the states (as shown in table) is not as per NRLDC format. It was further mentioned that NRLDC is in process of developing a code/program for automation of day-ahead resource adequacy. In case data is not received in formats circulated by NRLDC, it would not be

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possible to map/utilize the data submitted by states in the internal program being developed at NRLDC end.

- Self-audit report has been received from NHPC and Koteshwar THDC only for F.Y. 2023-24. As F.Y. 2024-25 has also completed recently, all utilities in Northern region are requested to carry out self-audit exercise and share report with NRLDC as per IEGC Clause 56.2(c).

Decision required from Forum:

Forum is requested to advise the concerned to:

- *Furnish Day Ahead Forecasting, week ahead, month-ahead and year-ahead demand and generation adequacy data as per IEGC 2023 timelines in formats available on NRLDC website.*
- *Carry out self-audit for F.Y. 2024-25 and submit self-audit report to NRLDC by 31.07.2025 as per IEGC 2023 clause 56.2.(c)*
- *Maintain reserves as per the allocated quantum by the NLDC as per the Grid Code*

A.17 Implementation of Workforce Adequacy Guidelines in SLDCs (agenda by NRLDC)

- A.17.1 The Ministry of Power, Government of India, issued the Workforce Adequacy Guidelines for Load Despatch Centres (LDCs) on 30th October 2024. These guidelines aim to ensure adequate staffing of Load Despatch Centres across the country to maintain secure and reliable grid operations. These guidelines were presented from NRLDC side in 52nd TCC and 77th NRPC meeting held in Dec 2024.
- A.17.2 To ensure effective implementation, the 24th Meeting of the PSDF Monitoring Committee, held on 18th February 2025, resolved that approval of new proposals under PSDF would be linked to compliance with these guidelines. This decision has been formally communicated by the Ministry of Power through DO Letter No. 22-1306/4/2022-OM dated 13th March 2025, with effect from 1st April 2025.
- A.17.3 After detailed deliberations, the Monitoring Committee approved the following:
- A.17.4 All SLDCs shall be required to submit the details of the number of sanctioned posts and the current manpower deployed at their respective centres to NLDC.
- A.17.5 A plan outlining the steps to address gaps between the existing workforce and the staffing levels recommended in the "Workforce Adequacy Guidelines." This plan

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should include a timeline of 2 to 3 years, with clearly defined milestones every six months to track the progress.

A.17.6 The new projects received which are falling under the categories of- 5.1(b), (c), (e) and (f) of the "Guidelines/Procedure for Disbursement of Funds from Power System Development Fund (PSDF)" shall be linked to the deployment of the manpower in SLDCs as mentioned above

A.17.7 In view of the above, SLDCs are requested to submit the following details, as required by the Monitoring Committee of PSDF

A.17.8 The details of the number of sanctioned posts and the current manpower deployed at their respective SLDCs

A.17.9 Provide a Phased Plan to Bridge the Shortfall, outlining the steps to address gaps between the existing workforce and the staffing levels recommended in the "Workforce Adequacy Guidelines." This plan should include a timeline of 2 to 3 years, with clearly defined milestones every six months to track the progress

A.17.10 A consolidated status of submissions from the NR constituents is as follows:

S.no	SLDC	Sanctioned/ Approved Manpower Strength		Available Manpower		Optimum Manpow er	Short fall	Status
		Executiv e	Non- Executiv e	Executiv e (A)	Non- Executiv e	(B)	(=B- A)	
1	Delhi	57	187	44	42	103	59	Action plan pending
2	Haryana	-	-	-	-	144	-	Not submitted
3	HP	16	22	16	22	103	87	Submitted
4	J&K	-	-	-	-	103	-	Not submitted
5	Punjab	-	-	44	27	144	100	Not submitted
6	Rajasthan	121	48	102	39	144	42	Action plan pending
7	UP	109	61	88	52	144	56	Submitted
8	Uttarakhand	-	-	-	-	103	-	Not submitted
9	Chandigarh	-	-	-	-	62	-	Not submitted

Phase wise plans submitted by states to bridge the shortfall :

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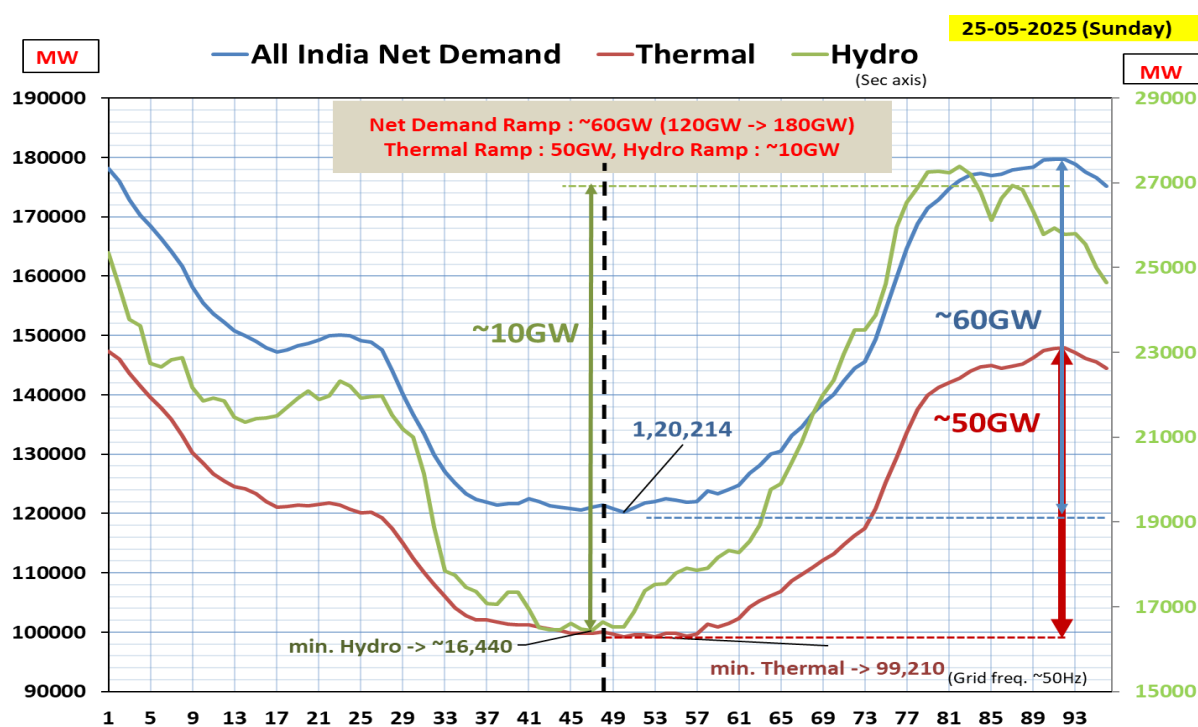
1. **Delhi** : The filling up of vacant posts and making up of shortfall as per Workforce Adequacy Guidelines is being taken up with the Management. The progress made in this regard will be intimated to in due course of time.
2. **UP** : The shortage of 30 Nos. Executives will be met in FY 2025-26 and the remaining shortage of 26 Nos. Executives will be met in FY 2026-27
3. **Punjab** : Matter regarding strengthening of SLDC is under consideration of Restructuring committee of PSTCL.
4. **HP**: Year-wise action plan submitted, HPSLDC shall take up the matter with HPERC and HP Govt. to approve the manpower in a phased manner in 3 years

Decision required from Forum:

TCC/NRPC forum is requested to advise the concerned to ensure compliance of Workforce Adequacy Guidelines for Load Despatch Centres.

A.18 Flexibilization of Coal-Fired Power Plants (agenda by NRLDC)

- A.18.1 India has an ambitious target of 500GW of Renewable energy (RE) integration, 50% of the total energy requirement from non fossil fuel sources by 2030. With the increasing integration of variable renewable energy (RE) sources into the grid, enhancing the operational flexibility of coal-based thermal power plants has become critical for maintaining grid safety, stability, reliability, and economic dispatch.
- A.18.2 In current situation, all India demand ramp requirement is 250-300MW/minute and on special days it reached up to 500MW/minute, all India diurnal demand variation is ~75GW. All India Net Demand graph along with thermal and hydro generation for typical day of 25 May 2025 is as below:

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A.18.3 It can be clearly observed that net demand evening ramp was around 60GW, which was met through thermal ramp of ~50GW and hydro ramp of ~10GW.

A.18.4 Considering the system requirement of flexibility, CEA has already published (Flexible Operation of Coal based Thermal Power Generating Units) Regulations, 2023 on 23.01.2023. Gist of the regulation is as below:

- The implementation of flexible operation of the coal based thermal power generating units shall be as per the phasing plan specified by the Authority from time to time.
- All load despatch centres shall schedule the coal based thermal power generating units, under their jurisdiction, considering the flexible operation capabilities as specified in these regulations.
- The coal based thermal power generating units shall have flexible operation capability with minimum power level of forty percent.
- Generating units unable to achieve a minimum power level of 55% shall comply within one year of the notification of these regulations. Units unable to achieve 40% shall do so as per the phasing plan.
- Coal-based thermal generating units must achieve a minimum ramp rate of 3% per minute between 70–100% loading, and 2% per minute between 55–70%. Units not meeting this requirement must comply within one year of the regulation's notification. Additionally, a 1% per minute ramp rate between 40–55% must be achieved as per the phasing plan.

A.18.5 CEA has also published a report “Flexibilisation of coal fired power plant - A road map for achieving 40% technical minimum load” in Feb 2023. Report is available at

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link: https://powerline.net.in/wp-content/uploads/2023/03/Report_21022023-1.pdf. This agenda was also discussed during 218th OCC meeting and the report is also attached as Annexure-A.VI of agenda of the meeting. Important excerpt of the report is given below:

- Flexible operation of coal plants is technically feasible through upgrades and control tuning, though it involves additional expenditure. Pilot tests confirm Indian plants can operate flexibly.
- Flexibility assessment requires safety and stability testing to determine ramp rates, flexible capacity, and retrofit needs. Low load tests must be planned with OEM consultation to avoid safety risks.
- Achieving 40% minimum load operation needs measures like control system optimization, flame detection, mill stability, and revised O&M practices. Due to high ash and low volatile matter in Indian coal, the low load operation of coal-fired power plants should not be less than 35–40% of rated power.
- Coal units will remain key for flexible power but involve commercial challenges like retrofit costs, heat rate degradation, higher O&M, and increased outage risks—requiring regulatory compensation.
- Operator confidence is low due to legacy base-load operation. Proper training is critical to prevent equipment failure during low-load operation.
 - Two-shift operation of older units is already being used selectively; a structured national-level approach is needed.
 - The results of concluded pilot tests (flexible operational tests have been conducted at 40% load and higher ramps at number of stations in collaboration with OEM and others) at various power stations have been specified in the report. Sample report related to Dadri is described below:

3.1.1 Dadri TPS, (NTPC), Dist. Gautambudh Nagar, UP

Test Date: 21 & 22/06/2018

Unit No.: 6

Unit Capacity: 500MW

Following tests were conducted:

<u>Test</u>	<u>Target</u>	<u>Achieved</u>
a. Minimum Load Test at 40%	200MW	200MW
b. Ramp Up Test	3%/min	~ 1.5%/min
c. Ramp Down Test	3%/min	~ 1.5%/min
d. Ramp Up Test	1%/min	~ 0.86%/min
e. Ramp Down Test	1%/min	~ 0.5%/min

The results are based on IGEF report dated 28/09/2018.

A.18.6 As per the CEA report latest commissioned units need to be considered in 1st phase. The preliminary phasing has been worked out in the CEA report published in Feb 2023. Wherein, it was proposed to be accomplished in four phases based on the date of commissioning of the units. Before first phase there is a pilot phase which shall be an experience gaining phase, in which few thermal units from

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central/state/pvt utilities shall be considered for refurbishment. The subsequent phases shall have to be fine-tuned considering the above- mentioned aspects.

A.18.7 Later, CEA has published a Draft phasing plan on 01.05.2023, for implementation of 40% technical minimum load as proposed in the CEA flexible operation regulations-2023. CEA phasing plan is attached as **Annexure-A.XVIII**. Gist of the draft phasing Plan is as below:

- In the pilot phase, it is proposed that 11 units of central/state/pvt sector which were commissioned from Jan 2016 to December 2022 shall be taken for refurbishment.

Pilot Phase (May, 2023 - Dec, 2023):

11 units of central/state/pvt sector have been identified in a meeting held on 19.04.2023 for lowering the MTL to 40% of rated capacity for the pilot phase, (Table-I). Concerned utilities shall arrange test run to understand the capability of the machine and identify measures, if any required for 40% load operation. Utility shall complete the refurbishment for flexibilisation by December, 2023, which shall be followed by performance evaluation and rectification period of six months. The experience gained in pilot phase shall be useful for 1st phase implementation. Summary of phasing plans is given in Table-II.

Table-I

Sl. No.	Sector	Organisation	Unit Name	Unit No.	Capacity (MW)
1	Central	NTPC	MAUDA TPS	1	500
2	Central	NTPC	SIMHADRI	3	500
3	Central	NTPC	DADRI	6	490
4	Central	DVC	MEJIA TPS	8	500
5	State	KPCL	YERMARUS TPP	1	800
6	State	GSECL	WANAKBORI TPP	8	800
7	State	RRVUNL	SURATGARH SCTPP	8	660
8	Private	CEPL	MUTHIARA TPP	2	600
9	Private	SEIL	SGPL TPP	2	660
10	Private	Rattan India	Nasik(P) TPP	5	270
11	Private	PPGCL	PRAYAGRAJ TPP	2	660

- **Phase 1 (Jul 2024 – Jun 2026):** Covers units commissioned between Jan 2016 and Dec 2022 and select pre-2016 units in RE-rich states. Some units from RE-deficient states are moved to Phase 2. Duration: 2 years.
- Northern Region plant list coming under phase-1 plan is tabulated below:

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Phase	Sector	Organisation	Name of Project	Unit No.	Capacity (MW)	DT-of COMMISSIONING	Pit head
Phase 1	Central	NTPC	MEJA STPP	1	660	3/31/2018	N
Phase 1	Central	NTPC	MEJA STPP	2	660	1/12/2021	N
Phase 1	Central	NTPC	TANDA TPS	5	660	9/28/2019	N
Phase 1	Central	NTPC	TANDA TPS	6	660	3/31/2021	N
Phase 1	Central	NTPC	UNCHAHAH TPS	6	500	3/31/2017	N
Phase 3	Central	NTPC	UNCHAHAH TPS	5	210	9/28/2006	
Phase 1	State	RRVUNL	CHHABRA TPP	5	660	4/4/2017	N
Phase 1	State	RRVUNL	CHHABRA TPP	6	660	3/29/2019	N
Phase 1	State	RRVUNL	Suratgarh SCTPP	7	660	3/15/2020	N
Phase 1	State	UPRVUNL	ANPARA TPS	7	500	3/6/2016	Y
Phase 1	State	UPRVUNL	HARDUAGANJ TPS	10	660	1/29/2022	N
Phase 1	Private	GPGL (GVK)	GOINDWAL SAHIB	1	270	2/14/2016	N
Phase 1	Private	GPGL (GVK)	GOINDWAL SAHIB	2	270	3/15/2016	N
Phase 1	Private	LPGL	LALITPUR TPS	1	660	3/26/2016	N
Phase 1	Private	LPGL	LALITPUR TPS	2	660	1/8/2016	N
Phase 1	Private	LPGL	LALITPUR TPS	3	660	4/1/2016	N
Phase 1	Private	PPGL (Tata)	PRAYAGRAJ TPP	3	660	5/22/2017	N
Phase 1	Private	TSPL	TALWANDI SABO TPP	3	660	3/29/2016	N

- **Phase 2 (Jul 2026 – Jun 2028):** Includes units commissioned between Jan 2011 and Dec 2015, along with select units from Phases 1 and 3 based on RE concentration. Duration: 2 years.
- **Phase 3 (Jul 2028 – Dec 2029):** Targets units commissioned between Jan 2001 and Dec 2010. Shorter implementation period (1.5 years) due to prior experience. Select units from earlier phases and those with ball and tube mills (if pilot-tested successfully) are also included.
- **Phase 4 (Jan 2030 – Dec 2030):** Covers remaining units commissioned up to Dec 2000 (30+ years old). Utilities to opt for flexibilisation or 2-shift operation by 2027–28. Pithead units are also included. Estimated completion within 1 year.

A.18.8 It is important to mention here that despite the CEA's Flexibility Plan, no ISGS unit is currently operating at the 40% technical minimum load, and generators are not adhering to the timelines specified in the plan. On other side some of the IPP plants like Shree Cement (30% of DC), Rajpura (50% of DC), Talwandi Sabo (50% of DC), Adani-Raigarh (45% of DC), Mahan (45% of DC) are already going below 55% and supporting the grid in terms of flexible operation.

A.18.9 Considering all the factors and system requirement, flexibility is required from all the ISGS, private and intra state generating stations. As per the phasing plan, all generators covered under **Phase-1** are required to achieve a **Technical Minimum Load (TML) of 40%** by **June 2026**. Members may wish to deliberate on the following points:

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a. Whether the target of achieving 40% TML has been met. If not, what are the reasons for the delay, and what is the tentative timeline for achieving?

b. Whether the ramp rate requirements specified in the CEA regulations—**3% per minute** for 100–70% load range, **2% per minute** for 70–55%, and **1% per minute** for 55–40%—are being met. If not, the reasons for non-compliance and the expected timeline for achieving these targets may be discussed.

Decision required from Forum:

Members may discuss.

A.19 Non-Payment of Pool Deficit Recovery Charges (agenda by NRLDC)

- A.19.1 Hon'ble CERC has approved “Detailed Procedure for recovery of charges in case of deficit in the Deviation and Ancillary Service Pool Account” (effective from 15.10.2024) for recovering the deficit in the pool for the period prior to 16.09.24 (Legacy dues) and from 16.09.24 onwards till 31.03.2026.
- A.19.2 In line with the approved procedure, NLDC had published statement namely “Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024 (Legacy Dues)” dated 11.11.2024, specifying the All-India deficit of Deviation and Ancillary Services Pool Accounts and per instalment amount to be paid by the drawee DICs.
- A.19.3 NLDC vide letter dated 03.03.2025, revised pool deficit recovery statement due to revised assessment of the respective regional deviation and ancillary pool account.
- A.19.4 Due date of payment of all instalments is already over. Consolidated status of legacy due recovery is tabulated below:

Total Billed amount (in ₹)	Total Amount Received (in ₹)	Amount Pending (in ₹)	Remarks
819,97,88,141	553,06,26,420	266,91,61,721	Due date of last instalment (17 th) was 13/03/2025

- A.19.5 Payment from all constitutes received except UP and J&K. Outstanding details are as below:

Sr. No.	DIC	Total Billed amount (in ₹)	Amount per Instalment (Total 17 th Instalment) (in ₹)	Amount Pending (in ₹)
1	UP	2,21,54,28,122	13,42,68,371	2,21,54,28,122
2	J&K	45,37,33,599	2,74,99,006	45,37,33,599
Total		2,66,91,61,721	49,69,56,857	2,66,91,61,721

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Forum is requested to advise the concerned to release outstanding payment at the earliest.

A.20 Non-Payment of Pool Deficit Recovery charges against NLDC statement dated 13/01/2025 (agenda by NRLDC)

A.20.1 In line with the approved procedure, NLDC had published first statement (Bill-01) namely “Net Deviation & Ancillary Services Pool Account, Pool Deficit Recovery Statement dated 13.01.2025 for the duration of 16.09.2024 to 22.12.2024.

A.20.2 Consolidated status of legacy due recovery is tabulated below:

Total Billed amount (in₹)	Total Amount Received (in₹)	Amount Pending (in₹)	Remarks
63,01,20,963	42,25,03,246	20,76,17,717	Due date: 23/01/2025

A.20.3 Payment from all constitutes received except UP and J&K. Outstanding details are as below:

Sr. No.	DIC	Pool Deficit Recovery for period 16.09.2024 to 22.12.2024	Amount Pending
		Bill-01 dated 13/01/2025	
1	UP	17,83,89,832	17,83,89,832
2	J&K	2,92,27,885	2,92,27,885
Total		20,76,17,717	20,76,17,717

Decision required from Forum:

Forum is requested to advise the concerned to release outstanding payment at the earliest.

A.21 Non-Payment of Deviation & Reactive Energy Charges by J&K (agenda by NRLDC)

A.21.1 NRLDC is operating and maintaining the “Northern Region Pool Account” for deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have high priority and the concerned

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utilities are required to pay the indicated amounts within 10 days of issue of weekly energy account by NRPC secretariat.

- A.21.2 In this regard, the payment of deviation charges and Reactive energy charges of J&K is long pending. Last payment received from JKPCL in the pool account was on 09.02.2024. Total outstanding dues of J&K are as follows:

DSM Charges: ₹ 94,55,87,961/-

Reactive Energy Charges: ₹ 44,88,607/-

Net outstanding charges:

Sr. No.	Entity/Description	UP (Amount in Cr)	J&K (Amount in Cr)	Total (Amount in Cr)
1	DSM Charges	-	94.56	94.56
2	Reactive Energy Charges	-	0.45	0.45
3	Pool Deficit Charges (Legacy Dues)	221.54	45.37	266.91
4	Pool Deficit Charges (NLDC statement dtd 13.01.25)	17.84	2.92	20.76
	Total Charges	239.38	143.30	382.68

- A.21.3 Uttar Pradesh and Jammu & Kashmir have not paid any payment towards pool deficit recovery charges. It is to be noted that non-receipt of payment from UP and J&K leads to non-payment of ₹ 391 Cr to the receivable entities of Northern Region.

- A.21.4 In this regard, NRLDC has already sent various communications to J&K. Copy of all these communications is attached as **Annexure-A.XIX**.

Further following petition has been filed with Hon'ble CERC:

1. Petition filed by NLDC on 02/05/2025 for non-payment of legacy dues by DIC.
2. Petition filed by NRLDC on 24/03/2025 for non-payment of legacy dues and DSM charges.

Decision required from Forum:

Forum is requested to advise the concerned to release outstanding payment at the earliest

*55th TCC & 80th NRPC Meeting (17-18 July, 2025)–Agenda***A.22 Installation of standby meters/other end meters on various feeders in NR (agenda by NRLDC)**

- A.22.1 As discussed in 67th NRPC meeting held on 21st July 2023, regarding installation of 38 standby meters in few feeders of BBMB to others states and in a special meeting held at NRLDC on 04.07.2023, it was agreed by CTU/PGCIL to install these standby meters. As in these feeders, only one meter is installed and all these meters are considered as Main meters which being used in accounting. As per clause 7.1.B of CEA metering regulation 2006: “(Location of meters): Transmission and Distribution System, Meter installed at other end of the line in case of two different licensees shall work as standby meter.”
- A.22.2 Due to absence of other end meters (standby meters) redundancy has been reduced, it has become very difficult to validate the data in case of any discrepancy or unavailability of main meter data.
- A.22.3 NRLDC have flagged this agenda in various meetings and following are the deliberations:
- A.22.4 In a meeting at NRLDC held on 04.07.2023, CTU has agreed to install these meters within 4 months.
- A.22.5 In 47th commercial sub-committee meeting held on 28th August 2023, POWERGRID representative informed that it may take another three months to replace the above agreed meters.
- A.22.6 In 212th OCC meeting held on 20th October 2023, POWERGRID representative informed that 38 standby meters will be install by end of November 2023.
- A.22.7 In 48th commercial sub-committee meeting held on 04th December 2023, POWERGRID representative informed that installation of 38 standby meters is in progress.
- A.22.8 In 50th commercial sub-committee meeting held on 27th August 2024, POWERGRID informed that remaining installation will be completed by November 2024. Committee suggested PGCIL to expedite the installation of these meters and

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complete it by November 2024. Also, PGCIL to share the details of the locations where installation has been completed.

A.22.9 NRLDC has been pursuing this matter for over one and a half years, despite multiple discussions, the installation remains incomplete. During the 51st Commercial Sub-Committee meeting held on 07th March 2025, POWERGRID informed that out of 38 meters, 31 have been installed, and the remaining installations are expected to be completed by April 2025. The list of these meters is provided in **Annexure-A.XX**.

A.22.10 Additionally, In 50th Commercial Sub-Committee meeting held on 24th August 2024, NRLDC has identified and shared more feeders where only a single meter is currently installed. The list of these meters is provided in **Annexure-A.XXI**. NRLDC has requested CTU/POWERGRID to provide a timeline for the installation of the remaining meters.

A.22.11 POWERGRID committed to share the detailed information regarding all replaced meters within a week, along with installation schedule for the meters listed in **Annexure-A.XX** and **Annexure-A.XXI** of the agenda. However, this information is yet to be received.

A.22.12 A separate online meeting was held by NRLDC on 09.04.2025, during which the representative from CTU/POWERGRID informed that there is a shortage of meters. New meters are expected to be supplied by May 2025, with installation planned by June 2025.

Decision required from Forum:

CTU and POWERGRID are requested to kindly provide the current update on meter installations of both Annexure-A.XX and Annexure-A.XXI.

A.23 Current status on replacement of Vincom and Elster meters (agenda by NRLDC)

A.23.1 The replacement of Elster and Vincom meters has been under review since the 67th NRPC meeting held on 21st July 2023, due to persistent data conversion issues and discontinued vendor support. The absence of reliable main meter data continues to pose significant operational challenges, particularly in the data validation process, leading to delays in meter data processing. Most critically, these issues are resulting

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in discrepancies in DSM accounts, adversely impacting financial reconciliation. Despite more than one and a half years having passed since the discussions began, meter replacements at several locations are still pending.

A.23.2 NRLDC has raised this agenda regarding status update on replacement of meters in various meetings and following are the deliberations:

- In 47th Commercial sub-committee meeting held on 28th August 2023, POWERGRID informed that it may take another three months to replace the above agreed meters.
- In 212th OCC meeting held in 20th October 2023, POWERGRID informed that 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.
- In 48th commercial sub-committee meeting held on 04th December 2023, POWERGRID representative informed that installation will be done in next three months.
- In 50th commercial sub-committee meeting held on 27th August 2024, POWERGRID informed that remaining installation will take 5-6 months more and committee suggested to complete the e installation of these meters and complete by December 2024.

A.23.3 During the 51st Commercial Sub-Committee (CSC) meeting held on 07th March 2025, POWERGRID reported that out of 146 meters, 58 have been replaced. The remaining replacements are primarily delayed due to pending consents from specific utilities and site-specific constraints. POWERGRID has since shared a comprehensive list of these pending cases and cited difficulties in obtaining site permissions as a major factor contributing to the delays.

A.23.4 NRLDC has sent official communications to the concerned sites, urging them to coordinate with CTU/POWERGRID at the earliest to facilitate timely replacements, in order to maintain accounting integrity and operational efficiency.

A.23.5 NRLDC also highlighted a critical procedural concern, noting that the current CTU procedure for meter installation results in prolonged replacement timelines, which

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negatively affects the accuracy of energy accounting. To streamline future replacements, NRLDC suggested that POWERGRID obtain a one-time blanket consent from utilities at the beginning of each financial year for a fixed number of SEM meters. Additionally, NRLDC emphasized the need for updated CT/PT ratio details to be submitted alongside meter replacements, to ensure the accuracy of the NRLDC database. NRLDC view of one-time blanket consent was also supported by NHPC.

- A.23.6 The Member Secretary (MS), NRPC, expressed concern over the persistent delays and stressed the importance of POWERGRID promptly sharing meter replacement details with NRLDC. He advised POWERGRID to immediately address site-specific issues and complete all pending replacements by the end of April 2025. It was further suggested that alternative arrangements be explored if the existing procedures are contributing to delays.
- A.23.7 MS, NRPC, also supported the suggestion of obtaining one-time consent for meter replacements for the financial year or adopting a similar approach. He noted that if the forum is inclined to revisit the CTU meter replacement procedure to reduce timelines, a formal request can be made to CTU for review and necessary amendments.
- A.23.8** A separate online meeting was convened by NRLDC on 09.04.2025, during which the representative from CTU/POWERGRID informed that there is currently a shortage of meters. New meter supplies are expected by May 2025, with installation planned for completion by June 2025. Current update as per available data is attached as **Annexure-A.XXII**

Decision required from Forum:

CTU and POWERGRID are kindly requested to provide an updated status on the replacement progress.

A.24 Using Sandes App and CollabFiles of Govt. of India instead of Whatsapp Web (agenda by NRLDC)

- A.24.1 Due to cyber security concerns, applications such as “Whatsapp Web” should not be enabled on IT networks of RLDCs and SLDCs to the extent possible as it allows the

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files, images, etc. to directly come inside the IT LAN by establishing one-to-one connection with several contacts. Moreover, its auto-download feature of photos/documents is also not advisable due to cyber security concerns.

- A.24.2 In the 2nd meeting of Central-CSCF held on 25-Oct-2024, it was mentioned that Sandes-app developed by NIC (Govt. of India) may be used for communication purposes in control room for certain purposes, if required.
- A.24.3 Further, it was explored by NRLDC that its full features (incl. Web version on Desktop) get enabled only if concerned numbers get whitelisted by "Nodal Officer in Ministry". The matter was verbally discussed in Ministry of Power and it was known that Sandes-app is not being fully used at MoP also.
- A.24.4 Another application for file sharing developed with vision of "Atmanirbhar Bharat Abhiyaan" is CollabFiles which is a web-based platform for document sharing. It is an indigenous platform for connecting, creating, sharing, and collaborating on office documents. It is a web-based, cloud-enabled and scalable platform to create and manage documents, spreadsheets and presentations in a collaborative mode with strategic control so that government users could use it through secured and privileged access to Parichay and JanParichay, Single-Sign-On platforms offered by the government, to facilitate government enterprises of India to function more efficiently.
- A.24.5 In the 5th GO-NR-CSCF meeting held on 20-Jun-2025, NRLDC expressed the concerns related to using applications such as Whatsapp-web for official communication and file-sharing purposes and requested for migration to applications such as "Sandes" and "CollabFiles" developed by initiatives of Govt. of India. The forum discussed and requested NRLDC to schedule a demo of these applications by coordinating with NIC which was agreed by NRLDC.

Decision required from Forum:

For kind information of TCC/NRPC forum.

A.25 Use of trusted products from trusted sources for procurement of IT equipment and services in power sector (agenda by NRLDC)

- A.25.1 An office memorandum with ref. F. No. 1/45/2021/IT&CS (P-258739) dated 05-Jun-2025 has been issued by Ministry of Power for usage of Trusted Products from Trusted Sources for procurement of IT equipment and services in power sector.

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- A.25.2 National Security Council Secretariat (NSCS) of the Government of India has set up a Trusted Telecom Portal for ensuring only trusted telecom equipment are being used by the Telecom/Internet Service Providers in India from trusted sources. NSCS has allowed access of Trusted Telecom Portal by Ministry of Power and the power sector entities.
- A.25.3 Accordingly, all IT equipment and services utilized in the power sector should be cleared through the Trusted Telecom Portal before the supply of equipment starting 01-Jan-2025. The list of IT equipment and services mandated to be cleared through the portal shall be notified in due course. It has not been mandated to replace any existing ICT equipment. Furthermore, it will not impact ongoing Annual Maintenance Contracts (AMCs) or updates pertaining to equipment already in service.
- A.25.4 MoP will establish a Coordination Cell, which will liaise with the designated nodal officers, duly authorized by the heads of the power sector entities, to ensure the effective and seamless implementation of the process.
- A.25.5 In 5th GO-NR-CSCF meeting held on 20-Jun-2025, the matter was discussed and deliberated. Forum requested CERT-GO secretariat and NRLDC to inform the developments in formation of coordination cell, designating nodal officers, etc. with the SLDCs.

Decision required from Forum:

For kind information of TCC/NRPC forum.

A.26 Establishment of Security operation Centre (SOC) and Network Operation Centre (NOC) (agenda by NRLDC)

- A.26.1 As per letter from PSDF secretariat with ref. NLDC-PSDF/36th Appraisal/2024-25/ dated 05-Nov-2024, a benchmark costing had been set for SOC projects as ₹12 Crores (incl. GST) with 2 years' operational cost by PSDF Secretariat along with a model BoQ. Based on the benchmark costing, around 90% of the project funding had been planned to be given from PSDF.
- A.26.2 Subsequently, a meeting was conducted under chairmanship of Secretary (Power) on 21-Mar-2025 in which it was recorded in associated minutes that "SOC proposals that are submitted under the PSDF-funded scheme should be revised to include

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indigenous SOC, NOC solutions and a 5-year AMC”. Subsequently, another meeting was conducted on 01-May-2025 under chairmanship of Director (Cyber Security, CSIRT-Power) in which model BoQ for SOC and NOC (incl. 5-years AMC) was formulated and released in associated minutes.

- A.26.3 In 5th GO-NR-CSCF meeting held on 20-Jun-2025, the matter was deliberated and SLDCs requested CERT-GO secretariat to prepare a draft template document of technical specifications for an indigenous solution and circulate among SLDCs/RLDCs as a reference.
- A.26.4 Accordingly, the initial version of model template DPR of SOC/NOC project had been shared by CERT-GO secretariat with all SLDCs vide e-mail dated 30-Jun-2025; the same will be further modified and revised version will be shared tentatively within Jul'25.

Decision required from Forum:

For kind information of TCC/NRPC forum.

55th TCC & 80th NRPC Meeting (17-18 July, 2025)–Agenda**Agenda for NRPC meeting****B.1 Outstanding Contribution for FY 2025-26 (agenda by NRPC Secretariat)**

B.1.1 Demand Letter for contribution towards NRPC fund for the year 2025-26 was sent on 10.04.2025 to all the constituent members. It was also mentioned that beyond 30th June, 1% simple interest shall be levied. Accordingly, NRPC Secretariat has received contributions from organizations.

B.1.2 It is mentioned that till date; payment has not been received from 6 constituent members. Details of organizations from which payment has not been received is mentioned below:

S. No.	Name of Constituent	Period (FY)	Contribution Pending amount
1	Talwandi Sabo Power Ltd.	2025-26	14,14,000
2	UT of Ladakh	2025-26	14,14,000
3	Purvanchal Vidyut Vitaran Nigam Ltd.	2025-26	14,14,000
4	Avaada Energy Private Limited	2025-26	14,14,000
5	NVVN	2025-26	14,14,000
6	*UT of Chandigarh	2025-26	14,00,000
	Total		56,70,000

*Last date of payment for UT of Chandigarh is 30.09.2025

B.1.3 It is requested to kindly pay the contribution amount at the earliest. It is also mentioned that if payment has already been made, kindly share the transaction details for reconciliation at NRPC.

B.1.4 NVVN vide letter no. NVVN/Comml./NRPC/2025-26/01 dated 09.05.2025 (**Annexure-B.I**), requested for exemption from NRPC membership amount. In this regard, it is mentioned that Rule 29 of the NRPC Conduct of Business Rules (**Annexure-B.II**) provides as under:

“All the Members and rotational members except the following shall contribute equally on annual basis, which shall be decided every year in NRPC meeting based on review of actual expenditure of the previous year and estimated expenditure in current/next year:

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- NLDC/NRLDC/SLDC
- Member (Go&D), CEA
- MS, NRPC
- Exempted by MoP ”

B.1.5 Accordingly, Ministry of Power (MoP) is empowered to grant exemption from the contribution amount. Therefore, NVVN may approach MoP for obtaining the necessary exemption, if desired.

Decision required from Forum:

Members may please deliberate.

B.2 Status of Expenditure incurred during Quarter-1 of FY 2025- 26 from NRPC Fund (agenda by NRPC Secretariat)

B.2.1 As per the Standard Operating Procedure (SOP) for budgeting and expenditure of RPCs in pursuance to the MoP letter dated 23.02.2006, NRPC has finalized its annual Internal Budget for FY 2025-26 and got it approved by Forum in 78th NRPC meeting held on 17.03.2025.

B.2.2 Further, Status of actual expenditure incurred during Quarter-1 of FY 2025-26 (All figures in Rs.) is as follows:

Account Head	Budget Estimate for FY 2025-26	Remarks/ Booking of Expenditure during Q1/FY 2025-26	Total Expenditure during Q1/FY 2025-26	Total Expenditure FY 2025-26
Salary	1,90,00,000	Salary bills	50,39,825	50,39,825
Rewards	1,00,000	Bonus for Group-C Employees	0	0
Allowances	1,53,00,000	HRA, DA etc	43,11,514	43,11,514
LTC	5,00,000	LTC	8,995	8,995
Medical Treatment	10,00,000	Cost of Medical Treatments	44,674	44,674
Training	5,00,000	Training Expenses of NRPC Officials	0	0

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DTE	15,00,000	Domestic tour expense	2,39,643	2,39,643
OE	2,00,00,000	Office expenditure-Recurring expenses of salary of contractual staff, AMC and other bills.	16,33,897	16,33,897
RRT	2,00,000	Rent rate and Taxes- One time expense of property tax.	1,90,552	1,90,552
Digital Equipment	5,00,000	Digital equipment (cartridges, Hard Disks, pen drive etc.)	1,67,183	1,67,183
Repair and Maintenance	1,50,00,000	ARMO, Civil & Electrical works in NRPC Complex through CPWD, AMC of IT Maintenance.	67,27,059	67,27,059
Other Revenue Exp.	5,00,000	Hospitality and other similar bills (Mobile, Newspaper Bills etc)	36,674	36,674
IT & Computer Applications etc	38,00,000	Cyber Security and Hybrid VC projects and other related works.	1,07,844	1,07,844
Furniture and fixtures	5,00,000		0	0
NPC Meeting	30,00,000		0	0
Protection Expert Group Training	63,72,000			
NRPC Reimbursement FY 2024-25		Salary and allowances expenses	2,89,07,455	2,89,07,455

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Total	8,77,72,000		4,74,15,315	4,74,15,315

Decision required from Forum:

Submitted for information of NRPC members.

B.3 Payment of wages of the driver (Chauffeur) employed under GEMC-511687711249042 Dated 3rd July 2024 (Leasing of Electric Vehicles (Long Term) - Wet Lease) for the month of May'25 and June'25 (agenda by NRPC Secretariat)

- B.3.1 Electric Vehicle (1 No. Tata Nexon EV, Registration No. DL12GD4577) was hired on wet lease from Gensol EV Lease Private Limited as per Contract no. GEMC-511687711249042 Dated 3rd July 2024 (**attached at Annexure-B.III**) from 01-08-2024 to 01-08-2029 at a value of Rs 48,49,500/-.
- B.3.2 A letter (no. Ref No.: NRPC/GEVL/EV/0205) dated 02.05.2025 (**attached at Annexure-B.IV**) from GENSOL EV LEASE PRIVATE LIMITED has been received with request of foreclosure of *Contract No. GEMC-511687711249042 Dated 3rd July 2025* and conveying that the company is unable to continue the services under this contract due to their financial situation.
- B.3.3 In the 79th NRPC meeting, it was decided by the forum to foreclose the contract w.e.f. 30.06.2025 and return the vehicle to the service provider. Accordingly, NRPC vide letter no. CEA-GO-17-12(14)/1/2023-NRPC I/50695/2025 dated 25.06.2025 (**attached at Annexure-B.V**) foreclosed *Contract No. GEMC-511687711249042 Dated 3rd July 2024* with effect from 30.06.2025.
- B.3.4 As per Contract, Service Provider (Gsensol EV Lease Private Limited) shall be exclusively responsible for ensuring compliance with the provisions related to Labour Law [Central/State] and specially Minimum Wages Act, Payment of Wages Act, PF, ESI Act, Payment of Bonus Act, Contract Labour [R&A] Act, Workmen Compensation Act, Motor Vehicle Act, Motor Transport Workers Act, 1961 etc. and any other relevant acts as applicable at present or in future during the tenure of the contract and as may be enforced from time to time.
- B.3.5 However, Gensol EV Lease Private Limited has not paid salary of driver (Chauffeur) for May'25 and June'25 despite repeated reminders.

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B.3.6 It is proposed that NRPC shall make payment of the wages of Driver / Chauffeur for month of May'2025 and June'2025. The payment made by NRPC in lieu of the wages/salary of driver shall be deducted from the invoices raised by Gensol EV Lease Private Limited for the month of May'2025 and June'2025 whenever Gensol EV Lease Private Limited raises these invoices.

Decision required from Forum:

Members may deliberate and decide.

B.4 Award of Outsource Manpower contracts through GeM Portal (Agenda by NRPC Secretariat)

B.4.1 NRPC have taken approval of forum for *Hiring of Manpower under Manpower Outsourcing Contract-Fixed Wages through GeM Portal and Hiring of Manpower in NRPC secretariat through GeM Portal under Manpower Outsourcing Services - Minimum Wages Contract for various categories* in 78th NRPC meeting held on 17.03.2025.

B.4.2 Accordingly, Bids were floated on GeM Portal for hiring of outsource manpower in NRPC. Following are the contract details for outsource manpower awarded to successful bidder through GeM Portal:

S.no.	Name of Contract	GEMC no.	date	Service Provider	Total Contract Value Including All Duties and Taxes (INR)	Start Date	End Date
1	Manpower Outsourcing Services - Fixed Remuneration	GEMC-511687723128839	18 th June 2025	M/s World Dream Solutions	Rs. 29,97,510/-	1 st August 2025	31 st July 2026
2	Manpower Outsourcing Services - Minimum wage	GEMC-511687734167904	30 th June 2025	M/S Sea Howck Security Services	Rs. 63,53,457.27/-	11 th August 2025	10 th August 2026

Decision required from Forum:

For information of the forum.

NRPC Members for FY 2025-26

S. No.	NRPC Member	Category	Nominated/ Notified/Delegated Member	E-mail
1	Member (GO&D), CEA	Member (Grid Operation & Distribution), Central Electricity Authority (CEA)	Member (GO&D), CEA	member.god@cea.nic.in
2	NLDC	National Load Despatch Centre	Director (System Operation)	rk.porwal@grid-india.in
3	NRLDC	Northern Regional Load Despatch Centre	Executive Director	mkagarwal@grid-india.in
4	CTUIL	Central Transmission Utility	Chief Operating Officer	ashok@powergrid.in
5	PGCIL	Central Government owned Transmission Company	Director (Operations)	naveensrivastava@powergrid.in
6	NTPC	Central Generating Company	Director (Finance)	jaikumar@ntpc.co.in
7	BBMB		Chairman	cman@bbmb.nic.in
8	THDC		CGM (EM-Design)	rrsemwal@thdc.co.in
9	SJVN		CMD	sectt.cmd@sjvn.nic.in
10	NHPC		Director (Technical)	sadhikari@nhpc.nic.in
11	NPCIL	State Load Despatch Centre	Director (Finance)	df@npcil.co.in
12	Delhi SLDC		General Manager	gmsldc@delhisldc.org
13	Haryana SLDC		Chief Engineer (SO&C)	cesocomml@hvpn.org.in
14	Rajasthan SLDC		Chief Engineer (LD)	ce.ld@rvpn.co.in
15	Uttar Pradesh SLDC		Director	directorsldc@upsldc.org
16	Uttarakhand SLDC		Chief Engineer	anupam_singh@ptcul.org
17	Punjab SLDC		Chief Engineer	ce-sldc@punjabsldc.org
18	Himachal Pradesh SLDC		Managing Director	mdhpsldc@gmail.com
19	DTL	State Transmission Utility	CMD	cmd@dtl.gov.in
20	HVPNL		Managing Director	md@hvpn.org.in
21	RRVPNL		CMD	cmd.rvpn@rvpn.co.in
22	UPPTCL		Managing Director	md@upptcl.org
23	PTCUL		Managing Director	md@ptcul.org
24	PSTCL	State Generating Company	CMD	cmd@pstcl.org
25	HPPTCL		Managing Director	md.tcl@hpmail.in
26	IPGCL		Managing Director	md.ipgpp@nic.in
27	HPGCL		Managing Director	md@hpgcl.org.in
28	RRVUNL		CMD	cmd@rrvun.com
29	UPRVUNL		Director (Technical)	director.technical@uprvunl.org
30	UJVNL		Managing Director	mdujvnl@ujvnl.com
31	HPPCL		Managing Director	md@hppcl.in
32	PSPCL	State Generating Company & State owned Distribution Company	CMD	cmd-ppscpl@pspcil.in
33	DHBVN	State owned Distribution Company (alphabetical rotational basis/nominated by state govt.)	Managing Director	md@dhbvn.org.in
34	Ajmer Vidyut Vitran Nigam Ltd.		Managing Director	MD.AVVNL@RAJASTHAN.GOV.IN
35	Purvanchal Vidyut Vitaran Nigam Ltd.		Managing Director	nomination awaited(md@puvvn.in)
36	UPCL		Managing Director	md@upcl.org
37	HPSEB		Managing Director	md@hpseb.in
38	Prayagraj Power Generation Co. Ltd.	IPP having more than 1000 MW installed capacity	Head (Commercial & Regulatory)	sanjay.bhargava@tatapower.com
39	Aravali Power Company Pvt. Ltd		CEO	brahmaijg@ntpc.co.in
40	Apraava Energy Private Limited		CEO	niraj.gupta@apraava.com
41	Talwandi Sabo Power Ltd.		COO	Vibhav.Agarwal@vedanta.co.in
42	Nabha Power Limited		CEO	sk.narang@larsentoubro.com
43	MEIL Anpara Energy Ltd		COO & WTD, Executive Director	anandkumar.singh@meilanparapower.com arun.tholia@meilanparapower.com
44	Rosa Power Supply Company Ltd		Station Director	Hirday.tomar@relianceada.com
45	Lalitpur Power Generation Company Ltd		Managing Director	vksbankoti@bajajenergy.com
46	MEJA Urja Nigam Ltd.		CEO	hopmeja@ntpc.co.in
47	Adani Power Rajasthan Limited		Head, Thermal, O&M	Kanti.Biswas@adani.com
48	JSW Energy Ltd. (KWHEP)		Head Regulatory & Power Sales	vyotiprakash.panda@jsw.in
49	Transition Cleantech Services Private Limited	IPP having less than 1000 MW installed capacity (alphabetical rotational basis)		nomination awaited(pkanaujia@evrenenergy.com)
50	UT of J&K	From each of the Union Territories in the region, a representative nominated by the administration of the Union Territory concerned out of the entities engaged in generation/ transmission/ distribution of electricity in the Union Territory.	Chief Engineer, JKSPDCL/JKPDD	cejkpcl2@gmail.com/sojppdd@gmail.com
51	UT of Ladakh		Chief Engineer, LPDD	cepladakh@gmail.com
52	UT of Chandigarh		Executive Engineer, EWEDC	seelo-chd@nic.in
53	NVVN	Nodal Agency appointed by the Government of India for coordinating cross-border power transactions	NVVN and PTC are two nodal agencies in Northern Region. Since PTC is already a member in this year for trader category, it is listed at serial no. 56.	ceonvvn@ntpc.co.in
54	TPDDL	Private Distribution Company in region (alphabetical rotational basis)	Head-Commercial	nomination awaited(ceo.office@tatapower-ddl.cpm)
55	Gurgaon Palwal Transmission Limited	Private transmission licensee (nominated by central govt.)	AVP-O&M	lokendra.ranawat@indigrid.com
56	PTC	Electricity Trader (nominated by central govt.)	CEO	cmd@ptcindia.com
57	ReNew Power Private Limited	RE Generating Company having more than 1000 MW installed capacity	CEO	sumant@renew.com
58	NTPC Green Energy Limited		CEO	rajivgupta@ntpc.co.in
59	Azure Power India Pvt. Limited		CEO	sunil.gupta@azurepower.com
60	Avaada Energy Private Limited		CEO	kishor.nair@avaada.com
61	Adani Green Energy Limited		COO	chaitanya.sahoo@adani.com

List of addressee (via mail)

TCC Members for FY 2025-26				
S. No.	TCC Member	Category	Nominated/ Notified/Delegated Member	E-mail
1	Managing Director, JKPTCL	Chairperson, TCC	Smt. Raheela Wani Managing Director, JKPTCL	mdjkptcl1@gmail.com
2	Member (GO&D), CEA	Member (Grid Operation & Distribution), Central Electricity Authority (CEA)		cegm-cea@gov.in
3	NLDC	National Load Despatch Centre		susha@grid-india.in
4	NRLDC	Northern Regional Load Despatch Centre	Executive Director	mkagarwal@grid-india.in
5	CTUIL	Central Transmission Utility	Chief Operating Officer	ashok@powergrid.in
6	PGCIL	Central Government owned Transmission Company	ED, NR-I	aloksharma99@powergrid.in
7	NTPC	Central Generating Company	Regional ED, NR	rednr@ntpc.co.in
8	BBMB		Member (Power)	mp@bbmb.nic.in
9	THDC		GM (EMD)	neerajverma@thdc.co.in
10	SJVN		Director (Projects)	de.sectt@sjvn.nic.in
11	NHPC		ED (O&M)	hod-om-co@nhpc.nic.in
12	NPCIL		Outstanding Scientist & ED (commercial)	nrcchoudhary@npcil.co.in
13	Delhi SLDC	State Load Despatch Centre		nomination awaited
14	Haryana SLDC		Chief Engineer/SO & Comml.	cesocmm1@hvpn.org.in
15	Rajasthan SLDC		Superintending Engineer (SOLD) RVPN	SE.SOLD@RVPN.CO.IN
16	Uttar Pradesh SLDC		Chief Engineer (PSO)/Chief Engineer (C&S)	cepso@upslcd.org
17	Uttarakhand SLDC	State Load Despatch Centre		nomination awaited
18	Punjab SLDC		Chief Engineer	ce-sldc@pstcl.org
19	Himachal Pradesh SLDC			nomination awaited
20	DTL			
21	HVPNL	State Transmission Utility	Director (Operation)	dir.opr@dtl.gov.in
22	RRVNL		Director (Projects)	directorprojects@hvpn.org.in
23	UPPTCL		Chief Engineer (PP&D)	ce.pgm@rvpn.co.in
24	PTCUL		Director (Planning & Commercial)	director_comm@upptcl.org
25	PSTCL	State Generating Company	Chief Engineer	ce_oandmk@ptcul.org
26	HPPTCL		Director / Technical	dir-tech@pstcl.org
27	IPGCL		GM (C&D)	gmd.tcl@hpmail.in
28	HPGCL		Director(Tech.)	corporate.pptcl@gmail.com
29	RRVUNL		Director/Technical	dirtech@hpgcl.org.in
30	UPRVUNL		Dy. Chief Engineer	dyce.elect.katpp@rrvun.com
31	UJVNL		Director (Technical)	director_technical@uprvunl.org
32	HPPCL		General Manager	kkjaiswal99@gmail.com
33	PSPCL		Director (Electrical) General	dir_elect@hpgcl.in
34	DHBVN			nomination awaited
35	Ajmer Vidyut Vitran Nigam Ltd.	State owned Distribution Company (alphabetical rotational basis/nominated by state govt.)	Director (Tech.), AVVNL, Ajmer	directoroperations@dhbvn.org.in
36	Purvanchal Vidyut Vitaran Nigam Ltd.			nomination awaited
37	UPCL		Director (P)	dpupcl29@gmail.com
38	HPSEB			nomination awaited
39	Prayagraj Power Generation Co. Ltd.	IPP having more than 1000 MW installed capacity	Head – Commercial & Regulatory	Sanjay.bhargava@tatapower.com
40	Aravali Power Company Pvt. Ltd		CEO	brahmajig@ntpc.co.in
41	Apraava Energy Private Limited			nomination awaited
42	Talwandi Sabo Power Ltd.		Dy. Head O&M	ravinder.thakur@vedanta.co.in
43	Nabha Power Limited			nomination awaited
44	MEIL Anpara Energy Ltd		COO & WTD, Executive Director	anandkumar.singh@meilanparapower.com
45	Rosa Power Supply Company Ltd		VP-Technical Services	Niranjan.Jena@relianceada.com
46	Lalitpur Power Generation Company Ltd		GM Electrical	aupadhay.ltp@lpgcl.com
47	MEJA Urja Nigam Ltd.		GM (O&M)	piyushkumar@ntpc.co.in
48	Adani Power Rajasthan Limited		AVP	Manoj.taunk@adani.com
49	JSW Energy Ltd. (KWHEP)	IPP having less than 1000 MW installed capacity (alphabetical rotational basis)	Head of Plant	kaushik.maulik@jsw.in
50	Transition Cleantech Services Private Limited			nomination awaited
51	UT of J&K			nomination awaited
52	UT of Ladakh			nomination awaited
53	UT of Chandigarh	Nodal Agency appointed by the Government of India for coordinating cross-border power transactions		seelo-chd@nic.in
54	NVVN			VIKASKUMAR04@NTPC.CO.IN
55	TPDDL	Private Distribution Company in region (alphabetical rotational basis)		nomination awaited
56	Gurgaon Palwal Transmission Limited	Private transmission licensee (nominated by central govt.)		lokendra.ranawat@indigrid.com
57	PTC	Electricity Trader (nominated by central govt.)		bikramsingh@ptcindia.com
58	ReNew Power Private Limited	RE Generating Company having more than 1000 MW installed capacity		nomination awaited
59	NTPC Green Energy Limited			nomination awaited
60	Azure Power India Pvt. Limited			nomination awaited
61	Avaada Energy Private Limited			nomination awaited
62	Adani Green Energy Limited			nomination awaited

Special Invitees:

1. Shri Vijay Kumar Singh, Member, Power System, Sewa Bhawan, R. K. Puram, New Delhi-66 [Email-memberscea@nic.in]
2. Shri Deepak Kumar, Member Secretary, WRPC, Plot No- F-3, MIDC Area, Marol, Opp. SEEPZ, Central Road, Andheri (East), Mumbai-40093. [email: ms-wrpc@nic.in]
3. Shri Asit Singh, Member Secretary, SRPC, No.29, Race Course Cross Road, Bengaluru-560009. [Email: mssrpc-ka@nic.in]
4. Shri N.S. Mondal, Member Secretary, ERPC,14,Golf Club Road, ERPC Building, Tollygunje,Kolkata-700033.[Email: mserpc-power@nic.in]
5. Shri K B Jagtap, Member Secretary, NERPC, NERPC Complex, Dong Parmaw, Lapalang, Shillong-793006. [Email: ms-nerpc@gov.in]
6. Shri Brieflee Lyngkhai, Chief Engineer, GM Division, CEA, Sewa Bhawan, R.K. Puram, New Delhi-66 [Email: cegm-cea@gov.in]

Status of action taken on decision 54th TCC & 79th NRPC meeting

S.N.	Agenda	Decision of 53 rd TCC & 78 th NRPC	Status of action taken
A.14	Expediting commissioning of 500MVA ICT-4 at Allahabad(PG) by POWERGRID (Agenda by NRLDC)	Forum expressed concern on the delay in commissioning of 500MVA ICT-4 at Allahabad by POWERGRID and asked POWERGRID to take all necessary measures for commissioning of ICT on urgent basis.	POWERGRID may apprise the status.
A.16	Non- Installation of OPGW on LILO Portion of 400kV Koldam-Ludhiana Line at Ropar by M/S Indigrid (agenda by PSTCL)	Forum asked NRPC Sectt. to take up the matter with concerned stakeholders in TeST sub-committee/special meeting.	The said matter is taken up for discussion in 28 th TeST sub-committee scheduled on 23 rd July 2025.

same. The details of spare ICT and spare bus reactor unit were not intimated by UPPTCL in the 38th SCM.

A.13.3. Representative of NRLDC informed that the cited matter was discussed in the 67th NRPC meeting and 214th OCC meeting of NRPC, wherein M/s UPPTCL was advised to take up the matter with Chief Engineer, PSPA Division, CEA for resolution of the issue.

A.13.4. MS, NRPC asked UPPTCL to confirm to CEA the details of 765 kV Bays (701, 702, 703, 705, 706), spare ICT and spare bus reactor implemented by PMSTL at Meerut substation.

A.14. Demolition and reconstruction of residential/ non-residential buildings in the substation premises at Ballbharh, Bassi, Mandola under RHTL and Hisar Sub Station under MBTL system through Additional Capitalization in Tariff Block 2019-24. (Agenda by Powergrid-NR1)

A.14.1. Representative of Powergrid NR-1 informed that Ballbharh, Bassi, Mandola and Hisar Sub-stations have completed 30 years of service life. Residential/ non-residential buildings in these substation premises are in dilapidated and non-liveable condition. Therefore, Powergrid has proposed to demolish and reconstruct quarters and Non-residential building (Transit Camp & Recreational Centre) at above stations after demolition of old and dilapidated quarters and old non-residential buildings.

A.14.2. He further informed that reconstruction of dilapidated township of Vijayawada Sub-station under ACE for 2019- 24 tariff period was approved by SRPC on same ground.

A.14.3. MS, NRPC stated that as the work is to be carried out through additional capitalization, the consent of states would be required. He suggested that structural assessment of these projects may be carried out by an appropriate agency, such as NCCBM. Subsequently, the proposal may be taken up for approval in the NRPC meeting.

A.15. Concern regarding imposition of shutdown charges by Rajasthan Rajya Vidut Prasaran Nigam Limited, Jaisalmer of their transmission lines for construction activities by POWERGRID, contrary to CERC Regulation. (Agenda by Powergrid-NR1)

A.15.1. Representative of Powergrid and RVPN informed that the issue has been resolved.

A.15.2. Representative of RVPN informed that a clarification has been issued by RVPN stating not to raise any transmission charges for RVPN power line crossings by 100 percent wholly owned subsidiaries of Powergrid on a reciprocal basis.

A.16. Frequent faults in 220kV lines of UPPTCL connected to POWERGRID, GIS



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1.0 INTRODUCTION

PGCIL had approached National Council for Cement and Building Materials (NCCBM) to undertake the work of “Condition Assessment of Residential Quarters of Type-B (17nos.), Type-C (5nos.), Type-D (1no.), Transit Camp (1no.) and Recreation Centre (1no.) at PGCIL 400/220KV Bassi Substation Damodarpura, Bassi, Distt- Jaipur. Consequently, preliminary site inspection was carried out by NCCBM officials on 8th February 2024 to define the scope of work for the condition assessment of these structures. Based on the preliminary site inspection, NCCBM had submitted the proposal for the condition assessment vide our letter No. Ref. CDR/SP-6280/SAR-349 dated 20th February 2024. Subsequently, PGCIL had issued Letter of Award (LoA) No. N1/C&M/24-25/ST-PAC basis/ LOA/24-108133/01 dated 2nd July 2024.

Accordingly, NCCBM had started the condition assessment work with the following mutually agreed scope of work between PGCIL and NCCBM:

Scope of work:

- i) Detailed visual inspection of the subject structures. This will involve recording the visual observations regarding the structural and non-structural components of the buildings along with the details of apparent signs of distress observed in the RCC members/brick wall. The results of the detailed visual inspection will be supported and supplemented with photographs wherever possible.
- ii) Conducting investigation using Non-Destructive testing and laboratory testing of in-situ samples collected from site. This will involve the following:
 - a) Determination of equivalent cube compressive strength (if feasible) of concrete in RCC members of the super structure using concrete core extraction & testing technique as per IS 456:2000 & IS 516 (Part 4) : 2018. For this, concrete cores of 60 mm diameter will be extracted. The locations from which the concrete cores are extracted will be decided by NCCBM team deputed for assessment in coordination with representatives of PGCIL. In case extraction of intact concrete cores suitable for compressive strength testing appears to be difficult due to reasons such as breakage, washing out of cores, etc., during the process of extraction, same will be recorded and reported in the report.
 - b) Carry out Ultra Sonic Pulse Velocity (UPV) testing of concrete in RCC members as per IS 516 (Part 5/Sec 1): 2018 to assess the quality of concrete. The UPV testing shall be carried out at points which are accessible and on well prepared concrete surfaces. The test will be done by cross probing method where two opposite faces of the member are readily accessible at the same time. Wherever only one face of the RCC member is readily accessible at a time, the test will be done by surface probing method.
 - c) Measurement of the depth of carbonation front IS 516 (Part 5/Sec 3): 2021 on the extracted concrete cores and/or other in-situ samples of concrete.
 - d) Half Cell Potential test as per IS 516 (Part 5/Sec 2): 2021 to determine the likely corrosion condition of reinforcement bars in few selected and safely accessible RCC members.



- e) Surface electrical resistivity test on concrete using four-point Wenner Probe Technique in few selected and safely accessible members.
- f) Laboratory testing on in-situ samples of joining mortar in the brick wall collected from the site to determine sulphate content. These samples will be collected from safely accessible locations.
- g) Laboratory testing on in-situ samples of bricks for determination of Compressive Strength, Efflorescence & water absorption. The sample of 10 bricks from each type of structure will be collected.
- h) Chemical analysis of hardened concrete samples in the laboratory. This will involve evaluation of chlorides, sulphates and pH of the concrete.
- i) Determining the extent of distress in RCC slabs and brick walls based on the above investigation and arriving at conclusions and recommendations regarding further action to be taken.
- j) Preparation of Report covering a) to i) above.

2.0 DESCRIPTION OF STRUCTURE & DATA/DOCUMENT PROVIDED BY SPONSOR

PGCIL 400/220KV Bassi Substation Damodarpura, Bassi, Dist-Jaipurhas residential Quarters of Type-B (17 nos.), Type-C (5 nos.), Type-D (1 no.), Transit Camp (1 no.) and Recreation Centre (1 no.). Type B and Type C were (G+1) storied. Type D quarters, Recreation Centre and the Transit Camp were single-story. D-Type Quarter contains one garage and one servant quarter too. All the buildings were load bearing structures having stone masonry walls and RCC slabs.

It was informed by the PGCIL representatives on the day of site inspection, the construction of B-type, C-Type & D-Type Quarters, Transit camp & Recreation Centre around 1992-1993. The data regarding the grade of concrete used, concrete mix design, type & grade of steel, structural & architectural drawings were not provided by PGCIL Bassi representative.

3.0 CONDITION ASSESSMENT METHODOLOGY

The methodology adopted for condition assessment covers following three parts:

Visual Observations covering visual inspection, recording & photography of apparent visible condition of the structure and categorizing the various RCC members based on the visible state of distress.

Site Investigation & Sampling covers identification of sample RCC members by random sampling technique and onsite NDT testing such as UPV testing, Concrete Cover Measurement, Core extraction, Half Cell Potential Measurement, Electrical Resistivity measurement, etc.

Laboratory Investigation covers testing of concrete core strength, grinding of concrete cores for further chemical testing i.e. to determine the chloride content, sulphate content & pH.

Based on the visual observations, site investigation and laboratory testing results, the conclusion is derived to define the root cause of distress in the structure.



3.1 Visual Observations:

During visual observation, any apparently visible signs of deterioration in concrete members have been considered as a sign of distress. Distress in any RCC structures/members occurs due to various reasons like carbonation induced corrosion and chloride induced corrosion, over-loading, settlement etc. and may result into reduction in service life of the structure. Generally, distress in concrete manifests itself in many forms such as cracking, spalling of concrete, corrosion of reinforcement steel, seepage etc. During the visit, these signs/if any were looked out for and the recorded details are given in section 4.1 of this report. The photographs indicating the distress observed and on-site testing conducted are shown in Annexure-I.

3.2 Ultrasonic Pulse Velocity (UPV) Testing as per IS 516 (Part 5/Sec 1):2018

UPV is a non-destructive evaluation method for assessing the concrete quality grading; density, homogeneity and uniformity. Basic principle of UPV method is given below.

In this method, an ultrasonic pulse of longitudinal vibrations is produced by an electro-acoustical transducer which is held in contact with one surface of the concrete member under test. When the pulse is induced into the concrete from a transducer, it undergoes multiple reflections at the boundaries of the different material phases within the concrete. A complex system of stress waves is developed which includes longitudinal (compression) waves. The receiving transducer detects the onset of the longitudinal waves, which is the fastest. After traversing a known path length of the member, the pulse of vibrations is converted into an electric signal by a second electro-acoustical transducer, and an electric timing circuit enables the transit time of the pulse to be measured, from which the pulse velocity is calculated.

The Ultrasonic Pulse Velocity in concrete is mainly related to its density and modulus of elasticity. This in turn depends upon the materials and mix proportions used in making concrete as well as methods of placing, compaction and curing of concrete. If the concrete is not thoroughly compacted, or if there is segregation of concrete during placing or there are internal cracks or flaws, the pulse velocity will be lower, although the same materials and mix proportions are used.

There are three methods of conducting UPV test depending upon availability of faces of RCC members in the structure. One is cross-probing (or direct-probing), in which the transducers are held on two opposite faces of the RCC members. If the opposite face is not available, then transducers are held on adjacent faces of the RCC member, this method is known as 'semi-direct probing' technique. If the opposite faces are not available, then transducers are held on same face of the RCC member. This method is known as 'surface probing' technique involving transmission of Ultrasonic Pulse through the concrete surface. Surface probing in general gives lower pulse velocity than in case of cross probing and depending on number of parameters, the difference could be of the order of about 0.5 km/s.

The underlying principle of assessing the concrete quality grading from UPV method is that, comparatively higher pulse velocities are obtained when the 'quality' of concrete in terms of density, homogeneity and uniformity is good. In case of concrete of poorer quality, lower velocities are obtained.

On this basis, guidelines have been evolved for characterizing the concrete quality grading in structures in terms of ultrasonic pulse velocity. Such guideline is given in Table A, which is reproduced from IS 516 (Part 5/Sec 1): 2018 (Amendment No. 1 dated November 2019).

TABLE A
VELOCITY CRITERIA FOR CONCRETE QUALITY GRADING (reproduced from Table 1 of IS 516 (Part 5/Sec 1):2018) [UPV by cross probing method]

SI. No.	Average Value of Pulse Velocity by Cross Probing Km/s	Concrete Quality Grading
i) For concrete ($\leq M 25$):		
a)	Above 4.50	Excellent
b)	3.50 - 4.50	Good
c)	Below 3.50	Doubtful ¹⁾
ii) For concrete ($> M 25$):		
a)	Above 4.50	Excellent
b)	3.75 - 4.50	Good
c)	Below 3.75	Doubtful ¹⁾
¹⁾ In case of 'Doubtful quality', it may be necessary to carry out additional tests.		

For the present investigation, accessible RCC members were selected to conduct the UPV test. After removing plaster etc., the surface of the RCC members were thoroughly cleaned and smoothened with carborundum/grinding stone. The RCC members were then divided in parts at suitable grid spacing and UPV measurements were taken on the grid points marked by cross probing/surface probing technique depending on accessibility of opposite faces of RCC members using UPV Tester PUNDIT (Portable Ultrasonic Non-Destructive Digital Indicative Tester) Lab of make PROCEQ. Grease was used as coupling medium between the transducer face and the concrete surface.

3.3 Concrete Core Testing as per IS 516 (Part 4): 2018

Concrete cores of 60-mm diameter were obtained from different structural members identified, to estimate equivalent cube compressive strength of the structure. Equivalent cube strength does not indicate 28 days' standard cube strength rather it represents the in-situ cube strength and is compared vis-à-vis strength used in design calculation with safety of the structure under load in mind.

There are a number of parameters, which influence the measured compressive strength. Such parameters include size (diameter) of the specimen, length-to-diameter ratio, direction of drilling, method of capping, drilling operations, moisture conditions of cores at the time of testing etc. Many of these parameters have been standardized.

The second set of variables relates to the intrinsic difference that exists between the concrete in structure and in standard laboratory-controlled specimens, the core specimens representing the former. Such intrinsic differences are due to inherent differences that may occur in mixing constituents, degree of compaction, extent of curing and temperature condition in two cases. The procedure for sampling,



preparing, testing and calculating the equivalent compressive strength with corrections are given in IS 516 (Part 4):2018.

The Clause 17.4.3 of **IS 456:2000** (Code of Practice for Plain and Reinforced Concrete) consider that concrete in the area represented by a core test is acceptable if the average equivalent cube strength of the cores is equal to at least 85 percent of the cube strength of the grade of concrete specified for the corresponding age and no individual core has a strength less than 75 percent.

3.4 Concrete Cover Study

Concrete cover, in reinforced Concrete, is the least distance between the surface of embedded and the outer surface of the Concrete

The concrete cover must have a minimum thickness for three main reasons:

- To protect the steel reinforcement bars (rebars) from environmental effects to prevent their corrosion;
- To protect the reinforcement bars from fire, and;
- To give reinforcing bars sufficient embedding to enable them to be stressed without slipping.

The premature failure of corroded steel reinforcements and the expansion of the iron corrosion products around the rebars are amongst the main causes of the concrete degradation. A sufficient thickness of concrete cover is required in order to slow down the electrochemical process in concrete towards the rebar. The minimum concrete cover will depend on the environmental conditions encountered and must be thicker when the concrete is also exposed to moisture and chloride.

For a longitudinal reinforcing bar in a Column nominal cover shall in any case not be less than 40 mm or less than the diameter of such bar as per clause 26.4.2.1 of IS 456:2000. For footing, minimum cover shall be 50mm as per clause 26.4.2.2 of IS 456:2000.

Minimum values for the nominal cover of normal weight aggregate concrete which should be provided to all reinforcement including links depending on exposure condition are specified in Table 16 of IS 456:2000 which is reproduced as Table-B below:

Table B: Nominal Cover to Meet Durability Requirements
(IS 456:2000; Table 16; Clause 26.4.2)

Exposure	Nominal concrete cover not less than (mm)
Mild	20
Moderate	30
Severe	45
Very severe	50
Extreme	75

Note:

- a. For main reinforcement up to 12 mm diameter bars for mild exposure the nominal cover may be reduced by 5mm.



- b. Unless specified otherwise, actual concrete cover should not deviate from the required nominal cover by +10mm & 0 mm.
- c. For exposure condition severe and very severe reduction of 5 mm may be made where concrete grade is M35 and above.

Measurement of thickness of concrete cover provided to reinforcing bars was carried out at site by using an electromagnetic cover meter (Profoscope of Make-Proceq) at site on safe & accessible locations. Profoscope detects the reinforcing bars and mesh, to measure their cover depth. The instrument is based on the magnetic technique and is calibrated for different purposes.

3.5 Carbonation Test as per IS 516 (Part 5 / Sec 3):2021

Carbonation is the formation of calcium carbonate (CaCO_3) by chemical reactions in concrete. When CO_2 penetrates into the hardened concrete, it reacts with Portlandite [Portlandite is a mineral formed during the curing of concrete, calcium hydroxide Ca(OH)_2 in the presence of moisture forming CaCO_3]. The rate of carbonation depends mainly on the relative humidity, the concentration of CO_2 , the penetration pressure and the temperature of the environment where concrete is placed.

As carbon dioxide enters the concrete from the environment, it reacts with calcium hydroxide present in the concrete and depending upon the concrete quality grading it reduces the alkalinity of the pore fluids, thereby de-passivating ferric oxide layer on reinforcing bar which in turn initiates the process of corrosion in reinforcement.

To determine the depth of carbonation, concrete is exposed and sprayed with a pH indicator (solutions of 1% phenolphthalein in 70% ethyl alcohol). The demarcation between the region, which turns into magenta (dark pink colour) and the region showing no change in colour indicate the carbonation front.

The procedure for measurements is given in IS 516 (Part 5/Sec 3): 2021.

3.6 Half-Cell Potential (HCP) measurements as per IS 516 (Part 5/Sec 2): 2021

This test method is based on IS 516 (Part 5/Sec 2): 2021, which covers the estimation of electrical Half Cell Potential of uncoated reinforcing steel, to determine corrosion activity using reference electrode copper; copper sulphate half-cell. It is not possible to expose all the reinforcements in the structural element and observe the extent of corrosion. So, this method has been very convenient to assess the condition of the entire length of a member by exposing a portion of the reinforcement at a suitable location, which measures the half-cell potential on the entire length, by placing the reference electrode on the wet concrete surface.

The Half-Cell Potential measurement is based on the principle that corrosion, being an electro-chemical process, induces certain voltage in the reinforcement steel that is corroding. The wetting of the concrete is required to make the portion between the concrete surface and the reinforcing bar as electrolytes.



The obtained values of test results are compared with criteria given in IS 516: (Part 5/Sec 2): 2021 to find the condition of corrosion in reinforcement steel. The criteria for corrosion status are reproduced in Table C.

TABLE C
Criteria for Corrosion Condition of Rebar in Concrete for Copper – Copper Sulphate Half-Cells
Cu/CuSO₄ Electrode
[ACCORDING TO IS 516 (Part 5/Sec 2): 2021]

Potentials over an Area	Likely Corrosion Condition
$> -200\text{mV}$ or less negative than -200mV	Low (there is a greater than 90 percent probability that no reinforcing steel corrosion is occurring in that area at the time of measurement)
-200mV to -350mV	Corrosion activity of the reinforcing steel in that area is uncertain
$< -350\text{mV}$ or more negative than -350mV	High (there is a greater than 90 percent probability that reinforcing steel corrosion is occurring in that area at the time of measurement)
$< -500\text{mV}$	Severe corrosion

3.7 Electrical Resistivity measurement

Concrete resistivity is geometrical independent material property that indicates the ratio between the applied voltage and resulting current in a unit Cell. The resistivity of concrete impacts the current flow between the cathodic and anodic regions of the concrete. The higher the concrete resistivity, the lower the current flowing between anodic and cathodic areas will be, and therefore lower the corrosion risk. The Proceq® RESI™ Resistivity Meter permits a rapid and non-destructive measurement of the concrete quality grading with respect to its resistivity.

The Proceq® RESI™ Resistivity Meter i.e. a four-point Wenner probe resistivity meter is used for in-situ measurement of electrical resistivity in concrete. It uses a probe with four terminals set up in a linear array with a fixed distance between the probes. The two outer probes are for the introduction of the current, whereas the two center electrodes are the voltage measurement points. When the probe touches the concrete surface, the electronic control unit circulates the test current and measures the potential between the inner points. The electronic contact is made of foam pads, which are to be saturated with water preliminarily for electrical conductivity.

During the field investigation, electrical Resistivity testing was conducted using Proceq® RESI™ type Resistivity meter at identified safely accessible locations as selected by the NCB team deputed for Condition assessment.

Interpretation of Resistivity measurements from the Wenner four-probe system has been cited when referring to de-passivated steel (Langford and Broomfield, 1987)



Interpretation of Resistivity measurements with regard to corrosion risk for OPC concrete from the Table-2 of RILEM TC 154-EMC: Test Methods for on-site measurement of resistivity of concrete.

TABLE D

Risk of corrosion of reinforcement associated with concrete resistivity for 20°C and OPC Concrete	
Concrete Resistivity ($k\Omega$ -cm)	Risk of corrosion
<10	High
10-50	Moderate
50-100	Low
>100	Negligible

3.8 Chemical Analysis of Concrete Samples

Corrosion of reinforcing steel due to chlorides in concrete is one of the most common environmental attacks that lead to deterioration of concrete structures. Whenever there is chloride in concrete there is an increased risk of corrosion of embedded metal. Chloride content is then expressed in kg per cubic meter of concrete and compared with the values of limits of chloride contents of concrete (**Table 7 of IS 456:2000**).

Sulphates (SO_3) are present in most cements and in some aggregates; excessive amounts of water-soluble sulphate from these or other mix constituents can cause expansion and disruption of concrete. To prevent it, **IS 456:2000 clause-8.2.5.3** states that the total water-soluble sulphate content of the concrete mix, expressed as SO_3 , **should not exceed 4 percent by mass of the cement** in the mix. The sulphate content should be calculated as the total from the various constituents of the mix.

The pH value of the concrete should be above 12.5 as desirable for alkaline environment around reinforcing steel to render it un-corroded. A reduction in the pH value of concrete indicates loss of passive layer around the reinforcement which protects the steel from distress.

For analyzing Chloride content, Sulphate (SO_3) content and pH of concrete, concrete cores were sliced into different layers and grinded into fine powder (passing 150 μ IS: Sieve) and then tested as per IS:14959 Part (2) & IS:4032.

Note: Taking a conservative estimate of cement content in the mix as 300 kg/m³ (for M25 grade of concrete which is the minimum grade for RCC under “Moderate” exposure as specified in IS 456:2000) and density of concrete as 2400 kg/m³ is taken for the calculation of Chloride and Sulphate content.

3.9 Chemical Analysis of Mortar Samples

The cement mortar sample was collected from stone masonry wall at site. The sulphate content was determined through chemical analysis of mortar sample. Excessive amounts of water-soluble sulphate can cause expansion and disruption of joining mortar in brick walls.

Based on the seismic zone III [as per IS 1893 (Part 1): 2016] and Importance Factor 1 (as per Table 8 of IS 1893 (part 1): 2016), the building category will be determined as per Table 2 of IS 4326: 2013. On the basis of the category of the building, recommended mortar mix proportion of cement to sand



in mortar is given in Table 3 of IS 4326: 2013 is considered for further calculation. The results of mortar sample are compared with the requirement given in Table 3 of IS 4326: 2013. The same table is reproduced below as Table E. As per zone III & importance factor 1.0, building category C is considered and further as per Table 3 of IS 4326: 2013, the mortar mix 1:6 is considered.

Table E Recommended Mortar Mixes (Clauses 8.1.2.1 and 8.2.6)

S. No	Building Category	Proportion of Cement-Sand Mortar Mix
1	B	M3 (Cement: Sand -1: 7) or richer
2	C	M2 (Cement: Sand -1: 6) or richer
3	D	M1 (Cement-sand 1: 5) or richer
4	E	H2 (Cement: Sand -1: 4) or richer

4.0 RESULTS AND DISCUSSION

4.1 Visual Observations

Visual observations along with photographs showing the distress during the field investigation are attached as Annexure-I. Walls of all the tested buildings are of stone masonry. Detailed visual observations are given below:

Transit Camp:

1. Crack along the wall was observed. (Ref. Photo 1& 2)
2. Seepage spots were observed on walls and ceiling of room no. 01,02 & 04. (Ref. Photo 3 & 4)
3. Cracks were observed on walls in waiting hall. (Ref. Photo 5&6)
4. Crack was observed on wall of room no.03. (Ref. Photo 7)
5. Seepage spots were observed on wall of dining hall. (Ref. Photo 8)
6. Crack was observed on wall of dining hall. (Ref. Photo 9)
7. Spalling of concrete on soffit were observed. (Ref. Photo 10)

Recreation Centre:

1. Seepage spots were observed on walls. (Ref. Photo 11)
2. Cracks on the wall was observed. (Ref. Photo 12)

D Type Quarter:

1. Heavy spalling of concrete in ceiling with exposed reinforcement steel was observed. The exposed reinforcement steel seems to be in corroded condition. (Ref. Photo 13)
2. Spalling of concrete in patches with exposed reinforcement steel was observed on ceiling. The exposed reinforcement steel seems to be in corroded condition. (Ref. Photo 14)
3. Seepage spots were observed on the walls & ceiling. (Ref. Photo 15)
4. Cracks was observed on the walls. (Ref. Photo 16 & 17)
5. Termite growth was observed on the walls. (Ref. Photo 18)
6. Crack on external wall was observed. (Ref. Photo 19)



B Type Quarters

1. Seepage spots were observed on the ceiling and walls at many locations. (Ref. Photo 20 & 21)
2. Crack on the wall was observed at many locations. (Ref. Photo 22)
3. Spalling of concrete with exposed reinforcement steel was observed on slab above staircase of some quarters. The exposed reinforcement steel seems to be in corroded condition. (Ref. Photo 23)
4. Past repair work was observed on walls at many quarters. (Ref. Photo 24)
5. Spalling of concrete was observed on ceiling of quarter no B-5. (Ref. Photo 25)
6. Crack on the staircase of quarter no B-17 & B-18 was observed. Vegetation growth was observed on staircase. (Ref. Photo 26 & 27)
7. Spalling of concrete in patches with exposed reinforcement steel was observed on ceiling of quarter B-17. (Ref. Photo 28)
8. Seepage spots was observed on ceiling and walls of quarter B-18. (Ref. Photo 29)
9. Vegetation growth was observed on terrace. (Ref. Photo 30)

C Type Quarters

1. Heavy spalling of concrete with exposed reinforcement steel was observed in quarter no. C-7 & C-8. (Ref. Photo 31& 32)
2. Seepage spots was observed on ceiling and walls of some of quarters. (Ref. Photo 33 & 34)
3. Cracks on the wall was observed at some quarters. (Ref. Photo 35)

4.2 Ultrasonic Pulse Velocity Testing (UPV)

The UPV testing was conducted on accessible & randomly identified 15 nos. RCC slabs of Transit Camp, Recreation Center & Quarters of PGCIL Bassi. The results of the UPV test values obtained on these RCC members are given in **Annexure-II**. The obtained UPV test results were used to determine the concrete quality grading considering M25 grade of concrete as per Table-A of this report (M25 is the minimum grade for RCC under “Moderate” exposure as specified in IS 456:2000).

The obtained Mean Pulse Velocity (UPV test) value by surface probing is varying from **2.88 km/s** to **4.53 km/s** i.e. concrete quality grading is mentioned in the tables



TABLE - 1

TEST RESULT OF ULTRASONIC PULSE VELOCITY

(Surface probing done is made equivalent to cross probing by increasing 0.5 km/sec in obtained results which are ≥ 3.0 km/sec) as per IS 516 (Part 5/Sec 1): 2018).

Method of Test	Locations (refer Annexure-II)	Mean Pulse Velocity obtained (km/s)	Mean Pulse Velocity made equivalent to cross probing by adding 0.5 km/sec for values ≥ 3.0 km/s in obtained results	Concrete Quality Grading as per IS 516 (Part 5/Sec 1): 2018
Surface Probing Technique	(refer S.No.1) Terrace Slab (S1) of Transit Camp	4.01	4.51	Excellent
		3.96	4.46	Good
		4.03	4.53	Excellent
		3.69	4.19	Good
	(refer S.No.2) Terrace Slab (S2) of Transit Camp	3.56	4.06	Good
		3.52	4.02	Good
		3.46	3.96	Good
		3.61	4.11	Good
	(refer S.No.3) Terrace Slab (S3) of Recreation Centre	3.97	4.47	Good
		3.88	4.38	Good
		3.92	4.42	Good
		3.77	4.27	Good
	(refer S.No.4) Terrace Slab (S4) of Recreation Centre	3.46	3.96	Good
		3.45	3.95	Good
		3.42	3.92	Good
		3.29	3.79	Good
	(refer S.No.5) Terrace Slab (S5) of Type D, Quarter no. D1	3.58	4.08	Good
		3.49	3.99	Good
		3.41	3.91	Good
		3.26	3.76	Good
	(refer S.No.6) Terrace Slab (S6) of Type D, Quarter no. D1	3.19	3.69	Good
		3.03	3.53	Good
		3.21	3.71	Good
		3.11	3.61	Good
	(refer S.No.7)	3.52	4.02	Good
		3.70	4.20	Good



Surface Probing Method	Terrace Slab (S7) of Type B Quarter no. B6	3.76	4.26	Good
		3.43	3.93	Good
	(refer S.No.8) Terrace Slab (S8) of Type B Quarter no. B5	3.63	4.13	Good
		3.37	3.87	Good
		3.59	4.09	Good
		3.20	3.70	Good
	(refer S.No.9) Terrace Slab (S9) of Type B Quarter no. B28	3.40	3.90	Good
		3.58	4.08	Good
		3.91	4.41	Good
	(refer S.No.10) Terrace Slab (S10) of Type B, Quarter no. B18	3.81	4.31	Good
		3.74	4.24	Good
		3.85	4.35	Good
		3.76	4.26	Good
	(refer S.No.11) Terrace Slab (S11) of Type B, Quarter no. B17	3.71	4.21	Good
		3.75	4.25	Good
		3.76	4.26	Good
		3.70	4.20	Good
	(refer S.No.15) Terrace Slab (S15) of Type B, Quarter no. B23	2.92	-	Doubtful
		2.89	-	Doubtful
		2.97	-	Doubtful
		3.65	4.15	Good
	(refer S.No.12) Terrace Slab (S12) of Type C, Quarter no. C7	3.22	3.72	Good
		3.34	3.84	Good
		3.13	3.63	Good
		2.99	-	Doubtful
	(refer S.No.13) Terrace Slab (S13) of Type C, Quarter no. C8	3.24	3.74	Good
		3.01	3.51	Good
		2.88	-	Doubtful
		2.96	-	Doubtful
	(refer S.No.14) Terrace Slab (S14) of Type C, Quarter no. C9	3.32	3.82	Good
		3.68	4.18	Good
		3.80	4.3	Good
		3.67	4.17	Good



Based on the UPV testing, the overall concrete quality grading is determined in the identified 15 nos. RCC slabs of Transit Camp, Recreation Center & Quarters of PGCIL Bassi. On perusal of UPV test results, it is observed that out of 15 locations, the quality grading of concrete is **‘Good’** in 12 nos. of members and in rest 3 nos. of RCC members is in **Doubtful** category. The doubtful readings obtained may be due development of surface cracks in the slab.

4.3 Concrete Core Testing

Concrete cores samples were extracted from 8 nos. RCC slabs of Transit Camp, Recreation Center & Quarters of PGCIL Bassi to determine the equivalent cube compressive strength. The testing was done as per IS 516 (Part 4): 2018 at NCCBM Ballabgarh laboratory. Test results received are given in Table-2.

In absence of data regarding grade of concrete, the equivalent cube strength of concrete cores has been compared with the requirement for M25 grade of concrete which is the minimum grade for RCC under “Moderate” exposure condition as specified in IS 456:2000.

On perusal of test results, it is seen that the average equivalent cube strength of core samples is varying from **17.04 N/mm² to 31.26 N/mm²** (refer Table-2). The equivalent cube compressive strength of RCC Slab is **not satisfactory** in 5 nos. of locations for M25 grade of concrete. The concrete strength of slab is **satisfactory** in two locations for M25 grade of concrete. One core specimen could not be tested due core sample got crack during preparation. (Ref. SI. No. 5, Table 2).

4.4 Concrete Cover Study

The concrete cover depth to steel rebars (from outer most reinforcement) in randomly identified RCC slabs of Transit Camp, Recreation Center & Quarters of PGCIL Bassi on 14 nos. RCC slabs is measured with an Electromagnetic Cover meter/Ferro-scanner and a measuring tape/scale in the places where reinforcement steel is exposed and accessible for direct measurement. The measured concrete covers are compared with the minimum criteria for “moderate” exposure given in Table-B of this report. The concrete cover measured on the RCC members at 14 locations is given in Table 3. On perusal of test results, it is seen that the average concrete cover measured using Profoscope is varying from **14 mm to 21 mm** (from outer most reinforcement). The concrete cover measured in slabs is **not satisfactory** at all locations for moderate exposure as per IS 456:2000.

4.5 Carbonation Test

The carbonation depth was measured on the extracted concrete cores from randomly identified 8 nos. RCC slabs of Transit Camp, Recreation Center & Quarters of PGCIL Bassi. The depth of carbonation, measured from outer surface are given in Table-3.

The depth of carbonation determined on the extracted concrete cores from RCC slabs is varying from **25 mm to 49 mm**. The depth of carbonation is much more than provided concrete cover in all the tested slabs.



4.6 Half Cell Potential Measurements

Half-cell potential measurements, using copper electrode-copper sulfate Half-Cell technique, were taken at site to ascertain the corrosion of reinforcement steel in RCC members. The measurements were done on 14 randomly identified RCC slabs of Transit Camp, Recreation Center & Quarters of PGCIL Bassi. Test results are given in Table 4 and the same is compared with corrosion criteria as per IS 516 (Part 5/Sec 2): 2021 (also reproduced in Table C of this report).

On perusal of the test results, the average of Half-cell potential value obtained are varying from **-218 mV to -363 mV**. The results indicated that there is **greater than 90% probability that corrosion probability of corrosion** is occurring in that area at 1 location (ref. Sr. no. 6 of Table 4) and **probability of corrosion is uncertain** in rest 13 nos. of locations at the time of measurement. However, out of which at 7 nos. of locations the obtained values are nearer to -350 mV which means steel bars has greater than 90% probability that corrosion is occurring.

4.7 Electrical Resistivity

Electrical resistivity measurements using four-point Wenner probe technique were taken on 14 nos. randomly identified RCC Slabs of Transit Camp, Recreation Center & Quarters of PGCIL Bassi. The results are discussed below and details of test results is given in Table-5. Test result is compared with corrosion risk criteria as per Table-2 of RILEM TC 154-EMC (also reproduced in Table D of this report).

The measured resistivity values are varying from **12.12 kΩ-cm to 41.96 kΩ-cm** and when these measured values are compared with corrosion risk criteria as per Table-2 of RILEM TC 154-EMC, shows the risk of corrosion is **Moderate** at all tested locations. However, out of 14 locations, 7 locations reading varying from 12.12 kΩ-cm to 14.80 kΩ-cm, which are nearer to the high-risk of corrosion.

4.8 Chemical Analysis of Concrete Powder

Chloride content, Sulphate content and pH of concrete was determined in 6 nos. randomly identified RCC Slabs of Transit Camp, Recreation Center & Quarters of PGCIL Bassi from extracted concrete core samples. The test results received are given in Table-6.

The pH value in the RCC slabs is varying from **10.30 to 11.60**. The acid soluble chloride content varying from **0.74 kg/m³ to 0.94 kg/m³**, which is **more than the permissible limit of 0.6kg/m³** at all locations as per of IS 456:2000. The value of water-soluble chloride content is varying from 0.01 kg/m³ to 0.02 kg/m³. The value of total water-soluble sulphate (SO₃) content is varying from 1.0% to 1.3% by weight of cement in the mix, which is within the permissible limit of 4% as per the provision of IS 456:2000.



4.9 Chemical Analysis of Mortar

Sulphate content in the mortar (collected from Transit Camp, Recreation Center & Quarters of PGCIL Bassi) from the randomly identified stone masonry walls were determined from mortar powder samples. The values of test results are tabulated in Table 7.

The total water-soluble sulphates (SO_3) content varies from **0.03% to 0.11%** with an average value of **0.07%** by weight of cement in the mix, which is within the permissible limit of 4% as per codal provision of **IS: 456-2000 (As per clause-8.2.5.3)** in all the tested samples.

5.0 Findings:

i) Visual observations

During visual observation, distress in the form of spalling of concrete with exposed reinforcement steel bars were observed on the RCC slabs. Seepage spots were observed on the walls & ceiling at many locations. Cracks on the walls were observed at many locations. Vegetation growth were observed at some locations on the terrace.

ii) Ultrasonic Pulse Velocity Testing

The quality grading of concrete based on the UPV values obtained on the RCC members shows the grading of concrete at 12 nos. of locations is **Good** and the quality grading of concrete is **Doubtful** in 3 nos. of locations.

iii) Core Testing:

The compressive strength of concrete is **not satisfactory** in 5 nos. of locations and **satisfactory** at 2 nos. of locations for **M25** grade of concrete.

iv) Concrete cover measurement

Concrete cover measured is **not satisfactory** for Moderate exposure condition in all tested locations.

v) Carbonation depth measurement

The depth of carbonation measured is found **more than** provided cover in all tested locations.

vi) Half-Cell Potential Test

The average Half-cell Potential test conducted in 14 RCC members had indicated that:

- a. At 13 nos. RCC members the probability of **corrosion is uncertain** at the time of measurement. However, out of which at 7 nos. of locations the obtained values are nearer to -350 mV which means steel bars has **greater than 90% probability that corrosion is occurring.**
- b. At 1 no. of location of RCC member, there is **greater than 90% probability that corrosion is occurring**

vii) Resistivity Measurement

The electrical resistivity measurements taken using Wenner four probe technique on the concrete surface has indicated that in all tested RCC member risk of corrosion is Moderate. However, out of



14 locations, 7 locations reading varying from 12.12 k Ω -cm to 14.80 k Ω -cm, which is nearer to the high risk of corrosion.

viii) Chemical analysis of Concrete

The value of acid soluble chloride content is **more than** the permissible limit in all tested locations.

ix) Chemical analysis of Mortar

The average value of total water-soluble sulphate (SO₃) content is within the permissible limit of 4% in all the tested samples.

6.0 CONCLUSION

Based on the above findings, visually distress in the form of spalling of concrete from slabs with exposed reinforcement steel bars at many locations were observed. Seepage spots were observed on the walls & ceiling at many locations. Cracks on the walls and seepage on the walls & ceiling were observed at many locations. The depth of carbonation measured is found more than provided cover in all locations. The ascertain in-situ strength of concrete is found less than the M25 grade at 5 out of 8 tested locations of RCC members. Based on half-cell potential test, it indicates that the status of embedded steel bars has greater than 90% probability that corrosion is occurring at more than 50% locations. Out of 14 locations, 7 locations reading varying from 12.12 k Ω -cm to 14.80 k Ω -cm, which is nearer to the high-risk of corrosion. Based on chemical test, it is found that the chloride content in concrete is much higher than the permissible limit in all the RCC members. Also concrete is highly carbonated based on carbonation depth measurement. In this regard, literature states that in case of both chloride & carbonation induced corrosion occurring simultaneously then rate of corrosion increases and distress in RCC structure occurs at faster rate.

7.0 RECOMMENDATIONS

The building was constructed around 1992-1993; since then, the Indian standards for reinforcement concrete design and construction, seismic compliance of buildings, etc., have been revised & upgraded and also considering the buildings are load bearing structures, the building is not safe for living in its present condition. Also, if repair of this building is done, it will not increase the service life of the structure.

...End of Report...

Installation of 2 nos. of Synchronous Condensers (SynCon) units at 765/400/220kV Fatehgarh-II PS

S. No.	Items	Details
1.	Name of Scheme	Installation of 2 nos. of Synchronous Condensers (SynCon) units at 765/400/220kV Fatehgarh-II PS
2.	Scope of the scheme	2 nos. of Synchronous Condensers (SynCon) units* at 400kV level of 765/400/220kV Fatehgarh-II PS along with 2 nos. of 400kV bays <i>* 1 No. of SynCon unit comprises dynamic support of +300MVar/-200MVar (Minimum) & Short circuit contribution at PCC of 1200MVA (Minimum) (Value of inertia (MW-secs) shall be provided in RfP document</i>
3.	Depiction of the scheme on Transmission Grid Map	Attached at Exhibit-I
4.	Upstream/downstream system associated with the scheme	765/400/220 kV Fatehgarh-II PS is existing S/s of Power Grid Corporation of India Ltd. (Existing: 765/400kV:6x1500MVA + 400/220kV:9x500MVA & Under Construction: 1X1500 MVA+400/220kV:2X500MVA). Fatehgarh-II PS is currently connected with Bhadla S/s through 765 kV D/c lines & Bhadla-II S/s through 765 kV 2xD/c lines and with Fatehgarh PS through 765 kV D/c line (Op. at 400 kV). Fatehgarh-II PS is also interconnected to Fatehgarh-III PS (Sec-1) at 400kV level. Various RE generation projects are having connectivity with Fatehgarh-II PS at 400 kV (1000MW) & 220 kV level (4460MW) for evacuation of power through EHVAC transmission corridors.
5.	Objective / Justification	- The present scheme comprises Installation of 2 nos. of Synchronous Condensers (SynCon) units at 765/400/220kV Fatehgarh-II PS. - In the 36th CMETS-NR meeting held on 15.01.2025, agenda for Installation of 2 nos. of Synchronous Condensers (SynCon) units at 765/400/220kV Fatehgarh-II PS was deliberated. In the meeting it was stated that in the 71st NRPC meeting held on 29.01.24, it was deliberated that RE power is being integrated in fast pace country-wide and to ensure grid stability and provide inertial support in RE complex, requirement of dynamic compensation like Synchronous Condensers needs to be identified separately based on the detailed reactive power planning studies and the Short Circuit Ratios (SCRs) at different locations. - Accordingly, a committee was formed under Chairmanship of Member Secretary, NRPC along with members from CEA, NRPC, NRLDC, NLDC, NTPC, BHEL, CTU and STUs to do futuristic analysis for the requirement of Synchronous Condensers based on the inertia considerations for NR. Subsequently, the Committee conducted various meetings (Apr'24-Dec'24) wherein deliberations were held on the

S. No.	Items	Details
		requirements of Synchronous Condenser including other available technologies. During the committee meetings, presentations by different OEMs viz BHEL, Hitachi and Andritz Hydro were also made, highlighting various technological options available and its suitability under different system requirements. 4. Committee has concluded that in view of huge RE capacity addition in the Northern Region, particularly in Rajasthan State, and the challenges thereafter like Oscillations in RE complexes, Reactive Power, Inertia & Short Circuit ratio (SCR) requirements must be addressed accordingly. The Committee is in, therefore, consensus of installation of SynCons in RE complexes because of the following advantages of SynCons : • Enhancement in System Strength/ Short Circuit Ratio (SCR) • Fast Reactive Power Support during Faults/Transients • Increased Inertia and Frequency Response • Damping of Low Frequency Oscillations • Steady-state Reactive Power Support 5. A methodology has been adopted to identify optimal location for installation of SynCons, which includes low SCR (<5), proximity of HVDC station, dynamic compensation requirement, real time grid issues etc. 6. Location of SynCons as close to the generation [220kV] may appear to increase the SCR. However, at the same time at 400kV level its efficacy in supporting the grid will be more. Therefore, a prudent decision for SynCon placement at 220kV or 400kV needs to be taken on case-to-case basis. Based on the selection criteria discussed above, 7 nos. RE pooling stations were identified in RE complexes in Rajasthan for placement of SynCons with implementation schedule of 2026-27 to 2029-30, subject to availability of space at respective station. The committee recommends installation of first SynCon of 2 x+300/-200 MVAR at 400kV level either at Fatehgarh-II (Priority-1) or Fatehgarh-I (Priority-2) Substation with the completion timeline of 2026-2027 at Fatehgarh-II PS. The committee also recommended that CEA/MoP may consider the installation of proposed Syn Cons in TBCB or RTM mode similar to other transmission projects. The report was presented in 52nd TCC & 77th NRPC Meeting 27-28th Dec'24 and Forum noted the Committee Report and recommended the same for further submission to CEA. 7. In 36th CMETS-NR meeting Grid-India stated that they observed sustained oscillations on real time basis at Fatehgarh-II PS. Further, M/s POWERGRID vide mail dated 05.10.24 confirmed the space for 2x(80x95sqm) for installation of 2 nos. 300MVAR SynCon units at Fatehgarh-II PS 8. Considering Committee report recommendations comprising criteria for selection for installation of SynCons, Installation of

S. No.	Items	Details
		2 nos. of Synchronous Condensers (SynCon) units (2 x+300/-200 MVAR) at 400kV level of 765/400/220kV Fatehgarh-II PS was agreed in 36 th CMETS-NR meeting
6.	Estimated Cost	Rs 1160 Cr
7.	Need of phasing, if any	Not Applicable
8.	Implementation timeframe	30 months from allocation of project
9.	System Study for evolution of the proposal	Studies discussed and agreed in following meeting 36th CMETS-NR meeting held on 15.01.25 (MOM attached in Annexure-I)

Transmission Scheme: Installation of 2 nos. of Synchronous Condensers (SynCon) units at 765/400/220kV Fatehgarh-II PS

Sl. No.	Description of Transmission Element	Scope of work (Type of Substation/Conductor capacity/km/no. of bays etc.)	Time schedule (in months)
1	2 nos. of Synchronous Condensers (SynCon) units* at 400kV level of 765/400/220kV Fatehgarh-II PS along with 2 nos. of 400kV bays <i>*1 No. of SynCon unit comprises dynamic support of +300MVar/-200MVar (Minimum) & Short circuit contribution at PCC of 1200MVA (Minimum) (Value of inertia (MW-secs) shall be provided in RfP document</i>	- Synchronous Condenser units- 2 nos. 400kV Bay- 2 nos.	30 months from the date of allocation

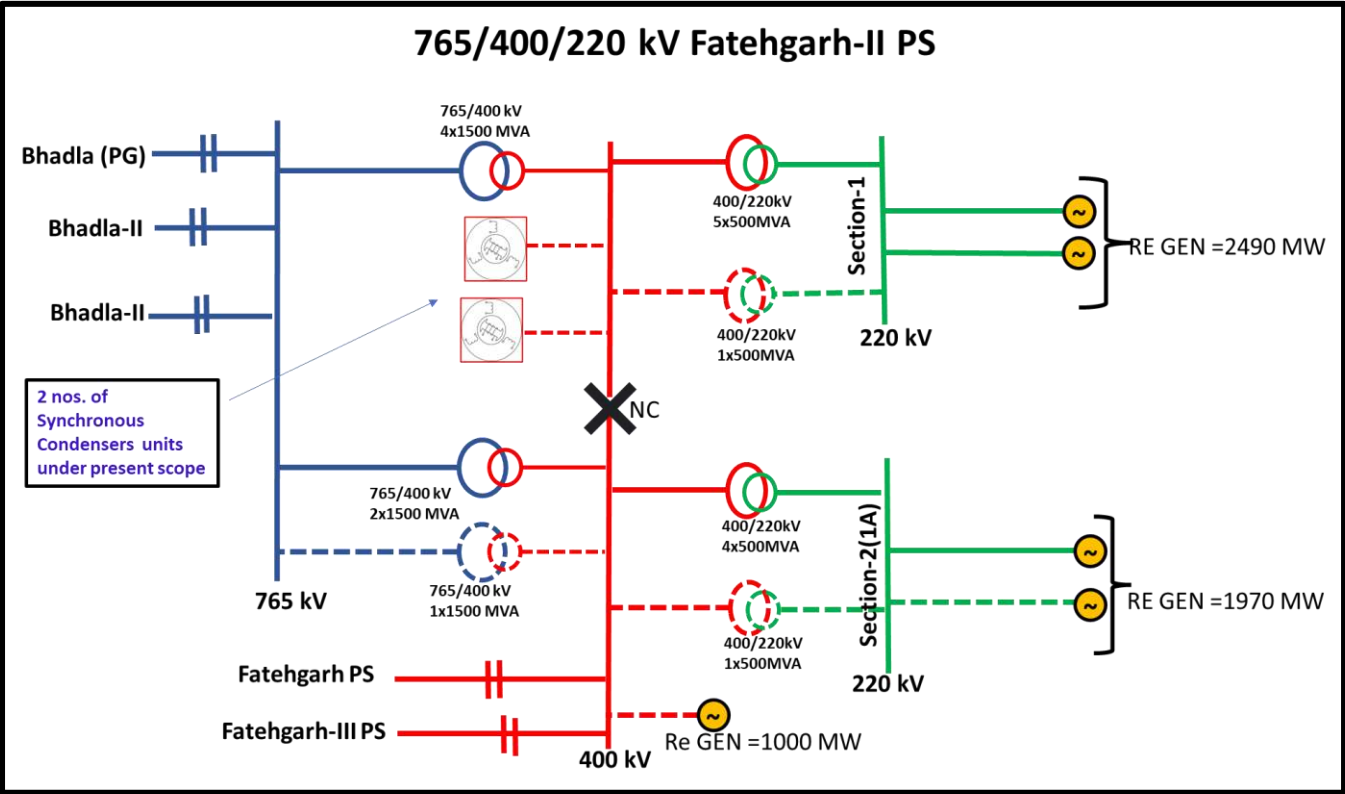


Fig : Installation of 2 nos. of SynCon units at 765/400/220kV Fatehgarh-II PS



सेंट्रल ट्रान्समिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

(A wholly owned subsidiary of Power Grid Corporation of India Limited)

(A Government of India Enterprise)

Ref: CTU/N/00/CMETS_NR/36

Date: 24-02-2025

As per distribution list

Subject: 36th Consultation Meeting for Evolving Transmission Schemes in Northern Region-Minutes of Meeting

Dear Sir/Ma'am,

Please find enclosed the minutes of the 36th Consultation Meeting for Evolving Transmission Schemes in Northern Region held on 15th January 2025 (Wednesday) through virtual mode.

The minutes are also available at CTU website (www.ctuil.in)

Thanking you,

Yours faithfully,

(Partha Sarathi Das)
Sr. General Manager (CTU)

			(Jhatikara-Bamnauli one ckt out:1407)			
Both sections Jhatikra connected through sectionalizer	400kV at S/s	3x897 (N-1: 1058/ICT)	2x897 (N-1: 1058)	1286 (Jhatikara-Bamnauli one ckt out:1456)	588+(2x553)	2x753 (N-1: 1332)

From the studies, it is envisaged that if both 400kV sections are interconnected through 400kV Sectionalizer at the event of contingency of 765/400kV ICTs (2x1500MVA) or 400kV Jhatikra-Mundka D/c line in section-2, loadings on 765/400kV ICTs in section-2 will be relieved about 150MW (one ICT outage) whereas loading on other ckt of 400V Jhatikra-Mundka line (one ckt outage) will be relieved about 170MW.

CTU vide mail 23.12.24 requested to Power Grid to confirm the space availability for 400kV Bus sectionaliser bay (1 set) at 765/400kV Jhatikra (PG) S/s. Power Grid stated that space is available for 400kV Sectionalization bay (Main bay-1&2) at 765/400kV Jhatikra (PG) S/s. CTU also stated that 765/400kV ICT augmentation (6th 1500MVA, 3rd in section-2 (Mundka section)) shall be taken up progressively along with 400kV corridor requirement. Grid-India and CEA agreed on the proposal.

In view of above following ISTS scheme is agreed:

- 1 no. 400kV bay (Main+Tie) (2 Breaker) (in Mundka section) at Jhatikara (PG) S/s – implementation schedule : 9 months (best effort 6 months)
- 400kV Sectionalization bay (1 set) at 765/400kV Jhatikara (PG) S/s to interconnect both 400kV sections at the event of contingency - implementation schedule: 18 months (best efforts 15 months)

G11. 2 nos. of Synchronous Condensers (SynCon) units in 765/400/220kV Fatehgarh-II PS

It was stated that in the 71st NRPC meeting held on 29.01.24, it was deliberated that RE power is being integrated in fast pace country-wide and to ensure grid stability and provide inertial support in RE complex, requirement of dynamic compensation like Synchronous Condensers needs to be identified separately based on the detailed reactive power planning studies and the Short Circuit Ratios (SCRs) at different locations.

Accordingly, a committee was formed under Chairmanship of Member Secretary, NRPC along with members from CEA, NRPC, NRLDC, NLDC, NTPC, BHEL, CTU and STUs to do futuristic analysis for the requirement of Synchronous Condensers based on the inertia considerations for NR. Subsequently, the Committee conducted various meetings (Apr'24-Dec'24) wherein deliberations were

held on the requirements of Synchronous Condenser including other available technologies. During the committee meetings, presentations by different OEMs viz BHEL, Hitachi and Andritz Hydro were also made, highlighting various technological options available and its suitability under different system requirements.

Committee has concluded that in view of huge RE capacity addition in the Northern Region, particularly in Rajasthan State, and the challenges thereafter like Oscillations in RE complexes, Reactive Power, Inertia & Short Circuit ratio (SCR) requirements must be addressed accordingly. The Committee is in, therefore, consensus of installation of SynCons in RE complexes because of the following advantages of SynCons :

- Enhancement in System Strength/ Short Circuit Ratio (SCR)
- Fast Reactive Power Support during Faults/Transients
- Increased Inertia and Frequency Response
- Damping of Low Frequency Oscillations
- Steady-state Reactive Power Support

A methodology has been adopted to identify optimal location for installation of SynCons, which includes low SCR (<5), proximity of HVDC station, dynamic compensation requirement, real time grid issues etc.

Location of SynCons as close to the generation [220kV] may appear to increase the SCR. However, at the same time at 400kV level its efficacy in supporting the grid will be more. Therefore, a prudent decision for SynCon placement at 220kV or 400kV needs to be taken on case-to-case basis. Based on the selection criteria discussed above, 7 nos. RE pooling stations were identified in RE complexes in Rajasthan for placement of SynCons with implementation schedule of 2026-27 to 2029-30, subject to availability of space at respective station. The committee recommends installation of first SynCon of 2 x+300/-200 MVar at 400kV level either at Fatehgarh-II (Priority-1) or Fatehgarh-I (Priority-2) Substation with the completion timeline of 2026-2027 at Fatehgarh-II PS. The committee also recommended that CEA/MoP may consider the installation of proposed Syn Cons in TBCB or RTM mode similar to other transmission projects.

Report of Committee on Futuristic analysis for requirement of Synchronous Condensers based on System Strength and Inertia considerations for Northern Region was published in Dec'24 and deliberated in 52th TCC/77TH NRPC meeting held on 27-28th Dec'24.

Grid India observed sustained oscillations on real time basis at Fatehgarh-II PS. Further, M/s POWERGRID vide mail 05.10.24 confirmed the space for 2x(80x95sqm) for installation of 2 nos. 300MVar SynCon units. Considering NRPC report study results, criteria for selection for installation of SynCons and space availability as discussed above, installation of SynCon of 2 x+300/-200 MVAR at 400kV level of Fatehgarh-II PS is proposed in present meeting.

In view of above following ISTS scheme is agreed

- 2 nos. of Synchronous Condensers (SynCon) units* at 400kV level of 765/400/220kV Fatehgarh-II PS along with 2 nos. of 400kV bays

*** 1 no. of SynCon unit comprises dynamic support of +300MVar/-200MVar (Minimum) & Short circuit contribution at PCC of 1200MVA (Minimum) with Minimum H (natural) >3 s**

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सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

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Ref: C/CTU/Comm/UPPTCL/01

02.11.2023

Managing Director,
Uttar Pradesh Power Transmission Corporation Ltd,
7th Floor Shakti Bhawan,
14-Ashok Marg, Lucknow- 226001
Uttar Pradesh

Sub: Regarding Fibre Sharing on UPPTCL lines for ULDC purpose for redundant communication of Narora (NAPP) (NPCIL) and Saharanpur (PG) ISTS nodes

Sir,

This is in with reference to 23rd meeting of Telecommunication, SCADA & Telemetry Sub Committee (TeST) of NRPC held on 21.09.23 through video conference. The Minutes of Meetings (MoM) were issued on 23.10.2023 and are attached with this letter. In the meeting redundant communication of Narora, NPCIL (NAPP) & Saharanpur (PG) was deliberated which is minuted at para 6 & 14 of MoM.

Further, with reference to MoM clause 6.4 & 14.3, MS, NRPC requested CTUIL to write a letter to UPPTCL for fibre sharing on their OPGW links to provide redundant communication with the following details:

A. Fibre Sharing requirement for NAPP (NPCIL)

NAPP is presently connected via path NAPP (ISGS) -Khurja (UP)-Sikandarabad(UP)- Dadri (UP)- Muradnagar 400(UP)-Dadri (PG). To provide redundant communication for NAPP, laying of approx. 88 Km of OPGW from Narora (ISGS) to Simbhavali (UP) shall be installed under ISTS project and atleast 6 nos. of fibre sharing is required on the following links of UPPTCL:

1. Simbhavali (UP) - Shatabdi Nagar (UP)
2. Shatabdi Nagar (UP) - Modipuram (ULDC node under ISTS)

2 nos. of STM-16 FOTE are proposed under ISTS one each at Simbhavali (UP) and Shatabdi Nagar (UP).

This arrangement will also strengthen the redundancy of Modipuram which is backup SLDC of UPPTCL .



सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

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B. Fibre Sharing requirement for Saharanpur (PG)

Saharanpur (PG) is presently connected with Roorkee (PG), to provide redundant communication to Saharanpur (PG) atleast 6 nos. of fibre sharing is required on the following links of UPPTCL:

1. Saharanpur (PG)- Deoband (UP)
2. Deoband (UP)- Saharanpur (UP)
3. Saharanpur (UP) -Nanauta (UP)
4. Nanauta (UP)-Shamli (UP)
5. Shamli (UP) -Muradnagar (ULDC node under ISTS)

5 Nos of STM-16 equipment at Saharanpur (PG), Deoband (UP), Saharanpur (UP), Nanauta (UP) and Shamli (UP) are proposed under ISTS.

It is to be mentioned that fibre required on UPPTCL links shall be solely used for ULDC & Grid Management purposes.

After receiving the confirmation of fibre sharing from UPPTCL, scheme shall be prepared by CTUIL and put up for approval in NCT after getting views of NRPC.

It is requested that UPPTCL may provide their consent for above mentioned sharing of fibers to CTUIL so that scheme shall be finalised at the earliest.

Thanking you,

Yours faithfully,

(H S Kaushal)
Sr. GM (CTUIL)



सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

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Ref: C/CTU/Comm/UPPTCL/02

09.04.2025

Managing Director,
Uttar Pradesh Power Transmission Corporation Ltd,
7th Floor Shakti Bhawan,
14-Ashok Marg, Lucknow- 226001
Uttar Pradesh

Sub: Regarding Fibre Sharing on UPPTCL links for providing redundant communication to Narora (NAPP) (NPCIL) and Saharanpur (PG) ISTS stations

Sir,

This is with reference to our earlier letter dtd. 02.11.2023 (attached at Annexure-I) regarding sharing of fibers from UPPTCL links for providing redundant communication to Narora, NPCIL (NAPP) & Saharanpur (PG) ISTS stations.

A. Fibre Sharing requirement for NAPP (NPCIL)

NAPP is presently connected via path NAPP (ISGS) -Khurja (UP)-Sikandarabad (UP)- Dadri (UP)- Muradnagar 400(UP) -Dadri (PG). To provide redundant communication for NAPP, laying of approx. 88 Km of OPGW from Narora (ISGS) to Simbhavali (UP) shall be installed under ISTS project and 6 nos. of fibre sharing is required on the following links of UPPTCL:

1. Simbhavali (UP) - Shatabdi Nagar (UP)
2. Shatabdi Nagar (UP) - Modipuram (ULDC node under ISTS)

B. Fibre Sharing requirement for Saharanpur (PG)

Saharanpur (PG) is presently connected with Roorkee (PG), to provide redundant communication to Saharanpur (PG) 6 nos. of fibre sharing is required on the following links of UPPTCL:

1. Saharanpur (PG)- Deoband (UP)
2. Deoband (UP)- Saharanpur (UP)
3. Saharanpur (UP) -Nanauta (UP)
4. Nanauta (UP)-Shamli (UP)
5. Shamli (UP) -Muradnagar (ULDC node under ISTS)



सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

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It is to mention that CEA has issued guidelines “*Comprehensive guidelines for the usage and sharing of fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable for power system applications*” by letter dtd 03.03.2025 (attached at Annexure-II). The matter was explained by CEA during the 78th NRPC Meeting.

Further, in the Special TeST Meeting held on 24.03.2025 (MOM attached at Annexure-III) under the chairmanship of MS NRPC, it was decided that CTU shall write a follow up letter to UPPTCL in this regard.

It is requested that UPPTCL shall give their consent as per the above said guidelines in order to finalize the scheme to provide redundant communication to above said stations.

Thanking you,

Yours faithfully,

(H S Kaushal)
Sr. GM (CTUIL)

CC:

1. Member Secretary

Northern Regional Power Committee 18A, Shaheed Jeet Singh
Sansanwal Marg, Katwaria Sarai, New Delhi – 110 016



सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड

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Ref: C/CTU/Comm/UPPTCL/01

02.11.2023

Managing Director,
Uttar Pradesh Power Transmission Corporation Ltd,
7th Floor Shakti Bhawan,
14-Ashok Marg, Lucknow- 226001
Uttar Pradesh

Sub: Regarding Fibre Sharing on UPPTCL lines for ULDC purpose for redundant communication of Narora (NAPP) (NPCIL) and Saharanpur (PG) ISTS nodes

Sir,

This is in with reference to 23rd meeting of Telecommunication, SCADA & Telemetry Sub Committee (TeST) of NRPC held on 21.09.23 through video conference. The Minutes of Meetings (MoM) were issued on 23.10.2023 and are attached with this letter. In the meeting redundant communication of Narora, NPCIL (NAPP) & Saharanpur (PG) was deliberated which is minuted at para 6 & 14 of MoM.

Further, with reference to MoM clause 6.4 & 14.3, MS, NRPC requested CTUIL to write a letter to UPPTCL for fibre sharing on their OPGW links to provide redundant communication with the following details:

A. Fibre Sharing requirement for NAPP (NPCIL)

NAPP is presently connected via path NAPP (ISGS) -Khurja (UP)-Sikandarabad(UP)- Dadri (UP)- Muradnagar 400(UP)-Dadri (PG). To provide redundant communication for NAPP, laying of approx. 88 Km of OPGW from Narora (ISGS) to Simbhavali (UP) shall be installed under ISTS project and atleast 6 nos. of fibre sharing is required on the following links of UPPTCL:

1. Simbhavali (UP) - Shatabdi Nagar (UP)
2. Shatabdi Nagar (UP) - Modipuram (ULDC node under ISTS)

2 nos. of STM-16 FOTE are proposed under ISTS one each at Simbhavali (UP) and Shatabdi Nagar (UP).

This arrangement will also strengthen the redundancy of Modipuram which is backup SLDC of UPPTCL .



सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

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B. Fibre Sharing requirement for Saharanpur (PG)

Saharanpur (PG) is presently connected with Roorkee (PG), to provide redundant communication to Saharanpur (PG) atleast 6 nos. of fibre sharing is required on the following links of UPPTCL:

1. Saharanpur (PG)- Deoband (UP)
2. Deoband (UP)- Saharanpur (UP)
3. Saharanpur (UP) -Nanauta (UP)
4. Nanauta (UP)-Shamli (UP)
5. Shamli (UP) -Muradnagar (ULDC node under ISTS)

5 Nos of STM-16 equipment at Saharanpur (PG), Deoband (UP), Saharanpur (UP), Nanauta (UP) and Shamli (UP) are proposed under ISTS.

It is to be mentioned that fibre required on UPPTCL links shall be solely used for ULDC & Grid Management purposes.

After receiving the confirmation of fibre sharing from UPPTCL, scheme shall be prepared by CTUIL and put up for approval in NCT after getting views of NRPC.

It is requested that UPPTCL may provide their consent for above mentioned sharing of fibers to CTUIL so that scheme shall be finalised at the earliest.

Thanking you,

Yours faithfully,

(H S Kaushal)
Sr. GM (CTUIL)

Annexure-II

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power System Communication Development Division

Subject: Comprehensive guidelines for the usage and sharing of optical fibers of OPGW/UGFO cables for power system applications - reg

महोदय / Sir,

The rapid expansion and modernization of the power sector necessitate a robust, secure and efficient communication infrastructure. Optical Ground Wire (OPGW)/Underground Fiber Optic Cable (UGFO) plays a crucial role in ensuring seamless data exchange, real-time monitoring, and reliable operation of power systems. However, with increasing demands and multiple stakeholders involved in fiber usage, it became essential to establish a structured framework governing the sharing and utilization of fiber cores of OPGW/UGFO cable.

A Committee was constituted under the chairmanship of Member (Power System), CEA tasked with formulating comprehensive guidelines for the usage and sharing of fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable for power system applications.

With the collective efforts of the Committee, CEA has formulated Comprehensive guidelines for the usage and sharing of fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable for power system applications. The list of nominated members and the Terms of Reference of the Committee are attached as Annexure to the guidelines.

It is requested that all utilities/TSPs, power system stakeholders, and users to adopt and adhere to these guidelines.

भवदीय,
Signed by Suman Kumar
Maharana
Date: 03-03-2025 13:13:55
(S K Maharana)
Chief Engineer,
Power System Communication Development Division,
Central Electricity Authority



Comprehensive guidelines for the usage and sharing of fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable for power system applications

**भारत सरकार
Government of India**

**केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority**

**विद्युत मंत्रालय
Ministry of Power**

February 2025

Acknowledgement

The rapid expansion and modernization of the power sector necessitate a robust, secure and efficient communication infrastructure. Optical Ground Wire (OPGW)/Underground Fiber Optic Cable (UGFO) plays a crucial role in ensuring seamless data exchange, real-time monitoring, and reliable operation of power systems. However, with increasing demands and multiple stakeholders involved in fiber usage, it became essential to establish a structured framework governing the sharing and utilization of OPGW fibers.

The formulated guidelines establish a structured approach to fiber allocation, safeguarding power system communication needs and mitigating future conflicts. These guidelines also ensure that commercial leasing of fiber cores is managed in a way that does not hinder the grid's operational efficiency and reliability.

A committee was constituted with the approval of the Chairperson, CEA, to formulate comprehensive guidelines for the usage and sharing of fiber cores of OPGW/UGFO cable for power system applications. The complete list of the nominated members of the Committee as well as Terms of Reference of the Committee has been annexed with the guidelines.

As the Convenor of the Committee, I express my deepest gratitude to all committee members for their invaluable contributions in shaping these guidelines. Their collective efforts have resulted in a standardized framework that will ensure transparency and efficiency in the usage and sharing of OPGW fiber infrastructure. The technical insights and dedication of all Committee members have played a crucial role in developing these comprehensive guidelines, which will significantly mitigate conflicts and enhance the reliability of grid communications.

I extend special thanks to Shri Ghanshyam Prasad, Chairperson, CEA, for his vision and leadership in constituting this Committee. I am also grateful to Shri A K Rajput, Member (Power Systems), CEA, for chairing the Committee and steering discussions towards a balanced and effective outcome.

Furthermore, I would like to acknowledge the specific contribution made by the officers of Power System Communication Development Division, CEA namely Ms. Priyam Srivastava, Deputy Director; Shri Akshay Dubey, Deputy Director and Shri Arjun Agarwal, Assistant Director. The guidelines have been brought out by the dedicated and sincere efforts of these officers.

*Shri S K Maharana,
Chief Engineer, PSCD Division & Convenor of the Committee*

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Abbreviations:

1.	AGC - Automatic Generation Control
2.	CERC - Central Electricity Regulatory Commission
3.	CTU - Central Transmission Utility
4.	FOTE - Fiber Optic Terminal Equipment
5.	GSS - Grid Substation
6.	IEEE - Institute of Electrical and Electronics Engineers
7.	IEC - International Electrotechnical Commission
8.	InSTS - Intra-State Transmission System
9.	IPPs - Independent Power Producers
10.	ISGS - Inter-State Generating Station
11.	ISTS - Inter-State Transmission System
12.	LILo - Loop-in-Loop-Out
13.	NLDC - National Load Dispatch Center
14.	NoC - No Objection Certificate
15.	OPGW - Optical Ground Wire
16.	PMU - Phasor Measurement Unit
17.	PSCD - Power System Communication and Development
18.	RLDC - Regional Load Dispatch Center
19.	RoW - Right of Way
20.	SCADA - Supervisory Control and Data Acquisition
21.	SERC - State Electricity Regulatory Commission
22.	SLDC - State Load Dispatch Center
23.	STU - State Transmission Utility
24.	TSP - Transmission Service Provider
25.	UGFO – Under Ground Fiber Optic Cable
26.	VoIP - Voice over Internet Protocol

Comprehensive guidelines for the usage and sharing of fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable for power system applications

1. Introduction

- 1.1. These guidelines have been formulated to establish a uniform procedure for the sharing of fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable deployed across the power transmission network, ensuring reliable, secure, and continuous monitoring and operation of the grid. They provide a comprehensive framework for fiber allocation, addressing the diverse needs of grid operations, system protection, as well as authorized commercial use. It establishes principles for effective resource allocation, maintaining sufficient redundancy to support future requirements, such as Loop-in-Loop-Out (LILO) expansions, network reconfiguration and scalability to accommodate evolving operational demands.
- 1.2. In alignment with the *Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020*, and the *Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022*, these guidelines have been formulated to support seamless communication needs for power system at national level, regional level, inter-state and intra-state level. By fostering a consistent approach to fiber sharing and allocation, these guidelines intends to promote interoperability and efficiency across multiple entities and users within the power system, ensuring reliable and uninterrupted communication system, which is critical for grid stability and operations.

2. Allocation Requirements

- 2.1. On any transmission line, minimum of 6 fibers are always in use for critical grid communication, supporting Supervisory Control and Data Acquisition (SCADA), Phasor Measurement Unit (PMU), Voice over Internet Protocol (VoIP), Automatic Generation Control (AGC), and other real-time operations (2 Main, 2 Hot Standby, 2 Spares).

Additionally, for transmission lines requiring line differential protection:

- **4 fibers** are used for reliable differential protection of single feeder (S/c line).
- **8 fibers** are used for reliable differential protection of a double circuit (D/c) line.

- 2.2. Over and above these fibers which are already in use, the fibers that shall be spared for future grid communication requirements, based on need, is tabulated below:

Type of Future Grid Communication Requirements	Fiber Allocation	Remarks
Alternate Communication Path/Future expansion/Reconfiguration/LILO requirement/Inter-Utility Communication etc.	Upto 6 Fibers	Shall be spared as and when required for future grid communication requirements of ISTS/In-STS/ISGS/Radial feeders etc.

Type of Future Grid Communication Requirements	Fiber Allocation	Remarks
Line Differential Protection with future reconfiguration, if applicable.	Upto 4 Fibers per circuit	Shall be spared in case new differential protection schemes are required due to system expansion, reconfiguration or LILO additions.
Technology Migration/Centralised Asset Management & Control.	Upto 4 Fibers	Shall be spared for simultaneous transition to next-generation communication networks (e.g., packet-based systems).

Additional Considerations:

1. The actual number of healthy fiber cores to be spared free of cost for future grid telemetry requirements, within the limits stipulated in table above, shall be decided as and when the need arises.
2. **Commercial Utilisation of Fiber cores –**
 - While leasing excess fibers for **non-grid applications**, utilities/Transmission Service Providers (TSPs) must **reserve the right to intervene, seek withdrawal, or cease utilization of leased fibers** to address any emerging grid requirements. The contract to include flexibility for renewal or termination based on evolving needs.
 - The **number of fiber cores to be leased** and the **duration of leasing** must be planned in a rational way, such that, whenever the need arises to spare fibers for grid applications, their availability cannot be denied on the premise that the spare fibers are already leased out for commercial purpose. Additionally, under no circumstances should the routing of grid application data to the SLDC/RLDC (State/Regional Load Dispatch Centers) be adversely affected.

3. Commercial Utilization of OPGW Fibers for other purposes

- 3.1. While Optical Ground Wire (OPGW) is primarily implemented on transmission assets for telemetering power system parameters and ensuring reliable grid communication, spare fiber cores may be commercially utilized under the following conditions:
 - 3.1.1. **Grid Applications Take Priority** – Spare fibers can be leased for commercial purposes, provided that whenever the need arises for grid applications, the number of cores within the limits stipulated in the Allocation Requirements, is made available without exception.
 - 3.1.2. **Assessment of Future Grid Communication Needs** – Before leasing fiber cores, STUs/TSPs must conduct an assessment of impending grid communication requirements for atleast next five years. This assessment shall be holistic considering state/regional/national level requirements for routing of the data to SLDCs/RLDCs. STUs/TSPs intending to lease fiber cores to collaborate with CTU to discuss:

- Upcoming **grid expansion plans** and their communication requirements.
- Possible dependencies where **ISTS/STU networks need mutual data routing support**.
- The spare fiber capacity that should be **retained for future grid needs** before considering commercial leasing.

Based on this assessment, entities must determine **how many cores can be leased** and the **duration of leasing**, without affecting the availability for future grid applications.

3.1.3. **Termination Clause in Leasing Contracts** – All leasing contracts must include a termination clause, mandating at max 18 month notice period for making the fiber cores available for grid applications whenever required. This ensures that grid operator can reclaim the necessary fibers for critical grid operations with adequate notice. However, it is always advisable to retain some spare fibers for emergency or future grid communication needs in advance, rather than having to invoke the termination clause of the contract when the need arises.

3.1.4. **Regulatory Compliance** – Any commercial utilization of spare fibers must adhere to applicable CERC/SERC regulations pertaining to the ‘Sharing of Revenue Derived from Utilization of Transmission Assets for Other Business.’

3.1.5. **Intimation to RPCs for ISTS Fiber Leasing** –

Any ISTS licensee/TSPs proposing to lease fiber cores on a commercial basis must provide prior intimation to the concerned Regional Power Committees (RPCs) regarding:

- i. The number of fiber cores proposed for commercial utilization.
- ii. The duration of the lease.
- iii. The mechanism incorporated in the contract to ensure fiber availability in case of future grid requirements.

3.2. It must be emphasized that the primary purpose of fibers in OPGW/UGFO implemented as part of a transmission scheme is reliable telemetering of power system parameters. Commercial utilization of these transmission assets can only be done after a prudent evaluation of future grid communication needs, ensuring that grid operations are never compromised.

3.3. Proper planning and foresight are necessary to ensure that the commercial use of spare fibers does not jeopardize the security, reliability, and expansion needs of the power system communication network.

4. Sharing Scenarios

The table below outlines fiber-sharing arrangements across different transmission line ownership scenarios, ensuring that:

- Fibers essential for grid operations are spared free of cost, irrespective of whether they are required for Intra-State (InSTS) or Inter-State (ISTS) communication needs.
- Entities to spare healthy fibers, within the limits stipulated in the Allocation Requirements, whenever grid needs arise.

Scenario	Entity to manage the allocation for grid operation purposes.	Fiber Sharing
i) OPGW Laid Under ULDC Scheme on ISTS Lines	Owned and maintained by POWERGRID. Allocation to be managed by CTU.	Fibers to be spared free of cost as per Allocation Requirements outlined in Clause 2, whenever required by STUs, ISTS Licensees/TSPs for any type of future grid communication requirements.
ii) OPGW Laid Under ULDC Scheme on Intra-State Lines (InSTS)	Owned and maintained by POWERGRID. Allocation to be managed by STU with CTU coordination.	Fibers to be spared free of cost as per Allocation Requirements outlined in Clause 2, whenever required by STUs, ISTS Licensees/TSPs for any type of future grid communication requirements.
iii) OPGW Laid by STUs on Intra-State Lines	Owned and maintained by STU. Allocation to be managed by STU.	Fibers to be spared free of cost as per Allocation Requirements outlined in Clause 2, whenever required by STUs, ISTS Licensees/TSPs for any future grid communication requirements.
iv) OPGW Laid by CTU/POWERGRID on Intra-State Lines	Owned and maintained by POWERGRID. Allocation to be managed by CTU with STU coordination.	50% fibers allocated for ISTS operations , 50% for Intra-State operations . If more than 50% is required by either, fibers to be spared free of cost , for any type of future grid communication requirements.
v) OPGW Laid by TSPs on ISTS Lines under TBCB/RTM Projects	Owned and maintained by TSP. Allocation to be managed by CTU	Fibers to be spared free of cost as per Allocation Requirements outlined in Clause 2, whenever required by STUs, ISTS Licensees/TSPs for any type of

Scenario	Entity to manage the allocation for grid operation purposes.	Fiber Sharing
		future grid communication requirements.
vi) OPGW Laid by TSPs on Intra-State Lines through TBCB	Owned and maintained by TSP. Allocation to be managed by STU	Fibers to be spared free of cost as per Allocation Requirements outlined in Clause 2, whenever required by STUs, ISTS Licensees/TSPs for any type of future grid communication requirements.
vi) OPGW Laid by POWERGRID/STU's on Deemed ISTS Lines	Owned and maintained by POWERGRID/STU. Allocation to be managed by CTU with STU coordination.	50% fibers allocated for ISTS operations , 50% for Intra-State operations . If more than 50% is required by either, fibers to be spared free of cost for any type of future grid communication requirements.
vi) OPGW Laid by TSPs at their own cost, utilizing the ISTS asset/RoW, with necessary approvals from CERC.	Owned and maintained by TSP. Allocation to be managed by CTU, as the OPGW now, is forming integral part of backbone ISTS Communication network. It is assumed that: • No OPGW was included in the originally approved scheme for the transmission line. • The TSP obtained necessary approvals from the competent authority prior to laying the OPGW.	Fibers to be spared free of cost as per Allocation Requirements outlined in Clause 2, whenever required by STUs, ISTS Licensees/TSPs for any type of future grid communication requirements.

5. Integration of FOTE for Differential Protection

5.1. Differential teleprotection is a vital component of power system protection, ensuring rapid and selective fault clearance. The choice of communication medium, whether IEEE C37.94 (herein after referred as C37.94) protocol over a shared fiber or separate optical fibers, significantly impacts the reliability and performance of this protection scheme.

- 5.2. The choice between C37.94 compliant FOTE and separate fiber cores for differential teleprotection depends on a variety of factors, including line length, voltage level, criticality, and network conditions. While C37.94 can be a cost-effective solution for certain applications, separate fibers offer superior reliability and faster fault clearance, making them the preferred choice for critical transmission lines, especially at higher voltage levels.
- 5.3. The Regional Power Committees (RPCs) generally prioritize a **reliable and dedicated communication link for line differential protection** to ensure the integrity and security of protection signals, especially given the criticality of fast and accurate fault detection for power system stability.
- 5.4. While specific practices may vary depending on the line's voltage level, length, and criticality, however, in order to guarantee reliable communication for line differential protection systems, the Committee recommends the following provisions:

Condition	Recommendation	Reason
High-Criticality and High-Voltage Lines (220 kV and above) requiring line differential protection	Preference to dedicated or separate fiber cores for line differential protection rather than shared fibers.	As per IEC 60834, which governs teleprotection equipment, the RPCs lean towards using communication setups that meet high reliability and availability standards, favoring separate fibers to reduce signal attenuation and improve reliability for critical protection.
Lower-Criticality or lines with Voltage below 220 kV requiring line differential protection	Line differential protection may be allowed on shared fibers via Fiber Optic Terminal Equipment (FOTE) using the C37.94 protocol	Multiplexing protection signals over a shared fiber can be a cost-effective solution, particularly when the risk of latency and interference is lower due to shorter transmission distances and moderate fault current levels.
High-Criticality and High-Voltage Lines (220 kV and Above) requiring line differential protection. However, having constraint in availability of dedicated Optical fibers.	Line differential Protection using C37.94-compliant FOTE over shared fiber may be allowed with the following condition: •The setup must meet the provisions of IEC 60834 regarding speed, security, and dependability standards under real-time conditions.	By ensuring reliable and timely communication, C37.94-compliant FOTEs can contribute to meeting the requirements of IEC 60834.

6. Routing of OPGW Fibers during LILO

6.1. In case of Loop-In-Loop-Out (LILO) of transmission lines, routing OPGW fibers must be done in a way that preserves the operational integrity of the grid's communication infrastructure. Key recommendations are elucidated in table below:

Main Line and LILO Configuration	LILO Tower Type	OPGW Installation Requirement	Fiber Routing/Splicing in New Substation	Configuration Adjustments in Existing Substations
Main Line: D/c, 24-Fiber OPGW; S/c LILO	M/c Or D/c Tower (Single Tower for Loop In and Out) with two Earth wire peaks	Install 24 F OPGW on both earthwire peaks i.e same Nos. of OPGW as that of main line on both earth wire peaks.	Route required no. of fibers only through the new substation. Splice the required number of fibers for the LILO section at the appropriate point.	Configure protection schemes and data transfer systems to accommodate the new line and substation Ensure fiber continuity for main line traffic.
Main Line: D/c, 24-Fiber OPGW; D/c LILO	Two Separate D/c Towers (Separate Loop In and Out)	Install 24F OPGW i.e same Nos. of fiber cores as that of main line on one earthwire peak per tower.	Route all fibers of OPGW from the main line through the new substation. Splice the required number of fibers for the LILO line at the new substation, if the new S/stn is of different entity.	Configure protection schemes and data transfer systems to accommodate the new line and substation Ensure fiber continuity for main line's traffic through the new S/stn
Main Line: D/C, 24-Fiber OPGW; D/c LILO	Multi-Circuit Tower	Install 24 F OPGW on both earthwire peaks i.e same Nos. of OPGW as that of main line on both earth wire peaks.	Route all fibers of OPGW from the main line through the new substation. Splice the required number of fibers for the LILO line at the new substation, if the new S/stn is of different entity.	Configure protection schemes and data transfer systems to accommodate the new line and substation Ensure fiber continuity for main line's traffic through the new S/stn

Main Line and LILO Configuration	LILO Tower Type	OPGW Installation Requirement	Fiber Routing/Splicing in New Substation	Configuration Adjustments in Existing Substations
Main Line: D/c (220 kV/132 kV), 24-Fiber OPGW; S/c LILO	Tower with Singe Earth wire peak	Install 48F OPGW i.e., double the number of fiber cores as that of main line on single peak available in LILO portion	Route half number of fibers (12F) of OPGW from the main line through the new substation Splice the required number of fibers for the LILO section at the appropriate point.	Configure protection schemes and data transfer systems to accommodate the new line and substation. Ensure fiber continuity for main line traffic.
Main Line: S/C (220kV/132 kV), 24-Fiber OPGW; S/c LILO	Tower with Singe Earth wire peak	Install 48F OPGW i.e., double the number of fiber cores as that of main line on single peak available in LILO portion	Route all fibers (24F) of main line OPGW through the new substation to maintain continuity between the existing stations. Splicing of all the fibers at the new S/stn to be done to integrate LILO traffic.	Configure protection schemes and data transfer systems to accommodate the new line and substation. Ensure fiber continuity for main line's traffic through the new S/stn.

6.2. Whenever a Transmission Licensee implements a Loop-In-Loop-Out (LILO) arrangement on an existing transmission line, adjustments must be made in the **existing Substations**, including **Fiber Optic Terminal Equipment (FOTE)**, **relays**, and **other protection equipment** to ensure seamless integration and reliable protection.

Table summarizing LILO adjustments in existing Substations

Equipment	Adjustments Required	Details
Fiber Optic Terminal Equipment (FOTE)	Signal reconfiguration, routing modifications, capacity upgrades, synchronization, integration with new FOTE, supply of necessary optical	Ensure compatibility with new LILO traffic, enhance capacity if required, and synchronization with relays.

Equipment	Adjustments Required	Details
	interfaces to meet link budget requirement.	
Relays	Reconfiguration of protection schemes, distance zone adjustments, differential protection tuning.	Modify relay settings for fault detection across LILO, adjust impedance settings, and back-up coordination.
SCADA and Telemetry	Data routing, alarm configuration, SCADA system updates.	Integrate new LILO substation data into SCADA, configure additional alarms for LILO events.
Amplifiers/Signal Boosters	Installation if required, signal quality testing.	Ensure strong signal levels across LILO paths, perform attenuation checks.
Protection Redundancy	Ensure redundancy, perform testing and commissioning.	Verify that no single point of failure exists, conduct fault simulations, and document updated settings.

6.3. The entity undertaking the LILO installation and commissioning of the new substation shall ensure that all necessary adjustments, interfaces, and configuration support are implemented to maintain seamless data communication and reliable operation of protection schemes without signal degradation or loss. It is incumbent upon this entity to provide comprehensive support to the owner of the existing substation, facilitating integration and ensuring that all configuration and interoperability requirements are met to uphold continuous, high-integrity signal transmission and effective protection functionality across the network.

6.4. When the LILO is performed at the substation, the leased fiber cores, if any, by the main line owner must be routed continuously through the LILO section. Entity undertaking LILO cannot commercialize fibers routed for main line owner's use to prevent potential disputes.

7. Maintenance of Database:

7.1. CTU for ISTS/ STUs for InSTS shall be responsible for monitoring the utilization of OPGW fibers and ensuring compliance with the established conditions. The CTU/STU shall maintain a comprehensive database that clearly segregates:

1. **Total number of OPGW fiber cores:** The total number of fiber cores available on the OPGW of the transmission lines.
2. **Number of cores utilized for grid applications:** The number of fiber cores currently being used for essential grid operations
3. **Spare cores reserved for grid applications:** The number of fiber cores specifically retained for future grid applications.

4. **Number of fiber cores already being shared for grid applications:** The number of fiber cores shared with other grid entities (e.g., other TSPs, STUs, DISCOMs) for grid-related purposes. This should include details of the entities involved in each sharing arrangement.
5. **Number of cores leased on a commercial basis:** The number of fiber cores leased to entities for non-grid applications (e.g., telecom providers, internet service providers). This should include details of the lease agreements, including the lessee, lease period, and terms of termination.

7.2. CTU/STU shall prepare a standardized format/procedure for the TSPs/Licensees to furnish the above data pertaining to OPGW fibers. CTU/STU shall display the data on its website.

8. OPGW Implementation in New Transmission Projects and Upgradation Schemes

- 8.1. In all the new transmission projects and upgradation schemes, the Planning agency should ensure that any decision regarding deployment of fiber cores considers both present needs and future expansions, balancing the infrastructure's capability with associated costs.
- 8.2. Planning of OPGW with a minimum of 48 fiber cores to be done, as per feasibility and requirement. For installations within city limits, OPGW may be equipped with 96 fiber cores to also facilitate usage by DISCOMs, SLDCs, RLDCs, and NLDC for last-mile connectivity, contingent upon the load-bearing capacity of the line. This approach will accommodate any additional future requirements, including Loop-In-Loop-Out (LILO) configurations or increased capacity utilizing the same Right of Way (ROW).
- 8.3. Additionally, since OPGW fibers can also support long-distance telecommunications network across India, the planning exercise should also take into account the dynamics of the telecom industry while determining the number of fibers to be deployed.
- 8.4. This strategy will facilitate the establishment of a robust, scalable communication network while maintaining efficiency and responsiveness to evolving operational needs across all areas.

9. Implementation Strategy for Existing ISTS/ InSTS Lines

- 9.1. Any ISTS TSP/In-STS utility/entity planning to lease out spare fiber cores of its OPGW on existing lines on commercial basis shall adhere to all the provisions and framework for fiber sharing and usage, as outlined in these guidelines.
- 9.2. For TSPs/utilities that have already leased out fiber cores before the issuance of these guidelines, it is expected that, as and when the need arises to spare fibers for grid applications, they will explore all possible means to make available the minimum no. spare fibers that can serve the purpose, free of cost. In cases where conflicts or stalemate arises regarding the availability of requisite number of fibers, a resolution committee shall be formed. This committee will include representatives from the RPCs, PSCD Division of CEA, CTU, concerned STUs /TSPs , with the goal of resolving the issue in a fair and balanced manner.

10. Conclusion

- 10.1. These guidelines aim to establish a standardized approach to the allocation and sharing of Optical Ground Wire (OPGW) fibers across power sector, ensuring secure, reliable, and scalable communication infrastructure that meets both present and future grid requirements. By implementing uniform principles for fiber allocation and usage, entities across the power sector—including CTU, STU, TSPs, DISCOMs, SLDCs, RLDCs, and NLDCs—can achieve consistent and efficient communication system for grid operations, protection, and commercial applications. These guidelines provide a clear and standardized framework for the allocation and sharing of Optical Ground Wire (OPGW) fibers, balancing the commercial prospects of fiber usage with the imperative of maintaining secure, reliable, and scalable grid operations.

11. Brief of Recommendations for Adoption

11.1. Uniform Fiber Allocation

Entities should adhere to this fiber allocation guidelines/framework for grid operations, ensuring designated fibers for essential communication and protection. Excess fibers may be designated for commercial use, subject to periodic review and regulatory oversight, thereby maximizing resource utilization without compromising the grid stability.

11.2. Compliance with CEA Regulations

All implementations should align with the CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020 , CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CERC Interface Requirements and CEA Cyber Security Guidelines, to promote standardized, high-quality communication infrastructures across the power transmission networks.

11.3. Scalability for Future Needs

In areas with high potential for future growth or within city limits, entities are encouraged to install OPGW with 48/96 fiber cores to provide sufficient capacity for last-mile connectivity, future expansions, and LIFO requirements, leveraging the Right of Way (ROW) effectively.

11.4. Commercial Usage Protocol

Any commercial usage should adhere to the applicable CERC/SERC Regulations. All leasing contracts must include a termination clause, mandating at max of 18-month notice period for making the fiber cores available for grid applications whenever required. This ensures that grid operator can reclaim the necessary fibers for critical grid operations with adequate notice. However, it is always advisable to retain spare fibers for emergency or future grid communication needs in advance, rather than having to invoke the termination clause of the contract when the need arises.

11.5. Coordination and Monitoring

For LILO implementations and OPGW installations in new and upgraded transmission schemes, the entity responsible for installation of the same must provide continuous support to existing substations, facilitating configuration adjustments and ensuring reliable data transfer. Continuous monitoring by CTU is recommended to assess the impact of commercial use and maintain high standards of operational reliability.

These recommendations will ensure that all stakeholders in power system communication can operate within a unified framework, promoting efficiency, compliance, and grid security.

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Composition of the Committee constituted under the chairmanship of Member (Power System), CEA tasked with formulating comprehensive guidelines for the usage and sharing of optical fibers (OPGW) for power system applications:

S.no	Members	Organisation/Association
1.	Member (Power System) (Chair)	CEA
2.	Chief Engineer, PCD	CEA
3.	Chief Engineer, NPC	CEA
4.	Chief Engineer, ET & I	CEA
5.	Member Secretary, RPCs	RPCs
6.	Executive Director, CTU	CTU
7.	Executive Director, Grid India	GridIndia
8.	Executive Director, Powergrid	Powergrid
9.	Representative of Electric Power Transmission Association – 2 TSPs	EPTA
10.	Representative from STUs (at the level of Chief Engineer or equivalent)	• Northern Region: UPPCL, RRVPNL • Western Region: GETCO, MPPTCL • Southern Region: KSEBL, TANTRANSCO • Eastern Region: WBSETCL, OPTCL • North Eastern Region: AEGC

The Terms of Reference (ToR) of the Committee is as follows:

1) **Scope and Purpose:** Define the need to develop guidelines that address the unique requirements and challenges associated with the sharing of OPGW fibers among CTU, STUs, and Private Transmission Licensees.

2) **Allocation Requirements:** Define/determine the number of fibers required for catering to varied applications/services for grid management such as data, speech, protection etc., including minimum spare fibres to be earmarked for grid applications/requirements.

3) **Sharing Scenarios:** Analyse the scenarios wherein the spare fibers in the OPGW laid by an entity is to be shared amongst several entities (CTU, STU, TSPs) to facilitate real time grid monitoring. Formulating the uniform mechanism governing the access, usage, or other aspects of the shared fibers in following scenarios:

- (i) Sharing of OPGW laid under ULDC scheme on the ISTS lines.
- (ii) Sharing of OPGW laid under ULDC scheme on the Intra-State lines.
- (iii) Sharing of OPGW laid by STUs on the Intra State lines.
- (iv) Sharing of OPGW laid by CTU/Powergrid on the Intra State lines.
- (v) Sharing of OPGW on the ISTS lines laid by TSPs under TBCB and RTM projects.

Identify and define the role and responsibilities of Centre, State, and Private Transmission Licensees in the sharing of OPGW fibers.

4) Investigate the integration of Fiber Optic Terminal Equipment (FOTE) for differential protection in accordance with the C37.94 protocol and bring out recommendations.

5) Define the uniform mechanism of routing of OPGW fibers in case of LILO taken up on any transmission line.

6) Recommend the scenarios/limit of OPGW fibers beyond which it can be utilized for other commercial purposes.

7) Formulate recommendations for seamless adoption of these guidelines.

Nominated Members of the Committee

S. No.	Nominated Member's Name	Designation	Division & Organisation
1.	Shri A K Rajput	Member (Power Systems)	Central Electricity Authority
2.	Shri V K Singh	Member Secretary	NRPC, CEA
3.	Shri Asit Singh	Member Secretary	SRPC, CEA
4.	Shri N S Mondal	Member Secretary	ERPC, CEA
5.	Shri Deepak Kumar	Member Secretary	WRPC, CEA
6.	Shri K B Jagtap	Member Secretary	NERPC, CEA
7.	Smt Rishika Sharan	Chief Engineer	NPC, CEA
8.	Shri Surata Ram	Chief Engineer	ET&I, CEA
9.	Shri S K Maharana	Chief Engineer	PSCD, CEA
10.	Shri J B Len	SE	SRPC, CEA
11.	Shri Shiv K Gupta	Sr. DGM	Comm, CTUIL
12.	Shri Ankur Gulati	DGM	GRID-INDIA
13.	Shri. Doman Yadav	Executive Director	Grid Automation & Communication (GA&C), Powergrid
14.	Smt S.Kannika Parameswari	Chief Engineer	P&C, TANTRANSCO
15.	Shri. Viju Rajan John	Chief Engineer	Transmission System Operation, KSEBL
16.	Shri Binaya Ku Mallick	DGM(Telecom)	E & Q, OPTCL,HQRS
17.	Shri N. K Patel	SE (Telecom)	TR Department, Corporate Office, GETCO, Vadodara
18.	Shri R. B Kathiria	EE (Telecom),	Telecom Unit, 220kV S/s, GETCO, Gondal
19.	Shri Jayesh A Mehta	DE (Telecom)	Telecom Unit, 220kV S/s, GETCO, Ranasan
20.	Shri Arup Sarmah	AGM	LA Communication Division, Kahilipara, AEGCL
21.	Smt. Punam Biswakarma	AGM	CA Communication Division, Samaguri, AEGCL
22.	Shri Ashutosh Bhattacharjee	GM	(T&C and Comm.)
23.	Shri Rajesh Gupta	SE (SLDC)	MPPTCL
24.	Shri Sudhir Nema	SE (Planning)	MPPTCL

S. No.	Nominated Member's Name	Designation	Division & Organisation
25.	Smt. Kshama Shukla	EE (P&D)	MPPTCL
26.	Shri Debasis Sarkar	Chief Engineer	Communication Department, WBSETCL
27.	Shri Vivek Dixit	Chief Engineer	Sanchar and Niyamtran, UPPTCL
28.	Shri Sanjay Johari	VP	Business Development & Adani Energy Solutions Ltd.
29.	Shri Tarun Tayal	Head- Govt. Alliances and Partnerships	Sterlite Power

Special Invitee - Power System Technology Development Division, CEA

**Annexure-III**

भारतसरकार
Government of India
विद्युतमंत्रालय
Ministry of Power
उत्तरक्षेत्रीयविद्युतसमिति
Northern Regional Power Committee

Date: 02.04.2025

To,

1. Chief Engineer, HPSLDC
2. Chief Engineer, BBMB
3. Chief Engineer, SLDC, PSTCL
4. Chief Engineer, SLDC, RVPN
5. Chief Engineer, UPSLDC
6. Chief Engineer, JKSLDC
7. Chief Engineer, SLDC, HVPNL
8. General Manager, SLDC, DTL
9. ED, NRLDC
10. Dy. COO, CTUIL
11. ED, GA&C, POWERGRID
12. CGM, POWERGRID- NR1
13. Business Unit Head (Grid Software), Siemens

विषय: Minutes of Special Telemetry, SCADA and Telecommunication (TeST) Sub-Committee Meeting held on 24.03.2025 -reg.

महोदय,

A Special Telemetry, SCADA and Telecommunication (TeST) Sub-Committee Meeting was held on 24.03.2025 in NRPC conference room. The minutes of meeting is enclosed herewith for your kind perusal.

भवदीय

Signed by Praveen Jangra

Date: 02-04-2025 16:58:16

प्रवीण जाँगड़ा

कार्यपालक अभियंता (संचार)

Minutes of Special TeST Meeting held on 24.03.2025

MS, NRPC welcomed all the participants for the special TeST meeting.

1 AMC extension of SCADA/EMS system in SLDCs of NR states (Agenda by RVPN)

EE, NRPC apprised the agenda before the members. Representative from SIEMENS was asked to give the presentation on the agenda.

SIEMENS explained that the new AMC proposal includes comprehensive coverage, extending to hardware. SIEMENS cited the system's aging infrastructure and limited OEM support as reasons for the price escalation. Additionally, SIEMENS informed that as suggested by POWERGRID, centralized hardware storage is proposed to optimize costs rather than maintaining hardware at individuals control centres.

POWERGRID stated that ULDC Phase-III is expected to be completed by December 2025, followed by a three-month parallel operation. SIEMENS stated that in the present AMC proposal, that there are two AMC options: a 12-month term with option of quarterly extension at same T&C or an 18-month commitment at a discounted rate.

After discussion, NR constituents agreed upon 12-month AMC period, considering that present AMC expiries varied across constituents and also considering the implementation status of ULDC Phase-III. It was also decided that further AMC extensions would be considered as per individual utility's requirement.

SIEMENS explained the AMC cost break-up, covering manpower, project management, hardware components etc. SIEMENS also mentioned that software license fee and royalty charges is also a major component of proposed AMC cost. Constituents requested a more detailed cost break-up for management justification, SIEMENS agreed to provide by 31.03.2025.

Also, SIEMENS stated that since present AMC of some NR constituents is expiring on 31.03.2025, constituents need to intimate POWERGRID/SIEMENS for continuation of AMC before 31.03.2025, so that existing AMC team is not withdrawn from sites.

After detailed discussion following was concluded:

1. SIEMENS to provide a detailed justification in terms of price break up before 31.03.2025
2. Since, the project is a single package, a common **12-month AMC with a provision for quarterly extensions** was opted by SLDCs/BBMB.
3. SLDCs/BBMB to inform POWERGRID/SIEMENS about AMC continuation before **31.03.2025**

2 Fiber sharing on STU links for redundant communication (Agenda by NRPC)

EE, NRPC apprised the forum about the requirement for STU links to enhance redundant communication. Matter has been discussed previously in several TeST meetings and sharing is required from following: in UP, Uttarakhand and J&K for the specific links mentioned in the agenda.

He further stated that since the guidelines for fiber sharing have been issued and are now available with states, they may take further action accordingly. UPSLDC stated that since guidelines were recently issued, they are still in the discussion phase.

MS, NRPC suggested that states may take up to **two months** to review the guidelines and communicate for further course of action for fibre sharing and checking healthiness of fibres.

MS, NRPC requested CTU to send a follow-up letter in view of the newly issued guidelines.

3 OPGW installation on existing 400 kV Sikar (PG) – Agra (PG) D/c line (owned by PG) which is proposed to be LILoed at 400 kV GSS Kumher (RVPN) (Agenda by CTUIL)

EE, NRPC introduced the agenda and discussions held in 78th NRPC meeting held on 16th-17th March 2025 where *‘CTU apprised that data, voice & protection requirements of Agra and Sikar S/s are being met through other routes from their respective nodes whereas the same for Kumher S/s of RVPN is being explored yet.’*

Rajasthan SLDC apprised *data, voice & protection requirements of Kumher S/s* is envisaged to be met through Agra end or Sikar end.

On enquiry of MS, NRPC whether fiber connectivity from Kumher S/s could be provided from either end, i.e. Agra or end, CTU stated that OPGW should be laid on whole section of **400kV Sikar (PG) – Agra (PG) D/c line** citing CEA (Technical Standards for Construction of Electric Plants and Lines), 2022, under Chapter IV, PART-A “SUBSTATIONS AND SWITCHYARDS (66 kV AND ABOVE)” Clause 48 , sub clause (5), which states that:

“

Optical Ground Wire and Power Line Carrier Communication. —

(a) Optical Ground Wire along with necessary terminal equipment shall be provided on transmission lines of voltage rating of 110 kV and above for speech transmission, line protection, and data channels.

(b) The primary path for tele-protection shall be on point-to-point Optical Ground Wire and alternative path shall be either on Power Line Carrier Communication or predefined physically diversified Optical Ground Wire paths.

“

CTU also mentioned CEA letter dated 22.05.2024 regarding “Compliance with CEA (Technical Standards for Construction of Electric Plants and Lines), 2022 - Installation of Optical Ground Wire on Transmission Lines – reg”, which requires all upcoming lines of STU and ISTS should envisage OPGW installation.

Members agreed with CTU’s proposed scheme of Installation of 48 Fiber OPGW on existing 400 kV Sikar (PG) – Agra (PG) D/c line (owned by PG) (386 Km) including Repeater which is proposed to be LILoed at 400 kV GSS Kumher (RVPN) including FOTE at Sikar S/s (PG) & Agra S/s (PG).

Meeting ended with vote of thanks

List of participants: -

NRPC Sectt.

1. Sh. V. K. Singh, Member Secretary
2. Sh. Anzum Parwej, Superintending Engineer
3. Sh. Praveen Jangra, Executive Engineer
4. Smt. Priyanka Patel, Manager, POWERGRID

NRLDC

5. Sh. M. M. Hassan, Chief General Manager (SL)
6. Sh. Paritosh Patnak, Manager

UPSLDC

7. Sh. Amit Narain, Superintending Engineer

Grid-India

8. Sh. Mahesh Kumar, General Manager
9. Sh. Ashok Kumar, General Manager

CTUIL

10. Sh. Tej Prakash Verma, Deputy General Manager
11. Sh. Prakhar Pathak, Engineer
12. Sh. Anshul Mahawar, ET

HVPN

13. Sh. Er. Sushil Kumar, Superintending Engineer
14. Sh. Er. A. P. Singh, Executive Engineer
15. Sh. Er. Anshu Jain, Assistant Engineer

RVPN

16. Sh. Sudhir Jain, Chief Engineer
17. Sh. Manish Athaiya, Superintending Engineer

POWERGRID

18. Sh. Doman Yadav, Executive Director (GA&C)
19. Sh. Arun Kumar Singh, Sr. General Manager
20. Sh. Narendra Kumar Meena, Deputy General Manager

HPSLDC

21. Sh. Rakesh C. Negi, Superintending Engineer
22. Sh. Er. Sanjay Raneet, Sr. Executive Engineer

SIEMNS LTD.

23. Sh. Namit Kumar, Head SOL Business
24. Sh. Sumit Bhatnagar, Senior Manager GSW SOL
25. Sh. Rahul Murada, SIEMNS

DTL, SLDC

26. Sh. Vinay Kumar Jaiswal, Assistant General Manager

PSTCL

27. Sh. Sunder, Deputy Chief Engineer/ SLDC (OA)

28. Sh. Ankit Bedi, Sr. Executive Engineer/ SLDC (OA)

29. Sh. Mandeep Micky, Sr. Executive Engineer

JKPTCL, Jammu

30. Sh. Vikas Anand, Chief Engineer

BBMB

31. Smt. Ruchi Sharma, Director/ PR

32. Sh. Gurpreet Singh, Deputy. Director / LD-2

33. Sh. Ansh Jain, Assistant Director



कार्यालय निदेशक (आपरेशन)
11वां तल, शक्ति भवन विस्तार
14 अशोक मार्ग, लखनऊ-226001
दूरभाष : 0522-2287833
ई मेल : director_op@upptcl.org



Annexure-A.VII

No. 3886 /DIR (O) C-26

Date: 05.06.2025

SUB: Regarding Fiber Sharing on UPPTCL links for providing redundant communication to Narora (NAPP) (NPCIL) and Saharanpur (PG) ISTS station.

Sr. GM (CTUIL)

Saudamini, 1st Floor, Plot No.2

Sector-29

Gurugram-122001.

Sir,

Please refer to your office letter no. C/CTU/Comm/UPPTCL/02 dated 09.04.2025 on above mentioned subject vide which request is made regarding sharing of fibers from UPPTCL links for providing redundant communication to Narora, NPCIL (NAPP) & Saharanpur (PG) ISTS stations.

In view of above request and compliance of guidelines issued by CEA for the usage and sharing of optical fiber, UPPTCL consents as under: -

A. NAPP:

SN.	Name of Lines	Consent for fiber sharing
1.	200 kV NAPP (Narora)- Simbhawali	As requested CTU is allowed to lay its own OPGW on this line for data communication
2.	220 kV Simbhawali-Shatabdi Nagar	04 Nos.
3.	220 kV Shatabdi Nagar-Modipuram	04 Nos.

B. 400 kV Saharanpur:

SN.	Name of Lines	Consent for fiber sharing
1.	220 kV Saharanpur (PG)- Deoband	04 Nos.
2.	220 kV Deoband- Saharanpur	04 Nos.
3.	220 kV Saharanpur- Nanauta	04 Nos.
4.	220 kV Nanauta- Shamli	04 Nos.
5.	220 kV Shamli - Muradnagar	04 Nos.

Above is for your information and necessary action.

Yours Faithfully

(Piush Garg)

Director (Operation)

~~Annexure A.XI~~

S. No.	Items	Details
1.	Name of Scheme	Redundant communication for Narora Atomic Power Plant (NPCIL) (NAPP)
2.	Scope of the scheme	Supply & Installation of 48F OPGW on 220kV NAPP (NPCIL) – Simbhavli UPPTCL link (88 Km) alongwith 2 no. of STM-16 FOTE at Simbhavli (UP) and Shatabdi Nagar (UP)
3.	Objective / Justification	i. Presently NAPP is connected with radial path through UPPTCL OPGW network, and no redundant path is available. ii. Redundant communication for NAPP was deliberated in 2nd, 3rd & 4th CPM held on dtd 25.07.2022, 17.02.2023 & 25.07.2023 respectively and thereafter in 22nd, 23rd, 24th 25th 26th TesT of NRPC and special TeST of NRPC held on 28.06.2023, 23.10.2023, 09.02.2024, 25.07.2024, 23.12.2024 and 24.03.2025 respectively and in 72nd NRPC held on 19.04.2024. iii. In the above meetings it was suggested that redundant communication path for NAPP can be created through fiber sharing from UPPTCL OPGW N/w i.e. NAPP – Simbhavli (UP) – Shatabdi Nagar (UP) – Modipuram (UP). At Modipuram (UP) ISTS FOTE is available. For the fiber sharing UPPTCL management approval was required. iv. In the 23rd TeST held on 23.10.2023, NRPC requested CTU to send a letter to UPPTCL regarding Fibre Sharing on UPPTCL links for ISTS Communication/ Grid Operation purpose for redundant communication of NAPP ISGS node. v. In this regard CTU sent a letter dtd. 02.11.2023 to UPPTCL (attached at Annexure-I). vi. In 72nd NRPC held on 19.04.2024, agenda was again deliberated where Forum suggested that as CEA is preparing Guidelines for Fiber Sharing Policy therefore this matter may be brought after issuance of Guidelines on fiber sharing policy by CEA. Later, CEA has published “Comprehensive guidelines for the usage and sharing of fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable for power system applications” in March’25. vii. After the issuance of CEA Fiber sharing guidelines

		this agenda was again deliberated in 78th NRPC meeting held on 17.03.2025 and in Special TeST Meeting held on 24.03.2025. In the meetings forum suggested that CTU to again write letter to UPPTCL for sharing of fibers. CTU has sent a letter dtd. 09.04.2025 to UPPTCL in this regard (attached at Annexure-II). viii. UPPTCL vide letter 05.06.2025 provided their consent regarding sharing of 2 pairs of fibers on the following UPPTCL links for provide redundant communication to NAPP (NPCIL): a. Simbhavali (UP) - Shatabdi Nagar (UP) b. Shatabdi Nagar (UP) - Modipuram (UP)-having ISTS FOTE <i>UPPTCL has also given their consent to CTU to plan OPGW on 220kV NAPP (NPCIL) – Simbhavli UPPTCL line under ISTS (88 Km). (UPPTCL consent letter is attached at Annexure-III).</i> ix. After receiving UPPTCL confirmation, CTUIL has prepared a scheme for redundant communication to NAPP (NPCIL).
4.	Depiction in Figure	Figure is attached as Figure-1
5.	Estimated Cost	Rs. 6.45 crore (approx.)
6.	Implementation timeframe	24 months from the date of allocation
7.	Implementation Agency	POWERGRID
8.	Implementation mode	RTM mode
9.	Deliberations in different meetings	a. 8th NR CPM held on 03.02.2025 b. 26th NRPC TeST Meeting held on 19.11.2024 and Special TeST Meeting held on 24.03.2025

~~Annexure A.XII~~

S. No.	Items	Details
	Name of Scheme	Redundant communication for Saharanpur S/s (PG)
2.	Scope of the scheme	Supply & Installation of 5 No. of STM-16 FOTE at Saharanpur (PG), Deoband (UP), Saharanpur (UP), Nanauta (UP) and Shamli (UP)
3.	Objective / Justification	i. Saharanpur (PG) is presently connected with Roorkee and Dehradun (PG). On Saharanpur to Roorkee line, there is a single OPGW installed upto LILO point of Dehradun (PG) (16 Km). This creates a single point of failure in case of snapping of OPGW or damage of fiber. ii. Redundant communication for Saharanpur was deliberated in 2nd, 3rd & 4th CPM held on dtd 25.07.2022, 17.02.2023 & 25.07.2023 respectively and thereafter in 22nd, 23rd, 24th 25th 26th TeST of NRPC and special TeST of NRPC held on 28.06.2023, 23.10.2023, 09.02.2024, 25.07.2024, 23.12.2024 and 24.03.2025 respectively and in 72nd NRPC held on 19.04.2024. iii. In the above meetings it was suggested that redundant communication path for Saharanpur S/s can be created by using 2 pair of fibers on following UPPTCL links: - Saharanpur (PG)- Deoband (UP) - Deoband (UP)- Saharanpur (UP) - Saharanpur (UP) -Nanauta (UP) - Nanauta (UP)-Shamli (UP) - Shamli (UP) -Muradnagar (UP)-having ISTS FOTE iv. In the 23rd TeST held on 23.10.2023, NRPC requested CTU to send a letter to UPPTCL regarding Fibre Sharing on UPPTCL links for ISTS Communication/ Grid Operation purpose for redundant communication of Saharanpur. v. In this regard CTU sent a letter dtd. 02.11.2023 to UPPTCL (attached at Annexure-I). vi. In 72nd NRPC held on 19.04.2024, agenda was again deliberated where Forum suggested that as CEA is preparing Guidelines for Fiber Sharing Policy therefore this matter may be brought after issuance of Guidelines on fiber sharing policy by CEA. Later on, CEA has published “Comprehensive guidelines for the usage and sharing of fiber cores of Optical Ground Wire (OPGW)/ Under Ground Fiber Optic (UGFO) Cable for power

		system applications” in March’25. vii. After the issuance of CEA Fiber sharing guidelines this agenda was again deliberated in 78th NRPC meeting held on 17.03.2025 and in Special TeST Meeting held on 24.03.2024. In the meetings forum suggested that CTU to again write letter to UPPTCL for sharing of fibers. CTU has sent a letter dtd. 09.04.2025 to UPPTCL in this regard (attached at Annexure-II). viii. UPPTCL vide letter 05.06.2025 (attached at Annexure-III) provided their consent regarding sharing of 2 pairs of fibers on the following UPPTCL links for provide redundant communication to Saharanpur: a. Saharanpur (PG)- Deoband (UP) b. Deoband (UP)- Saharanpur (UP) c. Saharanpur (UP) -Nanauta (UP) d. Nanauta (UP)-Shamli (UP) e. Shamli (UP) -Muradnagar (UP)-having ISTS FOTE ix. After receiving UPPTCL confirmation, CTUIL has prepared a scheme for redundant communication to Saharanpur S/s (PG).
4.	Depiction in Figure	Figure is attached as Figure-2
5.	Estimated Cost	Rs. 2.10 crore (approx.)
6.	Implementation timeframe	12 months from date of allocation
7.	Implementation Agency	POWERGRID
8.	Implementation mode	RTM mode
9.	Deliberations in different meetings	a. 8th NR CPM held on 03.02.2025 b. 26th NRPC TeST Meeting held on 19.11.2024 and Special TeST Meeting held on 24.03.2025



Annexure-A.X

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली संचार विकास प्रभाग
Power System Communication Development Division

सेवा में / To

As per list enclosed

विषय/ Subject: Compliance with CEA (Technical Standards for Construction of Electric Plants and Lines), 2022 - Installation of Optical Ground Wire on Transmission Lines - reg

This is to bring to the attention, the crucial requirement outlined in the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, pertaining to the installation of Optical Ground Wire (OPGW) on transmission lines of 110 kV and above voltage level.

The aforementioned CEA standard **under Chapter IV, PART-A “SUBSTATIONS AND SWITCHYARDS (66 kV AND ABOVE)” Clause 48, sub clause (5)**, mandates the provision of Optical Ground Wire, along with necessary terminal equipment, on transmission lines of voltage rating 110 kV and above for speech transmission, line protection, and data channels. Additionally, it specifies that the primary path for tele-protection should be on point-to-point Optical Ground Wire, with an alternative path on either Power Line Carrier Communication or predefined physically diversified Optical Ground Wire paths.

The use of Optical Ground Wire facilitates speech transmission, data channels and also plays a crucial role in enhancing line protection. Ensuring compliance with these standards is paramount for the efficient and reliable operation of grid.

Therefore, as directed by Chairperson, CEA in the 19th meeting of National Committee on Transmission, it is requested that all the Central and State Sector utilities prioritize the implementation of the OPGW laying across its transmission network to ensure compliance with regulatory requirements.

Transmission utilities are requested to furnish the monthly progress report pertaining to OPGW installation.

Powergrid and CTU are requested to identify all such ISTS links wherein the OPGW implementation is still to be done and take up its implementation.

Signed by Suman Kumar भवदीय,
Maharana

Date: 22-05-2024 17:25:26

(एस.के.महाराणा / S. K. Maharana)

मुख्य अभियन्ता /Chief Engineer

प्रतिलिपि/ Copy to,

- (i) Member (Power System), CEA
- (ii) Member Secretary, NRPC
- (iii) Member Secretary, WRPC
- (iv) Member Secretary, ERPC
- (v) Member Secretary, SRPC
- (vi) Member Secretary, NERPC

With a request to issue suitable instructions to states for expediting furnishing of requisite data

1.	Executive Director(AM and LD&C) Power Grid Corporation of India Ltd., Saudamini, Plot No.2, Sector-29, Gurugram-122001.
2.	COO Central Transmission Utility of India Ltd., Plot No. 2, Sector-29, Gurugram, Haryana-122001.

ISTS Licensees:

1.	Chief-Business & Regulatory Sterlite Power Transmission Ltd., F-1, The Mira Corporates Suits, Plot No. 1 & 2, C-Block, 2 nd Floor, Ishwar Nagar, Mathura Road, NewDelhi-110065.	2.	Head Projects Adani Transmission Ltd., Adani Corporate House, Shantigram, SG Highway, Ahmedabad-382421, Gujarat.
3.	CFO Essel Infraprojects Ltd., NRSS XXXVI Transmission Ltd., (Essel Infraprojects Ltd.), Sec 16A, Plot No.-19, Film City, Gautam Budhha Nagar-201301.	4.	Director Kalpataru Power Transmission Ltd., Plot No. 101, Part-III, G.I.D.C., Sector-28, Gandhinagar-382028.
5.	Director Kudgi Transmission Ltd., Mount Poonamallee Road, Manapakkam, P.B. No. 979, Chennai-600089.	6.	AGM (Comm. & Reg. Affairs) Sekura Energy Pvt. Ltd., 504 & 505, 5 th Floor, Windsor, Off CST Road, Kalina, Santacruz, Mumbai-400098.
7.	Project Incharge Raichur Sholapur Transmission Company Ltd., Patel Estate, S.V. Road, Jogeshewari(West), Mumbai-400102.		

Northern Region:

1.	Director (Projects) Himachal Pradesh Power Transmission Corporation Ltd., Barowalias, Khalini, Shimla- 171002.	2.	Director(W&P) Uttar Pradesh Power Transmission Company Ltd., Shakti Bhawan Extn, 3rd floor, 14, Ashok Marg, Lucknow-226 001.
3.	Director (Technical) Punjab State Transmission Corp.Ltd. Head Office, The Mall, Patiala - 147001, Punjab.	4.	Director (Projects) Power Transmission Corporation of Uttrakhand Ltd., Vidyut Bhawan, Near

			ISBT Crossing, Saharanpur Road, Majra, Dehradun.
5.	Development Commissioner (Power) Power Development Department, Grid Substation Complex, Janipur, Jammu.	6.	Director (Technical) Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Vidyut Bhawan, Jaipur, Rajasthan-302005.
7.	Director (Technical) Haryana Vidyut Prasaran Nigam Ltd. Shakti Bhawan, Sector-6, Panchkula-134109, Haryana.	8.	Chief Engineer (Operation) Administration of Chandigarh Electricity Department, UT Secretariat Sector-9 D, Chandigarh – 161009.
9.	Director (Operations) Delhi Transco Ltd., Shakti Sadan, Kotla Road, New Delhi-110002.		

Eastern Region:

1.	CMD Damodar Valley Corporation DVC Towers, VIP Road, Kolkata-700054.	2.	CMD Odisha Power Transmission Corporation Ltd. (OPTCL), Bhoinagar Post Office, Jan path, Bhubaneswar-751022.
3.	CMD Bihar State Power Transmission Company Ltd. (BSPTCL), Vidyut Bhavan, 4th floor, Bailey Road, Patna-800021.	4.	CMD Jharkhand Urja Sancharan Nigam Ltd. (JUSNL), Engineering Building, HEC, Dhurwa, Ranchi -834004.
5.	Principal Chief Engineer cum Secretary Power Department, Government of Sikkim, Gangtok, Sikkim.	6.	Managing Director West Bengal State Electricity Transmission Company Ltd. (WBSETCL), Vidyut Bhavan, 8th Floor, A-Block Salt Lake City, Kolkata-700091.

North Eastern Region:

1.	Managing Director Manipur State Power Company Ltd. (MSPCL), Electricity Complex, Patta No. 1293 under 87(2), Khwai Bazar, Keishampat, Imphal West, Manipur- 795001.	2.	CMD Tripura State Electricity Corporation Ltd., Bidyut Bhavan, Banamalipur, Agartala, Tripura.
3.	Managing Director Assam Electricity Grid Corporation Ltd., Bijulee Bhawan, Paltan Bazar Guwahati (Assam) - 781001.	4.	Engineer-in-Chief Power & Electricity Department, Kawlphetha Building, New Secretariat Complex, Khatla, Aizawl, Mizoram- 796001.
5.	CMD Meghalaya Energy Corporation Ltd., Lum Jingshai, Short Round Road, Shillong (Meghalaya) - 793001.	6.	Chief Engineer (T&G) Department of Power, Electricity House, A.G. Colony, Kohima, Nagaland- 797001.
7.	Chief Engineer (Power) Vidyut Bhawan, Department of Power Zero Point Tinali, Itanagar (Arunachal Pradesh)- 791111.		

Western Region:

1.	Managing Director Gujarat Energy Transmission Corp. Ltd., Sardar Patel Vidyut Bhawan, Race Course, Vadodara -390007.	2.	Director (Operation) Maharashtra State Electricity Transmission Co. Ltd., 4th Floor, “Prakashganga”, Plot No. C-19, E- Block, Bandra – Kurla Complex, Bandra (East), Mumbai- 400051.
3.	Managing Director, Chhattisgarh State Power Transmission Co. Ltd., Dangania, Raipur- 492013.	4.	Chairman & Managing Director Madhya Pradesh Power Transmission Co. Ltd., Block No. 3, Shakti Bhawan, Rampur, Jabalpur-482008.
5.	Executive Engineer Administration of Union Territory of Dadra & Nagar Haveli and Daman & Diu Secretariat, Moti Daman -395 220.	6.	The Chief Engineer Electricity Department The Government of Goa, Panaji.

Southern region:

1.	Director (Grid Operation) Transmission Corp. of Telangana Ltd., Vidyut Soudha, Hyderabad – 500082.	2.	Director (Transmission) Karnataka State Power Transmission Corp. Ltd., Cauvery Bhawan, Bangalore – 560009.
3.	Director (Trans. & System Op.) Kerala State Electricity Board Ltd., Vidyuthi Bhawanam, Pattom, P.B. No. 1028, Thiruvananthapuram – 695004.	4.	Director (Transmission Projects) Tamil Nadu Transmission Corporation Ltd. (TANTRANSCO), 6th Floor, Eastern Wing, 800 Anna Salai, Chennai – 600002.
5.	Superintending Engineer –I First Floor, Electricity Department Gingy Salai, Puducherry – 605001.	6.	Director (Transmission) Transmission Corp. of Andhra Pradesh Ltd. (APTRANSCO), Vidyut Soudha, Gunadala, Eluru Rd, Vijayawada, Andhra Pradesh – 520004.



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

CEA-PS-17-24/1/2024-PCD Division/

Date: 22-11-2024

To,

(As per the attached list)

Subject: Facilitating Broadband expansion by allowing leasing of fiber on OPGW - regd.

This has reference to the DO letter dated 11th November 2024(No. 5-5/NBM-2024/PGCIL-OPGW) addressed to Secretary (MoP) from Department of Telecommunications, Ministry of Communications. Wherein MoP has been requested to consider laying at least 48F (48 Fibres) OPGW (Optical Ground Wire) in future transmission projects making provision for leasing of additional fibers for the use of telecom licensees i.e TSP (Telecom Service Provider)/ ISP (Internet Service Provider)/ IP (Internet Protocol)-1 etc.

During a review meeting of NER (North Eastern Region) Telecom projects, Hon'ble Minister for Communication had directed to facilitate broadband expansion by allowing leasing of fibers on OPGW of POWERGRID in place of leasing of bandwidth, so that rural areas and hinterlands can get good and reliable telecom connectivity.

In view of this, CTU (Central Transmission Utility), POWERGRID, STUs (State Transmission Utilities) and all the TSPs (Transmission Service Providers) are requested to incorporate the necessary provisions in the technical specifications of their future transmission schemes supporting the laying of at least 48F OPGW instead of 24F OPGW for the upcoming TBCB (Tariff based Competitive Bidding)/RTM (Regulated Tariff Mechanism) schemes. It is further advised that the schemes which are presently in bidding stage may also be modified accordingly by the BPCs (Bid Process Coordinators) wherever applicable.

This issues with the approval of Chairperson, CEA.


22/11/24
Chief Engineer (PCD)

(Addressed to the list below :)

S.No.	Designation	Address	E-mail
1.	COO, CTUIL	Plot No. 2, Sector – 29 Near IFFCO chowk Metro station, Gurugram – 122001	df@powergrid.in , do@powergrid.in , pcgarg@powergrid.in
2.	CMD, PGCIL	Powergrid, Saudamini, Plot No – 02, Sector – 29, Gurugram, Haryana 122001	cmd@powergridindia.co m
3.	Chairman & Managing Director, PGCIL	Saudamini, Plot No. 2, Sector-29 Gurgaon-122001 (Haryana)	cmd@powergrid.in
4.	Chairman & Managing Director, APTRANSCO	Gunadala, Eluru Rd, Vijayawada, Andhra Pradesh 520004	cmd@aptransco.gov.in
5.	Chairman, APPGCL, Andhra Pradesh	Vidyut Soudha, Gunadala Eluru Road, Vijaywada Andhra Pradesh – 520 004	chairman@apgenco.gov.i n
6.	Chairman & Managing Director, TCTL	Vidyut Soudha, Khairatabad, Hyderabad – 500082	cmd@tgtransco.com
7.	Chairman & Managing Director, TSPGCL	Vidyut Soudha, ‘A’ Block, Khairatabad, Hyderabad – 500 082 (Telangana)	cmd@tsgenco.co.in cmdtransco@telangana.go v.in
8.	Managing Director, TANTRANSCO	10th Floor/NPKRR Malikai, No. 144 Anna Salai, Chennai-600002	mdtantransco@tnebnet.or g
9.	Chairman & Managing Director, KSEBL Kerala	Board Secretariat, Vidyuthi Bhavanam Pattom, Thiruvananthapuram – 695004	cmdkseb@kseb.in
10.	Managing Director, KPTCL	1st floor, Kaveri Bhawan, K. G. Road, Bangalore-560009	md@kpcl@gmail.com

11.	Director (Operations), MSETCL	C-19, E-Block Prakashganga, Bandra- Kurla Complex Bandra(E), Mumbai 400 051.	dirop@mahatransco.in , sealdc8100@mahatransco.in
12.	Managing Director, MSPGCL Maharashtra	Prakashgad, Plot No. G-9, 4th Floor Bandra (E), Mumbai-400051	md@mahagenco.in
13.	Chief Engineer (Elect.), Goa Electricity	Department Vidyut Bhawan, Panji, Goa - 403001	cee-elec.goa@nic.in , elec.goa@nic.in
14.	Chairman, GUVNL Gujarat	Sardar Patel Vidyut Bhawan, Race Course, Vadodara- 390 007	md.guvnl@gebmil.com
15.	Chairman, Gujarat Urja Vikas Nigam Ltd.	Sardar Patel Vidyut Bhawan, Race Course, Vadodara- 390007	md.guvnl@gebmil.com
16.	Managing Director, GETCO	Sardar Patel Vidyut Bhawan, Race Course, Vadodara- 390 007	md.getco@gebmil.com
17.	Secretary, Dadra & Nagar Haveli Electricity Department	Dadar Nagar Secretariat, Silvassa- 396230	tapasyaraghav@gmail.com
18.	Director (Operations) , RRVNL	Vidyut Bhawan, Jyoti Nagar Jaipur, Rajasthan	dir.oper@rvpn.co.in cmd.rvpn@gmail.com
19.	Chairman, HVPNL	Shakti Bhawan, C4, Sector No. 6 Panchkula – 134109, Haryana	chairmanpu@gmail.com
20.	Managing Director, J&KPTCL	JKPTCK ,Power complex , bemina Srinagar (J&K) janipur jammu	mdjkptcl1@gmail.com
21.	Managing Director, HPPTCL	Himfed Building, BCS, New Shimla - 171009 (H.P.)	md@hppcl@gmail.com
22.	Managing Director, HPGCL Haryana	Room No.411,3rd Floor, Urja Bhawan,C-7, Sector-6, HPGCL Panchkula	md@hpgcl.org.in

23.	Managing Director, PTCL of Uttarakhand	Vidyut Bhawan, Saharnpur Road, Near I.S.B.T. Crossing, Dehradun, Uttarakhand – 248002	md.ptcul@rediffmail.com
24.	Managing Director, UJVNL (Uttarakhand)	Maharani Bagh, G M S Road, Dehradun	mdujvnl@ujvnl.com , md@ujvnl.com
25.	Chairman & Managing Director, BSPTCL	Vidyut Bhawan, Bailey Road Patna – 800021	mdcellbsptcl@gmail.com , cmd.bsphcl@gmail.com
26.	Managing Director, BSPGCL Bihar	5th Floor, Vidyut Bhawan, Bailey Road, Patna	md.bspgcl@gmail.com
27.	Chairman & Managing Director, PSTCL Punjab	The Mall, Mall Road, Patiala – 147001	cmd@pstcl.org
28.	Chairman & Managing Director, UPPTCL	7th Floor Shakti Bhawan, 14-Ashok Marg Lucknow Lucknow- 226001	cmd@upptcl.org , chairman@upptcl.org
29.	CMD, UPRVUNL	Shakti Bhawan, 14- Ashok Marg, Lucknow 226001	chairmanuppcl@gmail.com md@uprvunl.org
30.	Managing Director, MPPTCL	Shakti Bhawan, Rampur, Jabalpur (MP) - 482 008	md@mptransco.nic.in , ce.pnd@mptransco.nic.in
31.	Managing Director, MPPGCL	Shakti Bhawan, Vidytunagar, P.O. Jabalpur- 482 008	mppgcl@mp.nic.in
32.	Chairman, Jharkhand Urja Utpadan Nigam Ltd.	Engineering Building, HEC Dhurwa, Ranchi- 834004	mdjuunl2018@gmail.com
33.	Managing Director, JUSNL Jharkhand	Engineering Building, HEC, Dhurwa, Ranchi – 834004	mdjusnl@gmail.com , md@jusnl.in
34.	Chairman & Managing Director, CSPHCL, Chhattisgarh	Vidyut Seva Bhawan, P.O. Sunder Nagar, Danganaya,	mdtransco@cspc.co.in , chairman@cspc.co.in

		Raipur- 492 013	
35.	Chairman & Managing Director, WBSETCL	Bidhan Nagar, Kolkata- 700 091.	md@wbsetcl.in
36.	Chairman & Managing Director, WBPDCCL	Bidyut Unnayan Bhaban, plot 3/C, LABlock, Sector-III Salt Lake City, Kolkata - 700	wbpdccl@wbpdccl.co.in
37.	Chairman & Managing Director, OPTCL	Janpath, Bhubaneswar- 751022.	ele.bpmohapatra@optcl.co.in , ele.ssahu@optcl.co.in , dir.operation@optcl.co.in , cmd@optcl.co.in
38.	Chairman, OPGCL Odisha	Zone-A, 7th Floor, Fortune Towers, Chandrasekharapur, Bhubaneswar - 751023 Odisha	energy@nic.in
39.	Managing Director, CSPGCL	Vidyut Seva Bhawan P.O. Sunder Nagar, Danganiya, Raipur- 492 013 Chhattisgarh	mdgenco@cspc.co.in
40.	Chairman, Jharkhand Urja Utpadan Nigam Ltd.	Engineering Building, HEC Dhurwa, Ranchi- 834004	mdjuunl2018@gmail.com
41.	Managing Director, SPDCL Sikkim	NH- 10, Near UD&HD Dept. Gangtok East Sikkim 737101	spdcskm@gmail.com
42.	Chairman, APGCL, Assam	Bijulee Bhawan, Paltan Bazar, Guwahati, Assam.	cgm.ppd@aegcl.co.in , anjanjc.aegcl@gmail.com , gm.mpr@aegcl.co.in , rakesh.kumar@apgcl.org
43.	Managing Director, AEGCL (Assam)	Bijulee Bhawan, Paltan Bazar, Guwahati- 781 001	managing.director@aegcl.co.in , md_aegcl@yahoo.co.in

44.	The Engineer-in-Chief, Power and Electricity Dept, Govt of Mizoram	Kawlphetha Building New Secretariat Complex, Khatla, Aizawl Mizoram 796001	eincpower@gmail.com
45.	Chief Engineer (P), Manipur Electricity Dept.	South Block, Imphal, Manipur- 795 001.	md.mspcl@gmail.com , snandei@gmail.com , ed.tech.mspcl@gmail.com , ce-power@man.nic.in
46.	Chief Engineer, Nagaland Dept. of Power	Chief Engineer (D&R) Electricity House. A.G. Colony, Kohima – 797001	miaziekho77kehie@gmail.com
47.	Chairman & Managing Director, Meghalaya	Lumjingshai Short Round Road Shillong- 793001	ewnong@yahoo.com , directormeptcl@gmail.com , cetranzemptcl@gmail.com
48.	Chairman, TSECL Tripura	Bidyut Bhaban, Banamalipur, Agartala, Tripura - 799001	managing.director@tsecl.in
49.	Chief Engineer (P) Dept. of Power , Govt of Arunachal Pradesh	Itanagar, Arunachal Pradesh – 791 111	setrans26@gmail.com , tklara@hotmail.com , vidyutarunachal@rediffmail.com , vidyutarunachal@gmail.com , setrans26@gmail.com , tklara@hotmail.com , ee.ced@hotmail.com
50.	Commissioner-cum- Secretary(P), ANED (Andaman)	Secretariat , Andaman and Nicobar Islands, Port Blair- 744101	secyit.and@nic.in
51.	Secretary, Lakshadweep Electricity Dept.	Lakshadweep Electricity Dept. Kavaratti - 682555	lk-ktelect@nic.in
52.	Secretary, Puducherry Electricity	Department Secretariat, Puducherry- 605001	secycs.pon@nic.in , secytran@py.gov.in
53.	Chairman & Managing Director, DTL Delhi	Shakti Sadan, Kotla Marg, New Delhi – 110002	gmoml.dtl@gmail.com , dgmtoperationl.dtl@gmail.com , md@dtl.gov.in

54.	Chairman & Managing Director, NTPC Ltd	NTPC Bhawan, Core 7, Scope Complex 7, Institutional Area Lodhi Road, New Delhi-110003	cmd@ntpc.co.in , amanna@ntpc.co.in , kamalverma@ntpc.co.in shipratyagi@ntpc.co.in
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56.	Chairman & Managing Director, NLC Ltd	Cuddalore District Block - 1, Neyveli Tamilnadu- 607 801	cmd@nlcindia.in
57.	Chairman & Managing Director, THDC Ltd	Pragatipuram, By Pass Road, Rishikesh 249 201	cmd@thdc.co.in
58.	Chairman & Managing Director, NPCIL	Nabhikiya Urja Bhavan, Anushaktinagar, Mumbai-400094	npciltecrectt@npcil.co.in , cmdsecretariat@npcil.co.in
59.	Chairman & Managing Director, NEEPCO Ltd.	NEEPCO Ltd., Lower New Colony, Shillong-793003	cmdneepco@neepco.co.in
60.	Chairman, BBMB (Bhakhra)	Sector -19B, Madhya Marg, Chandigarh – 160019	cman@bbmb.nic.in
61.	Chairman & Managing Director, Damodar Valley Corp.	Head Quarter DVC Towers, VIP Road Kolkata-700054	chairman@dvc.gov.in
62.	Director General, EPTA	First Floor, 6 Basant Lok, Vasant Vihar, New Delhi - 110070	Dg.epta@epta.in , epta.dg@gmail.com
63.	Chairman & Managing Director, TATA Power	NDPL House, Hudson Lines, Kingsway Camp Delhi-110 009	vrshrikhande@tatapower.com , BD@tatapower.com , nitin.kumar@tatapower.com , neeraj.srivastava@tatapower.com , piyushkumar@tatapower.com

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65.	Managing Director, Adani Power Limited	Shantigram, Near Vaishnodevi Circle, S.G. Highway, Ahmedabad-382421 Gujarat	manish.karna@adani.com
66.	Manager, AESL	Adani Power Limited, 7th Floor, Sambhav Building, Judges Bungalow Road, Bodakdev, Ahmedabad, Gujarat-380015	Praveen.tamak@adani.com
67.	Managing Director, L&T IDPL	L&T Campus, TCTC Building, First Floor, Mount Poonamallee Road, Manapakkam, Chennai – 600089.	csr@Intecc.com
68.	Chairman & Managing Director, Reliance Power	Reliance Centre, Ground Floor 19, Walchand Hirachand Marg, Ballard Estate, Mumbai 400 001	
69.	Director, Darbhanga – Motihari Transmission Co. Ltd.	6th Floor, Plot No. 19 & 20, Film City, Sector 16 –A, Noida, Uttar Pradesh – 201301	Nimish.Sheth@SEKURA.IN , Neeraj.Verma@SEKURA.IN , Vijayanand.Semletty@Sekura.in
70.	Chairman & Managing Director, SJVN Ltd	SJVN Corporate Head Quarters, Shanan Shimla- 06. SHIMLA – 171006 HP	sectt.cmd@sjvn.nic.in , nandlal.sharma@sjvn.nic.in
71.	Director, G R Infra Project Ltd	2nd Floor, Novus Tower, Plot No. 18, Sector 18, Gurugram, Haryana - 122015,	modassar.a@grinfra.com , ashwin@grinfra.com , transmission@grinfra.com , akul.s@grinfra.com

72.	Dy GM, G R Infra Project Ltd	Rajgarh Transmission Limited, C/O: G R INFRAPROJECTS LIMITED, 2nd Floor, Novus Tower, Plot No. 18, Sector 18, Gurugram State - Haryana Pin Code – 122015	rajgarhtransmission@grinfra.com
73.	CMD, Megha Engineering & Infrastructures Ltd	S-2 Technocrat Industrial Estate Balanagar Hyderabad - 500 037	jsrinivaskumar@meilgroup.in
74.	Chairman & Managing Director, PPCL	Himadri, Rajghat Power House Complex, New Delhi – 110002	md.ipgpp@nic.in
75.	Director & CEO, Indian Transmission Business Sterlite Power Transmission Ltd	DLF Cyber Park, Tower B, 9th Floor, Udyog Vihar Phase -III, Sector-20 Gurugram- 122008 Ph – 0124-4562000	balaji.sivan@sterlite.com , fahim.alam@sterlitepower.in , Sterlite.bd@sterlitepower.com , chandan.dutt@sterlite.com
76.	Dy. President Kalpataru Power Transmission Ltd	101, Kalpataru Synergy, Opp. Grand Hyatt, Vakola , Santacruz (E), Mumbai 400055. India.	milind.nene@kalptarupower.com , kaushal.thakkar@kalptarupower.com , thakkarkaushal86@yahoo.com , ajay.tripathi@kalptarupower.com
77.	Director, Torrent Power Ltd	Electricity House, Lal Darwaja, Ahmedabad – 380001	NAMANSHAH@torrentpower.com , kaushal.thakkar@kalptarupower.com , kashyapdesai@torrentpower.com , MAYANKGUPTA@torrentpower.com , VATSALPATEL@torrentpower.com
78.	Associate Director, Commercial & Regulatory, Sekura	503A, Windsor, Off CST Road, Kalina Mumbai-400098	Vijayanand.Semletty@Sekura.in

79.	CMD, KEC International Limited	RPG House, 463, Dr. Annie Besant Road, Worli, Mumbai – 400030	kecindia@kecrpg.com
80.	CMD, Juniper Green Transmission Private Limited	F-9 First Floor, Manish Plaza-1, Plot No. 7, MLU, Sector 10, Dwarka South West Delhi 110075	rohit.gera@junipergreeneenergy.com , rohit.gera91@gmail.com
81.	CMD, ReNew Transmission Ventures Private Limited	ReNew , Commercial Block-1, Zone 6, Golf Course Road DLF City Phase-V, Gurugram-122009	mohit.jain@renewpower.in , anuj.jain@renewpower.in , amit.kumar1@renewpower.in
82.	CMD, Apraava Energy Private Limited	7th Floor, FULCRUM, Sahar Road, Andheri (East) Mumbai 400 099	sumit.sinha@apraava.com naveen.munjal@apraava.com , roshni.shah@apraava.com
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85.	Managing Director, L&T IDPL	L&T campus TCTC building , First Floor, Mount Poonamalle Road, Manapakkam, Chennai-600089, Tamil Nadu	contactus@lntidpl.com csr@lntecc.com
86.	Chief Engineer, Electric M &RE Division	Electric M &RE Division, Choglamsar, Leh-Ladakh-194101	cepladakh@gmail.com

87.	Director (BD & Commercial), Apraava Energy	Apraava Energy Private Limited (FULCRUM 7th Floor, Next to Hyatt Regency, Sahar Road, Andheri (East), Mumbai – 400 099. India.	sumit.sinha@apraava.com
88.	Manager, Megha Engineering & Infrastructures Ltd	-	shivaprasad@meilgroup.com
89.	Manager ReNew Transmission Ventures Pvt Ltd	Renew.Hub, Commercial Block-1, Zone-6, Golf Course Road, DLF City Phase V, Gurugram, Haryana – 122009	mohit.jain@renew.com
90.	Asst. Vice President, Sterlite Power	DLF Cyber Park, 9th Floor, B Block, Udyog Vihar Phase III, Sector 20, Gurugram – 122008, Haryana, India	yash.tandon@sterlite.com
91.	Head Environment & Corporate Affairs, Resurgent Power (TATA)	NRSS - XXXVI, Tata Power B-12 & 13 Shatabdi Bhawan, Sector-4, Noida State - Uttar Pradesh - 201301	rajnishmehrotra@tatapower.com

Annexure VI**a. POWERGRID Transmission lines without OPGW
in Northern Region**

S.No	Region	Line	Km
1	NR1	220KV BASSI-BAGRU	35.353
2	NR1	220KV BASSI-IG NAGAR	22.478
3	NR1	220KV HIRAPURA-IG NAGAR	24.875
4	NR1	220KV HIRAPURA-SANGANER	12
5	NR1	220KV MEERUT-NARA	2.316
6	NR1	220KV MEERUT-SHTBDNGR	8.234
7	NR1	220KV MEERUT-SIMBHOLI	9.254
8	NR1	220KV RAPPB-UDAIPUR	230.3
9	NR1	220KV SIKAR-RATANGARH	2.83
10	NR1	220KV SIKAR-SIKAR(RJ)	3
11	NR1	400KV BAGPAT-DEHRADUN	165
12	NR1	400KV BAGPAT-SAHARANPUR	121
13	NR1	400KV BASSI-PHAGI (JAIPUR RRVPNL)	48.432
14	NR1	400KV BASSI-SIKAR	169.8
15	NR1	400KV HISAR-KAITHAL	113.12
16	NR1	400KV MEERUT-BAREILLY	66.009
17	NR1	765KV AGRA-JHATIKALA	253.08
18	NR1	765KV BHIWANI-PHAGI(JPR)	271.57
19	NR1	765KV MOGA-BHIWANI	273
20	NR2	220KV Kishenpur-Sarna	103.64
21	NR2	220KV Salal-Jammu-I	56.33
22	NR2	220KV Salal-Kishanpur-III	58.7
23	NR2	220KV Sarna-Dasuya	53.07
24	NR2	400 KV Dehar (BBMB) - Rajpura (PSTCL) (LILO Portion)	14.4
25	NR2	400KV Bhiwani (BBMB) - Rajpura (PSTCL) (LILO Portion)	14.4
26	NR2	400 KV Dehar-Panchkula (LILO Portion)	9.06
27	NR2	400 KV Panipat-Panchkula (LILO Portion)	9.06
28	NR2	400kV Ludhiana - Patiala	76.215
29	NR2	400kV Nalagarh-Patiala	93.78
30	NR2	400kV Uri 1 - Uri 2	10.456
31	NR2	220KV Salal-Jammu-II	62.42
32	NR3	132KV MAU-BALIA	58
33	NR3	220kV AGRA(PG)-BHARATPUR(RRVPNL)	55.858
34	NR3	220kV AGRA(PG)-SIKANDARA(UP)	55.858
35	NR3	220KV ALLD-JHUSI(UP)	21.879
36	NR3	220KV AUR-SIKANDARA	182.18

37	NR3	220KV JHUSI(UP)-PHULPUR(UP)	16.894
38	NR3	220KV KANPUR(PG) - RANIYA(UP)-1	1.683
39	NR3	220KV KNP-MAINPURI	10.4
40	NR3	220KV KNP-NAUBASTA	14.86
41	NR3	220KV KNP-PANKI-II	14.86
42	NR3	220KV KNP-UNCHR-III	144.63
43	NR3	220KV RAIBRLY-CG CITY(UP)	2
44	NR3	400KV AGRA-BHIWADI	208.98
45	NR3	400KV BALIA-MAU	13
46	NR3	400KV LUCKNOW-UNNAO	73.826
47	NR3	400KV SING-FATEHPUR	330.95
48	NR3	765KV ALIGARH-JHATIKARA	158
49	NR3	765KV KANPUR(GIS)-ALIGARH	327
		Total	4084

**b. TATA Powerlink (Joint Venture of POWERGRID & TATA Power)
Transmission lines without OPGW**

Sl. No	Line name	VOLTAGE	OPGW Length
1	Muzaffarpur-Gorakhpur C1	400kV	260
2	Gorakhpur-Lucknow C1	400kV	245
3	Bareilly-Meerut C1	400kV	237
	Total		742



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

Dated: 23-12-2024

सेवा में / To,

संलग्न सूची के अनुसार/ As per list attached

विषय: दूरसंचार, स्काडा और टेलीमेट्री उपसमिति की 26 वीं बैठक।

Subject: 26th meeting of Telecommunication, SCADA & Telemetry Sub Committee-reg.

उत्तर क्षेत्रीय विद्युत समिति की दूरसंचार, स्काडा और टेलीमेट्री (टेस्ट) उप-समिति की 26 वीं बैठक दिनांक 19.11.2024 को 11:00 बजे सम्मेलन कक्ष, एन.एन.पी.सी, नई दिल्ली में आयोजित की गई। बैठक में कार्यवाही इस पत्र के साथ संलग्न है। यह उत्तर क्षेत्रीय विद्युत समिति की वेबसाइट ([Northern Regional Power Committee](#)) पर भी उपलब्ध है।

26th meeting of Telecommunication, SCADA & Telemetry (TeST) Sub-committee of NRPC was held on 19.11.2024 at 11:00 am in conference room, New Delhi. Minutes of the meeting are enclosed herewith. The same are available on NRPC website at [Northern Regional Power Committee](#).

भवदीय

Yours faithfully,

Signed by Anzum Parwej

Date: 23-12-2024 18:11:33

(अजुम परवेज) / (Anzum Parwej)

अधीक्षण अभियंता / Superintending Engineer

11. Non-Reliable Telemetry from RRVPN Sub-stations (Agenda by NRLDC)

- 11.1 Issue regarding non-availability of reliable data from RRVPNL stations was discussed and they were requested to share update for RTU/SAS upgradation.
- 11.2 Representative from RRVPNL informed that there was delay in tendering due to some approval. However, they confirmed that tendering for RTU/SAS upgradation would be carried out by December 2024.

12. Integration of PMUs at 220kV of RE Pooling Station (Agenda by NRLDC)

- 12.1 Representative from NRLDC informed about delay in commissioning of the PMUs at 220kV Pooling Stations and requested POWERGRID to expedite the installation considering Grid-Operation and Monitoring requirements.
- 12.2 POWERGRID informed that there were some delays in installation due to finalization of feeder and change in BOQ of CT/PT cables. They further informed that issue is resolved and installation activity is in progress and installation is likely to be completed by 31st December 2024.

13. Connectivity of 765kV transmission line from LPGCL to SLDC (Agenda for LPGCL, Lalitpur)

- 13.1 LPGCL informed the forum that the 765 kV double circuit transmission line from LPGCL to Fatehabad has been in charged condition since 2016. The line includes a repeater station at Panksha, which connects to the 765 kV Fatehabad (Agra) Sub-station via COMTEL FOTE equipment installed by LPGCL. While testing and commissioning have been completed, communication has not been established due to damage to fiber communication at multiple locations. Despite repeated communications with UPPTCL, no action has been taken to resolve the issue. Currently, telemetry data is being maintained using GPS.
- 13.2 The representative from UPPTCL stated that the concerned personnel were not present in the meeting and hence could not provide updates on the matter.
- 13.3 They reiterated that multiple communications have been sent to UPPTCL regarding the matter, but no action has been taken.

Decisions of the Forum

- LPGCL was requested to provide NRPC, copies of all communications sent to UPPTCL regarding the fiber communication issue. Based on the documents provided by LPGCL, NRPC will write a formal letter to UPPTCL to address the pending work on the damaged fiber communication.

14. Regarding non availability of Ethernet port at Bhakra Left Bank Power House (Agenda by BBMB)

- 14.1 BBMB informed the forum that during the process of reporting pending RTUs directly to the Backup Control Centre, it was observed that no spare Ethernet ports are available at Bhakra Left Bank Power House.
- 14.2 POWERGRID representative clarified that the existing Fibrehome equipment does not support additional card installations, and replacement is necessary. He

stated that replacement of Fibrehome equipment is also a separate agenda item in this meeting. If BBMB requires replacement, it would need to be done through a separate procurement process. BBMB acknowledged the need for replacement to enable reporting of RTUs to multiple control centers.

14.3. BBMB requested POWERGRID to undertake the replacement of Fibrehome equipment in line with the process for other communication equipment and OPGW laying under the ULDC Scheme. POWERGRID agreed, subject to forum approval, to carry out the replacement of the required communication equipment.

14.4. EE, NRPC, stated that if BBMB and POWERGRID mutually agree, the replacement could be carried out bilaterally. However, POWERGRID emphasized that the scheme requires NRPC Board approval under the ULDC Scheme and suggested that BBMB include the agenda in the upcoming NRPC meeting.

Decisions of the Forum

- POWERGRID and BBMB may proceed bilaterally with the replacement of Fibrehome equipment, subject to mutual agreement.
- For the replacement to be considered under the ULDC Scheme, NRPC Board approval is required. BBMB was advised to present this agenda in the upcoming NRPC meeting for formal approval.

[illegible]



ग्रीड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)
[formerly Power System Operation Corporation Limited (POSOCO)]



केन्द्रीय कार्यालय : 61, आई एफ सी आई टावर, 8वां और 9वां तल, नेहरू प्लेस, नई दिल्ली - 110019
Corporate Office : 61, IFCI Tower, 8th & 9th Floor, Nehru Place, New Delhi - 110019
CIN : U40105DL2009GOI188682, Website : www.grid-india.in, E-mail : gridindiacc@grid-india.in, Tel.: 011- 40234672

ग्रीड-इंडिया /रा. भा. प्रे. के./2025/ 79

Dated: 29.05.2025

To,

1. Member Secretary, NRPC, 18/A, SJSS Marg, Katwaria Sarai, New Delhi-110016
2. Member Secretary, WRPC, F-3, MIDC Area, Andheri (East), Mumbai-400093
3. Member Secretary, SRPC, 29, Race Course Cross Road, Bangalore-560009
4. Member Secretary, ERPC, 14, Golf Club Road, Kolkata-700033
5. Member Secretary, NERPC, NERPC Colony Dongpamaw, Lapalang, Shillong -793006

Subject: Implementation of Ancillary Services In case of emergency conditions in Inter-state IPP thermal station and Renewable Power stations (Solar having minimum installed capacity 250MW) .

Sir,

The grid frequency has been observed to remain persistently above the IEGC band (49.50 to 50.05 Hz) for 4-5 hours during the solar hours on the lean demand days. The situation is particularly critical if the occurrence of inclement weather coincides with weekend or extended holidays in various parts of India. Backing down of conventional generation (thermal, gas and hydro) at regional and intrastate level through the de-centralized scheduling mechanism and through the centralized ancillary despatch (SRAS, TRAS) from NLDC to the participating generation fleet has been found to be thoroughly inadequate during these conditions. Even under these circumstances, the decision to de-commit thermal units during surplus solar hours is severely constrained by the limited thermal capacity for quick start and inadequacy of reserves during non-solar hours.

Hon'ble CERC through Petition No. 07/SM/2023 order dated 31st May 2023 expanded the scope for procurement of Ancillary Services under shortfall conditions of the CERC (Ancillary Services) Regulations, 2022. Through this order, generating stations other than those whose tariff is determined by CERC under Section 62, are eligible to participate under TRAS-Shortfall by declaring compensation charge in advance to the Nodal Agency.

Further as per Ancillary services regulation, 2022 clause 20(6) Nodal agency can despatch any power station under emergency conditions for reason of grid security. The relevant clause is quoted below:

"In case the Nodal Agency requires any generating station to provide Ancillary Services to meet the emergency conditions for reasons of grid security as per the provisions of the Grid Code, such generating station shall be compensated at the rate of the energy charge as determined under Section 62 of the Act or adopted under Section 63 of the Act, or at the rate of the compensation charge declared by the AS provider, as the case may be."

As per the regulatory provisions, the following real-time measures to maintain the system frequency within IEGC band in lean hours has been taken:

1. Trial run of generators are avoided on these low demand days.
2. Interstate thermal IPPs (Independent power producers) are being instructed to run the plant at 55% i.e. Minimum Turndown Level. The desired quantum required to reduce the plant schedule up to technical minimum is being incorporated/despached as Ancillary (Emergency) in the respective IPP schedule and beneficiaries schedule of those IPPs remains unchanged.
3. If further required, TRAS Down under emergency provision of Ancillary Service Regulation are being implemented in regional entity RE solar generating stations having installed capacity of 250 MW or more. While implementing the TRAS Down under emergency condition the schedule of their concerned beneficiaries shall remain unchanged.
4. Under Emergency condition TRAS down was implemented on 25.05.2025 in Interstate thermal IPPs and regional entity RE solar generating stations having installed capacity of 250 MW or more.

RLDCs shall submit the TRAS Emergency despatch data on weekly basis to their concerned RPC. The statement may be published as per Regulation 20(6) of AS Regulations for Sec-62 and Sec-63 plants. For all other cases viz. regional merchant IPPs and Solar plants who are yet to submit the compensation charges and despached under TRAS Emergency by NLDC, the compensation charge for settlement may be considered as per the directions of the Hon'ble CERC .

NLDC Communication to CERC seeking suitable directions in this regard is enclosed as Annexure-1

This is for kind information and necessary action please.

Thanking you,

Yours sincerely,



(S.Usha)

ED,NLDC

Encl: As above

Copy to:

- 1) Secretary, CERC
- 2) CMD, Grid-India
- 3) Director (SO), Grid-India
- 4) Executive Director NERLDC/NRLDC/WRLDC/SRLDC/ERLDC



ग्रीड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)



[Formerly Power System Operation Corporation Limited (PSOCO)]

राष्ट्रीय भार प्रेषण केन्द्र / National Load Despatch Centre

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Ref: Grid-India/NLDC/

Date: 20th May 2025

सेवा में,

सचिव

केन्द्रीय विद्युत विनियामक आयोग

छत्र, सतलॉ तथा आठवें तल, टावर-बी, वर्ल्ड ट्रेड सेंटर

नौरोजी नगर, नई दिल्ली - 110029

विषय : Draft revised detailed procedure for Tertiary Reserves Ancillary Services

महोदय,

In accordance with CERC (Ancillary Services) Regulations, 2022 and notification no. RA-14026(11)/3/2019-CERC dated 28.04.2023, Tertiary Reserves Ancillary Services (TRAS) was operationalized with effect from 1st June 2023.

As per the above regulations, National Load Despatch Centre (NLDC), Grid-India has been designated as the Nodal Agency for Ancillary Services. In compliance to Regulation 23 of the aforesaid regulations, a detailed procedure for Tertiary Reserve Ancillary Services (TRAS) was prepared by the Nodal Agency, which was issued on 18th April 2023 following stakeholder consultation.

The up and down reserves available under TRAS through Day-ahead & Real-time AS markets and through shortfall mechanism are at times insufficient to meet the grid requirements. In particular, shortfall of down reserves has been a hindrance in containing the high frequency operation observed on several lean demand days in 2024 and 2025.

Regulation 20(6) of the Ancillary Services Regulations empowers the nodal agency to direct any generating station to provide Ancillary Services. Accordingly, the detailed procedure for TRAS has been revised to incorporate a framework for operationalization of TRAS under emergency conditions. A few other minor revisions in the procedure have also been made to align it with the regulatory changes since its issuance.

In addition to the above, suitable regulatory intervention is needed on the following aspects for more effective utilization of TRAS under emergency conditions. Some of these aspects have been included in the draft revised procedure.

1. As per the commission's directions in suo-moto petition no. 7/SM/2023, generating stations other than those whose tariff is determined by CERC under Section 62, are eligible to participate under TRAS-Shortfall by declaring compensation charge. However, as per regulation 20(6) of the AS Regulations governing dispatch of ancillary services under emergency conditions, generators whose tariff is determined or adopted under Section 62 or Section 63 are to be settled at the rate of their energy charge. Thus, there may be a set of generating stations which would declare compensation charge for TRAS-Shortfall and would be settled at this declared compensation charge but the same generating station would need to be settled at energy charge, if dispatched under TRAS-Emergency. Thus, suitable

directions may be provided to harmonize the two provisions and avoid maintaining two sets of charges for the same generating station.

Further, directions may also be provided for declaration of energy charge to be considered under TRAS-Emergency for generators which have a mix of different PPAs under Section 62 and 63 as well as merchant capacity.

2. Compensation charges may be specified as zero for generating stations based on solar, wind or wind-solar hybrid, as the marginal cost of generation for such sources is zero. This would keep the generating stations revenue neutral when they are given TRAS-down instructions under emergency. Further, payment of a small incentive (5-10 paise/kWh) may be considered for TRAS-Up and Down for such category of generating stations.
3. A mechanism may be specified for settlement of generating stations which have not declared compensation charge but are dispatched by the Nodal Agency under TRAS-Emergency so that non-declaration of compensation charge by the generators do not act as a hindrance for despatching such generators under TRAS-Emergency. For example, average UMCP of day-ahead market/real-time market could be considered as the reference in such cases.
4. Imposition of appropriate price caps on declaration of compensation charge by generating stations may be considered to ensure realistic declaration of compensation charge.

The draft revised detailed procedure for TRAS is enclosed herewith. NLDC, as Nodal Agency would be floating this draft for stakeholder consultation.

Submitted for kind information of the Commission and directions, if any, in the matter.

Yours sincerely,



(S. Usha)

Executive Director, NLDC

Enclosed: as above

Copy to:

- 1) CMD, Grid-India
- 2) Director (SO), Grid-India



Grid Controller of India Ltd.

(Formerly POSOCO)

Detailed Procedure for Tertiary Reserve Ancillary Service (TRAS) Revision - 1

*Prepared in Compliance to
Central Electricity Regulatory Commission (Ancillary Services)
Regulations, 2022*

National Load Despatch Centre (NLDC), New Delhi

May 2025

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List of Annexures

Annexure	Title
Annexure – 1	Reserve Requirement Information Dissemination
Annexure – 2	Sample Bid Format and Illustrations
Annexure – 3	High level algorithm for TRAS Bid Clearing

1.0 Preamble

- 1.1 Maintaining frequency stability is critical for the integrated operation of a large interconnected power system like India. Generally, frequency response of any power system can be characterized by different time window-based responses, such as, inertial, primary frequency, secondary frequency, and tertiary frequency response.
- 1.2 Tertiary reserves would act as replenishment for secondary reserves as secondary reserves are to be restored back to their original level for preparation towards next contingency. Tertiary reserve need to be greater or equal to secondary reserves to take care of contingencies. The tertiary reserves have to be maintained at both regional entity level as well as state control area in a distributed manner.
- 1.3 Central Electricity Regulatory Commission (CERC) has notified (Ancillary Services) Regulations, 2022, hereinafter referred to as the "AS Regulations". It has provided for Ancillary Services in the form of Secondary Reserve Ancillary Services (SRAS) and Tertiary Reserve Ancillary Services (TRAS).
- 1.4 Vide Order No. RA-14026(11)/3/2019-CERC dated 15 February 2023 and Order No. RA-14026(11)/3/2019-CERC dated 27 March 2023, Central Commission has notified that the following provisions of the AS Regulations shall come into force from 01 May 2023:
 - 1.4.1 Provisions pertaining to TRAS under Regulation 6;
 - 1.4.2 Regulations 14 to 19;
 - 1.4.3 Provisions pertaining to TRAS in Regulations 20 to 22
 - 1.4.4 Regulations 26.
- 1.5 Vide order in petition no. 7/SM/2023 dated 31 May 2023, CERC has expanded the scope for procurement of ancillary services under shortfall conditions to the following categories of generators:
 - a) Regional generating stations other than those whose tariffs are determined by the Commission under Section 62 of the Act
 - b) State generating stations whose tariffs are determined or adopted by the State Commission
 - c) Generating stations mandated by the Central Government whose tariffs are discovered through a competitive bidding processThe above categories of generating stations are eligible to make themselves available for use by the Nodal Agency by declaring their compensation charge in advance to the Nodal Agency.

- 1.6 "Tertiary Reserve Ancillary Service" or "TRAS" means the Ancillary Service comprising TRAS-Up and TRAS-Down and consists of spinning reserve or non-spinning reserve, which responds to despatch instructions from the Nodal Agency.
- 1.7 As per the regulations, NLDC has been designated as the Nodal Agency. Further, it has been provided that detailed procedure on the operational aspects of Tertiary Reserve Ancillary Services (TRAS) are to be submitted by the Nodal Agency (Regulation 23(1)) for the information of the Hon'ble Commission.
- 1.8 National Load Despatch Centre i.e. the Nodal Agency, in coordination with RLDCs and SLDCs, shall estimate the quantum of requirement of TRAS, for such period and based on such methodology as specified in the Grid Code. Nodal Agency has prepared the detailed procedure for assessment of quantum of secondary & tertiary reserve capacity, along with information exchange and timelines, which has been approved by the Central Commission on 28th September 2023. The procedure is available at following web-link: <https://grid-india.in/wp-content/uploads/2024/03/A-1.pdf>

2.0 Scope

- 2.1 This procedure lays down the roles and methodology to be followed for the operational aspects of procurement, deployment and payment of TRAS in accordance with the CERC (Ancillary Services) Regulations, 2022 to be followed by the Nodal Agency (NLDC), RLDCs, SLDCs, RPCs, Power Exchange(s) and TRAS Providers.

3.0 Definitions

- 3.1 All the words and expressions used in the Procedure shall have the same definition as assigned to them in the Electricity Act, 2003 and various CERC Regulations.

4.0 Roles

4.1 Nodal Agency (NLDC)

- 4.1.1 Nodal Agency would, in coordination with RLDCs and SLDCs, estimate the quantum of requirement of TRAS, for such period and based on such methodology as specified in the Grid Code.

- 4.1.2 The exchange of information regarding TRAS between the Nodal Agency and the Power Exchange(s) shall be through National Open Access Registry (NOAR) and/or appropriate software applications. TRAS Providers shall be provided relevant information through NOAR, scheduling system and other software applications.
- 4.1.3 Nodal Agency shall communicate to the Power Exchange(s), the range of requirement of TRAS-Up and TRAS-Down in the Day Ahead AS Market and Real Time AS Market, considering the reserves likely to be available in real-time basis. The reserve requirement would be updated as and when required.
- 4.1.4 Nodal Agency shall perform price discovery based on the bids for TRAS-Up & TRAS-Down collected and provided by the Power Exchange(s), and TRAS requirement in the Day Ahead AS Market and Real Time AS Market.
- 4.1.5 Nodal Agency would activate and give TRAS despatch instructions to TRAS Providers based on triggering criteria laid down in this procedure.
- 4.1.6 In case of shortfall, all generating stations, whose tariff is determined by the Commission under Section 62 of the Act (including for inter-state generating stations whose tariff has been determined for full or part capacity) including those having URS power after declaration of the RTM results, and other generating stations opting for TRAS-Shortfall shall be deemed to be available for use by the Nodal Agency for TRAS subject to technical constraints (like technical minimum, ramp rate etc.) of such generating stations.
- 4.1.7 In order to meet the emergency conditions for reasons of grid security as per the provisions of the Grid Code, Nodal Agency may require any generating station to provide Ancillary Services.
- 4.1.8 Nodal Agency would provide data (cleared volume, despatched volumes, energy charge/compensation charge, market clearing price, commitment charge) to respective RPCs, through RLDCs, for accounting and settlement through Regional Deviation and Ancillary Service Pool Account in respect of the regional entity TRAS providers on a weekly basis as per timelines specified in the Grid Code.

- 4.1.9 Nodal Agency would provide data (cleared volume, despatched volumes, energy charge/compensation charge) to respective SLDCs, through RLDCs, for the accounting and settlement through Regional Deviation and Ancillary Service Pool Account in respect of the intra-state TRAS providers on a weekly basis.
- 4.1.10 For the intra-state generators, the settlement of payments towards TRAS-Up/TRAS-Down along with the applicable commitment charges would be done by the Nodal Agency/RLDCs with the respective Regional Deviation and Ancillary Service Pool Account as per the weekly TRAS statement of accounts issued by respective RPCs.
- 4.1.11 Nodal Agency would publish information on its website about TRAS procured, scheduled and despatched on weekly basis and submit monthly feedback reports to the Central Commission.

4.2 Regional Load Despatch Centres (RLDCs)

- 4.2.1 Any Entity, who satisfies the conditions for scheduling, metering & energy accounting by RLDCs, as per extant Grid Code provisions, and is intending to participate in the Day Ahead AS Market and Real Time AS Market as a Regional Entity shall obtain "Standing Clearance" by applying through NOAR from the respective RLDCs. The standing clearance already issued for short term market would be valid for participation in the TRAS market subject to registration in NOAR as per this procedure.
- 4.2.2 The respective RLDCs would maintain record of cleared and despatched TRAS quantum for regional entity TRAS Providers.
- 4.2.3 In the case of intra-state TRAS Provider, RLDC shall forward the weekly TRAS 15-minute MW despatched quantum to the respective SLDC.
- 4.2.4 RLDCs shall incorporate the despatched quantum of intra-state TRAS Providers to the respective state's net schedule in real time via WBES.

4.3 State Load Despatch Centres (SLDCs)

- 4.3.1 State Utilities and intra State entities proposing to participate in the Day Ahead AS Market and Real Time AS Market shall obtain "Standing Clearance" from the respective SLDCs. The standing clearance already issued for short term market would be valid for participation in the TRAS market subject to registration in NOAR.

- 4.3.2 The respective SLDCs would maintain record of cleared and despatched TRAS quantum for intra-state entity TRAS Providers. The SLDCs shall ensure that cleared TRAS quantum of intra-state TRAS Provider shall not be scheduled by the intra-state beneficiaries/procurers.
- 4.3.3 SLDCs shall use the despatched quantum of TRAS for intra-state TRAS Provider and incorporate it in the state's net schedule (with appropriate sign) for the purpose of monitoring deviations at state periphery and at intra-state TRAS Provider periphery.
- 4.3.4 SLDCs shall include the 15-minute TRAS MW despatched quantum data in the schedules of TRAS Providers as received from RLDC for deviation settlement.
- 4.3.5 As per Clause 5.3 of the detailed procedure for assessment of quantum of secondary & tertiary reserve capacity as approved by the Central Commission, the SLDC shall maintain reserves as estimated by Nodal Agency or as per the estimation carried out by the SLDC in accordance with the IEGC or State Grid Code, as the case may be.

4.4 TRAS Providers

- 4.4.1 TRAS Providers shall get registered on NOAR portal for participation in the TRAS mechanism. The registration details would have both technical and commercial parameters as per **Format TRAS – I**. Those participants who are already registered on the NOAR for T-GNA shall provide additional details through the NOAR for participation in TRAS.
- 4.4.2 TRAS Providers shall submit "Energy-Up" bids and "Energy-Down" bids in the Power Exchange(s) in the Day Ahead AS Market and Real Time AS Market.
- 4.4.3 TRAS Providers shall have information exchange with power exchange(s) in respect of the TRAS-Up and TRAS-Down cleared for the Day Ahead AS Market and Real Time AS Market.
- 4.4.4 TRAS Providers, at inter-state level, would get TRAS Up/Down despatch instruction by Nodal Agency primarily through a web-based Application Programming Interface (API) and/or through Grid-India's Web Based Energy Scheduling (WBES) Software. In addition, the communication alerts would also be sent through e-mail and SMS. It shall be the responsibility

of TRAS Provider to continuously monitor the communications through the modes mentioned above for TRAS related information.

4.4.5 TRAS Providers, at intra-state level, would get TRAS Up/Down despatch instruction by Nodal Agency primarily through a web-based Application Programming Interface (API). In addition, the communication alerts would also be sent through e-mail and SMS with copy to respective SLDCs. It shall be the responsibility of TRAS Provider to continuously monitor the communications through the modes mentioned above for TRAS related information.

4.4.6 All TRAS Providers participating in the Day Ahead AS Market and Real Time AS Market shall be identifiable with a Unique Code on the basis of Bid Area, sub Bid Area (if any), Regional Entity, Intra state Entity as in vogue in NOAR. Power Exchange(s) shall use the same codes for the entities as have been specified for the collective transactions through Day Ahead Market and Real Time Market by NLDC.

4.5 Power Exchange(s)

4.5.1 The exchange of information regarding TRAS between the Nodal Agency and the Power Exchange(s) shall be through National Open Access Registry (NOAR) and/or appropriate software applications.

4.5.2 Power Exchange(s) would design a separate market segment for TRAS in terms of CERC (Power Market) Regulations, 2021.

4.5.3 Power Exchange(s) would collect and provide the bids by the TRAS Providers to Nodal Agency which in turn would perform price discovery based on the bids for TRAS-Up & TRAS-Down.

4.6 Regional Power Committees (RPCs)

4.6.1 The respective RPCs shall prepare weekly TRAS statement of accounts along with the weekly deviation account based on the data provided to them by the Nodal Agency/RLDCs for all inter-state and intra-state TRAS Providers.

5.0 Eligibility of TRAS Provider

5.1 A generating station or an entity having energy storage resource or an entity capable of providing demand response, on standalone or aggregated basis,

connected to inter-State transmission system or intra-State transmission system shall be eligible for participation as TRAS Provider, if

- 5.1.1 it is capable of varying its active power output or drawl or consumption, as the case may be, on receipt of despatch instructions from the Nodal Agency; and
- 5.1.2 it is capable of providing TRAS within 15 minutes and sustaining the service for at least next 60 minutes; and
- 5.1.3 has obtained standing clearance from RLDC or SLDC, as the case may be; and
- 5.1.4 has taken necessary steps for participation in TRAS market through concerned Power Exchange;

6.0 Standing Clearance

- 6.1 The "Standing Clearance" submitted by the Regional Entity/ State Utilities/intra state entity to the Power Exchange through NOAR, as per the extant Procedure, for the Day Ahead market and Real Time market shall be considered valid for participation in the Day Ahead AS Market and Real Time AS Market.
- 6.2 It shall be the responsibility of the concerned TRAS Provider to ensure that there is no violation of the standing clearance issued by RLDC/SLDC.
- 6.3 The minimum quantum of standing clearance shall be 1 MW.

7.0 Triggering Criteria for Activation and Deployment of TRAS

- 7.1 TRAS shall be activated and deployed by the Nodal Agency on account of the following events:
 - 7.1.1 In case the secondary reserve through SRAS has been deployed continuously in one direction for fifteen (15) minutes for more than 100 MW, in order to replenish the secondary reserve;
 - 7.1.2 Balancing requirements arising due to forecast errors, contingencies (generation/transmission system outages), extreme weather conditions, load and net-load variations, renewable generation variation, ramp mismatches, congestion, system frequency profile and/or any other anticipated conditions affecting grid security.
 - 7.1.3 Such other events as specified in the prevailing Grid Code.

8.0 Protocol for exchange of information between Nodal Agency and Power Exchange

- 8.1 All data between Nodal Agency and Power Exchange(s) shall be exchanged electronically through National Open Access Registry (NOAR) with redundant dedicated communication channel for better reliability.
- 8.2 At the end of each Day-Ahead AS market bidding session and Real-time AS market bidding session, the Power Exchanges shall collect and submit the TRAS Up and Down bids on their platform to the Nodal Agency.
- 8.3 Nodal Agency shall aggregate the TRAS Up and TRAS Down bids received from the Power Exchange(s).

9.0 TRAS Requirement

- 9.1 The assessment of TRAS Day-Ahead and TRAS Real Time requirement would be done as per approved detailed procedure for assessment of quantum of secondary & tertiary reserve capacity dated 28th September 2023 and subsequent revisions, as applicable.
- 9.2 Nodal Agency shall communicate to the power exchange(s), the requirement of TRAS-Up and TRAS-Down as per **Annexure - 1**, considering the reserves likely to be available in real-time basis, for both Day-Ahead AS market and Real Time AS market. It would be updated as and when required.

10.0 Bids for TRAS Up and TRAS Down

- 10.1 TRAS Providers may participate in Day Ahead AS and/or Real Time AS market.
- 10.2 The TRAS Up and Down bid would be in the form of Single bid. Single bid would specify multiple sequences of price and quantity pairs in a portfolio manner. The quantity shall be assumed to vary linearly between two price pairs.
 - 10.2.1 In case of TRAS Up, monotonically increasing bid shall be considered.
 - 10.2.2 In case of TRAS Down, monotonically decreasing bid shall be considered.
- 10.3 The minimum quantity bid shall be 1 MW with a minimum step-size of 0.1 MW.
- 10.4 The minimum quotation step or price tick would be ₹ 1 per MWh.

10.5 The TRAS Providers shall submit bids in the following manner:

10.5.1 Time-block wise bids for TRAS-Up and TRAS-Down shall be submitted in the Day Ahead AS Market and Real Time AS market.

10.5.2 For TRAS-Up, Energy-Up bid in ₹/MWh shall be submitted for the offer volume in MW.

10.5.3 For TRAS-Down, Energy-Down bid in ₹/MWh shall be submitted for the offer volume in MW.

10.6 TRAS provider shall ensure that the capacity offered, as a sell bid for energy in the Power Exchange and for TRAS from a resource in the same time-block, shall be separate and non-overlapping.

10.7 After clearing of the Integrated Day-Ahead Energy Market (I-DAM) and Real-Time Energy Market (RTM), the uncleared bids of eligible participants who have opted to carry over their bids, would be carried forward to Day Ahead AS market and Real-Time AS Market respectively. There shall be no order carry forward for TRAS Down bids in Day Ahead AS market and Real-Time AS Market.

10.8 There shall also be a provision for 'Ancillary Service (AS) only' bid in Day Ahead AS market and Real Time AS market.

11.0 Protocol for transmission of Bids by Power Exchanges

11.1 The uncleared bids from the IDAM/RTM of those TRAS Providers who have opted to carry forward their bids to the Day-Ahead AS market/Real-Time AS Market would be known as Order Carried Forward bid(s).

11.2 In case power exchanges receive both Ancillary only bids and Order Carried Forward bid(s) from the same TRAS provider, then power exchange shall form and transmit combined bid(s) to the Nodal Agency for price discovery.

11.3 The power exchanges shall transmit the bids through the API/web interface of NOAR. The bid data shall consist of the NOAR id of the TRAS Provider, time block, bid submission time stamp of the TRAS Provider on power exchange platform, price and quantity pairs in the specified format. The bid data format along with illustrations for combining bid(s) by the power exchanges is attached at **Annexure – 2**.

11.4 The power exchanges shall provide daily and weekly reports (in machine readable format) containing details on total unsold bid quantum and the associated price ticks along with total carried forward bid quantum and the associated price ticks for each of the individual TRAS Provider bids as per formats indicated by Nodal Agency from time to time.

12.0 Price Caps

12.1 Price caps, as notified by CERC from time to time, shall be applicable for DAM-AS and RTM-AS for the TRAS Up bid(s).

12.2 Central Commission, vide order dated 28th April 2023 in petition no. 81/RC/2023, 82/MP/2023 and 88/RC/2023 directed that the price cap for AS market needs be harmonized with DAM and HP-DAM. Accordingly, NLDC and the Power Exchanges have to make suitable provisions in their respective procedures and software towards the same. In order to avoid arbitrage opportunities, similar bid/price cap needs be provided for RTM-AS as well.

12.3 Central Commission vide order in Petition No. 04/SM/2023 (Suo-Motu) dated 31 March, 2023 directed all the Power Exchanges to re-design their bidding software for the period from 04 April 2023 until further orders, in such a way that the members can quote the price in the range of (a) ₹ 0/kWh to ₹ 10/kWh for all contracts, viz., DAM (including GDAM), RTM, Intra-day, Day Ahead Contingency and Term-Ahead (including GTAM); and (b) ₹ 0/kWh to ₹ 20/kWh in the HP-DAM segment.

12.4 Eligible high price TRAS Providers (having HP-DAM tag available in NOAR) shall be allowed to place bids for TRAS-Up in the range of ₹ 0/kWh to ₹ 20/kWh. All other TRAS Providers shall be allowed to place bids for TRAS-Up in the range of ₹ 0/kWh to ₹ 10/kWh.

12.5 The price caps are subject to change as per circulars issued by Nodal Agency in accordance with the Central Commission directions on price caps in terms of Power Market Regulations, 2021 from time to time.

13.0 Price Discovery of TRAS

13.1 Price Discovery for TRAS-Up

13.1.1 The price discovery for TRAS-Up shall be based on the principle of Uniform Market Clearing Price subject to market splitting in case of congestion.

13.1.2 The highest Energy-Up bid corresponding to the requirement for TRAS-Up, shall be the Market Clearing price for Energy-Up in the Day Ahead Ancillary Service Market (MCP-Energy-Up-AS-DAM) or in the Real Time Ancillary Service Market (MCP-Energy-Up-AS-RTM), as the case may be. Provided that, the applicable Market Clearing Price for TRAS Up providers shall be capped at their respective price caps as specified in the subsequent sections.

13.2 Price Discovery for TRAS-Down

13.2.1 The price discovery for TRAS-Down shall be based on the principle of Pay-as-bid.

13.2.2 The Energy-Down bids shall be stacked in a descending order from the highest Energy Down bid to the lowest Energy-Down bid and the Nodal Agency shall select the TRAS-Down Providers to meet the estimated TRAS Down requirement in that order.

13.3 The TRAS-Up Bids from High Price tagged TRAS Providers (HP-TRAS Providers) and other TRAS Providers shall be collected and cleared together. Market Clearing Price (MCP) shall be derived from the single clearing solution,.

13.4 In case MCP discovered is less than or equal to ₹ 10/kWh, the applicable MCP for both HP-TRAS providers and other TRAS providers would be equal to the MCP discovered.

13.5 In case MCP discovered is greater than ₹10/kWh, the applicable MCP for HP-TRAS providers would be equal to MCP discovered, and the applicable MCP for other TRAS providers would be capped at ₹ 10/kWh.

13.6 The high level algorithm of bid clearing is given as **Annexure – 3**.

14.0 Procurement of TRAS

14.1 Bidding Timelines

14.1.1 Procurement of TRAS through Day Ahead AS Market and Real Time AS Market shall be undertaken in accordance with the prevailing bidding timelines as specified from time to time by CERC..

14.1.2 The bidding timelines for Day Ahead AS Market and Real Time AS Market shall be the same as those prevailing for the Day Ahead Market for energy and Real Time Market for energy respectively.

14.2 Trading Days

14.2.1 Nodal Agency shall operate on all days of the year including Sundays, public and bank holidays.

14.3 Bidding in Day Ahead AS Market

14.3.1 The bid-call session for TRAS-Up and TRAS-Down in the Power Exchange(s) shall be open from 1000 – 1100 hours or as specified from time to time, on day-ahead basis, for the TRAS Providers to submit separate TRAS Up & TRAS Down bids.

14.3.2 The power exchange(s) shall collect the bids for TRAS-Up and TRAS-Down and share the same with the Nodal agency for clearing and price discovery by 1330 hrs.

14.3.3 Nodal Agency would calculate the Day-Ahead AS Market Clearing Price and Market Clearing Volume for each time-block for TRAS Up & TRAS Down separately

14.3.4 Nodal Agency would send the cleared TRAS Up & TRAS Down information to Power Exchange(s) through National Open Access Registry (NOAR) by 1430 hrs.

14.3.5 The information of cleared trades shall be conveyed by Nodal Agency through NOAR to respective RLDCs, SLDCs and TRAS Providers by 1430 hrs.

14.4 Bidding in Real Time AS Market

14.4.1 The bid call sessions for Real Time AS market for delivery in the specified two consecutive time-blocks shall be open concurrently with the bid call session for Real Time Energy market in the Power Exchanges.

14.4.2 The Power Exchanges shall collect the bids received and share the same with the Nodal Agency immediately at the end of the bid-call session.

14.4.3 Nodal Agency would calculate the Real-Time AS Market Clearing Price and Market Clearing Volume for each time-block for both TRAS Up & TRAS Down in next 15 minutes following the bid call session from Power Exchange(s).

14.4.4 Nodal Agency would send the cleared TRAS Up & TRAS Down information to Power Exchange(s) and also, send the information to respective RLDCs, SLDCs and TRAS Providers.

15.0 Scheduling and Despatch of TRAS

15.1 Scheduling and despatch of TRAS shall be according to the provisions of the prevailing Grid Code.

15.2 The schedule for TRAS shall become effective from the time block starting 15 minutes after issue of the despatch instruction by the Nodal Agency.

15.3 Nodal Agency may issue despatch instruction from any time block after the above-mentioned time block, if required, based on the anticipated system conditions.

15.4 A virtual regional entity called "Virtual Ancillary Entity (VAE)" shall be created for each of the five regional grids to act as scheduling counterparty.

15.5 The quantum of TRAS dispatched by the Nodal Agency shall be incorporated in the schedule of respective TRAS provider by the concerned RLDC at inter-state level and concerned SLDC at intra-state level.

15.6 MCP-Energy-Up-AS-DAM and MCP-Energy-Up-AS-RTM would be computed for all TRAS Providers for scheduling and dispatch as follows -

15.6.1 In case MCP discovered is less than or equal to ₹ 10/kWh, the MCP-Energy-Up-AS-DAM for both HP-TRAS providers and other TRAS providers would be equal to MCP discovered.

15.6.2 In case MCP discovered is greater than ₹ 10/kWh, the MCP-Energy-Up-AS-DAM for HP-TRAS providers would be equal to MCP discovered. The MCP-Energy-Up-AS-DAM for other TRAS providers would be capped at ₹ 10/kWh.

15.6.3 Similar methodology would be followed for MCP-Energy-Up-AS-RTM

15.7 The Nodal Agency shall deploy the cleared TRAS-Up as under:

15.7.1 In case the actual requirement for deployment of TRAS-Up is more than or equal to the total TRAS Up cleared in the AS market (both Day-ahead AS market & Real Time AS market), the Nodal Agency shall issue despatch instructions to all the cleared TRAS-Up Providers.

15.7.2 In case the actual requirement for deployment of TRAS-Up is less than the total TRAS Up cleared in the AS market (both Day-ahead AS market & Real Time AS market), the TRAS-Up Providers with lower MCP-Energy-Up-AS shall be despatched first, followed by the TRAS-Up Providers with higher MCP-Energy-Up-AS, till the actual requirement quantum is dispatched.

15.7.2.1 In cases where MCP-Energy-Up-AS-DAM and MCP-Energy-Up-AS-RTM of the TRAS-Up Providers is equal, and dispatching only some of the TRAS-Up Providers is enough to meet the actual requirement quantum, then all those TRAS-Up Providers shall be despatched on pro-rata basis of their cleared volume.

15.8 The Nodal Agency shall deploy the cleared TRAS-Down as under:

15.8.1 In case the actual requirement for deployment of TRAS-Down is equal to the total TRAS-Down cleared in the AS market, the Nodal Agency shall issue despatch instructions to all such TRAS-Down Providers.

15.8.2 In case the actual requirement for deployment of TRAS-Down is less than the total TRAS-Down cleared in the AS market, the Nodal Agency shall issue despatch instructions to the TRAS-Down Providers in the descending order of their Energy-Down bids, so that the selected TRAS-Down Provider with the highest Energy-Down bid shall be despatched first, followed by the TRAS-Down Provider with the next highest Energy-Down bid and so on.

15.9 The Nodal agency would consider inter-regional and intra-regional congestion, if any, while dispatching the TRAS and, segregate the TRAS Providers stack on a region-wise basis as per the anticipated congestion.

15.10 In case of forced outage of the cleared TRAS provider, the TRAS Provider shall inform the Nodal Agency, vide e-mail and through NOAR Portal, within 15 minutes of the tripping. Upon receipt of this information, such quantum shall be excluded from TRAS cleared quantum by Nodal Agency. Such TRAS Provider shall receive no commitment charges in case of forced outage for the quantum not available for despatch under TRAS;

15.11 The final TRAS Up and TRAS Down implemented schedule issued by the Nodal Agency/RLDCs shall be considered final for the settlement.

16.0 Transmission Charges and Losses

16.1 No inter-state transmission charges, transmission losses and transmission deviation charges shall be applicable for the TRAS Up and TRAS Down delivery.

16.2 Cleared and scheduled quantum for TRAS-Up and TRAS-Down shall be specified at regional periphery.

17.0 Shortfall in Procurement of TRAS

17.1 In case of shortfall, all generating stations, whose tariff is determined by the Central Commission under Section 62 of the Act (including for inter-state generating stations whose tariff has been determined for full or part capacity) including those having URS power after declaration of the RTM results, and other generating stations opting for TRAS-Shortfall shall be deemed to be available for use by the Nodal Agency for TRAS subject to technical constraints (like minimum turndown level, ramp rate etc.) of such generating stations.

17.2 The generating stations whose tariff is determined by CERC under section 62 of the Act, shall declare their energy charges upfront on monthly basis by 12th of every month through NOAR which shall be used for TRAS despatch under shortfall conditions from the 16th of the current month to the 15th of the next month. The energy charges declared shall be the same as being declared for SRAS despatch.

17.3 The generating stations other than whose tariff is determined by CERC under section 62, shall declare their compensation charges upfront on monthly basis by 12th of every month through NOAR which shall be used for TRAS despatch under shortfall conditions from the 16th of the current month to the 15th of the next month. Generating stations willing to participate under TRAS-Shortfall shall also communicate their willingness to the Nodal Agency.

- 17.3.1 Gas-based generating stations shall declare their energy charge or compensation charge, as the case may be, on weekly basis through NOAR.
- 17.4 The timelines for declaration of energy charge/compensation charge by TRAS providers may differ from those specified at 17.2 and 17.3, if specified as such through directions of appropriate authority.
- 17.5 Section 62 generating stations, who are despatched under TRAS-Up in the event of shortfall in procurement of TRAS-Up through the AS Day Ahead Market and AS Real Time Market, shall be paid at the rate of 110% of their energy charges for the quantum of TRAS-Up despatched.
Other generating stations, who are dispatched under TRAS-Up in the event of shortfall in procurement of TRAS-Up through the AS Day Ahead Market and AS Real Time Market, shall be paid at the rate of 110% of their compensation charges for the quantum of TRAS-Up despatched.
- 17.6 Section 62 generating stations, despatched under TRAS-Down, in the event of short-fall in procurement of TRAS-Down through the AS Day Ahead Market and AS Real Time Market, shall pay back at the rate of 90% of their energy charges, corresponding to the quantum of TRAS-Down despatched.
Other generating stations, who are dispatched under TRAS-Down in the event of shortfall in procurement of TRAS-Down through the AS Day Ahead Market and AS Real Time Market, shall pay back at the rate of 90% of their compensation charges for the quantum of TRAS-Down despatched.
- 17.7 All regional entity generating stations shall provide their declared capability, normative on-bar capacity, ramp-up & ramp-down rates through WBES in line with the actual operational state of the generating station. These parameters shall be used by Nodal Agency for computing available margins for dispatch of TRAS-Up and TRAS-Down under shortfall and emergency conditions.
- 17.8 Block-wise scheduling parameters for participating intra-state generating stations shall be provided by SLDCs to the Nodal Agency through application programming interface. Alternatively, these parameters may be provided directly by the generating station through a web-based interface provided by the Nodal Agency, with concurrence of SLDC.

18.0 TRAS Despatch in case of Emergency Conditions

- 18.1 In case the Nodal Agency requires any generating station to provide Ancillary Services to meet the emergency conditions for reasons of grid security as per the provisions of the Grid Code, such generating station shall be compensated at the rate of the energy charge as determined under Section 62 of the Act or adopted under Section 63 of the Act, or at the rate of the compensation charge declared by the AS provider, as the case may be.
- 18.2 The generating stations whose tariff is determined under section 62 or adopted under section 63 of the Act, shall declare their energy charges upfront on monthly basis by 12th of every month through NOAR which shall be used for TRAS despatch under emergency conditions from the 16th of the current month to the 15th of the next month.
- 18.3 The TRAS Providers, other than those covered under section 62 and 63 of the Act, shall declare the compensation charges upfront on monthly basis by 12th of every month for 16th of current month to 15th of next month.
- 18.3.1 Gas- based generating stations shall declare their energy charge or compensation charge, as the case may be, on weekly basis through NOAR
- 18.3.2 For generating stations based on wind, solar, or hybrid of wind and solar, compensation charges shall be considered as zero.
- 18.3.3 In case of non-declaration of the compensation charges/energy charges, the last available compensation / energy charges would be considered for TRAS-emergency despatch.
- 18.3.4 In case declared compensation charge is not available, compensation charge for settlement of such generating station shall be as specified by CERC
- 18.4 All regional entity generating stations shall provide their declared capability, normative on-bar capacity, ramp-up & ramp-down rates through WBES in line with the actual operational state of the generating station. These parameters shall be used by Nodal Agency for computing available margins for dispatch of TRAS-Up and TRAS-Down under shortfall and emergency conditions.
- 18.5 TRAS-Up and TRAS-Down under emergency conditions shall be dispatched after the reserves procured from Day-ahead AS market & Real Time AS market and available from generating stations under TRAS-Shortfall are exhausted. Nodal agency shall dispatch TRAS-Emergency from regional entity generating stations first, following merit order of energy charge/compensation charge subject to technical constraints (like minimum turndown level, ramp rate etc.) of such generating stations and grid security/network constraints.
- 18.6 Nodal Agency may also direct generating stations which are not regional entities to provide TRAS under emergency conditions through concerned SLDC. The

concerned SLDC shall ensure that energy charge/compensation charge for such generating stations is available.

18.7 Section 62 and Section 63 generating stations, who are despatched under TRAS-Up under emergency conditions, shall be paid at the rate of their energy charges for the quantum of TRAS-Up despatched.

Other generating stations, **including all generating stations based on solar, wind or hybrid of solar & wind**, who are despatched under TRAS-Up under emergency conditions, shall be paid at the rate of their compensation charges for the quantum of TRAS-Up despatched.

18.8 Section 62 and Section 63 generating stations, who are despatched under TRAS-Down under emergency conditions, shall pay back at the rate of their energy charges for the quantum of TRAS-Up despatched.

Other generating stations, **including all generating stations based on solar, wind or hybrid of solar & wind**, who are despatched under TRAS-Down under emergency conditions, shall pay back at the rate of their compensation charges for the quantum of TRAS-Down despatched.

18.9 **Generating stations based on wind, solar, or hybrid of wind and solar, who are despatched under TRAS-Up or TRAS-Down under emergency conditions, may be eligible for payment of incentive, in case such incentive and its rates are specified by CERC for the quantum of TRAS-Up and TRAS-Down despatched**

19.0 Energy Accounting of TRAS

19.1 The respective RPCs shall prepare weekly TRAS accounts (Format TRAS-II and Format TRAS-III) based on the TRAS despatched quantum, prices and schedules provided to them by the Nodal Agency/RLDCs.

19.2 For the intra-state generators, the settlement of payments towards TRAS-Up/TRAS-Down along with the applicable commitment charges would be done by the Nodal Agency/RLDCs through the respective Regional Deviation and Ancillary Service Pool Account.

19.3 Deviation of AS Provider in every 15 minutes time block shall be calculated as under and settled as per the DSM Regulations:

MWh Deviation for AS Provider = (Actual MWh of AS Provider) – (Scheduled MWh of AS Provider including TRAS MWh despatched) – (SRAS MWh of AS Provider despatched)

19.4 Any shortage or excess delivery of electricity from the total schedule, including TRAS despatch quantum of the grid connected entity will be settled by them under Deviation Settlement mechanism as per the procedure laid down by the CERC at inter-state level or any other settlement system as prescribed by concerned SERC at intra-state level.

19.5 In case of TRAS-Up,

19.5.1 The concerned RPC, based on the details provided by concerned RLDC, shall compute and furnish the following details along with the DSM Account under separate account head of TRAS-Up.

19.5.1.1 Total Energy cleared in TRAS-Up (DAM/RTM) of each TRAS-Provider.

19.5.1.2 Total Energy scheduled under TRAS-Up (DAM/RTM) of each TRAS-Provider.

19.5.1.3 Total charges payable as per MCP-AS-Up, as discovered in the TRAS-Up (DAM/RTM) as per their energy schedule under TRAS-Up (DAM/RTM).

19.5.1.4 Total commitment charges to TRAS-Up provider at the rate of ten percent of the MCP -Energy-Up-AS-DAM or the MCP-Energy--Up-AS-RTM, subject to the ceiling of 20 paise/kWh for the quantum of TRAS-Up cleared in the Day Ahead Market or the Real Time Market as the case may be, but not instructed to be despatched by the Nodal Agency.

19.6 In case of TRAS-Down, the concerned RPC, using the detail provided by concerned RLDC, of the TRAS-Down Providers shall prepare TRAS-Down statement as per the rate of AS-Down bid by TRAS-Down provider in the Day Ahead AS Market or the Real Time AS Market, as the case may be, for the capacity instructed to be despatched by the Nodal Agency.

19.7 In case of despatch of TRAS under shortfall or Emergency Conditions, Nodal Agency shall furnish despatched schedule of selected TRAS Providers on weekly basis to respective RPCs through concerned RLDCs.

19.8 No separate bills shall be raised for this purpose.

19.9 Any post facto revision of energy charge or compensation charge, as the case may be, shall not be permitted.

19.10 Any energy despatched under TRAS-Up or TRAS-Down shall not be included in the calculation of Capacity Utilization Factor (CUF) / Plant Load Factor (PLF) of the generating station.

20.0 Settlement of TRAS

20.1 The payment to the TRAS Provider(s) shall be from the surplus available in Deviation and Ancillary Service Pool Account of the concerned Region where the TRAS Provider(s) is located

20.2 The payments related to TRAS shall be settled as per clause 9 "Accounting and Settlement under SCUC" of Detailed Procedure for Security Constrained Unit Commitment (SCUC), Unit Shut Down (USD) and Security Constrained Economic Despatch (SCED) at Regional Level and its subsequent amendments

20.3 Compensation due to Part Load Operation or any other charges not specified in the CERC (Ancillary Services) Regulations, 2022, shall not be payable to the TRAS providers for providing TRAS.

20.4 The quantum of schedule under TRAS Up and TRAS Down shall not be considered for the purposes of incentive calculation for the TRAS Provider by the concerned RPC.

20.5 In case of shortfall in payment to SRAS/TRAS providers due to net shortfall after considering the surplus available in all "Regional Deviation and Ancillary Service Pool Account" then TRAS providers and SRAS provider shall be settled proportionately for that particular week.

21.0 Data and Voice Communication

21.1 Data and voice communication facilities, including interfacing with NOAR/WBES of concerned RLDCs shall be ensured by the regional entity TRAS Providers to facilitate information exchange and real time monitoring.

21.2 Data and voice communication facilities, including interfacing with NOAR/energy scheduling software of concerned SLDCs shall be ensured by the intra-state TRAS Providers to facilitate information exchange and real time monitoring.

21.3 Nodal Agency, RLDCs and SLDCs shall provide information related to cleared quantum and dispatch of Ancillary Services on their respective websites.

22.0 Failure to deliver TRAS

22.1 The delivery by TRAS providers against the TRAS- Up and TRAS-Down dispatch instructions shall be monitored using the telemetered injection/drawal.

22.2 Sustained failure to deliver TRAS as per dispatch instructions, shall make the TRAS provider liable for disqualification from participation in TRAS for a week by the Nodal Agency.

22.3 Such sustained failure to deliver TRAS shall also be brought to the notice of the Central Commission.

23.0 Indemnification

23.1 All the TRAS providers shall keep each of the SLDCs/ RLDCs /Nodal agency indemnified at all times and shall undertake to indemnify, defend and save the SLDCs/RLDCs /Nodal Agency harmless from any and all damages, losses, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the transactions.

24.0 Issuance of Circulars by Nodal Agency

24.1 In order to address day to day operational aspects regarding TRAS, Nodal Agency may issue circulars from time to time.

25.0 Revision of the procedures

25.1 The procedure may be reviewed and modified / amended as and when need arises after stakeholder consultations under intimation to Central Commission.

Format TRAS – I: Technical and Commercial Parameters of TRAS Providers (to be provided in NOAR Interface)

Hydro Generator Details for Participation in Tertiary Reserve Ancillary Service Provider (TRAS)		
From: (Name of TRAS Provider Generating Station) / (Name of Owner Organization)		
To: Nodal Agency (NLDC)		
Validity of the Information From: xx/mm/yyyy To: xx/mm/yyyy		
Date: dd/mm/yyyy		
(Name of Hydro Electric Plant, Installed Capacity and Owner Organization)		
S.No	Title/Parameters	Values/Data/ Information
1	Number of Generating Units (e.g. 1 x 100 MW + 2 x 250 MW)	
2	Auxiliary consumption (%)	
3	Type of Plant (RoR, Pondage or Reservoir)	
4	Installed Capacity of Unit (MW) - P	
5	Start time for each unit (Standstill to Synchronization of unit to grid) (in minutes)	
6	Which value (Cumecs/MW) is used for declaring MWh capability?	
7	Minimum load at which unit can stably run after synchronization - Unitwise (P1) (in MW)	
8	Forbidden zones or high cavitation zones - Unitwise (From MW to MW) - P2 to P3	
9	Maximum loading possible on unit (continuous) (P4)	
10	Unit-wise Cumecs/MW for P, P1,P2,P3 and P4 generation level as well as cumecs from standstill to synchronization.	
11	Maximum possible Ex-bus injection (MW) (including overload if any)	
12	Fixed Cost (paise / kWh upto one decimal place)	
13	Variable Cost (paise / kWh upto one decimal place)	
14	Ramp-Up Rate (MW/Min) for each unit	
15	Ramp-Down Rate (MW/Min) for each unit	
16	Requirement of Tandem Operation of the Plant (If Yes, with which plant and details and its Ratio)	
17	Present Governor Droop Setting (Unit-wise)	

18	Considering all the constraints, how much further droop setting can be improved and range thereof	
19	Blackstart Facility availability (Yes/No)	
20	Any Other Information including the constraints (Time-specific, Location-Specific, Event Specific, Unit-Specific, etc.)	
Thermal (Coal/Lignite/Gas) Generator Details for Participation in Tertiary Reserve Ancillary Service Provider (TRAS)		
From: (Name of TRAS Provider Generating Station) / (Name of Owner Organization)		
To: Nodal Agency (NLDC)		
Validity of the Information From: xx/mm/yyyy To: xx/mm/yyyy		
Date: dd/mm/yyyy		
S.No	Title/Parameters	Values/Data
.		
1	Number of Generating Units (e.g. 1 x 210 MW + 2 x 500 MW)	
2	Total Installed Capacity (MW)	
3	Auxiliary consumption (%)	
4	Maximum possible Ex-bus injection (MW) (including overload if any)	
5	Technical Minimum (MW)	
6	Type of Fuel	
7	Region	
8	Bid area	
9	Fixed Cost (paise / kWh upto one decimal place)	
10	Variable Cost (paise / kWh upto one decimal place)	
11	Ramp-Up Rate (MW/Min) for each unit	
12	Ramp-Down Rate (MW/Min) for each unit	
13	Start-up Time from Cold Start (in Min) & Warm Start of each unit	
14	Any other information	

Format TRAS-II: TRAS Settlement Account by RPC (Day Ahead and Real Time Market)

(To be issued by concerned RPC)

TRAS Account for Week:

Net Charges Payable/Receivable by the TRAS Provider(s) to/from the Regional Deviation and Ancillary Service Pool Account

S.No	TRAS Provider Name	TRAS-Up in Day Ahead AS Market				TRAS-Up Energy in Real Time AS Market				Total Charges/ compensation charge for TRAS Up (Rs) (I)=(C)+(D)+ (G)+(H)	TRAS-Down in Day Ahead AS Market		TRAS-Down in Real Time AS Market		Net Charges (Rs) (N)=(I)-(K)-(M) (+) Payable from Pool to TRAS Provider (-) Receivable by Pool from TRAS Provider
		TRAS-Up Cleared (MWh) (A)	TRAS-Up Energy Scheduled (MWh) (B)	TRAS-Up Energy Charges (Rs.) (C)	TRAS-Up Commitment Charges (Rs.) (D)	TRAS-Up Cleared (MWh) (E)	TRAS-Up Energy Scheduled (MWh) (F)	TRAS-Up Energy Charges (Rs) (G)	TRAS-Up Commitment Charges (Rs) (H)		TRAS-Down Energy Scheduled (MWh) (J)	TRAS-Down Charges to be paid back to Pool (Rs) (K)	TRAS-Down Energy Scheduled (MWh) (L)	TRAS-Down Charges to be paid back to Pool (Rs) (M)	
1															
2															
3															

(To be put up on the website of the respective RPC & transmitted to concerned RLDC electronically)

Format TRAS-III TRAS Settlement Account by RPC
(Shortfall/Emergency Condition)

(To be issued by concerned RPC)

TRAS Account for Week:

**Net Charges Payable/Receivable by the TRAS Provider(s) to/from the Regional
Deviation and Ancillary Service Pool Account in Shortfall/Emergency Condition**

S. No.	TRAS Provider Name	Energy scheduled under Shortfall/Emergency TRAS-Up (MWh) (A)	Total Charges/ Compensation Charges for Shortfall/Emergency TRAS-Up (Rs) (B)	Energy scheduled under Shortfall/Emergency TRAS-Down (MWh) (C)	Total Charges/ Compensation Charges for Shortfall/Emergency TRAS-Down to be paid back to Pool (Rs) (D)	Net Charges (Rs) (E)=(B)-(D) (+) Payable from Pool to TRAS Provider (-) Receivable by Pool from TRAS Provider
1						
2						
3						
.						
.						

*(To be put up on the website of the respective RPC& transmitted to concerned
RLDC electronically)*

Annexure – 1**Reserve Requirement Information Dissemination**

The range of reserve requirement for date..... is projected as follows:

TRAS Regulation Up: MW to MW

TRAS Regulation Down: MW to MW

- To be notified on day-ahead basis and would be updated as and when required.

Annexure – 2

Sample Bid Format and Illustrations

Block ID	NOAR ID	Time Stamp	Bids					
1	NORNA23518	10:45:00	0.0 @ 0	0.0 @ 1999	25.0 @ 2000	25.0 @ 10000		
1	SOSMI83515	10:44:00	0.0 @ 0	0.0 @ 3375	97.3 @ 3376	97.3 @ 20000		
1	NOSMI13512	10:43:00	0.0 @ 0	0.0 @ 3299	30.0 @ 3300	30.0 @ 3699	66.0 @ 3700	66.0 @ 10000
1	WORPA13509	10:43:00	0.0 @ 0	0.0 @ 2999	91.0 @ 3000	91.0 @ 10000		
1	EOSRF13505	10:45:00	0.0 @ 0	0.0 @ 8169	18.8 @ 8170	18.8 @ 20000		
1	EORSH13504	10:44:00	0.0 @ 0	0.0 @ 999	15.0 @ 1000	15.0 @ 20000		
1	EORIN13427	10:43:00	0.0 @ 0	0.0 @ 4999	93.0 @ 5000	93.0 @ 10000		
1	EORNI13470	10:43:00	0.0 @ 0	0.0 @ 4288	98.7 @ 4289	98.7 @ 20000		
1	NOSGR13485	10:45:00	0.0 @ 0	0.0 @ 999	5.4 @ 1000	5.4 @ 20000		
2	EORWU153441	10:44:00	0.0 @ 0	0.0 @ 49	2.5 @ 50	2.5 @ 499	2.5 @ 500	2.5 @ 20000
2	NORNA23518	10:43:00	0.0 @ 0	0.0 @ 999	24.4 @ 1000	24.4 @ 20000		
3	SOSMI83515	10:43:00	0.0 @ 0	0.0 @ 500	6.5 @ 501	6.5 @ 10000		

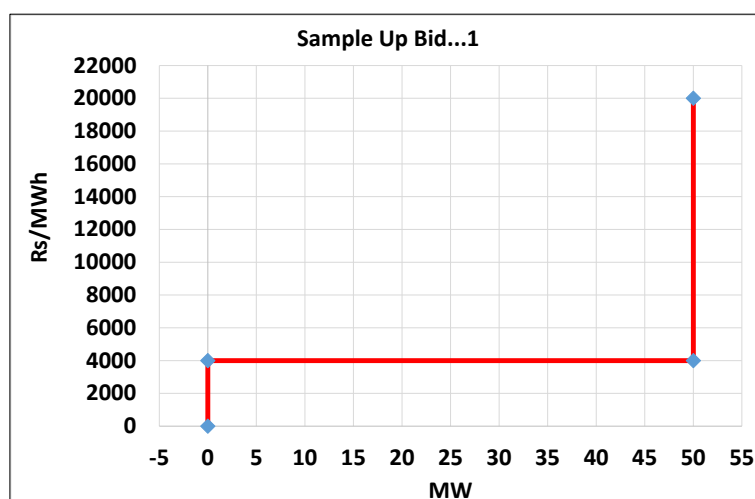
Q @ P → Quantity in MW @ Price in ₹/MWh

- Quantum at the ₹ 0/MWh price tick, at the capped price tick (₹ 10/MWh or ₹20/MWh, as the case may be), and any other price ticks may be provided, for enabling correct interpretation of the bids for market clearing by the Nodal Agency.

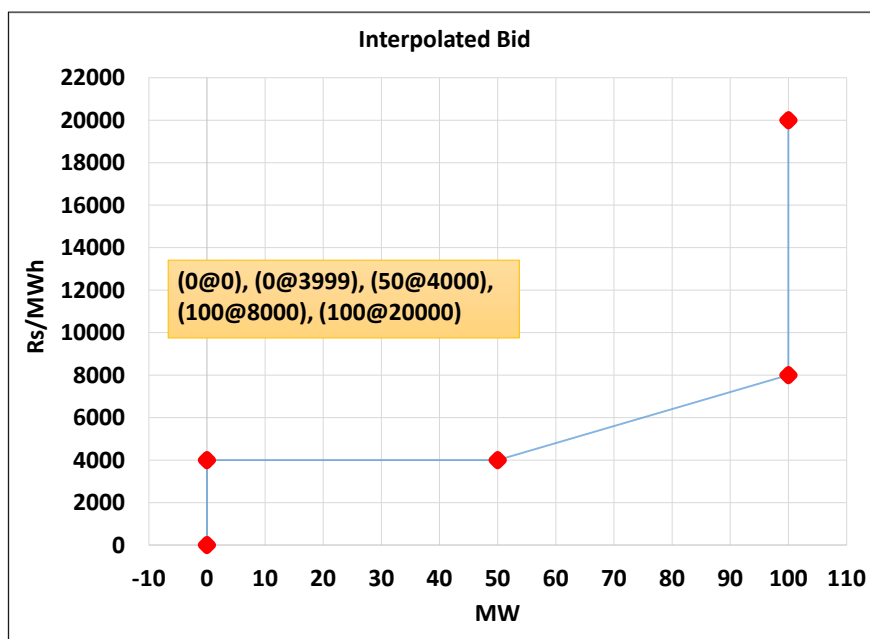
TRAS-Up

Sample Up Bid...1

Raw bids	0@0	0@3999	50@4000	50@20000
₹/MWh	0	3999	4000	20000
MW	0	0	50	50



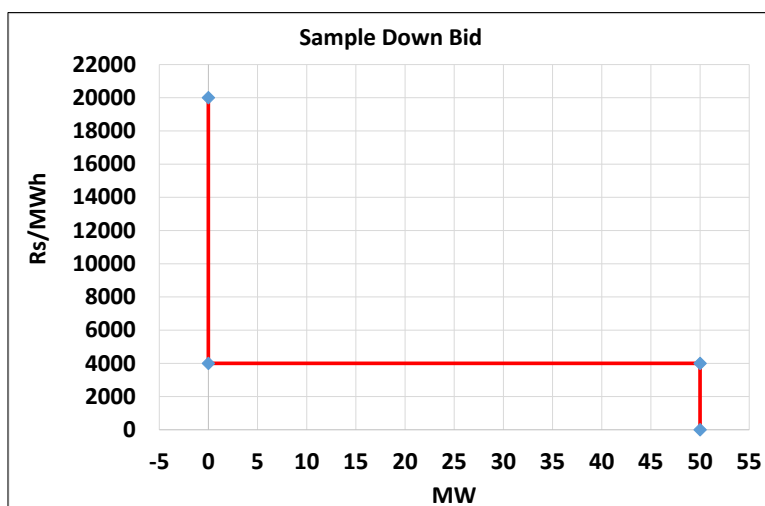
Sample Up Bid ...2



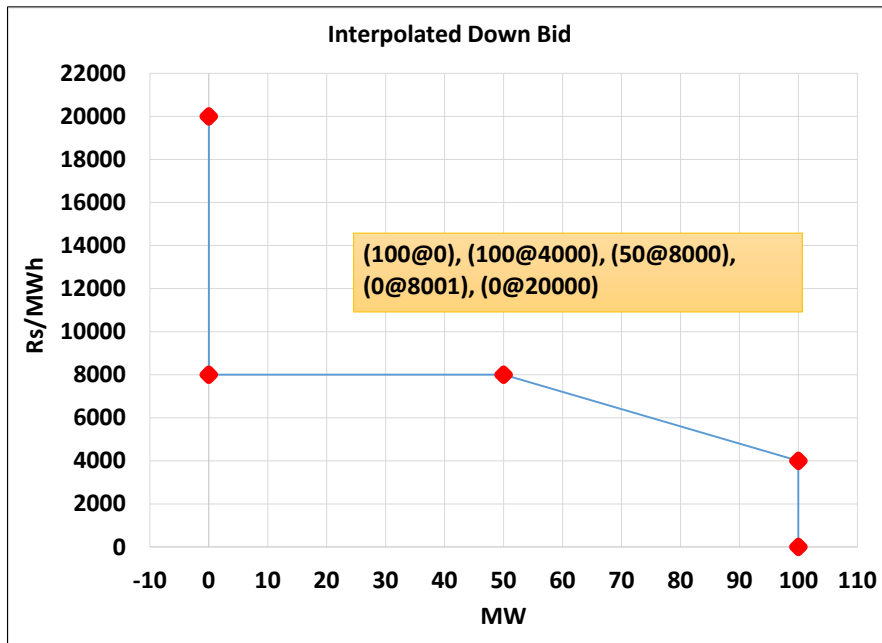
TRAS-Down

Sample Down Bids...1

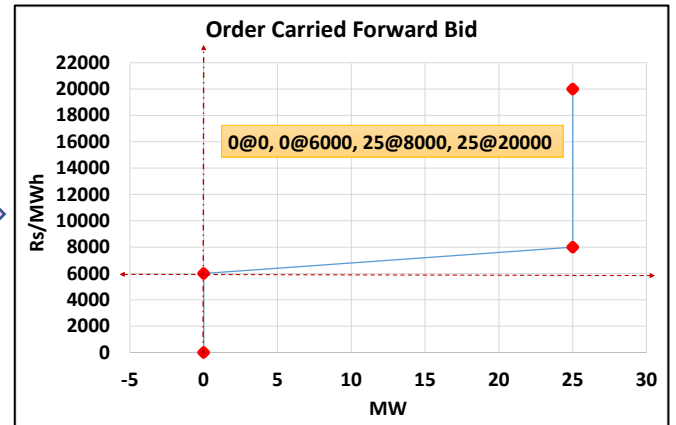
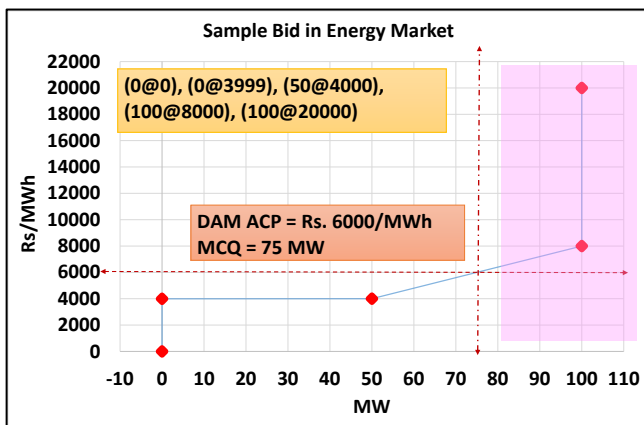
Raw bids	50@0	50@3999	0@4000	0@20000
Rs/MWh	0	3999	4000	20000
MW	50	50	0	0



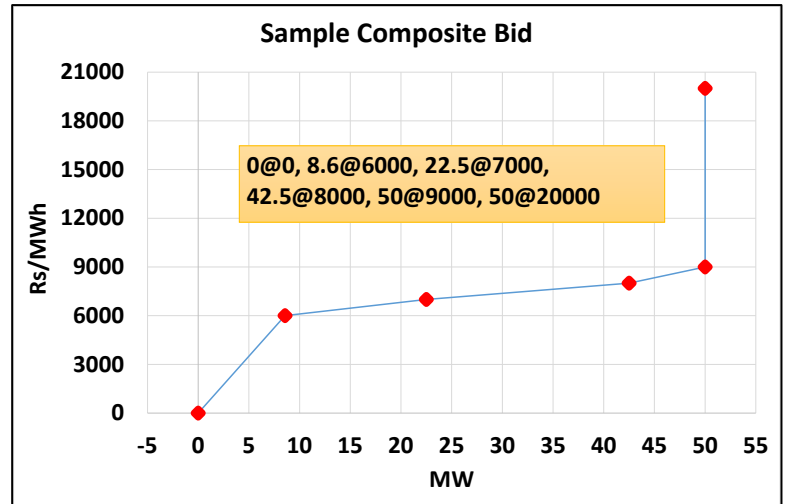
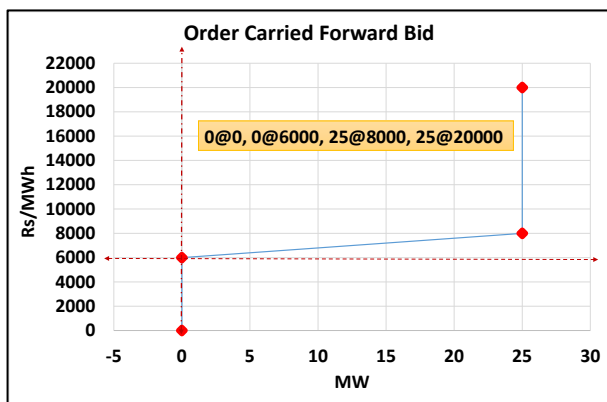
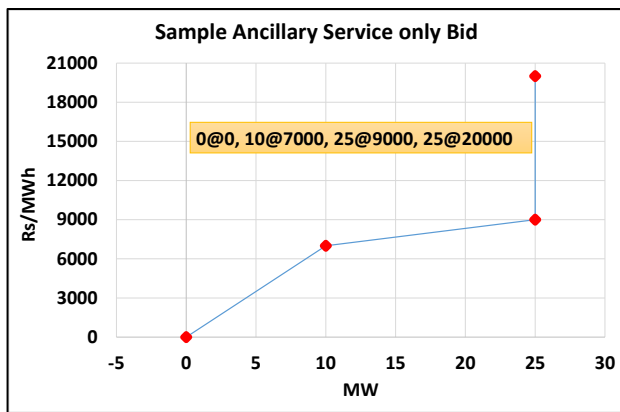
Sample Down Bid...2



Sample Illustration for forming Order Carried Forward Bid(s)



Sample illustration for Combined Bid(s)



Annexure – 3**High level algorithm for TRAS Bid Clearing****TRAS Up:**

- Objective Function:
 - o Minimize the energy charge of Up reserves
- Constraints
 - o Total Sum of Bids equals Punched Value
 - o Individual cleared quantum $\leq$ Individual Bid
- Solved through Linear Programming (LP)

TRAS Down:

- Objective Function:
 - o Optimize energy charge of down reserves
- Constraints
 - o Total Sum of Bids equals Punched Value
 - o Pay as bid: Allot only one price tick per bid
 - o Pay as bid: Allow partial clearing when needed
- Solved through Mixed Integer Linear Programming (MILP)

Market Clearing Price of Ancillary Services (MCP-AS)

Market Clearing Price (MCP) is the market clearing price discovered in either Day Ahead AS market or Real Time AS market considering the bids of both HP-TRAS Providers and other TRAS Providers for TRAS-Up.

If $MCP \leq ₹ 10/kWh$, then

- MCP applicable for HP-TRAS providers = MCP discovered
- MCP applicable for other TRAS providers = MCP discovered

If $MCP > ₹ 10/kWh$, then

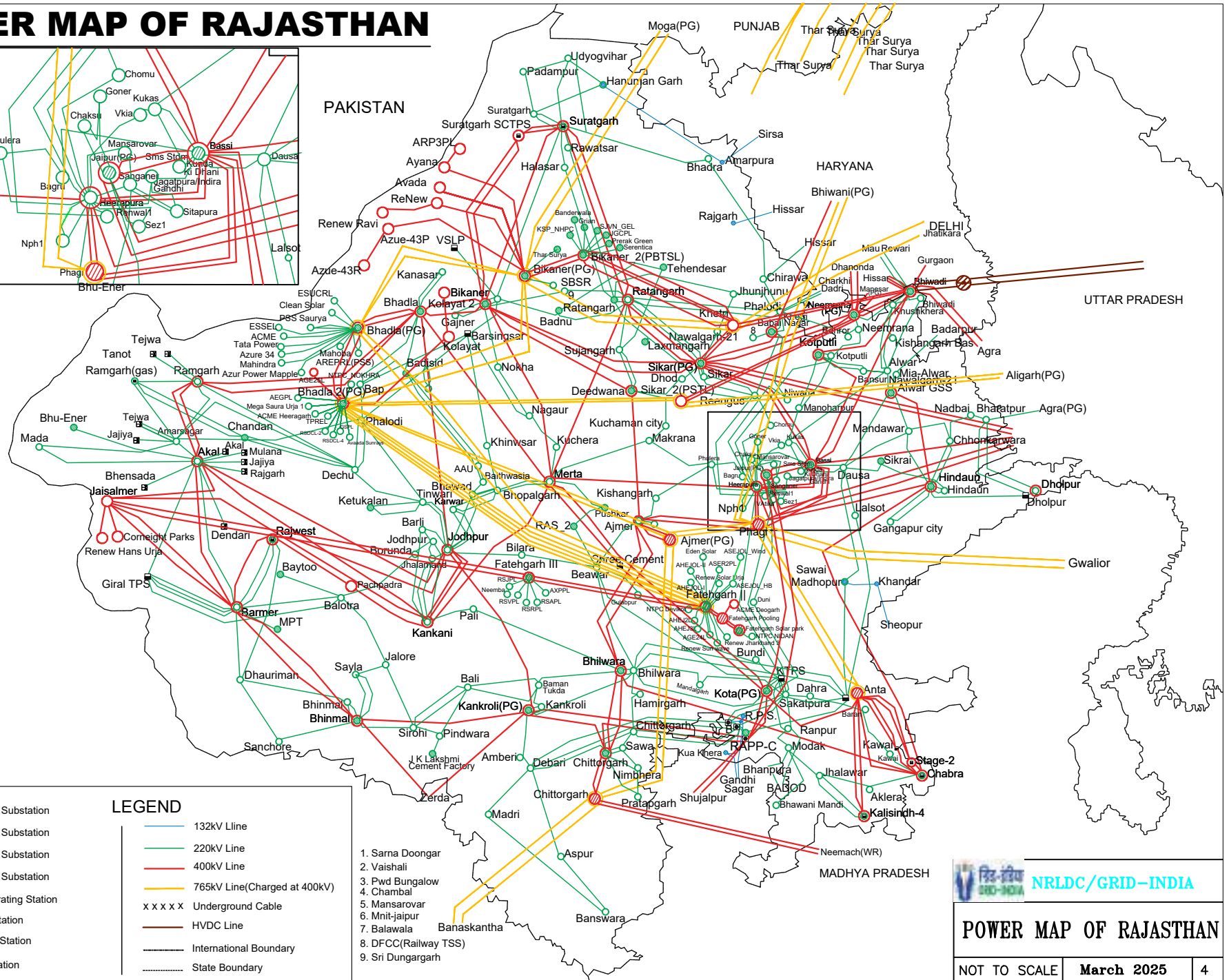
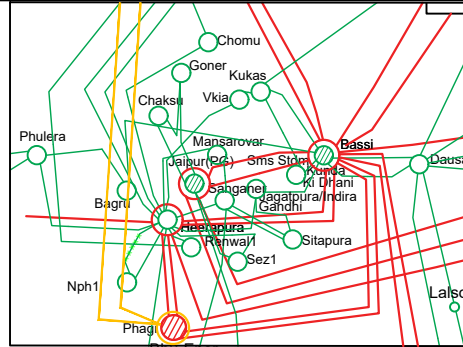
- MCP applicable for HP-TRAS providers = MCP discovered
- MCP applicable for other TRAS providers = ₹ 10/kWh

Study assumptions:

Rajasthan Load	17 GW
Rajasthan RE (Solar + Wind)	6 GW
Rajasthan Total Generation	12.5 GW
ISGS RE	18.35 GW
400kV Bikaner – Sikar ckt 1	OPEN

Line Name	Power Flow (MW) before charging of proposed 400kV Bikaner(PG)-Bikaner (RS) D/C line (Basecase)	Power Flow (MW) after charging of proposed 400kV Bikaner(PG)-Bikaner (RS) D/C line (Case-1)	Change in Power flow (MW)	% Sensitivity w.r.t line loading of each ckt of 400kV Bikaner(PG)-Bikaner (RS) line	Power Flow (MW) after closing of 400kV Bikaner(RS)-Sikar Ckt-2 on Case-1
400kV Bikaner(PG)-Bikaner (RS) Ckt-1	0	700	700	100	845
400kV Bikaner(PG)-Bikaner (RS) Ckt-2	0	700	700	100	845
765kV Fatehgarh-II(PG)-Bhadla-II (PG) Ckt-1	1261	1274	13	2	1268
765kV Fatehgarh-II(PG)-Bhadla-II (PG) Ckt-2	1261	1274	13	2	1268
765kV Fatehgarh-II(PG)-Bhadla-II (PG) Ckt-3	1163	1175	12	2	1170
765kV Fatehgarh-II(PG)-Bhadla-II (PG) Ckt-4	1163	1175	12	2	1170
765kV Fatehgarh-II(PG)-Bhadla (PG) Ckt-1	604	629	25	4	641
765kV Fatehgarh-II(PG)-Bhadla (PG) Ckt-2	604	629	25	4	641
765kV Bhadla-II(PG)-Ajmer (PG) Ckt-1	1928	1872	-56	-8	1851
765kV Bhadla-II(PG)-Ajmer (PG) Ckt-2	1928	1872	-56	-8	1851
765kV Bhadla-II (PG)-Sikar-II (PG) Ckt-1	1634	1613	-21	-3	1588
765kV Bhadla-II (PG)-Sikar-II (PG) Ckt-2	1634	1613	-21	-3	1588
765kV Bhadla-II(PG)-Bikaner(PG) Ckt-1	584	761	177	25	779
765kV Bhadla-II(PG)-Bikaner(PG) Ckt-2	584	761	177	25	779
765kV Bhadla(PG)-Bikaner(PG) Ckt-1	1415	1617	202	29	1619
765kV Bhadla(PG)-Bikaner(PG) Ckt-2	1415	1617	202	29	1619
765kV Bikaner(PG)-Moga (PG) Ckt-1	1549	1485	-64	-9	1462
765kV Bikaner(PG)-Moga (PG) Ckt-2	1549	1485	-64	-9	1462
765kV Bikaner(PG)-Khetri (PKTL) Ckt-1	1820	1714	-106	-15	1663
765kV Bikaner(PG)-Khetri (PKTL) Ckt-2	1820	1714	-106	-15	1663
400kV Bhadla (RS)-Bikaner (RS) Ckt-1	780	525	-255	-36	562
400kV Bhadla (RS)-Bikaner (RS) Ckt-2	780	525	-255	-36	562
400kV Bikaner (RS)-Deedwana Ckt-1	595	765	170	24	725
400kV Bikaner(RS)-Sikar Ckt-1	514	741	227	32	647
400kV Bikaner(RS)-Sikar Ckt-2	0	0	0		647

POWER MAP OF RAJASTHAN





ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)



[formerly Power System Operation Corporation Limited (POSOCO)]
राष्ट्रीय भार प्रेषण केन्द्र / **National Load Despatch Centre**

कार्यालय : बी-9, प्रथम एवं द्वितीय तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016
Office : 1st and 2nd Floor, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi -110016
CIN : U40105DL2009GOI188682, Website : www.grid-india.in, E-mail : gridindiacc@grid-india.in, Tel.: 011- 42785855

Ref: NLDC/SO/RE/Jan25/246

दिनांक : 25th January 2025

सेवा मे,

All the Stakeholders

विषय : Quantum of secondary and tertiary reserves requirement for F.Y. 2025-26

संदर्भ : 1. Central Electricity Regulatory Commission (Ancillary Services) Regulations, 2022
2. Detailed Procedure for Assessment of Secondary and Tertiary Reserve Capacity at Regional Level, as approved by CERC vide letter no. No. L-1/265/2022/CERC dated 28th September, 2023

महोदय,

As per CERC (Ancillary Services) Regulation, 2022 and "Detailed Procedure for Assessment of Quantum of Secondary & Tertiary Reserve Capacity, along with Information Exchange and Timelines", NLDC is mandated to assess the quantum of secondary and tertiary reserves on year-ahead basis, to be maintained at the inter-state and intra-state levels. Accordingly, quantum of secondary and tertiary up and down reserves to be maintained at ISGS and intra-state levels has been estimated as per Format-RAS4.

The estimation has been carried out based on the Area Control Error (ACE) of the state control areas. The aggregate state ACE values have been scaled down to the regional ACE to account for diversity. The estimated quantum of secondary and tertiary reserve is tabulated below.

Type of Reserve	All India Up Reserve Requirement (MW)	All India Down Reserve Requirement (MW)
Secondary Reserve	11630	12926
Tertiary Reserve	17310	18606
Total	28940	31532

Without scaling, all India secondary reserve requirement would have been 13071 MW for Up reserve and 16718 MW for Down reserve. Similarly, the tertiary reserve requirement would have been 18751 MW for Up reserve and 22398 MW for Down reserve.

Reference contingency applicable for FY 2025-26 has already been published and the same is available at: https://posoco.in/en/download/reference-contingency_fy-2025-26/?wpdmdl=60578. The declared values for reference contingency are 7000 MW for solar hours and 4500 MW for non-solar hours.

सधन्यवाद,

भवदीय
एस. उषा
कार्यपालक निदेशक
(राभाप्रेके)

संलग्न:

1. Reserve requirement for financial year 2025-26 (Format – RAS4)
2. Summary of reserve requirement as in Format-RAS4.

प्रतिलिपि :

- (1) Member (GO&D), CEA
- (2) Member (P), CEA
- (3) Member (PS), CEA
- (4) JS (OM), MoP
- (5) Secretary, CERC
- (6) Member Secretary NPC/NRPC/WRPC/SRPC/ERPC/NERPC
- (7) ED NRLDC/WRLDC/SRLDC/ERLDC/NERLDC, Grid-India
- (8) Director (MO) / Director (SO) / CMD, Grid-India

Format RAS4



Requirement of Up Reserve Quantum for Secondary Reserve Auxiliary Service (SRAS) and Tertiary Reserve Auxiliary Service (TRAS) for the Year 2025-26											
State/ Union Territory (UT)	Actual UP Reserve (Positive ACE MW)	Actual UP Reserve (Positive ACE MW)	Max. Demand net MW	Interpolated time of the day of maximum demand (hr)	Load from SRAS (MW)	State Reserve Maximum Demand (MW)	State Reserve Maximum Demand (MW)	State Reserve Maximum Demand (MW)	State Reserve Maximum Demand (MW)	State Reserve Maximum Demand (MW)	State Reserve Maximum Demand (MW)
UT of Chandigarh	83	83	45.0	8	45.0	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	41.7	41.7	88.42	11.58	7.48	0.13	0.07	0.07	0.07	0.07	0.07
Haryana	470	470	34714	8.029	32.029	0.22	0.18	0.18	0.18	0.18	0.18
Haryana Pradesh	217	217	1234	3.73	13.73	0.15	0.05	0.05	0.05	0.05	0.05
UT of Jammu and Kashmir and UT of Ladakh*	416	416	13.85	3.66	13.29	0.08	0.02	0.02	0.02	0.02	0.02
Punjab	65.7	65.7	20072	9.429	9.429	0.40	0.40	0.40	0.40	0.40	0.40
Rajasthan	862	862	18761	1.739	1.732	0.01	0.01	0.01	0.01	0.01	0.01
Uttar Pradesh	863	863	20710	14.887	14.887	0.47	0.53	0.53	0.53	0.53	0.53
Uttaranchal	250	250	7541	6.79	10.47	0.27	0.17	0.17	0.17	0.17	0.17
WB state sum	6120	3933									
Northern Region (NR)											
Chhattisgarh	246	234	6475	25.12	1954	0.28	0.61	0.61	0.61	0.61	0.61
UT of Jammu and Kashmir and Central and Major part	74	72	1510	8	1510	0.00	1.00	1.00	1.00	1.00	1.00
Goa	878	864	26153	17.800	8851	0.68	0.34	0.34	0.34	0.34	0.34
Gujarat	80	77	771	8	771	0.00	1.00	1.00	1.00	1.00	1.00
Kerala	714	688	18664	7.430	12536	0.10	0.03	0.03	0.03	0.03	0.03
Madhya Pradesh	286	767	29076	20.037	6961	0.67	0.33	0.33	0.33	0.33	0.33
Maharashtra	1073	1772									
WB State Sum	2772										
Western Region (WR)											
Andhra Pradesh	746	555	14712	7.267	6445	0.33	0.47	0.47	0.47	0.47	0.47
Assam	793	549	17470	8.136	1786	0.16	0.45	0.45	0.45	0.45	0.45
Bihar	347	258	2787	3.580	4217	0.17	0.18	0.18	0.18	0.18	0.18
Chhatisgarh	66	45	930	8	930	0.00	1.00	1.00	1.00	1.00	1.00
UT of Puducherry	1044	781	20010	8.254	12578	0.40	0.00	0.00	0.00	0.00	0.00
Tamil Nadu	496	408	14613	5.647	10576	0.33	0.06	0.06	0.06	0.06	0.06
Telangana	864.7	1750									
WB State Sum	2772										
Southern Region (SR)											
Andhra Pradesh	494	378	8645	4.98	7949	0.08	0.96	0.96	0.96	0.96	0.96
Chhattisgarh	390	360	3634	1.386	1733	1.47	0.47	0.47	0.47	0.47	0.47
Goa	274	257	2151	5.61	1788	0.24	0.16	0.16	0.16	0.16	0.16
Kerala	434	407	6604	7.223	3362	0.54	0.40	0.40	0.40	0.40	0.40
Madhya Pradesh	34	43	117	8	117	0.00	1.00	1.00	1.00	1.00	1.00
West Bengal	407	432	17845	8.837	6613	0.56	0.46	0.46	0.46	0.46	0.46
WB State Sum	1214	1750									
Eastern Region (ER)											
Assam	50	45	388	24	374	0.52	0.80	0.80	0.80	0.80	0.80
Chhattisgarh	374	121	2004	3.14	2519	0.17	0.86	0.86	0.86	0.86	0.86
Madhya Pradesh	86	27	360	0	360	0.00	1.00	1.00	1.00	1.00	1.00
Uttar Pradesh	98	66	178	7.70	338	0.71	0.20	0.20	0.20	0.20	0.20
Madhya Pradesh	40	35	302	54	304	0.91	0.87	0.87	0.87	0.87	0.87
Madhya Pradesh	21	35	174	38	158	0.29	0.91	0.91	0.91	0.91	0.91
Uttar Pradesh	81	45	174	113	341	0.30	0.70	0.70	0.70	0.70	0.70
WB State Sum	927	958									
WB State Sum	1340	1308									
Total Secondary Reserve Requirement in MW (1)											
Total Tertiary Reserve Requirement in MW (1+11)											

* UT of Jammu and Kashmir and UT of Ladakh have been considered as single entry with data availability at NLDC.

Signature

Format RAS4

Requirement of Down Reserve Quantities for Secondary Reserve Ancillary Service (SRAS) and Tertiary Reserve Ancillary Service (TRAS) for the Year 2023-24											
State/ Union Territory (UT)	Annual SR Provisional Positive ACS (MW)	Annual TR Provisional Positive ACS (MW)	Min. Demand (MW)	Interpolated Min. Demand (MW)	State Interpolated Reserve (MW)	State Interpolated Reserve (MW)	State Interpolated Reserve (MW)	State Interpolated Reserve (MW)	State Interpolated Reserve (MW)	State Interpolated Reserve (MW)	State Interpolated Reserve (MW)
UT of Chandigarh	72	40	452	0	452	0	452	0	452	0	452
Delhi	404	238	8441	1156	2402	0	2402	0	2402	0	2402
Haryana	862	499	16734	3089	5105	0	5105	0	5105	0	5105
Himachal Pradesh	327	179	3764	339	3715	0	3715	0	3715	0	3715
UT of Jammu and Kashmir and UT of Ladakh	373	385	1395	268	3129	0	3129	0	3129	0	3129
Punjab	922	487	10672	6428	8643	0	8643	0	8643	0	8643
Rajasthan	1162	637	10782	31709	3072	0	3072	0	3072	0	3072
Uttar Pradesh	1248	677	20070	14387	10183	0	10183	0	10183	0	10183
Uttarakhand	224	125	2561	479	1081	0	1081	0	1081	0	1081
West Bengal	5926	3104									
North Eastern Region (NER)	3294										
Chhattisgarh	428	437	8476	2623	1864	0	1864	0	1864	0	1864
UT of Dadra and Nagar Haveli and Diu	143	141	1510	0	1510	0	1510	0	1510	0	1510
Gujarat	1004	1008	26155	17266	8824	0	8824	0	8824	0	8824
Goa	113	338	173	0	173	0	173	0	173	0	173
Karnataka	828	749	10565	7420	11556	0	11556	0	11556	0	11556
Kerala	627	825	20678	20017	9061	0	9061	0	9061	0	9061
West Bengal	8419	6515									
North Eastern Region (NER)	3913										
Andhra Pradesh	704	726	13712	7267	8445	0	8445	0	8445	0	8445
Assam	649	806	17120	6421	7708	0	7708	0	7708	0	7708
Bihar	225	152	5797	1548	4217	0	4217	0	4217	0	4217
Chhatisgarh	79	75	518	0	518	0	518	0	518	0	518
UT of Puducherry	2646	1563	20020	8254	12739	0	12739	0	12739	0	12739
Tamil Nadu	617	786	15423	5047	10536	0	10536	0	10536	0	10536
Uttarakhand	6100	2068									
West Bengal	7049										
North Eastern Region (NER)	402										
Daman and Diu	266	223	3676	5384	1710	0	1710	0	1710	0	1710
Goa	145	787	1351	563	1788	0	1788	0	1788	0	1788
Haryana	422	354	9326	3723	3202	0	3202	0	3202	0	3202
Uttarakhand	41	34	117	0	117	0	117	0	117	0	117
West Bengal	454	474	12645	6823	3423	0	3423	0	3423	0	3423
North Eastern Region (NER)	2173										
North Eastern Region (NER)	3702										
Andhra Pradesh	28	55	168	24	178	0	178	0	178	0	178
Assam	284	321	3684	316	3670	0	3670	0	3670	0	3670
Bihar	55	35	250	0	250	0	250	0	250	0	250
Chhatisgarh	70	50	378	270	108	0	108	0	108	0	108
Goa	49	45	162	54	168	0	168	0	168	0	168
Haryana	31	25	114	16	130	0	130	0	130	0	130
Uttarakhand	75	53	314	123	281	0	281	0	281	0	281
West Bengal	443	457									
North Eastern Region (NER)	492										
Andhra Pradesh	12426	12426									
Total Secondary Reserve Requirement in MW (1+2+3+4+5+6+7+8+9+10+11+12)											
Total Tertiary Reserve Requirement in MW (1+13+14)											
Total Reserve Requirement in MW (1+13+14)											

Note: * UT of Jammu and Kashmir and UT of Ladakh have been considered on single entry below with data available at NDC.



Summary of Up Reserve Requirement as in Format RA54

State/Union Territory/UT	Year-Ahead Up Reserve Requirement (2025 - 2026)								
	Secondary Reserves			Tertiary Reserves			Total Reserves (Secondary + Tertiary)		
	Within 1000	Within state	Total	Within 1000	Within state	Total	Within 1000	Within state	Total
UT of Chandigarh	80	0	80	80	0	80	160	0	160
Delhi	288	41	307	166	149	415	552	190	722
Haryana	337	104	461	357	434	791	714	537	1251
Himachal Pradesh	178	82	250	178	82	260	357	133	470
UT of Jammu and Kashmir and UT of Ladakh*	373	32	405	373	327	480	746	138	884
Punjab	138	252	431	378	802	981	757	854	1611
Rajasthan	314	519	833	314	849	1163	627	1368	1996
Uttar Pradesh	437	888	1325	437	718	1155	873	1106	1979
Uttarakhand	178	84	242	178	102	280	356	166	522
Chhattisgarh	204	130	334	204	280	384	407	510	917
UT Daman and Diu & UT Odisha and Nagar Haveli	72	0	72	72	0	72	148	0	148
Gujarat	186	338	544	288	958	1244	571	1516	2087
Goa	77	0	77	77	0	77	154	0	154
Madhya Pradesh	419	270	689	419	600	1019	888	870	1708
Maharashtra	252	506	757	252	816	1067	508	1341	1849
Andhra Pradesh	261	294	555	281	694	999	523	889	1510
Karnataka	206	123	328	286	723	989	533	1045	1578
Kerala	188	70	258	188	135	323	378	306	682
UT of Puducherry	45	0	45	45	0	45	89	0	89
Tamil Nadu	472	310	781	472	610	1081	543	919	1882
Telangana	331	158	488	331	558	888	661	705	1377
Bihar	857	23	379	357	147	504	715	168	881
Damodar Valley Corporation	0	180	380	0	280	580	0	861	861
Jharkhand	125	82	257	195	167	362	301	228	619
Odisha	188	219	407	188	549	737	277	768	1144
Sikkim	41	0	41	41	8	41	82	0	82
West Bengal	189	133	433	199	483	682	398	716	1113
Arunachal Pradesh	31	4	39	31	8	38	61	12	76
Assam	187	14	121	107	39	146	214	55	259
Manipur	27	0	27	27	8	37	54	0	54
Meghalaya	17	43	80	17	88	86	34	111	146
Mizoram	20	10	30	20	25	45	40	35	75
Nagaland	14	1	15	14	5	19	27	7	34
Tripura	45	20	65	45	30	75	80	30	140
Region-wise and All-India									
Northern Region	2561	1432	1993	2561	3043	5604	5123	4478	9597
Western Region	1398	1464	2772	1306	2774	4081	2817	4237	6254
Southern Region	1582	1154	2736	1942	2718	4281	3123	3874	6997
Eastern Region	381	815	1788	581	1625	2990	1961	2741	4702
North-Eastern Region	261	92	363	281	176	437	523	288	790
All India	6672.44	4897.36	11570	6672.44	10637.56	17310	10544.99	11695.11	22240

Note: * UT of Jammu and Kashmir and UT of Ladakh have been considered as single entity inline with data availability at NDC.



Summary of Down Reserve Requirement as in Format RAS4

State/ Union Territory UT	Year-Ahead Down Reserve Requirement (2025 - 2026)								
	Secondary Reserves			Tertiary Reserves			Total Reserves (Secondary + Tertiary)		
	Within 1000	Within state	Total	Within 1000	Within state	Total	Within 1000	Within state	Total
UT of Chandigarh	39	0	39	39	0	39	77	0	77
Delhi	189	29	218	189	137	326	377	166	544
Haryana	356	103	459	356	433	789	711	539	1248
Himachal Pradesh	92	16	109	92	66	159	185	81	266
UT of Jammu and Kashmir and UT of Ladakh*	364	31	395	364	106	470	728	137	865
Punjab	238	109	347	238	549	787	596	747	1344
Rajasthan	240	297	537	240	727	967	480	1124	1604
Uttar Pradesh	353	312	677	353	648	1007	716	967	1683
Uttarakhand	128	46	175	128	84	213	257	131	387
Chhattisgarh	267	170	437	267	420	687	533	590	1124
UT Daman and Diu & UT Dadra and Nagar Haveli	181	0	181	181	0	181	262	0	262
Gujarat	436	852	1289	436	1253	1689	873	2106	2979
Goa	104	0	104	104	0	104	207	0	207
Madhya Pradesh	456	293	749	456	623	1079	911	917	1828
Maharashtra	268	538	805	268	868	1135	535	1405	1940
Andhra Pradesh	341	385	726	341	766	1126	683	1169	1851
Karnataka	364	441	806	364	841	1206	728	1383	2111
Kerala	155	58	213	155	123	278	310	181	491
UT of Puducherry	75	0	75	75	0	75	150	0	150
Tamil Nadu	343	613	1503	343	919	1863	1887	1538	3425
Telangana	337	189	526	337	589	926	794	779	1572
Bihar	477	29	505	477	154	630	959	189	1148
Demander Valley Corporation	0	223	223	0	523	523	0	747	747
Jharkhand	221	70	290	221	175	395	441	244	685
Odisha	159	156	315	159	520	679	328	711	1039
Sikkim	34	0	34	34	0	34	68	0	69
West Bengal	172	300	472	172	463	634	346	654	999
Arunachal Pradesh	49	7	56	49	11	59	97	17	115
Assam	180	24	203	180	43	223	359	73	432
Manipur	38	0	38	38	0	38	76	0	76
Meghalaya	14	36	50	14	61	75	29	97	126
Mizoram	23	12	35	23	27	50	47	88	135
Nagaland	20	3	23	20	6	26	40	9	49
Tripura	37	19	55	37	27	64	74	43	117
Region-wise and All-India									
Northern Region	2064	1140	3204	2064	2731	4811	4128	3891	8019
Western Region	1661	1854	3515	1661	3084	4745	3322	5018	8340
Southern Region	2276	1882	4158	2276	3257	5533	4551	4950	9501
Eastern Region	1068	714	1782	1068	1824	2892	2136	2538	4674
North-Eastern Region	361	96	457	361	180	541	722	276	998
All India	7429.23	5486.77	12915	7429.23	11176.77	18605	14858.43	16673.55	31532

Note: * UT of Jammu and Kashmir and UT of Ladakh have been considered as single entity in line with data availability at NDC.



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
तापीय परियोजना नवीनीकरण एवं आधुनिकीकरण प्रभाग
Thermal Project Renovation & Modernization Division

No.2/4/Flexible/TPRM/CEA/2022/

Dated: 01.05.2023

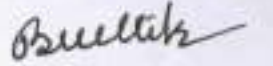
Sub: Phasing plan for implementation of 40% technical minimum load -reg.

As per the CEA (Flexible operation of Coal based thermal power generating units) Regulation 2022 notified on 25.01.2023 the coal fired generating units shall achieve minimum power level of 40% according to the phasing plan specified by the Authority from time to time.

Subsequently a draft phasing plan has been prepared for achieving 40% technical minimum load at coal based generating units. Different factors such as pit-head/ non-pithead, RE concentration, units having latest control system, CFBC technology, ball & tube mill, vintage units, cost etc. have been taken into account during preparation of phasing plan.

It is, therefore, requested to examine the enclosed phasing plan and furnish comments. If no comment received by 16.05.2023, the draft phasing plan will be considered as final.

Encl: As above.


(B.C. Mallick)
Chief Engineer

To:

All concerned

Draft Phasing Plan for achieving 40% Technical Minimum Load (TML)

The inconsistency and intermittency of solar & wind power has to be managed by flexible power from other sources in order to ensure security, reliability and stability of electricity grids. Coal-fired power plants are capable to provide comparatively cheaper flexible power in the grid. Thus, flexible operation of coal fired unit is essential for handling the instability of renewable generation by tuning of control system or few retrofitting.

The flexibilisation of coal fired units shall have to be done in phased manner looking at 597 units of 213.55 GW capacity to be refurbished. The preliminary phasing has been worked out in the **CEA report “Flexibilisation of coal fired power plant - A road map for achieving 40% technical minimum load” published in Feb 2023**. Wherein, it was proposed to be accomplished in four phases based on the date of commissioning of the units. Before first phase there is a *pilot phase* which shall be an experience gaining phase, in which few thermal units from central/state/pvt utilities shall be considered for refurbishment. The subsequent phases shall have to be fine-tuned considering the above mentioned aspects. The comprehensive phasing plan has been prepared considering various factors as mentioned below:

a) Units design criteria:

The design of the coal fired units plays an important role in facilitating faster implementation of flexibilisation. The units having coordinated controllers can be advantageous to operate in flexible mode. **As per the CEA report “Flexibilisation of coal fired power plant - A road map for achieving 40% technical minimum load” latest commissioned units has been considered in 1st phase.** It has been assumed that these units would be constructed as per the Regulation 8 (11) of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) notified on 20.08.2010 that pulverised fuel combustion-based steam generator shall not require oil support above 40% unit load. Therefore, measures/ retrofits may not require in these units for operation up to 40% load. Hence it would be easier and faster to adopt them for the flexibilisation by tuning of control system.

b) RE intensive state:

Presently the RE intensive states are Rajasthan, Gujarat, Tamil Nadu, Karnataka, Maharashtra, Andhra Pradesh etc. Hence it is essential to accommodate more thermal units of these states in 1st phase.

c) Pithead units:

The flexibilisation of pit head power plants shall have to be avoided as long as possible as ECR of these units is low compared to units operating at load centre. These units shall be considered in last (4th) phase. However, supercritical units commissioned in 2016 onwards may be taken in 1st phase/2nd phase as capital cost for retrofit will be negligible. It is expected that non-pithead thermal power plants shall be given minimum technical generation schedule in first instance and thereafter pit head plants if required.

d) Ball tube mill:

Total 30 units of 8673 MW capacity running with ball and tube mill in the grid have difficulty in operation at less than 55% loads. Thus, subcritical units having ball and tube mill may be considered in 3rd phase seeing the result of pilot test if found suitable for 40% MTL.

e) CFBC Boiler:

Lignite (comparatively low heat content coal) based generating unit having CFBC boiler may be exempted from 40% load operation as they have inherent problem in operation below 55% load. Total 54 units of 5438 MW are operating with CFBC boiler in the country.

f) Two-shift operation:

Old units of more than 35 years age may be allowed for 2-shift operation. An operation that requires a generating unit to run and supply power only during 2-shifts (8 hours < Operation < 16 hours) and required to be shut down for the next shift (around 8 hours) is termed as “2-shift operation”. The startup and shut down on the same day, can be even twice daily (e.g., run from 6:00 a.m. to 12:00 p.m. and again from 6:00 p.m. to 11:00 p.m.). Alternatively in some cases plants may be required to run in single shift (Operation < 8 hours) only for peaking power requirements.

Pilot Phase (May, 2023 - Dec, 2023):

11 units of central/state/pvt sector have been identified in a meeting held on 19.04.2023 for lowering the MTL to 40% of rated capacity for the pilot phase, (Table-I). Concerned utilities shall arrange test run to understand the capability of the machine and identify measures, if any required for 40% load operation. Utility shall complete the refurbishment for flexibilisation by December, 2023, which shall be followed by performance evaluation and rectification period of six months. The experience gained in pilot phase shall be useful for 1st phase implementation. Summary of phasing plans is given in Table-II.

Table-I

Sl. No.	Sector	Organisation	Unit Name	Unit No.	Capacity (MW)
1	Central	NTPC	MAUDA TPS	1	500
2	Central	NTPC	SIMHADRI	3	500
3	Central	NTPC	DADRI	6	490
4	Central	DVC	MEJIA TPS	8	500
5	State	KPCL	YERMARUS TPP	1	800
6	State	GSECL	WANAKBORI TPP	8	800
7	State	RRVUNL	SURATGARH SCTPP	8	660
8	Private	CEPL	MUTHIARA TPP	2	600
9	Private	SEIL	SGPL TPP	2	660
10	Private	Rattan India	Nasik(P) TPP	5	270
11	Private	PPGCL	PRAYAGRAJ TPP	2	660

1st phase (July, 2024-Jun, 2026):

In the 1st phase, units commissioned between January 2016 and December 2022 has been considered. Additionally few units commissioned before January, 2016 in RE rich states have also been kept under this phase. Similarly few units situated in states where RE capacity less have been shifted to 2nd phase. Two years' time has been considered to be required for completion i.e. July, 2024 to June, 2026. List of units under 1st phase has been enclosed in Annexure-I.

2nd phase (July, 2026-Jun,2028):

Units commissioned between January 2011 and December 2015 shall be taken in 2nd phase. Additionally few units under 1st phase and 3rd phase shall be accommodated in this phase considering RE concentration. Two years' time has been considered to be required for completion i.e. July, 2026 to June, 2028. List of units under 2nd phase has been enclosed in Annexure-II.

Table-II

Phase and time period	Sector	No. of units	Capacity (MW)	Time (year)
Pilot May,2023-December,2023	Central	4	1990	1
	State	3	2260	1
	Private	4	2190	1
		11	6440	1
Jan,2024 - Jun,2024	Performance analysis and modification, if required.			
1st July,2024-Jun,2026	Central	32	20110	2
	State	28	16410	2
	Private	39	20030	2
		99	56550	2
2nd July,2026-Jun,2028	Central	27	11850	2
	State	24	10980	2
	Private	66	30495	2
		117	53325	2
3rd July,2028-Dec,2029	Central	8	2630	1.5
	State	35	10800	1.5
	Private	36	12055	1.5
		79	25485	1.5
4th Jan,2030-Dec,2030	Central	79	26760	1
	State	104	23227.5	1
	Private	24	7657	1
		207	57644.5	1
Total	Central	150	63340	
	State	194	63677.5	
	Private	169	72427	
		513	199444.5	

3rd phase (July,2028-Dec,2029):

Unit commissioned between January 2001 and December 2010 shall be considered in 3rd phase and a shorter period one and half years' time is considered to be required due to the experience gained in earlier phase. Additionally few units under 1st phase and 2nd phase shall be accommodated under this phase considering less RE concentration. Further the units with ball and tube mill shall be taken under 3rd phase if they are found suitable in pilot test. List of units under 3rd phase has been enclosed in Annexure-III (excluding ball & tube mill). The time period for completion is July, 2028 to June, 2029.

4th Phase (Jan, 2030-Dec, 2030):

In the last phase, remaining units commissioned up to December 2000 shall be considered. The minimum age of units under 4th phase will be 30 years by 2030. It is, therefore, proposed that an option may be obtained in the year,2027-28 from utility to select either flexibilisation or 2-shift operation. In the year, 2030 about 144 units of capacity 32648 MW having age of 35 years & more may opt for 2-shift operation if not retired. Accordingly they may go for retrofitting and complete the same in one year time i.e. January, 2030 to December, 2030. Additionally pithead units are also included under 4th phase for compliance of flexibilisation. List of units under 4th phase has been enclosed in Annexure-IV.

Annexure - I

Phase	Sector	Organisation	Name of Project	Unit No.	Capacity (MW)	DT-of COMMISSIONING	Pit head
Phase 1	Central	DVC	BOKARO TPS 'A' EXP	1	500	3/22/2016	N
Phase 1	Central	DVC	RAGHUNATHPUR TPP	2	600	1/18/2016	N
Phase 1	Central	NEYVELI LIGNITE	NEYVELI NEW TPP	1	500	12/20/2019	N
Phase 1	Central	NEYVELI LIGNITE	NEYVELI NEW TPP	2	500	2/3/2021	N
Phase 1	Central	NTPL	Thoothukudi (JV) TPP	2	500	7/9/2015	N
Phase 1	Central	NTPL	Thoothukudi (JV) TPP	1	500	3/10/2015	N
Phase 1	Central	NTECL	VALLUR TPP	1	500	3/28/2012	N
Phase 1	Central	NTECL	VALLUR TPP	2	500	2/28/2013	N
Phase 1	Central	NTECL	VALLUR TPP	3	500	2/28/2014	N
Phase 1	Central	NTPC	SIMHADRI	4	500	3/30/2012	N
Phase 1	Central	NTPC	DARLIPALI STPS	1	800	12/30/2019	Y
Phase 1	Central	NTPC	DARLIPALI STPS	2	800	7/21/2021	Y
Phase 1	Central	NTPC	GADARWARA TPP	1	800	3/29/2019	N
Phase 1	Central	NTPC	GADARWARA TPP	2	800	2/16/2021	N
Phase 1	Central	NTPC	KHARGONE STPP	1	660	9/29/2019	N
Phase 1	Central	NTPC	KHARGONE STPP	2	660	3/24/2020	N
Phase 1	Central	NTPC	KUDGI STPP	1	800	12/25/2016	N
Phase 1	Central	NTPC	KUDGI STPP	2	800	3/23/2017	N
Phase 1	Central	NTPC	KUDGI STPP	3	800	3/12/2018	N
Phase 1	Central	NTPC	LARA TPP	1	800	3/23/2018	N
Phase 1	Central	NTPC	LARA TPP	2	800	7/12/2020	N
Phase 1	Central	NTPC	MAUDA TPS	3	660	3/28/2016	N
Phase 1	Central	NTPC	MAUDA TPS	4	660	3/18/2017	N
Phase 1	Central	NTPC	MEJA STPP	1	660	3/31/2018	N
Phase 1	Central	NTPC	MEJA STPP	2	660	1/12/2021	N
Phase 2	Central	NTPC	MAUDA TPS	2	500	3/29/2013	N
Phase 1	Central	NTPC	SOLAPUR STPS	1	660	4/7/2017	N
Phase 1	Central	NTPC	SOLAPUR STPS	2	660	3/30/2019	N
Phase 1	Central	NTPC	TANDA TPS	5	660	9/28/2019	N
Phase 1	Central	NTPC	TANDA TPS	6	660	3/31/2021	N
Phase 1	Central	NTPC	UNCHAHAH TPS	6	500	3/31/2017	N
Phase 3	Central	NTPC	UNCHAHAH TPS	5	210	9/28/2006	
Phase 1		Central Total		32	20110		
Phase 1	State	APGENCO	RAYALASEEMA TPS	6	600	3/12/2018	N
Phase 1	State	CSPGCL	MARWA TPS	2	500	7/15/2016	N
Phase 1	State	KPCL	BELLARY TPS	3	700	3/1/2016	N
Phase 1	State	KPCL	YERMARUS TPP	2	800	3/29/2017	N
Phase 1	State	MAHAGENCO	CHANDRAPUR(MAHARASHTRA) STPS	9	500	3/21/2016	N
Phase 1	State	MAHAGENCO	KORADI TPS	9	660	3/15/2016	N
Phase 1	State	MAHAGENCO	KORADI TPS	10	660	12/28/2016	N
Phase 1	State	MAHAGENCO	PARLI TPS	8	250	3/30/2016	N
Phase 1	State	MPPGCL	SHREE SINGAJI TPP	3	660	11/18/2018	N
Phase 1	State	MPPGCL	SHREE SINGAJI TPP	4	660	3/27/2019	N
Phase 1	State	TANGEDCO	METTUR TPS-II	1	600	10/11/2012	N
Phase 1	State	TANGEDCO	NORTH CHENNAI TPS	4	600	9/13/2013	N
Phase 1	State	TANGEDCO	NORTH CHENNAI TPS	5	600	3/9/2013	N
Phase 1	State	APPDCL	DAMODARAM SANJEEVAIAH TPS	1	800	8/28/2014	N
Phase 1	State	APPDCL	DAMODARAM SANJEEVAIAH TPS	2	800	3/17/2015	N
Phase 1	State	RRVUNL	CHHABRA TPP	5	660	4/4/2017	N
Phase 1	State	RRVUNL	CHHABRA TPP	6	660	3/29/2019	N
Phase 1	State	RRVUNL	Suratgarh SCTPP	7	660	3/15/2020	N
Phase 1	State	SCCL	SINGARENI TPP	1	600	3/13/2016	N
Phase 1	State	SCCL	SINGARENI TPP	2	600	11/25/2016	N
Phase 1	State	TSGENCO	BHADRADRI TPP	1	270	6/5/2020	N
Phase 1	State	TSGENCO	BHADRADRI TPP	2	270	12/7/2020	N
Phase 1	State	TSGENCO	BHADRADRI TPP	3	270	3/26/2021	N
Phase 1	State	TSGENCO	KOTHAGUDEM TPS (STAGE-7)	12	800	12/26/2018	N
Phase 1	State	UPRVUNL	ANPARA TPS	7	500	3/6/2016	Y
Phase 1	State	UPRVUNL	HARDUAGANJ TPS	10	660	1/29/2022	N
Phase 1	State	APPDCL	DAMODARAM SANJEEVAIAH TPS	3	800	3/9/2023	N
Phase 1	State	TSGENCO	BHADRADRI TPP	4	270	1/9/2022	N
Phase 1		State Total		28	16410		
Phase 1	Private	APL	MAHAN TPP	2	600	10/7/2018	N
Phase 1	Private	APL	RAIKHEDA TPP	2	685	3/28/2016	N
Phase 1	Private	BALCO	BALCO TPS	2	300	3/24/2016	N
Phase 1	Private	GPGL (GVK)	GOINDWAL SAHIB	1	270	2/14/2016	N
Phase 1	Private	GPGL (GVK)	GOINDWAL SAHIB	2	270	3/15/2016	N
Phase 1	Private	CGPL	MUNDRA UMTTP	1	800	2/25/2012	N

Phase 1	Private	CGPL	MUNDRA UMTTP	2	800	7/17/2012	N
Phase 1	Private	CGPL	MUNDRA UMTTP	3	800	10/16/2012	N
Phase 1	Private	CGPL	MUNDRA UMTTP	4	800	1/16/2013	N
Phase 1	Private	CGPL	MUNDRA UMTTP	5	800	3/18/2013	N
Phase 1	Private	APL	MUNDRA TPS	8	660	3/3/2012	N
Phase 1	Private	APL	MUNDRA TPS	9	660	3/9/2012	N
Phase 1	Private	SEIL	PAINAMPURAM TPP	1	660	2/7/2015	N
Phase 1	Private	SEIL	PAINAMPURAM TPP	2	660	9/3/2015	N
Phase 1	Private	HNPC	VIZAG TPP	2	520	3/30/2016	N
Phase 1	Private	IBPIL	UTKAL TPP (IND BARATH)	1	350	2/25/2016	N
Phase 1	Private	ITPCL	ITPCL TPP	2	600	4/18/2016	N
Phase 1	Private	JHAPL	SEIONI TPP	1	600	3/22/2016	N
Phase 1	Private	LPGCL	LALITPUR TPS	1	660	3/26/2016	N
Phase 1	Private	LPGCL	LALITPUR TPS	2	660	1/8/2016	N
Phase 1	Private	LPGCL	LALITPUR TPS	3	660	4/1/2016	N
Phase 1	Private	MBPMPL	ANUPPUR TPP	2	600	3/30/2016	N
Phase 1	Private	PPGCL (Tata)	PRAYAGRAJ TPP	3	660	5/22/2017	N
Phase 1	Private	RATTANINDIA	NASIK (P) TPS	2	270	2/15/2017	N
Phase 1	Private	RATTANINDIA	NASIK (P) TPS	3	270	4/14/2017	N
Phase 1	Private	RATTANINDIA	NASIK (P) TPS	4	270	5/19/2017	N
Phase 1	Private	RATTANINDIA	NASIK (P) TPS	5	270	5/30/2017	N
Phase 1	Private	RKMPL	UCHPINDA TPP	2	360	1/28/2016	N
Phase 1	Private	RKMPL	UCHPINDA TPP	3	360	9/12/2017	N
Phase 1	Private	RKMPL	UCHPINDA TPP	4	360	3/20/2019	N
Phase 1	Private	SEIL	SGPL TPP	1	660	11/12/2016	N
Phase 1	Private	SKS	BINJKOTE TPP	1	300	3/28/2018	N
Phase 1	Private	SKS	BINJKOTE TPP	2	300	4/25/2017	N
Phase 1	Private	SPPL	SHIRPUR TPP	1	150	9/28/2017	N
Phase 1	Private	SPPL	Thoothukudi St IV	1	525	11/30/2021	N
Phase 1	Private	TRNE	NAWAPARA TPP	1	300	8/14/2016	N
Phase 1	Private	TRNE	NAWAPARA TPP	2	300	4/18/2017	N
Phase 1	Private	TSPL	TALWANDI SABO TPP	3	660	3/29/2016	N
Phase 1	Private	WPCL	AKALTARA TPS	2	600	1/18/2018	N
Phase 1	Private Total			39	20030		
Phase 1 Total				99	56550		
Phase 1 Total (Percentage of Total Capacity)				16.58%	26.48%		

Annexure - II

Phase	Sector	Organisation	Name of Project	Unit No.	Capacity (MW)	DT-of COMMISSIONING	Pit head
Phase 2	Central	DVC	DURGAPUR STEEL TPS	2	500	3/23/2012	N
Phase 2	Central	DVC	KODARMA TPP	2	500	2/15/2013	N
Phase 2	Central	DVC	RAGHUNATHPUR TPP	1	600	8/24/2014	N
Phase 2	Central	NTPC	BARH II	4	660	11/20/2013	N
Phase 2	Central	NTPC	BARH II	5	660	3/4/2015	N
Phase 2	Central	NTPC	BONGAIGAON TPP	1	250	6/22/2015	N
Phase 2	Central	NTPC	INDIRA GANDHI STPP	3	500	11/7/2012	N
Phase 2	Central	NTPC	NABI NAGAR TPP	1	250	3/20/2016	N
Phase 2	Central	NTPC	NABI NAGAR TPP	2	250	4/3/2017	N
Phase 2	Central	NTPC	NABI NAGAR TPP	3	250	2/26/2019	N
Phase 2	Central	NTPC	NABI NAGAR TPP	4	250	11/10/2021	N
Phase 2	Central	NTPC	NEW NABI NAGAR TPP	1	660	7/12/2019	N
Phase 2	Central	NTPC	NEW NABI NAGAR TPP	2	660	3/31/2021	N
Phase 2	Central	NPGL	NABINAGAR STPP	3	660	3/6/2022	N
Phase 2	Central	NTPC	NORTH KARANPURA STPP	1	660	1/18/2023	N
Phase 2	Central	NTPC	DADRI (NCTPP)	5	490	1/25/2010	N
Phase 2	Central	NTPC	INDIRA GANDHI STPP	1	500	10/31/2010	N
Phase 2	Central	NTPC	INDIRA GANDHI STPP	2	500	11/5/2011	N
Phase 2	Central	NTPC	SIMHADRI	1	500	2/22/2002	N
Phase 2	Central	NTPC	SIMHADRI	2	500	8/24/2002	N
Phase 2	Central	NTPC	MUZAFFARPUR TPS	3	195	3/31/2015	N
Phase 2	Central	NTPC	BONGAIGAON TPP	2	250	3/22/2017	N
Phase 2	Central	NTPC	BONGAIGAON TPP	3	250	3/23/2019	N
Phase 2	Central	NTPC	BARAUNI TPS	8	250	1/11/2018	N
Phase 2	Central	NTPC	BARAUNI TPS	9	250	3/31/2018	N
Phase 2	Central	NTPC	BARH I	1	660	10/30/2021	N
Phase 2	Central	NTPC	MUZAFFARPUR TPS	4	195	3/24/2016	N
Phase 2	Central	Central Total		27	11850		
Phase 2	State	CSPGCL	MARWA TPS	1	500	3/30/2014	N
Phase 2	State	DPL	D.P.L. TPS	8	250	3/31/2014	N
Phase 2	State	GSECL	SIKKA REP. TPS	3	250	3/29/2015	N
Phase 2	State	GSECL	SIKKA REP. TPS	4	250	9/25/2015	N
Phase 2	State	GSECL	UKAI TPS	6	500	3/5/2013	N
Phase 2	State	KPCL	BELLARY TPS	2	500	3/23/2012	N
Phase 2	State	MAHAGENCO	BHUSAWAL TPS	4	500	3/7/2012	N
Phase 2	State	MAHAGENCO	BHUSAWAL TPS	5	500	3/30/2012	N
Phase 2	State	MAHAGENCO	CHANDRAPUR(MAHARASHTRA) STPS	8	500	3/29/2015	N
Phase 2	State	MAHAGENCO	KORADI TPS	8	660	3/30/2015	N
Phase 2	State	MPPGCL	SATPURA TPS	10	250	3/22/2013	N
Phase 2	State	MPPGCL	SATPURA TPS	11	250	12/25/2013	N
Phase 2	State	MPPGCL	SHREE SINGAJI TPP	1	600	11/18/2013	N
Phase 2	State	MPPGCL	SHREE SINGAJI TPP	2	600	10/15/2014	N
Phase 2	State	RRVUNL	KALISINDH TPS	1	600	5/2/2014	N
Phase 2	State	RRVUNL	KALISINDH TPS	2	600	6/6/2015	N
Phase 2	State	TSGENCO	KAKATIYA TPS	2	600	12/31/2015	N
Phase 2	State	UPRVUNL	HARDUAGANJ TPS	9	250	5/25/2012	N
Phase 2	State	UPRVUNL	PARICHHA TPS	5	250	5/24/2012	N
Phase 2	State	UPRVUNL	PARICHHA TPS	6	250	3/11/2013	N
Phase 2	State	OPGC	IB VALLEY TPS	3	660	7/2/2019	Y
Phase 2	State	OPGC	IB VALLEY TPS	4	660	7/2/2019	Y
Phase 2	State	WBPDC	SAGARDIGHI TPS	4	500	12/15/2016	N
Phase 2	State	WBPDC	SAGARDIGHI TPS	3	500	12/14/2015	N
Phase 2	State	State Total		24	10980		
Phase 2	Private	ADHUNIK	MAHADEV PRASAD STPP	1	270	11/19/2012	N
Phase 2	Private	ADHUNIK	MAHADEV PRASAD STPP	2	270	3/29/2013	N
Phase 2	Private	APL	AVANTHA BHANDAR	1	600	3/31/2014	N
Phase 2	Private	APL	KAWAI TPS	1	660	5/28/2013	N
Phase 2	Private	APL	KAWAI TPS	2	660	12/24/2013	N
Phase 2	Private	APL	MAHAN TPP	1	600	2/24/2013	N
Phase 2	Private	APL	RAIKHEDA TPP	1	685	2/24/2015	N
Phase 2	Private	APL	TIRORA TPS	1	660	9/11/2012	N
Phase 2	Private	APL	TIRORA TPS	2	660	3/25/2013	N
Phase 2	Private	APL	TIRORA TPS	3	660	6/10/2013	N
Phase 2	Private	APL	TIRORA TPS	4	660	3/23/2014	N
Phase 2	Private	APL	TIRORA TPS	5	660	9/25/2014	N
Phase 2	Private	BALCO	BALCO TPS	1	300	6/4/2015	N
Phase 2	Private	CEPL	MUTHIARA TPP	1	600	12/2/2014	N
Phase 2	Private	DBPCL	BARADARHA TPS	1	600	2/23/2014	N

Phase 2	Private	DBPCL	BARADARHA TPS	2	600	3/24/2015	N
Phase 2	Private	DIPL	DHARIWAL TPP	1	300	11/3/2013	N
Phase 2	Private	DIPL	DHARIWAL TPP	2	300	5/28/2014	N
Phase 2	Private	EPGL	SALAYA TPP	1	600	2/22/2012	N
Phase 2	Private	EPGL	SALAYA TPP	2	600	6/13/2012	N
Phase 2	Private	GEPL	GEPL TPP Ph-I	1	60	4/28/2012	N
Phase 2	Private	GEPL	GEPL TPP Ph-I	2	60	9/8/2012	N
Phase 2	Private	GMR ENERG	GMR WARORA TPS	1	300	2/7/2013	N
Phase 2	Private	GMR ENERG	GMR WARORA TPS	2	300	8/27/2013	N
Phase 2	Private	GMR ENERG	KAMALANGA TPS	1	350	3/29/2013	N
Phase 2	Private	GMR ENERG	KAMALANGA TPS	2	350	9/28/2013	N
Phase 2	Private	GMR ENERG	KAMALANGA TPS	3	350	3/21/2014	N
Phase 2	Private	HEL	HALDIA TPP	1	300	1/14/2015	N
Phase 2	Private	HEL	HALDIA TPP	2	300	2/16/2015	N
Phase 2	Private	HNPC	VIZAG TPP	1	520	12/27/2015	N
Phase 2	Private	IEPL	BELA TPS	1	270	3/20/2013	N
Phase 2	Private	ITPCL	ITPCL TPP	1	600	9/19/2015	N
Phase 2	Private	JhPL(HR)	MAHATMA GANDHI TPS	1	660	1/12/2012	N
Phase 2	Private	JhPL(HR)	MAHATMA GANDHI TPS	2	660	4/11/2012	N
Phase 2	Private	JITPL	DERANG TPP	1	600	4/10/2014	N
Phase 2	Private	JITPL	DERANG TPP	2	600	1/24/2015	N
Phase 2	Private	JPL	TAMNAR TPP	1	600	1/7/2015	N
Phase 2	Private	JPL	TAMNAR TPP	2	600	3/10/2014	N
Phase 2	Private	JPL	TAMNAR TPP	3	600	3/30/2014	N
Phase 2	Private	JPL	TAMNAR TPP	4	600	3/28/2015	N
Phase 2	Private	JPPVL	BINA TPS	1	250	8/12/2012	N
Phase 2	Private	JPPVL	BINA TPS	2	250	3/31/2013	N
Phase 2	Private	JPPVL	NIGRI TPP	1	660	8/29/2014	N
Phase 2	Private	JPPVL	NIGRI TPP	2	660	2/27/2015	N
Phase 2	Private	MBPMPL	ANUPPUR TPP	1	600	4/20/2015	N
Phase 2	Private	MCCPL	BANDAKHAR TPP	1	300	6/19/2015	N
Phase 2	Private	MPL	MAITHON RB TPP	2	525	3/31/2012	N
Phase 2	Private	NPL	RAJPURA TPP	1	700	1/24/2014	N
Phase 2	Private	NPL	RAJPURA TPP	2	700	7/6/2014	N
Phase 2	Private	PPGCL (Tata)	PRAYAGRAJ TPP	1	660	12/25/2015	N
Phase 2	Private	RATTANINDIA	AMARAVATI TPS	1	270	3/25/2013	N
Phase 2	Private	RATTANINDIA	AMARAVATI TPS	2	270	2/17/2014	N
Phase 2	Private	RATTANINDIA	AMARAVATI TPS	3	270	1/29/2015	N
Phase 2	Private	RATTANINDIA	AMARAVATI TPS	4	270	3/4/2015	N
Phase 2	Private	RATTANINDIA	NASIK (P) TPS	1	270	2/25/2014	N
Phase 2	Private	RKMPL	UCHPINDA TPP	1	360	10/28/2015	N
Phase 2	Private	RPSC	ROSA TPP Ph-II	4	300	3/28/2012	N
Phase 2	Private	TSPL	TALWANDI SABO TPP	1	660	6/17/2014	N
Phase 2	Private	TSPL	TALWANDI SABO TPP	2	660	10/25/2015	N
Phase 2	Private	VIP	BUTIBORI TPP	1	300	3/31/2014	N
Phase 2	Private	VIP	BUTIBORI TPP	2	300	8/17/2012	N
Phase 2	Private	VVL	SALORA TPP	1	135	4/10/2014	N
Phase 2	Private	WPCL	AKALTARA TPS	3	600	8/13/2013	N
Phase 2	Private	WPCL	AKALTARA TPS	4	600	8/22/2014	N
Phase 2	Private	HMEL	Hiranmaye TPP	1	150	6/7/2017	N
Phase 2	Private	HMEL	Hiranmaye TPP	2	150	12/31/2017	N
Phase 2	Private Total			66	30495		
Phase 2 Total				117	53325		
Phase 2 Total (Percentage of Total Capacity)				19.60%	24.97%		

Annexure - III

Phase	Sector	Organisation	Name of Project	Unit No.	Capacity (MW)	DT-of COMMISSIONING
Phase 3	Central	DVC	DURGAPUR STEEL TPS	1	500	7/29/2011
Phase 3	Central	DVC	KODARMA TPP	1	500	7/20/2011
Phase 3	Central	DVC	MEJIA TPS	4	210	10/12/2004
Phase 3	Central	DVC	MEJIA TPS	7	500	9/30/2010
Phase 3	Central	NEYVELI LIGNITE	NEYVELI (EXT) TPS	1	210	10/21/2002
Phase 3	Central	NEYVELI LIGNITE	NEYVELI (EXT) TPS	2	210	7/22/2003
Phase 3	Central	NSPCL	BHILAI TPS	1	250	4/20/2008
Phase 3	Central	NSPCL	BHILAI TPS	2	250	7/12/2009
Phase 3	Central Total			8	2630	
Phase 3	State	APGENCO	Dr. N.TATA RAO TPS	7	500	10/8/2009
Phase 3	State	APGENCO	RAYALASEEMA TPS	3	210	1/25/2007
Phase 3	State	APGENCO	RAYALASEEMA TPS	4	210	11/20/2007
Phase 3	State	APGENCO	RAYALASEEMA TPS	5	210	12/31/2010
Phase 3	State	CSPGCL	DSPM TPS	1	250	3/30/2007
Phase 3	State	CSPGCL	DSPM TPS	2	250	12/11/2007
Phase 3	State	DPL	D.P.L. TPS	7	300	11/24/2007
Phase 3	State	HPGCL	RAJIV GANDHI TPS	1	600	3/31/2010
Phase 3	State	HPGCL	RAJIV GANDHI TPS	2	600	10/1/2010
Phase 3	State	HPGCL	YAMUNA NAGAR TPS	1	300	11/1/2007
Phase 3	State	HPGCL	YAMUNA NAGAR TPS	2	300	3/29/2008
Phase 3	State	KPCL	BELLARY TPS	1	500	12/3/2007
Phase 3	State	KPCL	RAICHUR TPS	7	210	12/11/2002
Phase 3	State	KPCL	RAICHUR TPS	8	250	6/26/2010
Phase 3	State	MAHAGENCO	KHAPARKHEDA TPS	4	210	1/7/2001
Phase 3	State	MAHAGENCO	KHAPARKHEDA TPS	5	500	8/5/2011
Phase 3	State	MAHAGENCO	PARAS TPS	1	250	5/31/2007
Phase 3	State	MAHAGENCO	PARAS TPS	2	250	3/27/2010
Phase 3	State	MAHAGENCO	PARLI TPS	6	250	2/16/2007
Phase 3	State	MAHAGENCO	PARLI TPS	7	250	2/10/2010
Phase 3	State	MPPGCL	SANJAY GANDHI TPS	5	500	6/18/2007
Phase 3	State	PSPCL	GH TPS (LEH.MOH.)	3	250	1/3/2008
Phase 3	State	PSPCL	GH TPS (LEH.MOH.)	4	250	7/31/2008
Phase 3	State	TSGENCO	KAKATIYA TPS	1	500	5/27/2010
Phase 3	State	TSGENCO	KOTHAGUDEM TPS (NEW)	11	500	6/26/2011
Phase 3	State	UPRVUNL	HARDUAGANJ TPS	8	250	9/27/2011
Phase 3	State	UPRVUNL	PARICHHA TPS	3	210	3/29/2006
Phase 3	State	UPRVUNL	PARICHHA TPS	4	210	12/28/2006
Phase 3	State	WBPDC	BAKRESWAR TPS	1	210	6/7/2009
Phase 3	State	WBPDC	BAKRESWAR TPS	4	210	3/21/2001
Phase 3	State	WBPDC	BAKRESWAR TPS	5	210	12/24/2007
Phase 3	State	WBPDC	SAGARDIGHI TPS	1	300	7/20/2008
Phase 3	State	WBPDC	SAGARDIGHI TPS	2	300	12/21/2007
Phase 3	State	WBPDC	SANTALDIH TPS	5	250	11/7/2007
Phase 3	State	WBPDC	SANTALDIH TPS	6	250	6/29/2011
Phase 3	State Total			35	10800	
Phase 3	Private	APL	MUNDRA TPS	1	330	8/4/2009
Phase 3	Private	APL	MUNDRA TPS	2	330	3/17/2010
Phase 3	Private	APL	MUNDRA TPS	3	330	8/2/2010
Phase 3	Private	APL	MUNDRA TPS	4	330	12/20/2010
Phase 3	Private	APL	MUNDRA TPS	5	660	12/26/2010
Phase 3	Private	APL	MUNDRA TPS	6	660	7/20/2011
Phase 3	Private	APL	MUNDRA TPS	7	660	11/7/2011
Phase 3	Private	APL	UDUPI TPP	1	600	7/23/2010
Phase 3	Private	APL	UDUPI TPP	2	600	4/16/2011
Phase 3	Private	CESC	BUDGE BUDGE TPS	3	250	9/29/2009
Phase 3	Private	JPL	OP JINDAL TPS	1	250	9/2/2007
Phase 3	Private	JPL	OP JINDAL TPS	2	250	2/10/2008
Phase 3	Private	JPL	OP JINDAL TPS	3	250	3/6/2008
Phase 3	Private	JPL	OP JINDAL TPS	4	250	6/17/2008
Phase 3	Private	JSWEL	JSW RATNAGIRI TPP	1	300	8/24/2010
Phase 3	Private	JSWEL	JSW RATNAGIRI TPP	2	300	12/9/2010
Phase 3	Private	JSWEL	JSW RATNAGIRI TPP	3	300	5/6/2011
Phase 3	Private	JSWEL	JSW RATNAGIRI TPP	4	300	10/8/2011
Phase 3	Private	JSWEL	TORANGALLU TPS(SBU-II)	1	300	4/23/2009

Phase 3	Private	JSWEL	TORANGALLU TPS(SBU-II)	2	300	8/24/2009
Phase 3	Private	LANCO	PATHADI TPP	1	300	6/4/2009
Phase 3	Private	LANCO	PATHADI TPP	2	300	3/25/2010
Phase 3	Private	MPL	MAITHON RB TPP	1	525	6/30/2011
Phase 3	Private	RPSCL	ROSA TPP Ph-I	1	300	2/10/2010
Phase 3	Private	RPSCL	ROSA TPP Ph-I	2	300	6/26/2010
Phase 3	Private	RPSCL	ROSA TPP Ph-II	3	300	12/28/2011
Phase 3	Private	SEL	STERLITE TPP	1	600	10/14/2010
Phase 3	Private	SEL	STERLITE TPP	2	600	12/29/2010
Phase 3	Private	TAQA	NEYVELI TPS(Z)	1	250	10/21/2002
Phase 3	Private	TATA PCL	JOJOBBERA TPS	2	120	2/1/2001
Phase 3	Private	TATA PCL	JOJOBBERA TPS	3	120	2/1/2002
Phase 3	Private	TATA PCL	TROMBAY TPS	8	250	3/26/2009
Phase 3	Private	WPCL	WARDHA WARORA TPP	1	135	6/5/2010
Phase 3	Private	WPCL	WARDHA WARORA TPP	2	135	10/10/2010
Phase 3	Private	WPCL	WARDHA WARORA TPP	3	135	1/21/2011
Phase 3	Private	WPCL	WARDHA WARORA TPP	4	135	4/30/2011
Phase 3	Private Total			36	12055	
Phase 3	PHASE 3 Total			79	25485	
Phase 3 Total (Percentage of Total Capacity)				13.23%	11.93%	

Phase	Sector	Organisation	Name of Project	Unit No.	Capacity (MW)	DT-of COMMISSIONING	Pit head	Age as on 31.12.2029
Phase 4	Central	NEYVELI LIGNITE	NEYVELI TPS-II	1	210	1/17/1988	N	42.0
Phase 4	Central	NEYVELI LIGNITE	NEYVELI TPS-II	2	210	2/6/1987	N	42.9
Phase 4	Central	NEYVELI LIGNITE	NEYVELI TPS-II	3	210	3/29/1987	N	42.8
Phase 4	Central	NEYVELI LIGNITE	NEYVELI TPS-II	4	210	3/30/1991	N	38.8
Phase 4	Central	NEYVELI LIGNITE	NEYVELI TPS-II	5	210	12/31/1991	N	38.0
Phase 4	Central	NEYVELI LIGNITE	NEYVELI TPS-II	6	210	10/30/1992	N	37.2
Phase 4	Central	NEYVELI LIGNITE	NEYVELI TPS-II	7	210	6/19/1993	N	36.6
Phase 4	Central	NTPC	BARAUNI TPS	6	105	5/1/1983	N	46.7
Phase 4	Central	NTPC	BARAUNI TPS	7	105	3/31/1985	N	44.8
Phase 4	Central	NTPC	DADRI (NCTPP)	1	210	12/21/1991	N	38.1
Phase 4	Central	NTPC	DADRI (NCTPP)	2	210	12/18/1992	N	37.1
Phase 4	Central	NTPC	DADRI (NCTPP)	3	210	3/23/1993	N	36.8
Phase 4	Central	NTPC	DADRI (NCTPP)	4	210	3/24/1994	N	35.8
Phase 4	Central	NTPC	TANDA TPS	1	110	3/21/1988	N	41.8
Phase 4	Central	NTPC	TANDA TPS	2	110	3/11/1989	N	40.8
Phase 4	Central	NTPC	TANDA TPS	3	110	3/28/1990	N	39.8
Phase 4	Central	NTPC	TANDA TPS	4	110	2/20/1998	N	31.9
Phase 4	Central	NTPC	UNCHAHAR TPS	1	210	11/21/1988	N	41.1
Phase 4	Central	NTPC	UNCHAHAR TPS	2	210	3/22/1989	N	40.8
Phase 4	Central	NTPC	VINDHYACHAL STPS	1	210	10/10/1987	Y	42.3
Phase 4	Central	NTPC	VINDHYACHAL STPS	2	210	7/23/1988	Y	41.5
Phase 4	Central	NTPC	VINDHYACHAL STPS	3	210	2/3/1989	Y	40.9
Phase 4	Central	NTPC	VINDHYACHAL STPS	4	210	12/26/1989	Y	40.0
Phase 4	Central	NTPC	VINDHYACHAL STPS	5	210	3/31/1990	Y	39.8
Phase 2	Central	NTPC	VINDHYACHAL STPS	11	500	6/14/2012	Y	17.6
Phase 2	Central	NTPC	VINDHYACHAL STPS	12	500	3/22/2013	Y	16.8
Phase 2	Central	NTPC	VINDHYACHAL STPS	13	500	8/6/2015	Y	14.4
Phase 4	Central	NTPC	VINDHYACHAL STPS	6	210	2/1/1991	Y	38.9
Phase 3	Central	NTPC	VINDHYACHAL STPS	9	500	7/27/2006	Y	23.4
Phase 3	Central	NTPC	VINDHYACHAL STPS	10	500	3/8/2007	Y	22.8
Phase 4	Central	NTPC	RIHAND STPS	5	500	5/25/2012	Y	17.6
Phase 4	Central	NTPC	RIHAND STPS	6	500	10/17/2013	Y	16.2
Phase 4	Central	NTPC	SIPAT STPS	3	660	6/2/2012	Y	17.6
Phase 4	Central	NTPC	FARAKKA STPS	6	500	3/7/2011	Y	18.8
Phase 4	Central	NTPC	KAHALGAON TPS	5	500	3/31/2007	Y	22.8
Phase 4	Central	NTPC	KAHALGAON TPS	6	500	3/16/2008	Y	21.8
Phase 4	Central	NTPC	KAHALGAON TPS	7	500	7/31/2009	Y	20.4
Phase 4	Central	NTPC	KORBA STPS	7	500	11/25/2010	Y	19.1
Phase 4	Central	NTPC	RAMAGUNDEM STPS	7	500	9/26/2004	Y	25.3
Phase 4	Central	NTPC	RIHAND STPS	3	500	1/31/2005	Y	24.9
Phase 4	Central	NTPC	RIHAND STPS	4	500	9/24/2005	Y	24.3
Phase 4	Central	NTPC	SIPAT STPS	1	660	6/27/2011	Y	18.5
Phase 4	Central	NTPC	SIPAT STPS	2	660	12/24/2011	Y	18.0
Phase 4	Central	NTPC	SIPAT STPS	4	500	5/27/2007	Y	22.6
Phase 4	Central	NTPC	SIPAT STPS	5	500	8/13/2008	Y	21.4
Phase 4	Central	NTPC	TALCHER STPS	3	500	2/21/2003	Y	26.9
Phase 4	Central	NTPC	TALCHER STPS	4	500	10/25/2003	Y	26.2
Phase 4	Central	NTPC	TALCHER STPS	5	500	5/13/2004	Y	25.7
Phase 4	Central	NTPC	TALCHER STPS	6	500	2/6/2005	Y	24.9
Phase 4	Central	NTPC	FARAKKA STPS	1	200	1/1/1986	Y	44.0
Phase 4	Central	NTPC	FARAKKA STPS	2	200	12/24/1986	Y	43.0
Phase 4	Central	NTPC	FARAKKA STPS	3	200	8/6/1987	Y	42.4
Phase 4	Central	NTPC	FARAKKA STPS	4	500	9/25/1992	Y	37.3
Phase 4	Central	NTPC	FARAKKA STPS	5	500	2/16/1994	Y	35.9
Phase 4	Central	NTPC	KAHALGAON TPS	1	210	3/31/1992	Y	37.8
Phase 4	Central	NTPC	KAHALGAON TPS	2	210	3/17/1994	Y	35.8
Phase 4	Central	NTPC	KAHALGAON TPS	3	210	3/24/1995	Y	34.8
Phase 4	Central	NTPC	KAHALGAON TPS	4	210	3/18/1996	Y	33.8
Phase 4	Central	NTPC	KORBA STPS	1	200	2/28/1983	Y	46.9
Phase 4	Central	NTPC	KORBA STPS	2	200	10/31/1983	Y	46.2
Phase 4	Central	NTPC	KORBA STPS	3	200	3/17/1984	Y	45.8
Phase 4	Central	NTPC	KORBA STPS	4	500	5/31/1987	Y	42.6
Phase 4	Central	NTPC	KORBA STPS	5	500	3/25/1988	Y	41.8
Phase 4	Central	NTPC	KORBA STPS	6	500	2/26/1989	Y	40.9
Phase 4	Central	NTPC	RAMAGUNDEM STPS	1	200	10/27/1983	Y	46.2
Phase 4	Central	NTPC	RAMAGUNDEM STPS	2	200	5/29/1984	Y	45.6
Phase 4	Central	NTPC	RAMAGUNDEM STPS	3	200	12/13/1984	Y	45.1
Phase 4	Central	NTPC	RAMAGUNDEM STPS	4	500	6/26/1988	Y	41.5
Phase 4	Central	NTPC	RAMAGUNDEM STPS	5	500	3/26/1989	Y	40.8
Phase 4	Central	NTPC	RAMAGUNDEM STPS	6	500	10/16/1989	Y	40.2
Phase 4	Central	NTPC	RIHAND STPS	1	500	3/31/1988	Y	41.8
Phase 4	Central	NTPC	RIHAND STPS	2	500	7/5/1989	Y	40.5
Phase 4	Central	NTPC	SINGRAULI STPS	1	200	2/14/1982	Y	47.9
Phase 4	Central	NTPC	SINGRAULI STPS	2	200	11/25/1982	Y	47.1
Phase 4	Central	NTPC	SINGRAULI STPS	3	200	3/28/1983	Y	46.8
Phase 4	Central	NTPC	SINGRAULI STPS	4	200	11/2/1983	Y	46.2
Phase 4	Central	NTPC	SINGRAULI STPS	5	200	2/26/1984	Y	45.9

Phase 4	Central	NTPC	SINGRAULI STPS	6	500	12/23/1986	Y	43.1
Phase 4	Central	NTPC	SINGRAULI STPS	7	500	11/24/1987	Y	42.1
Phase 4	Central Total			79	26760			
Phase 4	State	APGENCO	Dr. N.TATA RAO TPS	1	210	11/1/1979	N	50.2
Phase 4	State	APGENCO	Dr. N.TATA RAO TPS	2	210	10/10/1980	N	49.3
Phase 4	State	APGENCO	Dr. N.TATA RAO TPS	3	210	10/5/1989	N	40.3
Phase 4	State	APGENCO	Dr. N.TATA RAO TPS	4	210	8/23/1990	N	39.4
Phase 4	State	APGENCO	Dr. N.TATA RAO TPS	5	210	3/31/1994	N	35.8
Phase 4	State	APGENCO	Dr. N.TATA RAO TPS	6	210	2/24/1995	N	34.9
Phase 4	State	APGENCO	RAYALASEEMA TPS	1	210	3/31/1994	N	35.8
Phase 4	State	APGENCO	RAYALASEEMA TPS	2	210	2/25/1995	N	34.9
Phase 4	State	GSECL	GANDHI NAGAR TPS	3	210	3/20/1990	N	39.8
Phase 4	State	GSECL	GANDHI NAGAR TPS	4	210	7/20/1991	N	38.5
Phase 4	State	GSECL	GANDHI NAGAR TPS	5	210	3/17/1998	N	31.8
Phase 4	State	GSECL	UKAI TPS	3	200	1/21/1979	N	51.0
Phase 4	State	GSECL	UKAI TPS	4	200	3/28/1979	N	50.8
Phase 4	State	GSECL	UKAI TPS	5	210	1/30/1985	N	44.9
Phase 4	State	GSECL	WANAKBORI TPS	1	210	3/23/1982	N	47.8
Phase 4	State	GSECL	WANAKBORI TPS	2	210	1/15/1983	N	47.0
Phase 4	State	GSECL	WANAKBORI TPS	3	210	3/15/1984	N	45.8
Phase 4	State	GSECL	WANAKBORI TPS	4	210	3/9/1986	N	43.8
Phase 4	State	GSECL	WANAKBORI TPS	5	210	9/23/1986	N	43.3
Phase 4	State	GSECL	WANAKBORI TPS	6	210	11/18/1987	N	42.1
Phase 4	State	GSECL	WANAKBORI TPS	7	210	12/31/1998	N	31.0
Phase 4	State	KPCL	RAICHUR TPS	1	210	3/29/1985	N	44.8
Phase 4	State	KPCL	RAICHUR TPS	2	210	3/2/1986	N	43.9
Phase 4	State	KPCL	RAICHUR TPS	3	210	3/30/1991	N	38.8
Phase 4	State	KPCL	RAICHUR TPS	4	210	9/29/1994	N	35.3
Phase 4	State	KPCL	RAICHUR TPS	5	210	1/31/1999	N	30.9
Phase 4	State	KPCL	RAICHUR TPS	6	210	7/22/1999	N	30.5
Phase 4	State	MAHAGENCO	BHUSAWAL TPS	3	210	9/18/1982	N	47.3
Phase 4	State	MAHAGENCO	CHANDRAPUR(MAHARASHTRA) STPS	3	210	5/3/1985	N	44.7
Phase 4	State	MAHAGENCO	CHANDRAPUR(MAHARASHTRA) STPS	4	210	3/8/1986	N	43.8
Phase 4	State	MAHAGENCO	CHANDRAPUR(MAHARASHTRA) STPS	5	500	3/22/1991	N	38.8
Phase 4	State	MAHAGENCO	CHANDRAPUR(MAHARASHTRA) STPS	6	500	3/11/1992	N	37.8
Phase 4	State	MAHAGENCO	CHANDRAPUR(MAHARASHTRA) STPS	7	500	10/1/1997	N	32.3
Phase 4	State	MAHAGENCO	KHAPARKHEDA TPS	1	210	3/26/1989	N	40.8
Phase 4	State	MAHAGENCO	KHAPARKHEDA TPS	2	210	1/8/1990	N	40.0
Phase 4	State	MAHAGENCO	KHAPARKHEDA TPS	3	210	5/31/2000	N	29.6
Phase 4	State	MAHAGENCO	KORADI TPS	6	210	3/30/1982	N	47.8
Phase 4	State	MAHAGENCO	NASIK TPS	3	210	4/26/1979	N	50.7
Phase 4	State	MAHAGENCO	NASIK TPS	4	210	7/10/1980	N	49.5
Phase 4	State	MAHAGENCO	NASIK TPS	5	210	1/30/1981	N	49.0
Phase 4	State	MPPGCL	SANJAY GANDHI TPS	1	210	3/26/1993	N	36.8
Phase 4	State	MPPGCL	SANJAY GANDHI TPS	2	210	3/27/1994	N	35.8
Phase 4	State	MPPGCL	SANJAY GANDHI TPS	3	210	2/28/1999	N	30.9
Phase 4	State	MPPGCL	SANJAY GANDHI TPS	4	210	11/23/1999	N	30.1
Phase 4	State	MPPGCL	SATPURA TPS	6	200	6/27/1979	N	50.5
Phase 4	State	MPPGCL	SATPURA TPS	7	210	9/20/1980	N	49.3
Phase 4	State	MPPGCL	SATPURA TPS	8	210	1/25/1983	N	47.0
Phase 4	State	MPPGCL	SATPURA TPS	9	210	2/27/1984	N	45.9
Phase 4	State	PSPCL	GH TPS (LEH.MOH.)	1	210	12/29/1997	N	32.0
Phase 4	State	PSPCL	GH TPS (LEH.MOH.)	2	210	10/16/1998	N	31.2
Phase 4	State	PSPCL	ROPAR TPS	3	210	3/31/1988	N	41.8
Phase 4	State	PSPCL	ROPAR TPS	4	210	1/29/1989	N	40.9
Phase 4	State	PSPCL	ROPAR TPS	5	210	3/29/1992	N	37.8
Phase 4	State	PSPCL	ROPAR TPS	6	210	3/30/1993	N	36.8
Phase 4	State	RRVUNL	KOTA TPS	1	110	1/17/1983	N	47.0
Phase 4	State	RRVUNL	KOTA TPS	2	110	7/13/1983	N	46.5
Phase 4	State	RRVUNL	KOTA TPS	3	210	9/25/1988	N	41.3
Phase 4	State	RRVUNL	KOTA TPS	4	210	5/1/1989	N	40.7
Phase 4	State	TANGEDCO	METTUR TPS	1	210	1/4/1987	N	43.0
Phase 4	State	TANGEDCO	METTUR TPS	2	210	12/1/1987	N	42.1
Phase 4	State	TANGEDCO	METTUR TPS	3	210	3/22/1989	N	40.8
Phase 4	State	TANGEDCO	METTUR TPS	4	210	3/27/1990	N	39.8
Phase 4	State	TANGEDCO	NORTH CHENNAI TPS	1	210	10/25/1994	N	35.2
Phase 4	State	TANGEDCO	NORTH CHENNAI TPS	2	210	3/27/1995	N	34.8
Phase 4	State	TANGEDCO	NORTH CHENNAI TPS	3	210	2/24/1996	N	33.9
Phase 4	State	TANGEDCO	Thoothukudi TPS	1	210	7/9/1979	N	50.5
Phase 4	State	TANGEDCO	Thoothukudi TPS	2	210	12/17/1980	N	49.1
Phase 4	State	TANGEDCO	Thoothukudi TPS	3	210	4/16/1982	N	47.7
Phase 4	State	TANGEDCO	Thoothukudi TPS	4	210	2/11/1992	N	37.9
Phase 4	State	TANGEDCO	Thoothukudi TPS	5	210	3/31/1991	N	38.8
Phase 4	State	TSGENCO	KOTHAGUEDEM TPS (NEW)	10	250	2/28/1998	N	31.9
Phase 4	State	TSGENCO	RAMAGUNDEM - B TPS	2	62.5	10/17/1971	N	58.2
Phase 4	State	TVNL	TENUGHAT TPS	1	210	4/14/1994	N	35.7
Phase 4	State	TVNL	TENUGHAT TPS	2	210	10/10/1996	N	33.2
Phase 4	State	UPRVUNL	HARDUAGANJ TPS	7	105	3/31/1978	N	51.8
Phase 4	State	UPRVUNL	OBRA TPS	9	200	1/26/1980	N	50.0
Phase 4	State	UPRVUNL	OBRA TPS	10	200	1/14/1979	N	51.0

Phase 4	State	UPRVUNL	OBRA TPS	11	200	12/31/1977	N	52.0
Phase 4	State	UPRVUNL	OBRA TPS	12	200	3/28/1981	N	48.8
Phase 4	State	UPRVUNL	OBRA TPS	13	200	7/21/1982	N	47.5
Phase 4	State	WBPDC	BAKRESWAR TPS	2	210	7/17/1999	N	30.5
Phase 4	State	WBPDC	BAKRESWAR TPS	3	210	5/20/2000	N	29.6
Phase 4	State	WBPDC	BANDEL TPS	2	60	10/1/1965	N	64.3
Phase 4	State	WBPDC	BANDEL TPS	5	210	10/8/1982	N	47.3
Phase 4	State	WBPDC	KOLAGHAT TPS	1	210	1/16/1993	N	37.0
Phase 4	State	WBPDC	KOLAGHAT TPS	2	210	8/13/1990	N	39.4
Phase 4	State	WBPDC	KOLAGHAT TPS	3	210	12/16/1985	N	44.1
Phase 4	State	WBPDC	KOLAGHAT TPS	4	210	1/24/1984	N	46.0
Phase 4	State	WBPDC	KOLAGHAT TPS	5	210	12/28/1993	N	36.0
Phase 4	State	WBPDC	KOLAGHAT TPS	6	210	3/17/1991	N	38.8
Phase 4	State	CSPGCL	KORBA- WEST TPS	5	500	3/22/2013	Y	16.8
Phase 4	State	UPRVUNL	ANPARA TPS	6	500	6/8/2015	Y	14.6
Phase 4	State	MPPGCL	AMARKANTAK EXT TPS	3	210	6/15/2008	Y	21.6
Phase 4	State	CSPGCL	KORBA- WEST TPS	1	210	3/30/1984	Y	45.8
Phase 4	State	CSPGCL	KORBA- WEST TPS	2	210	6/21/1983	Y	46.6
Phase 4	State	CSPGCL	KORBA- WEST TPS	3	210	3/26/1985	Y	44.8
Phase 4	State	CSPGCL	KORBA- WEST TPS	4	210	3/13/1986	Y	43.8
Phase 4	State	OPGC	IB VALLEY TPS	1	210	6/2/1994	Y	35.6
Phase 4	State	OPGC	IB VALLEY TPS	2	210	10/22/1995	Y	34.2
Phase 4	State	UPRVUNL	ANPARA TPS	1	210	3/24/1986	Y	43.8
Phase 4	State	UPRVUNL	ANPARA TPS	2	210	2/28/1987	Y	42.9
Phase 4	State	UPRVUNL	ANPARA TPS	3	210	3/12/1988	Y	41.8
Phase 4	State	UPRVUNL	ANPARA TPS	4	500	7/19/1993	Y	36.5
Phase 4	State	UPRVUNL	ANPARA TPS	5	500	7/4/1994	Y	35.5
Phase 4	State Total			104	23227.5			
Phase 4	Private	APL	DAHANU TPS	1	250	1/6/1995	N	35.0
Phase 4	Private	APL	DAHANU TPS	2	250	3/29/1995	N	34.8
Phase 4	Private	CESC	BUDGE BUDGE TPS	1	250	9/16/1997	N	32.3
Phase 4	Private	CESC	BUDGE BUDGE TPS	2	250	3/6/1999	N	30.8
Phase 4	Private	CESC	SOUTHERN REPL. TPS	1	67.5	4/10/1991	N	38.8
Phase 4	Private	CESC	SOUTHERN REPL. TPS	2	67.5	8/12/1990	N	39.4
Phase 4	Private	CESC	TITAGARH TPS	1	60	3/17/1985	N	44.8
Phase 4	Private	CESC	TITAGARH TPS	2	60	12/12/1982	N	47.1
Phase 4	Private	CESC	TITAGARH TPS	3	60	4/26/1983	N	46.7
Phase 4	Private	CESC	TITAGARH TPS	4	60	1/16/1984	N	46.0
Phase 4	Private	JSWEL	TORANGALLU TPS(SBU-I)	1	130	1/15/1999	N	31.0
Phase 4	Private	JSWEL	TORANGALLU TPS(SBU-I)	2	130	5/16/1999	N	30.6
Phase 4	Private	TATA PCL	TROMBAY TPS	5	500	1/25/1984	N	46.0
Phase 4	Private	TOR. POW. (UNOSUGEN)	SABARMATI (D-F STATIONS)	1	120	10/12/1978	N	51.3
Phase 4	Private	TOR. POW. (UNOSUGEN)	SABARMATI (D-F STATIONS)	2	121	12/31/1984	N	45.0
Phase 4	Private	TOR. POW. (UNOSUGEN)	SABARMATI (D-F STATIONS)	3	121	9/28/1988	N	41.3
Phase 4	Private	SPL	SASAN UMTTP	1	660	5/30/2013	Y	16.6
Phase 4	Private	SPL	SASAN UMTTP	2	660	12/18/2013	Y	16.0
Phase 4	Private	SPL	SASAN UMTTP	3	660	5/21/2014	Y	15.6
Phase 4	Private	SPL	SASAN UMTTP	4	660	3/25/2014	Y	15.8
Phase 4	Private	SPL	SASAN UMTTP	5	660	8/24/2014	Y	15.4
Phase 4	Private	SPL	SASAN UMTTP	6	660	3/19/2015	Y	14.8
Phase 4	Private	LAPPL	ANPARA C TPS	1	600	11/12/2011	Y	18.1
Phase 4	Private	LAPPL	ANPARA C TPS	2	600	11/15/2011	Y	18.1
Phase 4	Private Total			24	7657			
Phase 4		PHASE 4 Total		207	57644.5			
		Phase 4 Total (Percentage of Total Capacity)		34.67%	26.99%			



ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)
[formerly Power System Operation Corporation Limited (POSOCO)]



केन्द्रीय कार्यालय : 61, आई एफ सी आई टावर, 8वां और 9वां तल, नेहरू प्लेस, नई दिल्ली - 110019
Corporate Office : 61, IFCI Tower, 8th & 9th Floor, Nehru Place, New Delhi - 110019
CIN : U40105DL2009GOI188682, Website : www.grid-india.in, E-mail : gridindiacc@grid-india.in, Tel.: 011- 40234672

NLDC/MO/DSM/2025/

Date: 28th March 2025

To,

The Chairman,
UTTAR PRADESH POWER CORPORATION LTD.,
7th Floor, Shakti Bhawan, 14- Ashok Marg,
Lucknow-226001

Subject: Regarding payment of instalments for NLDC Statement of Legacy Dues dated 11.11.24 and NLDC Statement dated 13.01.2025

Ref: 1. Hon'ble CERC order no. No. L-1/260/2021/CERC dated 15.10.2024
2. CERC: Order in Petition No. 01/SM/2025 dated 08.01.2025

Dear Sir,

As you are aware, in recent past India has witnessed persistent high demand for electricity (touching an all-time highest figure of 250 GW on 30th May 2024), in the backdrop of prolonged heat waves and prevailing nationwide election campaigns. To ensure grid stability as well as uninterrupted and reliable power supply, Grid-India deployed generation resources (including Gas based generation) available at national level under Tertiary Reserve Ancillary Services (TRAS) and Central Government directions issued under Section 11 of the Electricity Act (**Annexure-1**). Such timely actions ensured reliable & uninterrupted power supply across country despite the uncertainties imposed by variable renewable generation as well as incidence of very high demands due to unpredictable weather year.

However, deployment of such high-cost generation resources for grid reliability has depleted Deviation and Ancillary Service Pool Account leading to a situation where, the services of the generators remain unpaid for a prolonged period. It may be appreciated that, contribution from such generators will also be required for upcoming peak demand seasons. Ensuring timely payment of outstanding dues is imperative for making critical generation resources (including Gas based generation) readily available for grid reliability services.

In compliance with provisions of CERC approved "Detailed Procedure for recovery of charges in case of deficit in the Deviation and Ancillary Service Pool Account", NLDC had issued Legacy Dues statement vide communication dated 11th November 2024 (revised on 3rd March 2025) which was shared with the regional entity drawl DICs on the same day by the respective RLDCs. (Copy enclosed as **Annexure-2**).

... 2

Some of the beneficiaries have raised concerns/query on the statement on past dues which were apprised to the Honourable Commission. Accordingly, through an order in Petition No. 01/SM/2025 dated 08th January 2025, clarification and direction was given by CERC to the beneficiaries for timely payment of the legacy dues.

Further, NLDC has published "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for deficit in pool upto week ending 22.12.2024 for statements from period 16.09.2024" dated 13th January 2025 (Annexure-3). The due date of payment was 23rd January 2025.

It is brought to your kind attention that **no payments have been received from your organisation** for both statements dated 11th November 2024 and 13th January 2025. The details of payment yet to be received are as under:

S. No.	Head	Instalment No.	Total amount Due
1	Statement of Legacy Dues dated 11.11.2024 & 03.03.2025	1 to 17	Rs. 2,21,54,28,122
2	Statement for deficit in pool up to week ending 22.12.2024 dated 13.01.2025	-	Rs. 17,83,89,832

Accordingly, your kind intervention is solicited to ensure compliance of directions from Hon'ble CERC and expedite payment into the respective Regional Deviation and Ancillary Services Pool account as per the enclosed statements.

Thanking you,
Yours sincerely,



(S. C. Saxena)
Director (MO), Grid-India

Enclosures:

1. Annexure-1: Directions from GoI dated 12.04.24 under Sec-11 of the Electricity Act
2. Annexure-2: NLDC Communication dated 11.11.24 on statement of Legacy Dues.
3. Annexure-3: NLDC Communication dated 13.01.25 on statement of Deficit Recovery.

Copy for kind information:

1. Secretary, CERC
2. Chairman and Managing Director – Grid-India
3. Director (SO), Grid-India
4. Heads of RLDCs

**No. 23/05/2024-R&R
Government of India
Ministry of Power**

**Shram Shakti Bhawan, Rafi Marg,
New Delhi, 12th April, 2024**

ORDER

Subject: Directions to Gas Based Generating Stations (GBSs) under Section 11 of the Electricity Act, 2003 – regarding.

India's electricity demand is rapidly rising, driven by economic growth, particularly during hot weather and high demand periods. Also, the Indian Meteorological Department (IMD) has predicted above-normal maximum temperatures over most parts of the country during the 2024 hot weather season (till June' 2024).

2. It is essential in the public interest to ensure that the demand is met. Presently, 85% of demand during non-solar hours is being met through coal & lignite generation. A significant portion of the gas-based generation capacity is currently unutilized primarily due to commercial considerations. It is necessary to ensure that the operational capacity of the Gas-Based Generating Stations (GBSs) is utilized during the crunch period to optimise the availability of power during ensuing high demand period. Direction under Section – 11, has been given to Imported Coal-Based Generating Stations (ICBs) to ensure that they are running, and their capacity is on bar, vide order dtd. 20th February, 2023, which has been extended till 30th June, 2024 vide order dated 23rd October, 2023. Based on the current supply and demand scenario, the expected rise in demand in the near future, and ensuring continuous supply of electricity in the public interest while maintaining the grid security, Central Government, after careful consideration, hereby issue the following directions under Section 11 of the Electricity Act, 2003, to ensure maximum generation from GBSs.

3. Requisition of power

- a) Based on the monthly demand assessment, GRID-INDIA will inform the Gas-based Generating Stations about the expected high demand and stress days in advance so that the Gencos can arrange for the natural gas as required. GRID-

INDIA shall notify to the GBSs the number of days they are required to generate during a week, at least fourteen (14) days in advance. The GBSs notified and scheduled by GRID-INDIA on D-1 basis shall be guaranteed for dispatch at a minimum of 50% capacity round-the-clock during the designated high-demand period.

- b) GBSs shall first offer their power to the PPA holders as per the terms and conditions of the PPA. In cases where a GBS has PPAs with multiple Distribution Licensees, if one of the Distribution Licensee fails to schedule any portion of the power as per its PPA, the unutilized power will first be offered to other PPA holders. If the power is not scheduled by any of the PPA holders, any other Distribution Licensee may schedule such capacity. If no Distribution Licensee schedules the power, the GBS shall then offer such power in the power market. Any surplus capacity shall be made available to GRID-INDIA to provide grid support.

4. Tariff

- a) GBSs holding PPAs with Distribution Licensees shall offer their capacity on the basis of the Energy Charge Rate (ECR) determined by the Appropriate Commission.
- b) GBSs not tied to PPAs must offer their capacity on the basis of the benchmark ECR determined by the following Committee, unless there is a mutually agreed price:

- i. Chairperson (CEA).....Chairman
- ii. Member (E&C), CEA.....Member
- iii. Joint Secretary (Thermal & OM), MoP.....Member
- iv. ED (Marketing), GAIL.....Member
- v. Chief Engineer (F & CA), CEA.....Member Convener

The Committee may co-opt additional members as necessary. The Committee's responsibility shall be to ensure that the benchmark rates for procured power cover all prudent costs incurred by GBSs, including natural gas price, transportation costs, boil-off charges, LC charges, customs duties, insurance, re-gasification charges, VAT/local taxes etc. The benchmark rates shall be reviewed every 15 days, taking into consideration the change in the price of natural gas, transport

costs etc. The Committee may also make recommendations for effective implementation of these directions.

- c) The GBSs shall offer the power in the power exchanges/other market segments or for dispatch by GRID-INDIA for grid support at a rate not more than hundred and twenty percent of the ECR plus intra-state transmission charges as applicable. In case of the GBSs with PPAs, the realization above the ECR shall first go to meet the fixed costs. Therefore, the PPA holders shall not be required to pay the fixed costs for the power sold in the market or dispatched for grid support. In other cases, the liability for payment of fixed cost shall remain with the PPA holder(s) as per the PPA.
- d) If the GBSs are scheduled for grid support, they shall be compensated at the offer price.

5. Miscellaneous

- a) The Payment Security Mechanism prescribed under the Late Payment Surcharge Rules, 2022 shall apply. Payments will be made on a weekly basis by the procurer. Rebate will be admissible in accordance with CERC norms or as stipulated in the PPA, whichever is higher.
 - b) Payment for the power dispatched by GRID-INDIA shall be paid from the statutory pool as per CERC regulations.
 - c) The GBSs shall operate as per these directions, notwithstanding any prior outstanding dues of the generating company. Such outstanding dues shall be dealt with separately.
6. The above provisions shall apply notwithstanding any provisions to the contrary in any PPA or any other agreement.
7. The Generator shall submit a weekly report to GRID-INDIA for the generation and sale of power from the GBSs.
8. GRID-INDIA shall notify the detailed procedure for implementing these directions within seven (7) days of issue of these directions.

9. This Order shall remain valid for generation and supply of power from 01.05.2024 to 30.06.2024.

Manish Mishra

(Manish Mishra)
Director

To,

All Gas Based Generating Companies
(As per list attached)

Copy to:

1. The Chairperson, CEA
2. Secretary, CERC/FOR, New Delhi.
3. Secretary (Energy/Power), All State Governments/UTs.
4. CMD/MD of the Distribution Companies
5. All State Electricity Regulatory Commission.
6. CMD, GRID-INDIA, New Delhi
7. Executive Director (Marketing), GAIL

Copy for information to:

PS to Hon'ble Minister of Power & NRE,
APS to Hon'ble MoSP,
Sr. PPS to Secretary (Power),
All Additional Secretaries/Joint Secretaries/EA/CE, Ministry of Power
All Directors/Deputy Secretaries, Ministry of Power

List of Gas Based Generating Stations

List of Gas based generating stations having PPAs			
Sl. No.	Plant Name	Utility	State
Central sector			
1	FARIDABAD CCPP	NTPC	HARYANA
2	ANTA CCPP	NTPC	RAJASTHAN
3	AURAIYA CCPP	NTPC	UTTAR PRADESH
4	DADRI CCPP	NTPC	UTTAR PRADESH
5	GANDHAR (JHANORE) CCPP	NTPC	GUJARAT
6	KAWAS CCPP	NTPC	GUJARAT
7	RATNAGIRI CCPP	RGPPL	MAHARASHTRA
State sector			
8	I.P. CCPP	IPGCL	DELHI
9	PRAGATI CCGT-III	Pragati Power Corp. Ltd.	DELHI
10	PRAGATI CCPP	Pragati Power Corp. Ltd.	DELHI
11	DHOLPUR CCPP	RRVUNL	RAJASTHAN
12	PIPAVAV CCPP	GPPC (GSPC-Pipavav Power Comp. Ltd.)	GUJARAT
13	DHUVARAN CCPP (STAGE II and III)	GSECL	GUJARAT
14	HAZIRA CCPP	GSEG	GUJARAT
15	HAZIRA CCPP EXT	GSEG	GUJARAT
16	UTRAN CCPP	GSECL	GUJARAT
17	URAN CCPP	MAHAGENCO	MAHARASHTRA
18	GODAVARI (JEGURUPADU)	APEPDCL	ANDHRA PRADESH
IPP			
19	GAMA CCPP	Gama Infraprop Pvt. Ltd.	UTTARAKHAND
20	SRAVANTHI CCPP	Sravanthi Energy Pvt. Ltd.	UTTARAKHAND
21	TROMBAY CCPP	Tata Power Comp. Ltd.	MAHARASHTRA
22	SUGEN CCPP	Torrent Power Ltd.	GUJARAT

23	UNOSUGEN CCPP	Torrent Power Ltd.	GUJARAT
List of Gas based generating stations having no-PPAs			
1	DGEN Mega CCPP	Torrent Power Ltd.	GUJARAT
2	KONDAPALLI EXTN CCPP	LANCO Kondapalli Power Pvt. Ltd.	ANDHRA PRADESH
3	DHUVARAN CCPP (STAGE I)	GSECL	GUJARAT



ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)



[formerly Power System Operation Corporation Limited (POSOCO)]

राष्ट्रीय भार प्रेषण केन्द्र / National Load Despatch Centre

कार्यालय : बी-9, प्रथम एवं द्वितीय तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016
Office : 1st and 2nd Floor, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi -110016
CIN : U40105DL2009GOI188682, Website : www.grid-india.in, E-mail : gridindiacc@grid-india.in, Tel.: 011- 42785855

Ref: NLDC/MO/DSM-2024/170

11th November 2024

To

Heads of RLDCs

Subject: Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024 (Statement for Legacy Dues)

Sir,

The CERC (Deviation Settlement Mechanism and Related Matters) Regulations, 2024 came into effect from 16.09.2024. In compliance of the Regulation No. 9(7), NLDC has prepared a procedure for Recovery of charges in case of deficit in the Deviation and Ancillary Service Pool Accounts which has been approved by the Hon'ble Commission on 15.10.2024.

The procedure also incorporates methodology for recovery of legacy dues with reference to the Deviation and Ancillary Service pool accounts for the period prior to 16.09.2024... Relevant extracts from the procedure are quoted below;

Quote

"9(2) NLDC shall publish the net deficit recovery statement for the period prior to 16.09.24 as per Format Net shortfall Recovery Legacy Dues. The net shortfall shall be recovered in equal instalments on a weekly basis in such a way that the total shortfall for the period prior to 16.09.2024 shall be recovered by the end of the financial year 2024-25."

Unquote

In line with the detailed procedure, the statement for legacy dues namely, "NLDC: Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024" has been prepared and enclosed as Annexure-1. The instalment details and due date of payment for each instalment is enclosed as Annexure-2.

As mentioned in the procedure, apportionment of legacy dues amongst the drawee DICs has been made in the ratio of [50% in proportion to their drawal at the ISTS periphery] and [50% in proportion to their GNA].

Accordingly, details of average GNA value and GNA for the period Oct'23 to Sept'24 as per notification of Transmission charges payable by DICs is enclosed as Annexure-3 and Annexure-4 respectively. Details of Drawl (excluding injection) for Drawee DICs for the period 16.09.2023 to 15.09.2024 is enclosed as Annexure-5.

Details of legacy dues shortfall in the Deviation and Ancillary Service pool accounts is enclosed as Annexure-6.

You are kindly requested to intimate this to all the concerned DSM pool members and convey the Drawee DICs to pay the amount in time as mentioned in Annexure-2. If payments by the drawee DICs are delayed beyond ten (10) days from the instalment date, the drawee DICs shall be liable to pay simple interest @ 0.04% for each day of delay.

Further, it may be conveyed that the Drawee DICs shall not net off amounts pertaining to legacy dues instalments with any other statements pertaining to the Deviation and Ancillary Services pool or any such other amounts.

Thanking You,
Sincerely yours,



(S Usha)
CGM I/C, NLDC

Enclosed within:

1. Annexure-1: NLDC Statement for Legacy Dues dated 11.11.2024
2. Annexure-2: Instalment details and due date of payment
3. Annexure-3: Details of average GNA value for the period Oct'23 to Sept'24
4. Annexure-4: Details of GNA for the period Oct'23 to Sept'24
5. Annexure-5: Details of Drawl (excluding injection) for the period 16.09.2023 to 15.09.2024
6. Annexure-6: Details of legacy dues shortfall in the Deviation and Ancillary Service pool accounts

Copy for kind information:

1. CMD, Grid-India
2. Director (SO), Grid-India
3. Director (MO), Grid-India

NLDC: Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024 (Legacy Dues)

Annexure-1

Date: 11-11-2024

Net shortfall Amount in all regional Deviation & Ancillary Services Pool Accounts prior to 16.09.2024 (Rs.) (A)	31,42,05,43,772.00
50% Recovery in proportion to the drawl at the ISTS periphery (Rs.) (B)	16,71,02,71,686.00
50% Recovery in proportion to the GNA (Rs.) (C)	15,71,02,71,686.00
Period considered for Actual drawl at the ISTS periphery:	16.09.2023 to 15.09.2024
Period considered for averaging GNA from notification of Transmission charges payable by DTCs:	Oct'23 to Sept'24
Number of instalments to be divided into (D)	20

S.No.	State/Devtee DTC	Region	Actual Drawl (MW) (F)	Average GNA (MW) (F)	50% in proportion to Actual Drawl (Rs.) (D = B * F / X F)	50% in proportion to average GNA (Rs.) (H = C * F / Y F)	Total Recovery (Rs.) (I = D + H)	Per Instalment Amount (Rs.) (J = I / D)
1	GUJARAT	WR	66,752.47	31,741.34	1,17,17,14,520.00	1,11,79,73,409.00	2,28,96,87,929.00	13,64,84,367.00
2	UP	NR	65,393.14	30,312.70	1,31,89,03,700.00	1,34,04,06,020.00	2,66,53,67,413.00	13,42,68,371.00
3	MAHARASHTRA	WR	60,520.16	9,524.22	1,40,87,03,604.00	1,37,70,48,737.00	2,87,78,11,973.00	13,58,90,584.00
4	TAMIL NADU	SR	66,415.20	0,177.00	1,37,85,75,117.00	1,11,77,07,601.00	2,59,62,86,758.00	12,88,14,338.00
5	MP	WR	55,605.28	36,218.31	1,12,34,10,646.00	1,36,91,49,895.00	2,48,55,50,341.00	12,46,77,957.00
6	TELANGANA	SR	43,947.66	6,340.00	88,55,01,565.00	81,47,74,775.00	1,70,02,25,540.00	8,50,11,282.00
7	HARYANA	NR	47,283.10	5,418.00	95,17,07,225.00	71,89,71,941.00	1,67,16,78,816.00	8,35,81,421.00
8	RAJASTHAN	NR	35,212.06	5,757.67	70,94,87,628.00	70,30,91,988.00	1,47,34,79,616.00	7,36,73,961.00
9	PUNJAB	NR	36,649.96	5,499.90	73,34,90,579.00	72,57,99,735.00	1,46,07,60,314.00	7,34,18,016.00
10	BHAR	ER	38,577.89	5,043.00	76,74,56,641.00	68,51,61,974.00	1,40,65,37,015.00	7,03,26,851.00
11	KARNATAKA	SR	34,511.91	4,970.00	69,13,60,588.00	66,65,44,782.00	1,35,58,35,370.00	6,77,91,769.00
12	DELHI	NR	32,546.43	4,810.00	65,17,78,285.00	63,82,44,813.00	1,29,48,23,118.00	6,47,41,154.00
13	ANDHRA PRADESH	SR	26,602.44	4,616.00	53,40,12,724.00	69,92,33,985.00	1,13,52,46,409.00	5,67,62,320.00
14	WB	ER	28,235.61	3,628.00	46,77,27,281.00	46,81,34,736.00	93,58,62,017.00	4,67,93,100.00
15	CSEB	WR	20,303.49	3,453.00	40,60,87,390.00	45,81,80,887.00	86,44,70,777.00	4,32,23,514.00
16	KTRALA	SR	23,686.08	2,679.00	47,46,47,018.00	36,54,79,669.00	84,03,27,777.00	4,10,16,389.00
17	GOSSHA	ER	14,299.01	2,157.75	28,75,41,469.00	26,63,14,545.00	57,41,56,014.00	2,87,12,801.00
18	JK & LADAKH	NR	14,776.12	1,977.00	29,76,49,510.00	26,23,30,681.00	54,99,80,113.00	2,74,99,008.00
19	Assam	NR	10,386.57	1,714.50	20,82,81,104.00	22,74,59,148.00	43,67,44,252.00	2,18,37,213.00
20	UTTARANCHAL	NR	10,184.44	1,482.00	20,44,07,784.00	18,00,25,133.00	38,44,40,917.00	1,92,22,043.00
21	JHARKHAND	ER	10,179.88	1,345.00	20,48,33,010.00	17,84,69,731.00	38,34,02,741.00	1,91,70,137.00
22	ORISSA	WR	10,571.96	1,286.00	21,36,14,777.00	15,67,17,998.00	36,77,12,775.00	1,83,86,639.00
23	HIMACHAL	NR	9,992.52	1,134.21	19,98,44,873.00	15,94,96,522.00	37,14,44,395.00	1,85,72,220.00
24	GOA, WR	WR	4,282.35	583.00	8,46,71,175.00	5,67,43,599.00	15,14,14,774.00	75,70,844.00
25	PONDICHERY	SR	3,340.19	540.00	6,73,01,489.00	7,16,53,275.00	13,89,54,764.00	69,47,738.00
26	AMRSE, WR	WR	2,964.62	583.00	5,87,34,228.00	7,47,66,174.00	13,44,39,402.00	67,21,970.00
27	DVC	SR	-	950.00	-	12,66,52,895.00	12,66,52,895.00	63,40,642.00
28	BALCO, Load, WR	WR	4,587.10	-	9,20,22,538.00	-	9,20,22,538.00	46,01,127.00
29	CHANDGARH	NR	1,976.63	342.00	3,95,15,645.00	4,53,86,480.00	8,51,95,453.00	42,59,775.00
30	Tripura	NR	1,666.82	311.00	3,33,63,139.00	4,12,96,979.00	7,46,30,118.00	37,31,508.00
31	Meghalaya	NR	1,107.30	228.00	2,21,11,032.00	3,15,89,518.00	5,36,01,550.00	26,84,877.00
32	Manipur	NR	1,017.40	204.00	2,04,09,580.00	2,79,99,015.00	4,75,68,595.00	23,78,438.00
33	Railways-NR-ISTS-UP	NR	1,405.82	120.00	2,81,19,793.00	1,72,49,863.00	4,55,69,656.00	22,78,483.00
34	Arunachal	NR	967.88	179.00	1,94,87,895.00	2,38,18,075.00	4,33,18,970.00	21,65,797.00
35	Nagaland	NR	864.74	159.00	1,74,23,672.00	1,85,10,409.00	3,59,34,081.00	17,96,705.00
36	GOA, SR	SR	811.54	102.00	1,62,56,636.00	1,36,00,683.00	3,19,67,489.00	15,98,374.00
37	Mizoram	NR	482.40	157.00	97,15,443.00	1,07,68,766.00	2,05,75,399.00	10,28,775.00
38	SKEPM	ER	540.69	111.00	1,08,34,248.00	1,47,28,725.00	2,56,33,477.00	12,81,154.00
39	SCR	ER	51.52	25.00	10,38,057.00	26,53,625.00	36,91,682.00	1,84,594.00
40	PG-HVDC-NR	NR	57.29	0.00	11,54,090.00	10,81,538.00	22,35,628.00	1,11,781.00
41	HVDCSR	SR	48.28	0.14	9,72,010.00	8,14,383.00	17,87,393.00	89,385.00
42	PG-HVDC-WR	WR	48.70	5.00	9,75,087.00	6,03,456.00	15,83,543.00	79,177.00
43	SAPC	WR	37.90	5.00	7,58,540.00	6,03,456.00	14,22,004.00	71,100.00
44	NFT	NR	26.41	-	5,32,116.00	-	5,32,116.00	26,605.00
45	HVDC_BVC	NTR	8.68	1.20	1,62,783.00	1,55,239.00	3,22,023.00	16,101.00
46	HVDC_APD	ER	5.92	1.20	1,19,787.00	1,55,239.00	2,79,027.00	13,951.00
47	HVDC_SASARAM	ER	6.25	0.80	1,25,101.00	1,05,153.00	2,33,254.00	11,613.00
	Total		7,79,704.69	1,18,387.20	15,71,82,71,888.00	15,71,82,71,888.00	31,42,05,43,772.00	1,57,10,27,384.00

Note:

- Prepared in compliance with the CERC DSM Regulations, 2024 (w.e.f. 16.09.2024) & CERC approved "Detailed Procedure for recovery of charges in case of deficit in the Deviation and Ancillary Service Pool Account" (w.e.f. 15.10.2024) available at <https://cercind.gov.in/Regulations/Approved-Procedure-deficit-DSM-Pool.pdf>
- Instalment details and due date of payment for each instalment is enclosed as Annexure-2.
- Instalments not to be set off with any other statement pertaining to the DSM pool or any such other amounts.
- Details of average GNA value and GNA over Oct'23 to Sept'24 as per notification of Transmission charges payable by DTCs is enclosed as Annexure-3 & Annexure-4 respectively.
- Details of Drawl (excluding injection) for Drawee DTCs for the period 16.09.2023 to 15.09.2024 is enclosed as Annexure-5.
- Details of legacy dues shortfall (A) region-wise is enclosed as Annexure-6.
- GNA of GOA have been divided between GOA, WR & GOA, SR based on GNA Inside Region & GNA Outside Region respectively as per details available on CTE website (<https://ctel.in/gna2022updates>) as the same is used for RLDC Fees & Charges calculations.
- PG-HVDC-ER's 2 MW GNA is combinedly used by HVDC_APD & HVDC_SASARAM, the same is bifurcated into 1.2 MW & 0.8 MW GNA respectively, as the same ratio of 60:40 is used for RLDC Fees & Charges calculations for both HVDCs.


 (S. Usha)
 Chief General Manager
 NLDC

Instalment date and due date of payment by Drawee DICs		
Instalment Number	Instalment Date	Due date of payment by Drawee DICs
1	11-11-2024	21-11-2024
2	18-11-2024	28-11-2024
3	25-11-2024	05-12-2024
4	02-12-2024	12-12-2024
5	09-12-2024	19-12-2024
6	16-12-2024	26-12-2024
7	23-12-2024	02-01-2025
8	30-12-2024	09-01-2025
9	06-01-2025	16-01-2025
10	13-01-2025	23-01-2025
11	20-01-2025	30-01-2025
12	27-01-2025	06-02-2025
13	03-02-2025	13-02-2025
14	10-02-2025	20-02-2025
15	17-02-2025	27-02-2025
16	24-02-2025	06-03-2025
17	03-03-2025	13-03-2025
18	10-03-2025	20-03-2025
19	17-03-2025	27-03-2025
20	24-03-2025	03-04-2025



Details of average GNA value over Oct'23 to Sept'24 as per notification of Transmission charges payable by DICs			
S. No.	Drawee DIC	Region	Average GNA over Oct'23 to Sept'24
1	Delhi	NR	4810.00
2	UP	NR	10312.70
3	PUNJAB	NR	5499.98
4	Haryana	NR	5418.00
5	Chandigarh	NR	342.00
6	Rajasthan	NR	5757.67
7	HIMACHAL	NR	1134.21
8	JK & LADAKH	NR	1977.00
9	Uttarakhand	NR	1402.00
10	Railways-NR-ISTS-UP	NR	130.00
11	PG-HVDC-NR	NR	8.00
12	Gujarat	WR	11741.34
13	MP	WR	10318.31
14	Maharashtra	WR	9624.22
15	CSEB	WR	3453.00
16	GOA_WR	WR	503.00
17	DNH&DD	WR	1166.00
18	AMNSIL_WR	WR	563.00
19	PG_HVDC_WR	WR	5.00
20	BARC	WR	5.00
21	Andhra Pradesh	SR	4516.00
22	Telangana	SR	6140.00
23	Tamil Nadu	SR	9177.00
24	Kerala	SR	2679.00
25	Karnataka	SR	4978.06
26	Pondicherry	SR	540.00
27	HVDCSR	SR	6.14
28	GOA_SR	SR	102.50
29	WB	ER	3528.00
30	Odisha	ER	2157.75
31	Bihar	ER	5043.00
32	Jharkhand	ER	1345.00
33	Sikkim	ER	111.00
34	DVC	ER	956.00
35	ECR	ER	20.00
36	PG_HVDC_ER	ER	2.00
37	Arunachal	NER	179.50
38	Assam	NER	1714.50
39	Manipur	NER	204.00
40	Meghalaya	NER	238.00
41	Mizoram	NER	137.61
42	Nagaland	NER	139.50
43	Tripura	NER	311.00
44	HVDC_BNC	NER	1.20
Total			118397.20



[illegible]

U.S. Bank

Annexure-6

All amounts in Rs.

Total shortfall amount payable to the regional entities excluding IR on Accrual Basis for RPCs statements period prior 16.09.2024				
Region	DSM Charges (A)	AS-SCUC (as per Format SCUC_BB & SCUC_CC) (B)	Reactive Charges (C)	Congestion charge (D)
NR	-96,41,70,896.00	-8,35,84,62,646.00	-13,40,37,277.00	-
WR	-1,77,60,25,862.00	-17,03,44,17,588.00	-1,31,73,58,687.00	-1,12,67,354.00
SR	-32,97,61,737.00	-3,96,80,00,393.00	-	-
ER	2,52,27,58,913.00		7,19,761.00	-
NER	-5,25,20,006.00	-	-	-
Total	-59,97,19,598.00	-29,35,88,80,627.00	-1,45,06,76,203.00	-1,12,67,354.00
Net (E= A+B+C+D)				
				-9,45,46,70,819.00
				-20,13,90,69,491.00
				-4,29,77,62,130.00
				2,52,34,78,674.00
				-5,25,20,006.00
				-31,42,05,43,772.00

Receivable (+) in / Payable (-) from the pool account



ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)



[formerly Power System Operation Corporation Limited (POSOCO)]

राष्ट्रीय भार प्रेषण केन्द्र / **National Load Despatch Centre**

कार्यालय : बी-9, प्रथम एवं द्वितीय तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016
Office : 1st and 2nd Floor, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110016
CIN : U40105DL2009GOI188682, Website : www.grid-india.in, E-mail : gridindiacc@grid-india.in, Tel.: 011- 42785855

NLDC/DSM/Deficit Recovery/2025/

Date: 13th January'2025

To
As per distribution list

Subject: Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for the period from 16.09.24 to-22.12.24

Ref: 1. CERC: Order No. L-1/260/2021/CERC dated 15th October 2024.

2. CERC: Order in Petition No. 01/SM/2025 dated 08.01.2025

Dear Sir,

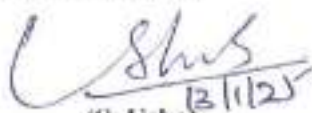
In compliance with provisions of CERC approved "Detailed Procedure for recovery of charges in case of deficit in the Deviation and Ancillary Service Pool Account", please find attached the "Net Deviation & Ancillary Services Pool Account Deficit Recovery statement" issued by NLDC for the period from 16.09.24 to 22.12.24.

The Statement is enclosed as Annexure-1 along with the detail of calculation.

Accordingly, the constituents/SLDCs are requested to make payments in their respective regional Deviation and Ancillary Service Pool Account within ten (10) days from the date of issue of the statement by NLDC. In case of delay/default the defaulting constituents shall be liable to pay simple interest @ 0.04 % for each day of delay.

Thanking you,

Sincerely yours,


(S. Usha)

Executive Director(NLDC)

Enclosures: As above

NLDC: Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for deficit in pool upto week ending 22.12.2024 for statements from period 16.09.2024

Annexure-1

Date: 13-01-2025

Net shortfall Amount in all regional Deviation & Ancillary Services Pool Accounts upto week ending 22.12.2024 for statements from period 16.09.2024 (Rs.) (A)	1,99,05,70,148
50% Recovery in proportion to the draw at the ISTS periphery (Rs.) (B)	95,32,89,424
50% Recovery in proportion to the GNA (Rs.) (C)	96,32,89,424
Period considered for Actual draw at the ISTS periphery (D)	01.04.2024 to 29.09.2024 14.10.2024 to 20.10.2024 21.10.2024 to 27.10.2024 28.10.2024 to 03.11.2024 11.11.2024 to 17.11.2024 18.11.2024 to 24.11.2024 16.12.2024 to 22.12.2024
Period considered for averaging GNA from notification of Transmission charges payable by DTCs	April 24 to Nov/24

S. No.	State/Drawee DTC	Region	Actual Draw (MW) (E)	Average GNA (MW) (F)	50% in proportion to Actual Draw (Rs.) (G = B * E / F)	50% in proportion to average GNA (Rs.) (H = C * F / F)	Total Recovery (Rs.) (I = G + H)
1	UP	NR	50,743.27	19,389.61	9,67,77,399	9,16,17,465	17,43,94,863
2	GUJARAT	WR	36,213.48	12,870.46	8,96,66,213	9,96,27,089	16,10,93,302
3	MAHARASHTRA	WR	42,682.93	9,045.76	8,05,69,397	7,37,68,181	15,60,28,500
4	TAMIL NADU	SR	41,834.88	9,177.86	7,87,68,258	7,29,85,812	15,18,54,070
5	HP	WR	32,798.36	30,587.16	6,84,70,254	8,31,62,692	14,26,32,946
6	HARYANA	NR	34,339.40	5,418.09	6,34,94,798	4,25,58,671	10,60,22,969
7	PUNJAB	NR	29,908.03	5,506.23	5,78,42,383	4,37,43,696	10,82,86,338
8	TELANGANA	SR	24,669.84	6,148.09	4,78,46,312	4,62,30,019	9,52,76,336
9	BIHAR	ER	37,695.82	6,243.09	5,03,60,703	3,86,13,027	9,27,26,760
10	RAJASTHAN	NR	27,042.96	5,767.00	4,20,48,261	4,53,00,085	8,73,48,346
11	DELHI	NR	23,618.17	4,819.60	4,50,44,472	3,77,62,880	8,28,27,277
12	KARNATAKA	SR	15,763.26	9,413.45	3,00,63,601	4,29,22,893	7,29,86,492
13	ANDHRA PRADESH	SR	12,818.97	4,516.09	2,46,39,086	3,54,75,435	6,01,14,521
14	WB	ER	16,823.95	3,562.50	3,16,97,486	2,79,65,072	5,96,62,570
15	ODISHA	WR	13,988.79	3,606.09	2,66,63,139	2,77,76,464	5,44,39,603
16	KERALA	SR	13,488.40	2,678.02	2,57,25,617	2,10,43,086	4,67,68,701
17	GOA	WR	9,562.70	2,268.38	1,82,37,899	1,69,69,056	3,52,07,297
18	JK & Ladakh	NR	7,182.81	1,977.00	1,39,86,417	1,55,70,408	2,92,27,385
19	Assam	NR	7,378.02	1,999.00	1,39,86,417	1,49,24,548	2,80,14,499
20	IMPHAL-MAID	ER	6,978.88	1,580.00	1,33,10,040	1,24,10,962	2,57,21,031
21	UTTARANCHAL	NR	6,193.67	1,922.00	1,16,40,980	1,10,12,780	2,26,53,033
22	DNV-SDO	WR	8,638.71	1,208.98	1,39,86,417	94,73,169	2,21,26,423
23	HIMACHAL	NR	2,103.82	1,483.94	49,12,382	90,24,064	1,39,37,286
24	GOA, WB	WR	2,575.23	865.00	49,11,582	45,43,644	90,55,348
25	PONDICHERRY	SR	2,158.38	546.00	41,16,337	42,71,728	83,59,888
26	ANISIL WB	WR	1,886.28	863.00	31,77,322	44,22,394	75,99,716
27	DVC	ER	-	958.00	-	75,19,430	75,19,430
28	BALCO-LOAD WB	WR	2,839.02	-	53,80,970	-	53,80,970
29	CHANDIGARH	NR	1,401.50	943.94	26,73,000	26,86,429	53,59,429
30	Tripura	NR	1,213.80	311.00	23,13,482	24,42,801	47,56,413
31	Reliance Industries	WR	13.38	500.00	75,189	39,97,628	39,97,715
32	Arumachal	NR	554.00	225.00	10,75,719	17,67,387	28,43,106
33	Railways- NR-STS-UP	NR	937.82	130.00	17,88,377	19,21,163	36,09,540
34	Mizoram	NR	616.51	284.00	11,75,880	16,02,421	27,78,349
35	Meghalaya	NR	468.81	238.00	8,86,484	18,60,502	27,56,986
36	Nagaland	NR	550.94	145.00	10,62,190	11,38,983	22,01,173
37	GOA, SR	SR	815.75	120.00	11,73,006	9,42,694	21,15,700
38	Mizoram	NR	218.80	180.00	4,17,296	11,73,298	15,90,593
39	SKOP	ER	311.22	111.00	5,34,517	8,71,911	14,06,428
40	EDR	ER	33.28	20.00	63,669	1,67,911	2,38,570
41	PG-HVDC-NR	NR	61.86	8.00	79,829	67,848	1,47,677
42	PG-HVDC-SR	SR	29.22	8.15	85,724	49,109	1,34,833
43	PG-HVDC-WR	WR	76.64	5.88	50,883	39,375	90,258
44	BARC	WR	34.70	5.88	47,980	39,375	87,355
45	NPT	NR	17.76	-	39,989	-	39,989
46	HVDC-BVC	NR	5.38	1.20	39,223	9,426	48,649
47	HVDC-APD	ER	4.21	1.20	8,634	9,426	17,400
48	HVDC-SASARAM	ER	3.76	0.80	7,549	6,384	13,933
	Total		4,98,838.15	1,31,880.34	95,32,89,494	95,32,89,424	1,99,05,78,918

Note:

- Prepared in compliance with the CERC DSM Regulations, 2024 & CERC approved "Detailed Procedure for recovery of charges in case of deficit in the Deviation and Ancillary Services Pool Account" (w.e.f. 15.10.2024) available at <https://cercind.gov.in/regulations/Approved-Procedure-deficit-DSM-Pool.pdf>
- Details of weekly surplus/deficit in pool (A) upto week ending 22.12.2024 is enclosed as Annexure-2.
- Amounts not to be net off with any other statement pertaining to the DSM pool or any such other amounts.
- Details of average GNA value & GNA over April 24 to Nov/24 as per notification of Transmission charges payable by DTCs are enclosed as Annexure-3 & Annexure-4 respectively.
- Details of Drawal (excluding injection) for Drawee DTCs for period mentioned in (D) are enclosed as Annexure-5.
- GNA of GOA have been divided between GOA, WR & GOA, SR based on GNA Inside Region & GNA Outside Region respectively as per details available on GTU website (<https://gtu.in/gna2022updates>) as the same is used for RLDC Fees & Charges calculations.
- PG-HVDC-ER's 2 MW GNA is combinedly used by HVDC-APD & HVDC-SASARAM, the same is bifurcated into 1.2 MW & 0.8 MW GNA respectively, as the same ratio of 60:40 is used for RLDC Fees & Charges calculations for both HVDCs.

(S. Thiru)
Executive Director
NLDC

Receivable (+) in / Payable (-) from the pool account

All amounts in Rs.

Net Deficit(-) / Surplus(+) from all accounts on accrual basis for the week										
Week No.	From	To	NR	WR	SR	ER	NER	Net Deficit(-) / Surplus(+) (Rs.)	PX Congestion Revenue transferred to DSM Pool	Upto the week status
25	18-09-2024	22-09-2024	-9,55,44,336	-12,90,18,120	26,74,70,588	8,26,07,127	8,47,66,056	21,02,90,316	1,41,83,31,504	1,62,86,21,619
26	23-09-2024	29-09-2024	-13,61,09,105	-76,81,84,172	35,72,95,544	18,09,48,536	90,43,064	-37,70,06,133		1,25,16,16,486
27	30-09-2024	06-10-2024	-39,51,81,079	-71,73,07,351	49,47,08,265	14,52,91,315	1,26,49,046	-45,98,19,804		79,17,95,683
28	07-10-2024	13-10-2024	9,60,94,666	-54,42,55,558	-22,44,22,773	-31,07,452	-1,72,54,096	-69,90,15,183		9,27,80,500
29	14-10-2024	20-10-2024	21,43,27,779	-8,19,93,535	-26,43,48,529	4,16,49,078	-26,09,270	-9,29,74,477		-1,93,978
30	21-10-2024	27-10-2024	4,06,24,786	-1,93,97,224	-31,96,27,212	6,36,37,296	45,13,745	-23,02,48,647		-23,04,42,626
31	28-10-2024	03-11-2024	-6,10,68,225	-2,27,87,459	-3,48,91,115	6,83,04,217	-53,55,527	-9,57,98,109		-26,82,40,734
32	04-11-2024	10-11-2024	-18,74,50,659	14,31,02,267	23,87,35,646	-2,77,44,950	53,92,900	17,03,35,204		-11,62,86,630
33	11-11-2024	17-11-2024	-14,45,32,880	-13,44,40,262	10,80,38,087	-7,32,31,972	5,44,618	-24,66,22,408		-36,28,27,938
1 to 25	01-04-2024	29-09-2024	-1,90,78,27,169	0	0	0	0	-1,90,78,27,169		-2,27,06,86,167
34	18-11-2024	24-11-2024	-35,54,15,534	-1,33,33,944	13,09,99,729	3,30,07,663	2,89,24,989	-17,98,21,107		-2,46,04,76,214
35	25-11-2024	01-12-2024	-7,80,32,388	5,97,33,834	29,76,30,878	6,32,93,524	2,87,53,962	36,93,84,810		-2,09,10,91,464
36	02-12-2024	08-12-2024	-20,36,97,958	13,72,82,884	4,48,46,554	16,06,65,132	1,86,93,491	15,77,09,103		-1,92,33,82,301
37	09-12-2024	15-12-2024	10,66,96,716	-21,87,73,391	38,91,77,371	18,92,60,289	1,79,46,748	46,71,47,731	1,60,55,241	-1,44,01,79,329
38	16-12-2024	22-12-2024	-11,33,08,033	-1,33,23,18,368	66,66,66,678	9,89,39,339	1,36,19,956	-46,60,96,519		-1,90,66,78,848

Statement wise break-up for Pool (on all India basis)						
Week No.	From	To	DSM	AS+SCUC	Reactive	Congestion charge
25	18-09-2024	22-09-2024	1,29,65,91,297	-1,01,25,15,414	-6,77,85,030	0
26	23-09-2024	29-09-2024	1,47,32,66,869	-1,78,06,14,856	-6,96,58,146	0
27	30-09-2024	06-10-2024	65,45,48,152	-1,03,72,92,297	-7,70,75,659	0
28	07-10-2024	13-10-2024	49,27,23,652	-1,10,75,47,310	-8,41,91,525	0
29	14-10-2024	20-10-2024	71,35,85,222	-73,84,16,546	-6,61,43,153	0
30	21-10-2024	27-10-2024	41,24,53,626	-58,50,66,583	-5,76,15,692	0
31	28-10-2024	03-11-2024	72,80,11,998	-72,19,53,783	-6,18,76,324	0
32	04-11-2024	10-11-2024	55,26,48,736	-33,75,31,891	-4,52,81,841	0
33	11-11-2024	17-11-2024	72,69,48,069	-91,90,08,741	-5,45,59,736	0
1 to 25	01-04-2024	29-09-2024	0	-1,96,78,27,169	0	0
34	18-11-2024	24-11-2024	66,75,36,194	-79,01,19,575	-5,72,37,726	0
35	25-11-2024	01-12-2024	71,11,41,614	-28,40,90,246	-5,76,66,556	0
36	02-12-2024	08-12-2024	23,88,72,766	-1,97,77,471	-7,03,96,193	0
37	09-12-2024	15-12-2024	41,42,93,084	10,78,32,547	-6,49,77,900	0
38	16-12-2024	22-12-2024	1,52,88,66,290	-1,94,37,13,800	-4,95,52,009	0

Shub
13/12/25

Details of average GNA value over April'24 to Nov'24 as per notification of Transmission charges payable by DICs			
S. No.	Drawee DIC	Region	Average GNA value
1	Delhi	NR	4810.00
2	UP	NR	10389.81
3	PUNJAB	NR	5505.23
4	Haryana	NR	5418.00
5	Chandigarh	NR	342.00
6	Rajasthan	NR	5757.00
7	HIMACHAL	NR	1148.94
8	JK & LADAKH	NR	1977.00
9	Uttarakhand	NR	1402.00
10	Railways-NR-ISTS-UP	NR	130.00
11	PG-HVDC-NR	NR	8.00
12	Gujarat	WR	12670.46
13	MP	WR	10587.16
14	Maharashtra	WR	9645.78
15	CSEB	WR	3536.00
16	GOA_WR	WR	553.00
17	DNH&DD	WR	1206.00
18	AMINSIL_WR	WH	563.00
19	PG_HVDC_WR	WR	5.00
20	BARC	WR	5.00
21	Reliance Industries	WR	500.00
22	Andhra Pradesh	SR	4516.00
23	Telangana	SR	6140.00
24	Tamil Nadu	SR	9177.00
25	Kerala	SR	2679.00
26	Karnataka	SR	5413.45
27	Pondicherry	SR	540.00
28	HVDCSR	SR	6.15
29	GOA_SR	SR	120.00
30	WB	ER	3552.50
31	Odisha	ER	2160.38
32	Bihar	ER	5043.00
33	Jharkhand	ER	1580.00
34	Sikkim	ER	111.00
35	DVC	ER	956.00
36	ECR	ER	20.00
37	PG_HVDC_ER	ER	2.00
38	Arunachal	NER	225.00
39	Assam	NER	1900.00
40	Manipur	NER	204.00
41	Meghalaya	NER	238.00
42	Mizoram	NER	150.00
43	Nagaland	NER	145.00
44	Tripura	NER	311.00
45	HVDC_BNC	NER	1.20
	Total		121360.04



13/11/25

[illegible]



ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
भारत सरकार का उद्यम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)

[formerly Power System Operation Corporation Limited (POSOCO)]

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जीत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110016

Office : 18-A, Shaheed Jeet Singh Sansarwal Marg, Katwaria Sarai, New Delhi-110016

CIN: U40105DL2009GOI188682, Website : www.nrdc.in, E-mail : nrdc@grid-india.in, Tel: 011 26519408, 26523889, Fax: 011 26852747

संदर्भ संख्या: NRLDC/MO/Outstanding/ 222

दिनांक: 24 जून 2025

सेवा मे

प्रबंध निदेशक, जेकेपीसीएल,

एस.एल.डी.सी. भवन, प्रथम तल,

ग्लैडनी ग्रिड स्टेशन,

नानवाल बाला, जम्मू - 180004

To

The Managing Director

JKPCL, SLDC Building,

1st Floor Gladni Grid Station,

Nanval Bala, Jammu-180 004

विषय: उत्तरी क्षेत्रीय वैधानिक पूल खातों के विरुद्ध बकाया भुगतान के निस्तारण हेतु।

Sub: Release of outstanding payment against NR Statutory Pool Accounts - Reg.

Ref: 1) NRLDC Letter Ref No. 1) NRLDC/ MO/Pool/03-10 Dt: 02/01/2024, to CE (SLDC), JKPCL

2) NRLDC/ MO/Pool/56-63 Dt: 24/01/2024, to CE (SLDC), JKPCL

3) NRLDC/ MO/Outstanding /89-96 Dt: 13/02/2024, to CE (SLDC), JKPCL

4) NRLDC/ MO/Outstanding /31-139 Dt: 02/04/2024, to CE (SLDC), JKPCL

5) NRLDC/ MO/Outstanding /183-191 Dt: 03/05/2024, to CE (SLDC), JKPCL

6) NRLDC/ MO/Outstanding /210-216 Dt: 20/05/2024, to MD, JKPCL

7) NRLDC/ MO/Outstanding /394-401 Dt: 01/07/2024, to CE (SLDC), JKPCL

8) NRLDC/ MO/Outstanding /430-438 Dt: 05/08/2024, to CE (SLDC), JKPCL

9) NRLDC/ MO/Outstanding / Dt: 10/10/2024, to CE (SLDC), JKPCL

10) NRLDC/ MO/Outstanding /523-531 Dt: 30/10/2024, to CE (SLDC), JKPCL

11) NRLDC/ MO/Outstanding /564-573 Dt: 12/12/2024, to CE (SLDC), JKPCL

12) NRLDC/ MO/Outstanding /578 Dt: 20/12/2024, to MD, JKPCL

13) NRLDC/ MO/Outstanding /597 Dt: 14/01/2025, to CE (SLDC), JKPCL

14) NRLDC/ MO/Outstanding /640 Dt: 14/02/2025, to CE (SLDC), JKPCL

15) NRLDC/ MO/Outstanding /669 Dt: 19/03/2025, to MD, JKPCL

16) NRLDC/ MO/Outstanding /699 Dt: 16/04/2025, to MD, JKPCL

17) NRLDC/ MO/Outstanding / Dt: 21/05/2025, to MD, JKPCL

महोदय/Sir,

जैसा कि आपको विदित है, उ.क्ष.भा.प्रे.के. "उत्तरी क्षेत्रीय पूल खाता" का संचालन और रख-रखाव कर रहा है, जिसमें विचलन शुल्क (Deviation Charges), रिएक्टिव ऊर्जा शुल्क (Reactive Energy Charges), और कंजेशन शुल्क (Congestion Charges) सम्मिलित हैं, जो विभिन्न CERC विनियमों के अंतर्गत संचालित होते हैं। विनियमों के अनुसार, वैधानिक पूल खातों में भुगतान को उच्च प्राथमिकता दी गई है, और संबंधित उपयोगिताओं को साप्ताहिक ऊर्जा खाता जारी होने की तिथि से दस दिनों के भीतर भुगतान करना आवश्यक है।

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have high priority and the concerned utilities are required to pay the indicated amounts within ten days of issue of the weekly energy account by NRPC Secretariat.

पंजीकृत कार्यालय : बी- 9, प्रथम तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016

Registered Office : B-9, 1st Floor, Qutab Institutional Area, Katwaria Sarai, New Delhi- 110016

कृपया रा.भा.प्रे.के. के पत्र दिनांक 11/11/2024 एवं 13/01/2025 का भी संदर्भ है, जिसमें 16.09.2024 से पहले की अवधि (Legacy dues) और 16.09.2024 से 22.12.2024 की अवधि के लिए "नेट विचलन एवं सहायक सेवाओं के पूल खाता घाटा वसूली" के भुगतान की बात की गई थी। यह बयान CERC द्वारा अनुमोदित "Deviation Settlement Mechanism Regulations, 2024" के अनुसार, आदेश संख्या L-1/260/2021/CERC दिनांक 15 अक्टूबर 2024 और स्वतः संज्ञान आदेश संख्या 01/SM/2025 दिनांक 08/01/2024 के तहत जारी किया गया था।

इस सन्दर्भ में यह पाया गया है कि जम्मू एवं कश्मीर राज्य की ओर से लेगेसी बकाया की पूल घाटा वसूली की सभी सत्रह (17) किश्तों का भुगतान, साथ ही 13/01/2025 के NLDC विवरण के अनुसार पूल घाटा वसूली का भुगतान, अभी तक लंबित है। इसके अतिरिक्त, फरवरी 2024 से विचलन शुल्क और रिपेक्टिव ऊर्जा शुल्क का भी भुगतान प्राप्त नहीं हुआ है।

Further, kindly refer to the NLDC letter dated 11/11/2024 & 13/01/2025 regarding payment of Net Deviation & Ancillary Services Pool Account Deficit Recovery for period prior 16.09.2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements" were issued in line with the Deviation Settlement Mechanism Regulations, 2024, CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024 and CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024.

In this context it is noted that payment for all seventeen (17) instalments towards pool deficit recovery of legacy dues as well as the payment of pool deficit recovery as per NLDC statement dated 13/01/2025 are still pending from the Jammu and Kashmir. Further deviation charges and reactive energy charges are also not received since February 2024.

जम्मू एवं कश्मीर राज्य के द्वारा अंतिम भुगतान 09/02/2024 को किया गया था। वर्तमान में (वित्तीय वर्ष 2025-26 के सप्ताह 10: 02-05-25 से 08-06-25 तक) तक वैधानिक पूल खातों के अंतर्गत बकाया विवरण निम्नानुसार है:

The last payment received in pool accounts from JKPCCL was on 09/02/2024. Now, the outstanding against statutory pool accounts payments as on date considering Week 10 (02-05-2025/08-06-2025) of FY 2025-26 by JKPCCL is as briefed here under.

All figures in Rs.

Sl. No.	Description	Principal (in ₹)	Remarks
1	Deviation Charges	94,55,87,961	Detailed statement attached
2	Reactive Energy Charges	44,88,607	
3	Pool Deficit Recovery Charges (Legacy Dues)	45,37,35,599	16 nos Instalment (1 st to 16 th) of ₹ 2,74,99,006 each and revised 17th of ₹ 1,37,49,503 are pending
4	Pool Deficit Recovery Charges	2,92,27,885	As per NLDC statement dated 13/01/2025
	Total Outstanding	143,30,38,052	

जम्मू एवं कश्मीर राज्य से भुगतान प्राप्त नहीं होने के कारण, पूल से प्राप्त लाभार्थियों को भुगतान करने में बाधा उत्पन्न हो रही है। हमारे अनेक पत्राचार के बावजूद, जम्मू एवं कश्मीर राज्य के द्वारा बकाया राशि का निपटारा नहीं किया गया है।

Due to the non-receipt of payment from JKPCCL, disbursements to the entitled entities from the pool are being adversely affected. Despite multiple communications from our end, JKPCCL has yet to clear the outstanding dues.

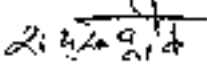
अतः, आपसे पुनः अनुरोध है कि कृपया इस विषय पर शीघ्र ध्यान देते हुए ₹143,30,38,052/- (रुपये एक सौ सैंलकीस करोड़ तीस लाख अड़तीस हजार बावन मात्र) की लंबित राशि का विपत्तन शुल्क, विन्यासीय ऊर्जा शुल्क और पूल घाटा वसूली शुल्क के अंतर्गत शीघ्र भुगतान सुनिश्चित करें। समय पर निपटार से अतिरिक्त व्याज देनदारी तथा मुक्य राशि में वृद्धि से बचा जा सकता है। साथ ही, यह भी अनुरोध है कि भविष्य में वैधानिक पूल खातों में भुगतान संबंधित विनियमों के अनुरूप नियमित रूप से किया जाए, जिससे किसी अतिरिक्त व्याज का भार उत्पन्न न हो।

In view of the above, It is kindly request your esteemed office to look into the matter and facilitate the settlement of the outstanding amount of ₹143,30,38,052/- (Rupees One Hundred Forty-Three Crore Thirty Lakh Thirty Eight Thousand and Fifty Two only) towards Deviation Charges, Reactive Energy Charges, and Pool Deficit Recovery Charges at the earliest. Timely settlement will avoid further accumulation of the principal deviation charges and interest on delayed payments.

It is also requested that payments to the Statutory Pool Accounts be made regularly in accordance with the applicable regulations, to prevent any additional interest liabilities due to delayed remittances.

धन्यवाद,

आपका आभारी,


(श्री. स. के. सिंग)

मुख्य महाप्रबंधक (मा. ओ.), उ.ओ.आ.पे.के.

प्रतिलिपि सूचना हेतु,

1. सचिव (विद्युत), विद्युत नवालय, नई दिल्ली
2. प्रमुख सचिव, विद्युत विकास विभाग, J&K, सिविल सचिवालय, जम्मू, जम्मू और कश्मीर - 180001
3. सचिव, CERC, नई दिल्ली
4. सदस्य सचिव, NRPC, नई दिल्ली
5. अध्यक्ष एवं प्रबंध निदेशक, ग्रिड-इंडिया
6. निदेशक (सिस्टम ऑपरेशन/ मा. ओ.), ग्रिड-इंडिया
7. कार्यपालक निदेशक, रा. मा. पे. के./ उ. ओ. आ. पे. के.

Statement of Deviation Account of JAMMU AND KASHMIR

From 01-02-2024 To 24-06-2025

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
		OPENING BALANCE		49,86,30,632				49,86,30,632
1	02-02-2024	For Week:43(15-01-2024/ 21-01-2024)	09-02-2024	8,90,28,996				58,76,59,628
2	09-02-2024	PAID	09-02-2024			20,22,44,280		38,54,15,348
3	08-02-2024	For Week:44(22-01-2024/ 28-01-2024)	15-02-2024	12,08,86,804				50,63,02,152
4	16-02-2024	For Week:45(29-01-2024/ 04-02-2024)	23-02-2024	3,10,04,355				53,73,06,507
5	23-02-2024	For Week:46(05-02-2024/ 11-02-2024)	01-03-2024	4,46,31,017				58,19,37,524
6	01-03-2024	For Week:47(12-02-2024/ 18-02-2024)	08-03-2024	1,19,29,624				59,38,67,148
7	08-03-2024	For Week:48(19-02-2024/ 25-02-2024)	15-03-2024	3,22,92,553				62,61,59,701
8	15-03-2024	For Week:49(26-02-2024/ 03-03-2024)	22-03-2024	3,64,45,294				66,26,04,995
9	21-03-2024	For Week:50(04-03-2024/ 10-03-2024)	28-03-2024	1,10,76,016				67,36,81,011
10	27-03-2024	For Week:51(11-03-2024/ 17-03-2024)	03-04-2024	2,08,33,623				69,45,14,634
11	03-04-2024	For Week:52(18-03-2024/ 24-03-2024)	10-04-2024	1,89,69,966				71,34,84,600
12	10-04-2024	For Week :53(25-03-2024/ 31-03-2024)	17-04-2024		1,50,65,122			69,84,19,478
13	19-04-2024	For Week:1(01-04-2024/ 07-04-2024)	26-04-2024	8,49,57,549				78,33,77,027
14	26-04-2024	For Week:2(08-04-2024/ 14-04-2024)	03-05-2024	93,64,256				79,27,41,283
15	03-05-2024	For Week:3(15-04-2024/ 21-04-2024)	10-05-2024	1,36,52,699				80,63,93,982
16	09-05-2024	For Week:4(22-04-2024/ 28-04-2024)	16-05-2024	1,50,98,973				82,14,92,955
17	16-05-2024	For Week :5(29-04-2024/ 05-05-2024)	23-05-2024		1,45,56,512			80,69,36,443
18	22-05-2024	For Week :6(06-05-2024/ 12-05-2024)	29-05-2024		2,51,19,691			78,18,16,752
19	30-05-2024	For Week :7(13-05-2024/ 19-05-2024)	06-06-2024		2,51,94,190			75,66,22,562
20	06-06-2024	For Week :8(20-05-2024/ 26-05-2024)	13-06-2024		4,22,48,745			71,43,73,817
21	14-06-2024	For Week :9(27-05-2024/ 02-06-2024)	21-06-2024		3,87,54,181			67,56,19,636
22	20-06-2024	For Week :10(03-06-2024/ 09-06-2024)	27-06-2024		53,62,640			67,02,56,996
23	27-06-2024	For Week:11(10-06-2024/ 16-06-2024)	04-07-2024	11,52,91,398				78,55,48,394
24	05-07-2024	For Week:12(17-06-2024/ 23-06-2024)	12-07-2024	25,61,107				78,81,09,501
25	12-07-2024	For Week :13(24-06-2024/ 30-06-2024)	19-07-2024		7,53,08,295			71,28,01,206
26	19-07-2024	For Week :14(01-07-2024/ 07-07-2024)	26-07-2024		8,09,70,139			63,18,31,067

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
27	25-07-2024	For Week :15(08-07-2024/14-07-2024)	01-08-2024		10,41,96,483			52,76,34,584
28	01-08-2024	For Week :16(15-07-2024/21-07-2024)	08-08-2024		8,11,92,094			44,64,42,490
29	09-08-2024	For Week :17(22-07-2024/28-07-2024)	16-08-2024		1,24,88,253			43,39,54,237
30	16-08-2024	For Week :18(29-07-2024/04-08-2024)	23-08-2024		3,87,97,325			39,51,56,912
31	27-08-2024	For Week :19(05-08-2024/11-08-2024)	03-09-2024		2,04,24,755			37,47,32,157
32	30-08-2024	For Week :20(12-08-2024/18-08-2024)	06-09-2024		2,39,11,048			35,08,21,109
33	06-09-2024	For Week:21(19-08-2024/25-08-2024)	13-09-2024	8,30,39,429				43,38,60,538
34	17-09-2024	For Week :22(26-08-2024/01-09-2024)	24-09-2024		88,21,819			42,50,38,719
35	19-09-2024	For Week:23(02-09-2024/08-09-2024)	26-09-2024	38,72,580				42,89,11,299
36	26-09-2024	For Week:24(09-09-2024/15-09-2024)	03-10-2024	22,26,891				43,11,38,190
37	07-10-2024	For Week:25(16-09-2024/22-09-2024)	17-10-2024	10,06,67,680				53,18,05,870
38	10-10-2024	For Week:26(23-09-2024/29-09-2024)	20-10-2024	30,85,11,126				84,03,16,996
39	17-10-2024	For Week:27(30-09-2024/06-10-2024)	27-10-2024	19,11,45,390				1,03,14,62,386
40	24-10-2024	For Week:28(07-10-2024/13-10-2024)	03-11-2024	9,31,80,369				1,12,46,42,755
41	30-10-2024	For Week:29(14-10-2024/20-10-2024)	09-11-2024	2,65,93,750				1,15,12,36,505
42	07-11-2024	For Week :30(21-10-2024/27-10-2024)	17-11-2024		1,60,79,818			1,13,51,56,687
43	13-11-2024	For Week:31(28-10-2024/03-11-2024)	23-11-2024	2,26,37,138				1,15,77,93,825
44	20-11-2024	For Week :32(04-11-2024/10-11-2024)	30-11-2024		1,30,71,150			1,14,47,22,675
45	28-11-2024	For Week :33(11-11-2024/17-11-2024)	08-12-2024		1,37,48,727			1,13,09,73,948
46	05-12-2024	For Week :34(18-11-2024/24-11-2024)	15-12-2024	1,38,84,577				1,14,48,58,525
47	11-12-2024	For Week :35(25-11-2024/01-12-2024)	21-12-2024	1,67,55,030				1,16,16,13,555
26	20-12-2024	For Week:36(02-12-2024/08-12-2024)	30-12-2024	1,02,29,444				1,17,18,42,999
27	24-12-2024	For Week:37(09-12-2024/15-12-2024)	03-01-2025	3,13,66,479				1,20,32,09,478
28	03-01-2025	For Week:38(16-12-2024/22-12-2024)	13-01-2025	6,14,77,136				1,26,46,86,614
29	10-01-2025	For Week :39(23-12-2024/29-12-2024)	20-01-2025		41,08,275			1,26,05,78,339
30	16-01-2025	For Week :40(30-12-2024/05-01-2025)	26-01-2025		5,64,30,127			1,20,41,48,212
31	23-01-2025	For Week:41(06-01-2025/12-01-2025)	02-02-2025	3,19,46,934				1,23,60,95,146
32	29-01-2025	For Week :42(13-01-2025/19-01-2025)	08-02-2025		68,46,765			1,22,92,48,381
33	06-02-2025	For Week :43(20-01-2025/26-01-2025)	16-02-2025		2,74,80,062			1,20,17,68,319

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
34	13-02-2025	For Week :44(27-01-2025/02-02-2025)	23-02-2025		3,48,47,944			1,16,69,20,375
35	20-02-2025	For Week :45(03-02-2025/09-02-2025)	02-03-2025		93,55,887			1,15,75,64,488
36	28-02-2025	For Week :46(10-02-2025/16-02-2025)	10-03-2025		1,69,25,332			1,14,06,39,156
37	06-03-2025	For Week :47(17-02-2025/23-02-2025)	16-03-2025		1,68,31,406			1,12,38,07,750
38	13-03-2025	For Week :48(24-02-2025/02-03-2025)	23-03-2025		2,07,59,652			1,10,30,48,098
39	20-03-2025	For Week:49(03-03-2025/09-03-2025)	30-03-2025	3,27,22,674				1,13,57,70,772
40	28-03-2025	For Week :50(10-03-2025/16-03-2025)	07-04-2025		3,09,32,988			1,10,48,37,784
41	03-04-2025	For Week :51(17-03-2025/23-03-2025)	13-04-2025		74,15,872			1,09,74,21,912
42	09-04-2025	For Week :52(24-03-2025/30-03-2025)	19-04-2025		63,57,814			1,09,10,64,098
43	22-04-2025	For Week :1(31-03-2025/06-04-2025)	02-05-2025		1,31,34,689			1,07,79,29,409
44	24-04-2025	For Week :2(07-04-2025/13-04-2025)	04-05-2025		2,01,97,002			1,05,77,32,407
45	01-05-2025	For Week :3(14-04-2025/20-04-2025)	11-05-2025		4,79,27,485			1,00,98,04,922
46	09-05-2025	For Week :4(21-04-2025/27-04-2025)	19-05-2025		4,34,71,005			96,63,33,917
47	16-05-2025	For Week :5(28-04-2025/04-05-2025)	26-05-2025		3,57,04,388			93,06,29,529
48	23-05-2025	For Week:6(05-05-2025/11-05-2025)	02-06-2025	2,08,78,814				95,15,08,343
49	30-05-2025	For Week :7(12-05-2025/18-05-2025)	09-06-2025		2,45,49,849			92,69,58,494
50	06-06-2025	For Week :8(19-05-2025/25-05-2025)	16-06-2025		1,44,60,618			91,24,97,876
51	12-06-2025	For Week:9(26-05-2025/01-06-2025)	22-06-2025	29,41,027				91,54,38,903
52	20-06-2025	For Week:9(02-05-2025/08-06-2025)	30-06-2025	3,01,49,058				94,55,87,961
Total				2,24,08,80,388	1,09,30,48,147	20,22,44,280	-	94,55,87,961

Total Outstanding dues against Pool Deficit Recovery **45,37,33,599**

Pool Deficit Recovery Charges (As per NLDC statement dated 13/01/2025) **2,92,27,885**

Total Outstanding charges of Deviation Charges: **94,55,87,961**

Total Outstanding charges of Reactive Energy Charges: **44,88,607**

Total Outstanding charges of Jammu & Kashmir: **1,43,30,38,052**



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
भारत सरकार का उद्यम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)



(Formerly Power System Operation Corporation Limited (PSOCL))

उत्तर क्षेत्रीय भार प्रेषण केंद्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शहीद जीता सिंह लखनवाला मार्ग, कटवारिया सराय, नई दिल्ली-110018

Office : 18-A, Shaheed Jit Singh Saini Sarani Marg, Katwaria Sarai, New Delhi-110018

ON : 01205051200/390/38552 Website : www.nrlcdc.in E-mail : nrlcdc@grid-india.in Tel: 011 26510408, 26523800, Fax: 011 26552747

संदर्भ संख्या: NRLDC/MO/Legacy dues/219

दिनांक: 17 जून 2025

सेवा में,

निदेशक,

उत्तर प्रदेश एस.एल.डी.सी. लिमिटेड,

UP एस.एल.डी.सी. कॉम्प्लेक्स, विभूति खंड,

गोमती नगर, लखनऊ - 226010

To

The Director

UP SLDC Ltd,

UP SLDC Complex, Vibhuti Khand,

Gomti Nagar, Lucknow- 226010

स्मरण पत्र/ Gentle Reminder

विषय: डिविजन एवं सहायक सेवाओं के पूल खाते की घाटा वसूली से संबंधित वकाया भुगतान

Subj: Payment of deviation and ancillary services pool account deficit recovery dues - Reg.

Ref. 1) Our letter NRLDC/MO/DSM-2024/538 dated 11/11/2024

2) Your letter 4103/CE/CS/DSM dated 21/11/2024

3) Our Letter NRLDC/MO/Legacy dues dated 04/12/2024

4) Your letter 4309/CE/CS/DSM/Settlement for Legacy Dues) dated 06/12/2024

5) Our Letter NRLDC/MO/Legacy dues /577 dated 19/12/2024

6) Our Letter NRLDC/MO/Legacy dues/579 dated 20/12/2024

7) Your letter 17 DIR(SLDC)/CE/CS/SE/EA/EE(DSM) dated 02/01/2025

8) Our Letter NRLDC/MO/Legacy dues /598 dated 14/01/2025

9) Our Letter NRLDC/MO/Legacy dues /606 dated 32/01/2025

10) Our Letter NRLDC/MO/Legacy dues /641 dated 14/02/2025

11) Our Letter NRLDC/MO/Legacy dues /668 dated 19/03/2025

12) Our Letter NRLDC/MO/Legacy dues /700 dated 16/04/2025

13) Your letter 2379/CE(C&S)/EE/DSM Pool AC/ dated 16/4/2025

14) Our Letter NRLDC/MO/Legacy dues /733 dated 02/05/2025

महोदय/Sir,

यह पत्र NLDC द्वारा दिनांक 11/11/2024 एवं 13/01/2025 को भेजे गए पत्रों के संदर्भ में है, जो कि दिनांक 16/09/2024 से पहले की अवधि (Legacy dues विवरण) तथा 16/09/2024 से 22/12/2024 की अवधि के लिए डिविजन और सहायक सेवाओं के पूल खाते की घाटा वसूली से संबंधित है।

उपरोक्त के संदर्भ में सूचित करना है कि 'नेट डिविजन एवं सहायक सेवाएं पूल खाता घाटा वसूली विवरण' डिविजन सेटलमेंट मैकेनिज्म विनियम, 2024, CERC द्वारा अनुमोदित प्रक्रिया (आदेश संख्या L-1/260/2021/CERC दिनांक 15 अक्टूबर 2024) एवं CERC के स्वतः संज्ञान आदेश संख्या 01/SM/2025 दिनांक 08/01/2024 के अनुसार जारी किए गए थे।

(Signature)

Cont...

This has reference to NLDC letter dated 11/11/2024 & 13/01/2025 regarding payment of deviation and ancillary services pool account deficit recovery for the period prior to 16/09/2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements" were issued in line with the Deviation Settlement Mechanism Regulations, 2024, CERC approved procedure vide order No. L-1/268/2021/CERC dated 15th October 2024 and CERC Sno-Moto order no. 01/SM/2025 dated 08/01/2024.

इस सदर्भ में यह उल्लेखनीय है कि उत्तर प्रदेश राज्य की ओर से अभी तक लेगेसी बकाया की पूल घाटा वसूली की कुल 17 किश्तों का भुगतान, साथ ही NLDC के दिनांक 13/01/2025 के विवरण के अनुसार पूल घाटा वसूली का भुगतान संबंधित है। इन भुगतानों की प्राप्ति न होने के कारण पात्र लाभार्थियों को पूल से वितरित की जाने वाली राशि में देरी हो रही है। हमारी अनेक बार की पत्राचार के बावजूद, UP SLDC द्वारा अब तक बकाया भुगतान नहीं किया गया है।

In this context it is noted that payment for all seventeen (17) instalments towards pool deficit recovery of legacy dues as well as the payment of pool deficit recovery as per NLDC statement dated 13/01/2025 are still pending from the State of Uttar Pradesh. The non-receipt of these payments has resulted in delays in disbursing funds to the entitled beneficiary entities from the pool. Despite multiple communications from our end, UP SLDC has yet to clear the outstanding dues.

पूल घाटा वसूली शुल्क के अंतर्गत कुल बकाया निम्नानुसार है:

The total outstanding payment towards pool deficit recovery dues is detailed below:

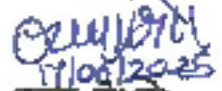
Sl. No.	Description	Principal (In ₹)	Remarks
1	Pool Deficit Recovery Charges (Legacy Dues)	221,54,28,122	16 nos Instalment (1 st to 16 th) of ₹ 13,42,68,371 each and revised 17 th of ₹ 6,71,34,186 are pending.
2	Pool Deficit Recovery Charges (As per NLDC statement dated 13/01/2025)	17,83,89,832	
	Total Outstanding	239,38,17,954	

उपरोक्त के दृष्टिगत, आपसे अनुरोध है कि कृपया आवश्यक कार्रवाई करते हुए पूल घाटा वसूली शुल्क की ₹239,38,17,954/- (रुपये दो सौ उनतासीस करोड़ अड़तीस लाख सत्रह हजार नौ सौ चौवन मात्र) की संबंधित राशि का शीघ्र भुगतान सुनिश्चित करें। भुगतान में विलंब से ब्याज देनदारी उत्पन्न हो सकती है, जिसे समय पर निपटान करके टाला जा सकता है।

Cont....

In view of above, It is kindly request your kind office to take necessary action and facilitate the settlement of the outstanding dues amounting to ₹239,38,17,954/- (Rupees Two Hundred Thirty-Nine Crore Thirty-Eight Lakh Seventeen Thousand Nine Hundred and Fifty-Four only) towards pool deficit recovery charges at the earliest. Timely settlement will avoid any additional interest liability due to delayed payments.

धन्यवाद,

भवदीया,

17/06/2025
(पुष्पा कुमार)

महाप्रबंधक (मा. ओ.), उ.क्षे.भा.प्रे.के.

प्रतिलिपि सूचना हेतु:

1. सचिव, CERC, नई दिल्ली
2. सदस्य सचिव, NRPC, नई दिल्ली
3. अध्यक्ष एवं प्रबंध निदेशक, ग्रिड इंडिया
4. निदेशक (सिस्टम ऑपरेशन/ मा. ओ.), ग्रिड-इंडिया
5. कार्यपालक निदेशक, रा. भा.प्रे.के./उ.क्षे.भा.प्रे.के.



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
भारत सरकार का उद्यम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)

(Formerly Power System Operation Corporation Limited (PSOCO))

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-A, शाहीद जेठ सिंह सानसवाल मार्ग, कटवारिया सराज, नई दिल्ली-110016

Office : 18-A, Shaheed Jeth Singh Sansanwal Marg, Katwaria Saraj, New Delhi-110016

CIN: U40105DL2005PC183552, Website: www.nrlcdc.in E-mail: nrlcdc@grid-india.in, Tel: 011-26519406, 26523869, Fax: 011-26353734

Ref. No. NRI.DC/ MO/Outstanding/

Date: 21st May 2025

To

The Managing Director
JKPCL, SLDC Building,
1st Floor Gladai Grid Station,
Naval Bafa, Jammu-180 004

Sub: Release of outstanding payment against NR Statutory Pool Accounts - Reg.

Ref: 1) NRLDC Letter Ref No. 1) NRLDC/ MO/Pool/03-10 Dt: 01/01/2024, to CE (SLDC), JKPCL

2) NRLDC/ MO/Pool/56-63 Dt: 24/01/2024, to CE (SLDC), JKPCL

3) NRLDC/ MO/Outstanding /89-96 Dt: 13/02/2024, to CE (SLDC), JKPCL

4) NRLDC/ MO/Outstanding /31-139 Dt: 02/04/2024, to CE (SLDC), JKPCL

5) NRLDC/ MO/Outstanding /183-191 Dt: 03/05/2024, to CE (SLDC), JKPCL

6) NRLDC/ MO/Outstanding /210-216 Dt: 20/05/2024, to MD, JKPCL

7) NRLDC/ MO/Outstanding /394-401 Dt: 01/07/2024, to CE (SLDC), JKPCL

8) NRLDC/ MO/Outstanding /430-438 Dt: 05/08/2024, to CE (SLDC), JKPCL

9) NRLDC/ MO/Outstanding / Dt: 10/10/2024, to CE (SLDC), JKPCL

10) NRLDC/ MO/Outstanding /523-531 Dt: 30/10/2024, to CE (SLDC), JKPCL

11) NRLDC/ MO/Outstanding /564-573 Dt: 12/12/2024, to CE (SLDC), JKPCL

12) NRLDC/ MO/Outstanding /578 Dt: 20/12/2024, to MD, JKPCL

13) NRLDC/ MO/Outstanding /597 Dt: 14/01/2025, to CE (SLDC), JKPCL

14) NRLDC/ MO/Outstanding /610 Dt: 14/02/2025, to CE (SLDC), JKPCL

15) NRLDC/ MO/Outstanding /669 Dt: 19/03/2025, to MD, JKPCL

16) NRLDC/ MO/Outstanding /699 Dt: 16/04/2025, to MD, JKPCL

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have **high priority** and the concerned utilities are required to pay the indicated amounts **within ten days** of issue of the weekly energy account by NRPC Secretariat.

Further, kindly refer to the NLDC letter dated 11/11/2024 & 13/01/2025 regarding payment of Net Deviation & Ancillary Services Pool Account Deficit Recovery for period prior 16.09.2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements" were issued in line with the Deviation Settlement Mechanism Regulations, 2024. CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024 and CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024.

पंजीकृत कार्यालय : बी-9, नथप बल, कृतुप इंस्टीट्यूशनल एरिया, कटवारिया सराज, नई दिल्ली-110016

Registered Office : B-9, 1st Floor, Qutub Institutional Area, Katwaria Sarai, New Delhi- 110016

In this context it is noted that payment for all seventeen (17) instalments towards pool deficit recovery of legacy dues as well as the payment of pool deficit recovery as per NLDC statement dated 13/01/2025 are still pending from the Jammu and Kashmir.

The last payment received in pool accounts from JKPCIL was on 09/02/2024. Now, the outstanding against statutory pool accounts payments as on date (Considering Week 04 of FY 2025-26) by JKPCIL is as briefed here under.

All figures in Rs.

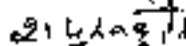
Sl. No.	Description	Principal (in ₹)	Remarks
1	Deviation Charges	96,63,33,917	
2	Reactive Energy Charges	69,01,983	
3	Pool Deficit Recovery Charges (Legacy Dues)	45,37,33,599	16 nos instalment (1 st to 16 th) of ₹ 2,74,99,006 each and revised 17th of ₹ 1,37,49,503 are pending
4	Pool Deficit Recovery Charges	2,92,27,885	As per NLDC statement dated 13/01/2025
	Total Outstanding	145,61,97,384	

Due to the non-receipt of payment from JKPCIL, disbursements to the entitled entities from the pool are being adversely affected. Despite multiple communications from our end, JKPCIL has yet to clear the outstanding dues.

In view of the above, It is kindly request your esteemed office to look into the matter and facilitate the settlement of the outstanding amount of ₹145,61,97,384/- (Rupees One Hundred Forty-Five Crore Sixty-One Lakh Ninety-Seven Thousand Three Hundred and Eighty-Four only) towards Deviation Charges, Reactive Energy Charges, and Pool Deficit Recovery Charges at the earliest. Timely settlement will avoid further accumulation of the principal deviation charges and interest on delayed payments.

It is also requested that payments to the Statutory Pool Accounts be made regularly in accordance with the applicable regulations, to prevent any additional interest liabilities due to delayed remittances.

धन्यवाद,

आपका ह्मभारी,

 शेख शदरुद्दीन
 मुख्य महाप्रबंधक (मा. ओ.), उ.के.भा.पे.के.

Copy for kind information:

1. Secretary (Power), Ministry of Power, New Delhi
2. Secretary, CERC, 3rd & 4th Floor, Chanderlok Building, 36, Janpath, New Delhi- 110001
3. Principal Secretary to Government Power Development Department J&K, Civil Secretariat Jammu, UT Jammu and Kashmir-180001
4. Member Secretary, NRPC, New Delhi
5. CMD, GRID-INDIA, CC, 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
6. Director (Market Operation), 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
7. Executive Director, NRLDC/NLDC, New Delhi

Ref. No. NRLDC/MO/Legacy dues/ 733

Date: 02nd May 2025

To
The Chief Engineer (C&S)
UP SLDC Ltd,
UP SLDC Complex, Vibhuti Khand,
Gomti Nagar, Lucknow- 226010

Sub: Payment of deviation and ancillary services pool account deficit recovery dues - Reg.

Ref: 1) Our letter NRLDC/MO/DSM/-2024/538 dated 11/11/2024
2) Your letter 4103/CE(CS)/DSM dated 21/11/2024
3) Our Letter NRLDC/MO/Legacy dues dated 04/12/2024
4) Your letter 4309/CE(CS)/DSM/Settlement for Legacy Dues) dated 06/12/2024
5) Our Letter NRLDC/MO/Legacy dues /577 dated 19/12/2024
6) Our Letter NRLDC/MO/Legacy dues/579 dated 20/12/2024
7) Your letter 17 DIR(SLDC)/CE(CS)/SE(EA)/EE(DSM) dated 02/01/2025
8) Our Letter NRLDC/MO/Legacy dues /598 dated 14/01/2025
9) Our Letter NRLDC/MO/Legacy dues /606 dated 22/01/2025
10) Our Letter NRLDC/MO/Legacy dues /641 dated 14/02/2025
11) Our Letter NRLDC/MO/Legacy dues /668 dated 19/03/2025
12) Our Letter NRLDC/MO/Legacy dues /700 dated 16/04/2025
13) Your letter 2379/CE(C&S)/EE/DSM Pool AC/ dated 16/4/2025

Sir,

This has reference to your letter dated 06/12/2024 regarding payment of deviation and ancillary services pool account deficit recovery for the period prior to 16/09/2024 (Statement of legacy dues). It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024" was issued in line with the Deviation Settlement Mechanism Regulations, 2024 and CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024.

Kindly refer the clause 43 of IEGC 2023 "The SLDCs shall be responsible for optimum scheduling and despatch of electricity, monitoring of real time grid operations and management of the reserves including energy storage systems and demand response within its State control area, supervision and control over the intra-State transmission system, processing of interface energy meter data and coordinating the accounting and the settlement of State pool account, as may be specified by the appropriate State Commission."

The UP SLDC is responsible for scheduling and despatch of electricity within the state, Energy Accounting and DSM settlement etc in control area of Uttar Pradesh state.

In this regard kindly refer our letter dated 19/12/2024, whereas it was communicated that as the SLDC being apex body of the state is responsible for the payments related deviation and

ancillary services pool account as per the principal regulations. The responsibility of payments of legacy dues which also pertains to the dues related to deviation and ancillary services pool account is that of statutory body of the state in line with the principal regulations.

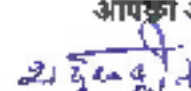
All the payments related to deviation charges, reactive charges and congestion charges of Uttar Pradesh state is being paid/received by UP SLDC as the UP SLDC is the member of regional pool account. The pool deficit recovery also pertains to deficit in deviation and ancillary services pool account. Hence, It is requested to expedite the process of collection from drawee DICs and accordingly settle of the amount mentioned in the legacy dues statement.

The total outstanding payment towards pool deficit recovery dues is detailed below:

Sl. No.	Description	Principal (In ₹)	Remarks
1	Pool Deficit Recovery Charges (Legacy Dues)	221,54,28,122	16 nos Instalment (1 st to 16 th) of ₹ 13,42,68,371 each and revised 17 th of ₹ 6,71,34,186 are pending.
2	Pool Deficit Recovery Charges (As per NLDC statement dated 13/01/2025)	17,83,89,832	
	Total Outstanding	239,38,17,954	

In view of above, It is kindly request your kind office to take necessary action and facilitate the settlement of the outstanding dues amounting to ₹239,38,17,954/- (Rupees Two Hundred Thirty-Nine Crore Thirty-Eight Lakh Seventeen Thousand Nine Hundred and Fifty-Four only) towards pool deficit recovery charges at the earliest. Timely settlement will avoid any additional interest liability due to delayed payments.

धन्यवाद,

आपका आभारी,

(श्री. महेश चंद्रा)
वरि. महाप्रबंधक (मा. ओ.), उ.क्षे.भा.प्रे.के.

Copy for kind information:

1. Secretary, CERC, New Delhi
2. Member Secretary, NRPC, New Delhi
3. Chairman and Managing Director, Grid-India
4. Director (System Operation), Grid-India
5. Executive Director, NLDC/NRLDC
6. Director, UP SLDC, UP SLDC Complex, Vibhuti Khand,
7. Gomti Nagar, Lucknow- 226010



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
भारत सरकार का उद्यम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)
(Formerly Power System Operation Corporation Limited (PSOCL))

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जेत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110016

Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016

CIN : U40305DL2009GOI188682, Website : www.nrlc.in, E-mail : nrlc@grid-india.in, Tel: 011 26519406, 26523869, Fax: 011 26852747

Ref. No. NRLDC/ MO/Outstanding/ 639

Date: 16th April 2025

To

The Managing Director
JKPCL, SLDC Building,
1st Floor Gladni Grid Station,
Nanval Bala, Jammu-180 004

Sub: Release of outstanding payment against NR Statutory Pool Accounts - Reg.

Ref: 1) NRLDC Letter Ref No. 1) NRLDC/ MO/Pool/03-10 Dt: 02/01/2024, to CE (SLDC), JKPCL

2) NRLDC/ MO/Pool/56-63 Dt: 24/01/2024, to CE (SLDC), JKPCL

3) NRLDC/ MO/Outstanding /89-96 Dt: 13/02/2024, to CE (SLDC), JKPCL

4) NRLDC/ MO/Outstanding /31-139 Dt: 02/04/2024, to CE (SLDC), JKPCL

5) NRLDC/ MO/Outstanding /183-191 Dt: 03/05/2024, to CE (SLDC), JKPCL

6) NRLDC/ MO/Outstanding /210-216 Dt: 20/05/2024, to MD, JKPCL

7) NRLDC/ MO/Outstanding /394-401 Dt: 01/07/2024, to CE (SLDC), JKPCL

8)) NRLDC/ MO/Outstanding /430-438 Dt: 05/08/2024, to CE (SLDC), JKPCL

9) NRLDC/ MO/Outstanding / Dt: 10/10/2024, to CE (SLDC), JKPCL

10) NRLDC/ MO/Outstanding /523-531 Dt: 30/10/2024, to CE (SLDC), JKPCL

11) NRLDC/ MO/Outstanding /564-573 Dt: 12/12/2024, to CE (SLDC), JKPCL

12) NRLDC/ MO/Outstanding /578 Dt: 20/12/2024, to MD, JKPCL

13) NRLDC/ MO/Outstanding /597 Dt: 14/01/2024, to CE (SLDC), JKPCL

14) NRLDC/ MO/Outstanding /640 Dt: 14/02/2024, to CE (SLDC), JKPCL

15) NRLDC/ MO/Outstanding /669 Dt: 19/03/2024, to MD, JKPCL

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have **high priority** and the concerned utilities are required to pay the indicated amounts within ten days of issue of the weekly energy account by NRPC Secretariat.

Further, kindly refer to the NLDC letter dated 11/11/2024 & 13/01/2025 regarding payment of Net Deviation & Ancillary Services Pool Account Deficit Recovery for period prior 16.09.2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements" were issued in line with the Deviation Settlement Mechanism Regulations, 2024, **CERC approved procedure vide order No. L-1/260/2021/CERC** dated 15th October 2024 and CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024.

In this context it is noted that payment for all seventeen (17) instalments towards pool deficit recovery of legacy dues as well as the payment of pool deficit recovery as per NLDC statement dated 13/01/2025 are still pending from the Jammu and Kashmir.

The last payment received in pool accounts from JKPCCL was on 09/02/2024. Now, the outstanding against statutory pool accounts payments as on date (Considering Week 51 of FY 2024-25) by JKPCCL is as briefed here under.

All figures in Rs.

Sl. No.	Description	Principal (in ₹)	Remarks
1	Deviation Charges	109,74,21,912	Detailed reconciliation statement is attached at Annex-I
2	Reactive Energy Charges	1,30,23,031	
3	Pool Deficit Recovery Charges (Legacy Dues)	45,37,33,599	16 nos Instalment (1 st to 16 th) of ₹ 2,74,99,006 each and revised 17 th of ₹ 1,37,49,503 are pending
4	Pool Deficit Recovery Charges	2,92,27,885	As per NLDC statement dated 13/01/2023
	Total Outstanding	159,34,06,427	

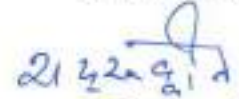
Due to the non-receipt of payment from JKPCCL, disbursements to the entitled entities from the pool are being adversely affected. Despite multiple communications from our end, JKPCCL has yet to clear the outstanding dues.

In view of the above, It is kindly request your esteemed office to look into the matter and facilitate the settlement of the outstanding amount of ₹159,34,06,427/- (**Rupees One Hundred Fifty-Nine Crore Thirty-Four Lakh Six Thousand Four Hundred and Twenty-Seven only**) towards Deviation Charges, Reactive Energy Charges, and Pool Deficit Recovery Charges at the earliest. Timely settlement will avoid further accumulation of the principal deviation charges and interest on delayed payments.

It is also requested that payments to the Statutory Pool Accounts be made regularly in accordance with the applicable regulations, to prevent any additional interest liabilities due to delayed remittances.

धन्यवाद,

आपका आभारी,



शेख शदरुद्दीन

मुख्य महाप्रबंधक (मा. ओ.), उ.क्षे.भा.प्रे.के.

Copy for kind information:

1. Secretary (Power), Ministry of Power, New Delhi
2. Secretary, CERC, 3rd & 4th Floor, Chanderlok Building, 36, Janpath, New Delhi- 110001
3. Principal Secretary to Government Power Development Department J&K, Civil Secretariat Jammu, UT Jammu and Kashmir-180001
4. Member Secretary, NRPC, New Delhi
5. CMD, GRID-INDIA, CC, 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
6. Director (Market Operation), 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
7. Executive Director, NRLDC/NLDC, New Delhi

Statement of Deviation Account of JAMMU AND KASHMIR

From 01-02-2024 To 19-03-2025

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
		OPENING BALANCE		49,86,30,632				49,86,30,632
1	02-02-2024	For Week:43(15-01-2024/ 21-01-2024)	09-02-2024	8,90,28,996				58,76,59,628
2	09-02-2024	PAID	09-02-2024			20,22,44,280		38,54,15,348
3	08-02-2024	For Week:44(22-01-2024/ 28-01-2024)	15-02-2024	12,08,86,804				50,63,02,152
4	16-02-2024	For Week:45(29-01-2024/ 04-02-2024)	23-02-2024	3,10,04,355				53,73,06,507
5	23-02-2024	For Week:46(05-02-2024/ 11-02-2024)	01-03-2024	4,46,31,017				58,19,37,524
6	01-03-2024	For Week:47(12-02-2024/ 18-02-2024)	08-03-2024	1,19,29,624				59,38,67,148
7	08-03-2024	For Week:48(19-02-2024/ 25-02-2024)	15-03-2024	3,22,92,553				62,61,59,701
8	15-03-2024	For Week:49(26-02-2024/ 03-03-2024)	22-03-2024	3,64,45,294				66,26,04,995
9	21-03-2024	For Week:50(04-03-2024/ 10-03-2024)	28-03-2024	1,10,76,016				67,36,81,011
10	27-03-2024	For Week:51(11-03-2024/ 17-03-2024)	03-04-2024	2,08,33,623				69,45,14,634
11	03-04-2024	For Week:52(18-03-2024/ 24-03-2024)	10-04-2024	1,89,69,966				71,34,84,600
12	10-04-2024	For Week :53(25-03-2024/ 31-03-2024)	17-04-2024		1,50,65,122			69,84,19,478
13	19-04-2024	For Week:1(01-04-2024/ 07-04-2024)	26-04-2024	8,49,57,549				78,33,77,027
14	26-04-2024	For Week:2(08-04-2024/ 14-04-2024)	03-05-2024	93,64,256				79,27,41,283
15	03-05-2024	For Week:3(15-04-2024/ 21-04-2024)	10-05-2024	1,36,52,699				80,63,93,982
16	09-05-2024	For Week:4(22-04-2024/ 28-04-2024)	16-05-2024	1,50,98,973				82,14,92,955
17	16-05-2024	For Week :5(29-04-2024/ 05-05-2024)	23-05-2024		1,45,56,512			80,69,36,443
18	22-05-2024	For Week :6(06-05-2024/ 12-05-2024)	29-05-2024		2,51,19,691			78,18,16,752
19	30-05-2024	For Week :7(13-05-2024/ 19-05-2024)	06-06-2024		2,51,94,190			75,66,22,562
20	06-06-2024	For Week :8(20-05-2024/ 26-05-2024)	13-06-2024		4,22,48,745			71,43,73,817
21	14-06-2024	For Week :9(27-05-2024/ 02-06-2024)	21-06-2024		3,87,54,181			67,56,19,636
22	20-06-2024	For Week :10(03-06-2024/ 09-06-2024)	27-06-2024		53,62,640			67,02,56,996
23	27-06-2024	For Week:11(10-06-2024/ 16-06-2024)	04-07-2024	11,52,91,398				78,55,48,394
24	05-07-2024	For Week:12(17-06-2024/ 23-06-2024)	12-07-2024	25,61,107				78,81,09,501
25	12-07-2024	For Week :13(24-06-2024/ 30-06-2024)	19-07-2024		7,53,08,295			71,28,01,206
26	19-07-2024	For Week :14(01-07-2024/ 07-07-2024)	26-07-2024		8,09,70,139			63,18,31,067

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
27	25-07-2024	For Week :15(08-07-2024/14-07-2024)	01-08-2024		10,41,96,483			52,76,34,584
28	01-08-2024	For Week :16(15-07-2024/21-07-2024)	08-08-2024		8,11,92,094			44,64,42,490
29	09-08-2024	For Week :17(22-07-2024/28-07-2024)	16-08-2024		1,24,88,253			43,39,54,237
30	16-08-2024	For Week :18(29-07-2024/04-08-2024)	23-08-2024		3,87,97,325			39,51,56,912
31	27-08-2024	For Week :19(05-08-2024/11-08-2024)	03-09-2024		2,04,24,755			37,47,32,157
32	30-08-2024	For Week :20(12-08-2024/18-08-2024)	06-09-2024		2,39,11,048			35,08,21,109
33	06-09-2024	For Week:21(19-08-2024/25-08-2024)	13-09-2024	8,30,39,429				43,38,60,538
34	17-09-2024	For Week :22(26-08-2024/01-09-2024)	24-09-2024		88,21,819			42,50,38,719
35	19-09-2024	For Week:23(02-09-2024/08-09-2024)	26-09-2024	38,72,580				42,89,11,299
36	26-09-2024	For Week:24(09-09-2024/15-09-2024)	03-10-2024	22,26,891				43,11,38,190
37	07-10-2024	For Week:25(16-09-2024/22-09-2024)	17-10-2024	10,06,67,680				53,18,05,870
38	10-10-2024	For Week:26(23-09-2024/29-09-2024)	20-10-2024	30,85,11,126				84,03,16,996
39	17-10-2024	For Week:27(30-09-2024/06-10-2024)	27-10-2024	19,11,45,390				1,03,14,62,386
40	24-10-2024	For Week:28(07-10-2024/13-10-2024)	03-11-2024	9,31,80,369				1,12,46,42,755
41	30-10-2024	For Week:29(14-10-2024/20-10-2024)	09-11-2024	2,65,93,750				1,15,12,36,505
42	07-11-2024	For Week :30(21-10-2024/27-10-2024)	17-11-2024		1,60,79,818			1,13,51,56,687
43	13-11-2024	For Week:31(28-10-2024/03-11-2024)	23-11-2024	2,26,37,138				1,15,77,93,825
44	20-11-2024	For Week :32(04-11-2024/10-11-2024)	30-11-2024		1,30,71,150			1,14,47,22,675
45	28-11-2024	For Week :33(11-11-2024/17-11-2024)	08-12-2024		1,37,48,727			1,13,09,73,948
46	05-12-2024	For Week :34(18-11-2024/24-11-2024)	15-12-2024	1,38,84,577				1,14,48,58,525
47	11-12-2024	For Week :35(25-11-2024/01-12-2024)	21-12-2024	1,67,55,030				1,16,16,13,555
26	20-12-2024	For Week:36(02-12-2024/08-12-2024)	30-12-2024	1,02,29,444				1,17,18,42,999
27	24-12-2024	For Week:37(09-12-2024/15-12-2024)	03-01-2025	3,13,66,479				1,20,32,09,478
28	03-01-2025	For Week:38(16-12-2024/22-12-2024)	13-01-2025	6,14,77,136				1,26,46,86,614
29	10-01-2025	For Week :39(23-12-2024/29-12-2024)	20-01-2025		41,08,275			1,26,05,78,339
30	16-01-2025	For Week :40(30-12-2024/05-01-2025)	26-01-2025		5,64,30,127			1,20,41,48,212
31	23-01-2025	For Week:41(06-01-2025/12-01-2025)	02-02-2025	3,19,46,934				1,23,60,95,146
32	29-01-2025	For Week :42(13-01-2025/19-01-2025)	08-02-2025		68,46,765			1,22,92,48,381
33	06-02-2025	For Week :43(20-01-2025/26-01-2025)	16-02-2025		2,74,80,062			1,20,17,68,319

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
34	13-02-2025	For Week :44(27-01-2025/02-02-2025)	23-02-2025		3,48,47,944			1,16,69,20,375
35	20-02-2025	For Week :45(03-02-2025/09-02-2025)	02-03-2025		93,55,887			1,15,75,64,488
36	28-02-2025	For Week :46(10-02-2025/16-02-2025)	10-03-2025		1,69,25,332			1,14,06,39,156
37	06-03-2025	For Week :47(17-02-2025/23-02-2025)	16-03-2025		1,68,31,406			1,12,38,07,750
12	13-03-2025	For Week :48(24-02-2025/02-03-2025)	23-03-2025		2,07,59,652			1,10,30,48,098
13	20-03-2025	For Week:49(03-03-2025/09-03-2025)	30-03-2025	3,27,22,674				1,13,57,70,772
14	28-03-2025	For Week :50(10-03-2025/16-03-2025)	07-04-2025		3,09,32,988			1,10,48,37,784
15	03-04-2025	For Week :51(17-03-2025/23-03-2025)	13-04-2025		74,15,872			1,09,74,21,912
Total				2,18,69,11,489	88,72,45,297	20,22,44,280	-	1,09,74,21,912

Total Outstanding dues against Pool Deficit Recovery **45,37,33,599**

Pool Deficit Recovery Charges (As per NLDC statement dated 13/01/2025) **2,92,27,885**

Total Outstanding charges of Deviation Charges: **1,09,74,21,912**

Total Outstanding charges of Reactive Energy Charges: **1,30,23,031**

Total Outstanding charges of Jammu & Kashmir: **1,59,34,06,427**



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
भारत सरकार का उद्यम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)

[formerly Power System Operation Corporation Limited (PSOCO)]

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जेत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110016

Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016

CIN : U40105DL2009GOI88682, Website : www.nrlc.in, E-mail : nrlc@grid-india.in, Tel: 011 26519408, 26523889, Fax: 011 26852747

Ref. No. NRLDC/ MO/Legacy dues/ 700

Date : 16th April 2025

To

The Director,

UP SLDC Ltd,

UP SLDC Complex, Vibhuti Khand,

Gomti Nagar, Lucknow- 226010

Sub: Payment of deviation and ancillary services pool account deficit recovery - Reg.

Ref: 1) Our letter NRLDC/MO/DSM/-2024/538 dated 11/11/2024

2) Your letter 4103/CE(CS)/DSM dated 21/11/2024

3) Our Letter NRLDC/MO/Legacy dues dated 04/12/2024

4) Your letter 4309/CE(CS)/DSM/Settlement for Legacy Dues dated 06/12/2024

5) Our Letter NRLDC/MO/Legacy dues /577 dated 19/12/2024

6) Our Letter NRLDC/MO/Legacy dues/579 dated 20/12/2024

7) Your letter 17 DIR(SLDC)/CE(CS)/SE/(EA)/EE(DSM) dated 02/01/2025

8) Our Letter NRLDC/MO/Legacy dues /598 dated 14/01/2025

9) Our Letter NRLDC/MO/Legacy dues /606 dated 22/01/2025

10) Our Letter NRLDC/MO/Legacy dues /641 dated 14/02/2025

11) Our Letter NRLDC/MO/Legacy dues /668 dated 19/03/2025

Sir,

This has reference to NLDC letter dated 11/11/2024 & 13/01/2025 regarding payment of deviation and ancillary services pool account deficit recovery for the period prior to 16/09/2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements" were issued in line with the Deviation Settlement Mechanism Regulations, 2024, CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024 and CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024.

In this context it is noted that payment for all seventeen (17) instalments towards pool deficit recovery of legacy dues as well as the payment of pool deficit recovery as per NLDC statement dated 13/01/2025 are still pending from the State of Uttar Pradesh.

The non-receipt of these payments has resulted in delays in disbursing funds to the entitled beneficiary entities from the pool. Despite multiple communications from our end, UP SLDC has yet to clear the outstanding dues.

Cont...

The total outstanding payment towards pool deficit recovery dues is detailed below:

Sl. No.	Description	Principal (in ₹)	Remarks
1	Pool Deficit Recovery Charges (Legacy Dues)	221,54,28,122	16 nos Instalment (1 st to 16 th) of ₹ 13,42,68,371 each and revised 17 th of ₹ 6,71,34,186 are pending.
2	Pool Deficit Recovery Charges (As per NLDC statement dated 13/01/2025)	17,83,89,832	
	Total Outstanding	239,38,17,954	

UP SLDC, as a member of the regional pool account, serves as the *Nodal Entity* for all payments related to deviation charges, reactive energy charges, and congestion charges for the State of Uttar Pradesh.

In view of above, It is kindly request your kind office to take necessary action and facilitate the settlement of the outstanding dues amounting to ₹239,38,17,954/- (**Rupees Two Hundred Thirty-Nine Crore Thirty-Eight Lakh Seventeen Thousand Nine Hundred and Fifty-Four only**) towards pool deficit recovery charges at the earliest. Timely settlement will avoid any additional interest liability due to delayed payments.

धन्यवाद,

आपका आभारी,

21.2.2025

शेख शदरुद्दीन

मुख्य महाप्रबंधक (मा. ओ.), उ.क्षे.भा.प्रे.के.

Copy for kind information:

1. Secretary, CERC, New Delhi
2. Member Secretary, NRPC, New Delhi
3. Chairman and Managing Director, Grid-India
4. Director (Market Operation), Grid-India
5. Executive Director, NRLDC
6. Executive Director, NLDC



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
भारत सरकार का उत्तम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)

(Formerly Power System Operation Corporation Limited (PSOCL))

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जय सिंह सन्तानवाल मार्ग, कटवारिया सराय, नई दिल्ली-110018

Office : 18-A, Shaheed Jai Singh Santanwal Marg, Katwaria Sarai, New Delhi-110018

CIN : U40306DL2029GOI89682, Website : www.nridc.in, E-mail : nridc@grid-india.in, Tel : 011 2858408, 28573809, Fax : 011 2885747

Ref. No. NRLDC/ MO/Outstanding/ 66A

Date: 19th March 2025

To

The Managing Director
JKPCL, SLDC Building,
1st Floor Ghadni Grid Station,
Naval Bala, Jammu-180 004

Sub: Release of outstanding payment against NR Statutory Pool Accounts - Reg.

- Ref. 1) NRLDC Letter Ref No. 1) NRLDC/ MO/Pool/03-10 Dt: 02/01/2024, to CE (SLDC), JKPCL
2) NRLDC/ MO/Pool/56-63 Dt: 24/01/2024, to CE (SLDC), JKPCL.
3) NRLDC/ MO/Outstanding /89-96 Dt: 13/02/2024, to CE (SLDC), JKPCL
4) NRLDC/ MO/Outstanding /31-139 Dt: 02/04/2024, to CE (SLDC), JKPCL
5) NRLDC/ MO/Outstanding /183-191 Dt: 03/05/2024, to CE (SLDC), JKPCL
6) NRLDC/ MO/Outstanding /210-216 Dt: 20/05/2024, to MD, JKPCL
7) NRLDC/ MO/Outstanding /394-401 Dt: 01/07/2024, to CE (SLDC), JKPCL
8)) NRLDC/ MO/Outstanding /430-438 Dt: 05/08/2024, to CE (SLDC), JKPCL
9) NRLDC/ MO/Outstanding / Dt: 10/10/2024, to CE (SLDC), JKPCL
10) NRLDC/ MO/Outstanding /523-531 Dt: 30/10/2024, to CE (SLDC), JKPCL
11) NRLDC/ MO/Outstanding /564-573 Dt: 12/12/2024, to CE (SLDC), JKPCL
12) NRLDC/ MO/Outstanding /578 Dt: 20/12/2024, to MD, JKPCL
13) NRLDC/ MO/Outstanding /597 Dt: 14/01/2024, to CE (SLDC), JKPCL
14) NRLDC/ MO/Outstanding /640 Dt: 14/02/2024, to CE (SLDC), JKPCL

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have high priority and the concerned utilities are required to pay the indicated amounts within ten days of issue of the weekly energy account by NRPC Secretariat.

Further, kindly refer to the our letter dated 11/11/2024 & 13/01/2025 regarding payment of Net Deviation & Ancillary Services Pool Account Deficit Recovery for period prior 16.09.2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements" were issued in line with the Deviation Settlement Mechanism Regulations, 2024, CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024 and CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024.

In this context it is noted that payment for all seventeen (17) instalments (instalment no 1 to 17) are yet to be received from Jammu and Kashmir.

Cont...

The last payment received in pool accounts from JKPCCL was on 09/02/2024. Now, the outstanding against statutory pool accounts payments as on date (Considering Week 47 of FY 2024-25) by JKPCCL is as briefed here under.

All figures in Rs.

Sl No.	Description	Principal (in ₹)	Remarks
1	Deviation Charges	112,38,07,750	Detailed reconciliation statement is attached at Annex-I
2	Pool Deficit Recovery Charges (Legacy Dues)	45,37,33,599	16 nos Instalment (1 st to 16 th) of ₹ 2,74,99,006 each and revised 17th of ₹ 1,37,49,503 are pending
3	Pool Deficit Recovery Charges	2,92,27,885	As per NLDC statement dated 13/01/2025
Total Outstanding		160,67,69,234	

Due to non-receipt of the payment from JKPCCL, the payments to the receivable entities from the pool are also getting delayed. Despite multiple communications in this regard from our side, JKPCCL has not cleared the outstanding payable amount.

It is therefore request your kind office to look into the matter and facilitate the settlement of the outstanding dues of ₹ 160,67,69,234/- (Rupees One Hundred Sixty Crore Sixty Seven Lakhs Sixty Nine Thousand Two Hundred and Thirty Four only) against the deviation charges and pool deficit recovery charges at the earliest to avoid further accumulation of payable principal amount of deviation charges and the interest on delayed deviation account payments.

It is also requested to regularly make payments to Statutory Pool Accounts as per the Regulations to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी,

श्री. श. स. स. स.
मुख्य महाप्रबंधक (मा. ओ.), उ.क्षे.भा.प्रे.के.

Copy for kind information:

1. Secretary (Power), Ministry of Power, New Delhi
2. Secretary, CERC, 3rd & 4th Floor, Chandernagor Building, 36, Janpath, New Delhi- 110001
3. Principal Secretary, Power Development Department J&K, Lotary building Behind Civil Secretariat, Srinagar, Jammu and Kashmir
4. Member Secretary, NRPC, Katwaria Sarai, New Delhi
5. CMD, GRID-INDIA, CC, 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
6. Director (Market Operation), 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
7. Executive Director, NRLDC, Katwaria Sarai, New Delhi
8. Executive Director, NLDC, Katwaria Sarai, New Delhi

Statement of Deviation Account of JAMMU AND KASHMIR

From 01-01-2023 To 31-03-2025

Sr. No.	A/C BSNZ/ TRANSACTION	DESCRIPTION OF TRANSACTION IN DEVIATION POOL ACCOUNT	ENTRY/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (0444)	AMOUNT RECEIVABLE FROM POOL (0445)	AMOUNT PAID TO POOL (0440)	AMOUNT DEBURSED FROM POOL (0441)	BALANCE AMOUNT (04)
		OPENING BALANCE		49,80,30,632				49,80,30,632
1	02-03-2023	For Week 43(15-01-2023/21-01-2023)	09-01-2024	8,00,28,996				57,80,59,628
2	04-03-2024	BAIT	09-01-2024			20,22,44,289		36,58,15,349
3	06-07-2024	For Week 26(22-01-2024/28-01-2024)	15-02-2024	12,09,04,804				48,67,20,152
4	14-05-2024	For Week 44(27-01-2024/04-02-2024)	23-02-2024	3,10,04,055				51,77,24,207
5	22-03-2024	For Week 44(05-02-2024/11-02-2024)	01-02-2024	4,44,31,017				56,21,55,190
6	04-03-2024	For Week 47(12-02-2024/18-02-2024)	08-02-2024	1,19,29,624				57,40,84,814
7	04-03-2024	For Week 48(19-02-2024/25-02-2024)	15-02-2024	3,22,92,954				60,63,77,768
8	15-05-2024	For Week 49(26-02-2024/03-03-2024)	23-02-2024	3,14,45,264				63,78,23,032
9	21-05-2024	For Week 49(06-03-2024/14-03-2024)	28-02-2024	1,10,78,016				64,89,01,048
10	27-07-2024	For Week 50(11-03-2024/17-03-2024)	03-04-2024	2,04,30,624				66,93,31,672
11	03-04-2024	For Week 51(18-03-2024/24-03-2024)	10-04-2024	1,89,60,960				68,82,92,632
12	10-04-2024	For Week 52(25-03-2024/31-03-2024)	17-04-2024		1,94,64,122			70,77,56,754
13	18-04-2024	For Week 1(01-04-2024/07-04-2024)	25-04-2024	8,49,57,549				79,27,14,303
14	26-04-2024	For Week 2(08-04-2024/14-04-2024)	03-05-2024	93,64,229				80,60,78,532
15	03-05-2024	For Week 3(15-04-2024/21-04-2024)	10-05-2024	1,26,53,699				81,87,32,231
16	09-05-2024	For Week 4(22-04-2024/28-04-2024)	16-05-2024	1,53,98,973				83,41,31,204
17	16-05-2024	For Week 5(29-04-2024/05-05-2024)	23-05-2024		1,45,28,512			84,86,59,716
18	22-05-2024	For Week 6(06-05-2024/12-05-2024)	29-05-2024		2,54,10,491			87,40,70,207
19	30-05-2024	For Week 7(13-05-2024/19-05-2024)	14-06-2024		2,51,94,190			89,92,64,397
20	06-06-2024	For Week 8(20-05-2024/26-05-2024)	13-06-2024		4,22,48,245			94,15,12,642
21	14-06-2024	For Week 9(27-05-2024/02-06-2024)	21-06-2024		3,67,34,191			97,82,46,833
22	20-06-2024	For Week 10(03-06-2024/09-06-2024)	27-06-2024		53,62,640			1,03,15,11,473
23	27-06-2024	For Week 11(10-06-2024/16-06-2024)	04-07-2024	11,52,91,398				1,14,68,02,871
24	05-07-2024	For Week 12(17-06-2024/23-06-2024)	12-07-2024	29,61,107				1,44,29,14,078
25	12-07-2024	For Week 13(24-06-2024/30-06-2024)	19-07-2024		2,53,38,295			1,70,67,42,373
26	19-07-2024	For Week 14(01-07-2024/07-07-2024)	26-07-2024		8,69,20,139			1,79,36,62,512
27	26-07-2024	For Week 15(08-07-2024/14-07-2024)	01-08-2024		1,14,04,845			1,90,51,47,357
28	03-08-2024	For Week 16(15-07-2024/21-07-2024)	08-08-2024		8,11,32,094			2,08,63,59,451
29	10-08-2024	For Week 17(22-07-2024/28-07-2024)	14-08-2024		1,24,38,259			2,21,01,87,710
30	14-08-2024	For Week 18(28-07-2024/04-08-2024)	23-08-2024		3,87,97,325			2,59,89,15,035
31	27-08-2024	For Week 19(05-08-2024/11-08-2024)	03-09-2024		2,04,24,235			2,80,13,39,270
32	04-09-2024	For Week 20(12-08-2024/18-08-2024)	09-09-2024		2,99,14,048			3,09,37,43,318

Sr. No.	AC/ISBUE/ TRANSACTION	DEBITOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUY/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs.) (A)	AMOUNT RECEIVABLE FROM POOL (Rs.) (B)	AMOUNT PAID TO POOL (Rs.) (C)	AMOUNT DISBURSED FROM POOL (Rs.) (D)	BALANCE AMOUNT (Rs.)
33	36-09-2024	For Week 21(9-08-2024/25-08-2024)	13-09-2024	8,10,34,25				41,28,90,238
34	17-09-2024	For Week 22(26-08-2024/01-09-2024)	24-09-2024		18,21,134			41,50,36,719
35	19-09-2024	For Week 23(02-09-2024/08-09-2024)	28-09-2024	38,72,586				42,89,21,299
36	20-09-2024	For Week 24(09-09-2024/15-09-2024)	13-10-2024	22,24,894				43,51,38,190
37	07-10-2024	For Week 25(16-09-2024/22-09-2024)	17-10-2024	10,06,87,680				53,18,25,870
38	10-10-2024	For Week 26(23-09-2024/29-09-2024)	20-10-2024	90,65,11,126				34,08,10,966
39	19-10-2024	For Week 27(01-10-2024/06-10-2024)	27-10-2024	24,11,45,986				1,03,18,62,386
40	24-10-2024	For Week 28(07-10-2024/13-10-2024)	09-11-2024	9,31,08,349				1,12,46,42,735
41	06-11-2024	For Week 29(14-10-2024/20-10-2024)	09-11-2024	2,65,81,250				1,15,12,46,585
42	07-11-2024	For Week 30(21-10-2024/27-10-2024)	19-11-2024		1,60,59,618			1,13,51,36,967
43	13-11-2024	For Week 31(28-10-2024/03-11-2024)	28-11-2024	2,28,70,1230				1,15,79,93,825
44	08-11-2024	For Week 32(04-11-2024/10-11-2024)	30-11-2024		1,20,71,99			1,14,49,22,675
45	24-11-2024	For Week 33(11-11-2024/17-11-2024)	08-12-2024		1,57,08,777			1,13,09,28,948
46	09-11-2024	For Week 34(18-11-2024/24-11-2024)	19-12-2024	3,38,16,587				1,14,08,58,455
47	11-12-2024	For Week 35(25-11-2024/01-12-2024)	21-12-2024	1,67,55,030				1,16,16,13,525
48	20-12-2024	For Week 36(02-12-2024/08-12-2024)	28-12-2024	1,82,25,444				1,17,18,40,999
49	24-12-2024	For Week 37(09-12-2024/15-12-2024)	09-01-2025	3,13,66,473				1,20,32,07,472
50	04-01-2025	For Week 38(16-12-2024/22-12-2024)	13-01-2025	6,14,77,134				1,26,46,84,606
51	16-01-2025	For Week 39(23-12-2024/29-12-2024)	10-01-2025		47,08,275			1,26,09,27,339
52	16-01-2025	For Week 40(30-12-2024/05-01-2025)	16-01-2025		9,44,30,127			1,20,49,48,212
53	23-01-2025	For Week 41(06-01-2025/12-01-2025)	02-02-2025	2,19,46,984				1,23,68,95,246
54	29-01-2025	For Week 42(13-01-2025/19-01-2025)	08-02-2025		68,40,765			1,23,32,48,381
55	06-02-2025	For Week 43(20-01-2025/26-01-2025)	16-02-2025		2,74,80,862			1,26,09,20,295
56	13-02-2025	For Week 44(27-01-2025/02-02-2025)	23-02-2025		3,48,47,944			1,16,57,54,489
57	20-02-2025	For Week 45(03-02-2025/09-02-2025)	02-03-2025		9,55,887			1,15,75,54,689
58	28-02-2025	For Week 46(10-02-2025/16-02-2025)	10-03-2025		1,49,25,332			1,14,06,39,158
59	06-03-2025	For Week 47(17-02-2025/23-02-2025)	16-03-2025		1,68,21,408			1,12,38,87,750
Total				2,15,41,84,815	83,81,84,783	29,27,44,210	-	1,12,38,87,750

Total Outstanding dues against Pool Deficit Recovery

Pool Deficit Recovery Charges (As per NLDG statement dated 13/01/2025)

Total Outstanding charges of Deviation Charges:

Total Outstanding charges of Junction & Koshchur:

48,37,53,859

2,99,27,880

1,12,80,07,750

1,64,67,69,234



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भारत सरकार का उद्यम

GRID CONTROLLER OF INDIA LIMITED

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उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जेठ सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110016

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Ref. No. NRLDC/ MO/Outstanding/667

Date: 19th March 2025

To
The Executive Engineer,
UT Chandigarh,
Electricity 'OP' Division No. 2,
New Power House, Industrial Area Phase-II,
Chandigarh,

Sub: Payment of outstanding dues against Deviation Charges & Pool deficit recovery

Ref.: 1) NRLDC/MO/2024-25/ dated 01/08/2024
2) NRLDC/MO/DSM-2024/538 dated 11/11/2024
3) NLDC/DSM/Deficit Recovery/2025/ dated 13/01/2025
4) NRLDC/MO/2024-25/ dated 14/01/2025
5) NRLDC/MO/2024-25/629 dated 10/02/2025

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have high priority and the concerned utilities are required to pay the indicated amounts within ten days of issue of the weekly energy account by NRPC Secretariat.

Further, kindly refer to the our letter dated 11/11/2024 & 13/01/2025 regarding payment of Net Deviation & Ancillary Services Pool Account Deficit Recovery for period prior 16.09.2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements" were issued in line with the Deviation Settlement Mechanism Regulations, 2024, CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024 and CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024.

In this context it is noted that payment for the last twelve (12) instalments (instalment no 6 to 17) are yet to be received from Chandigarh.

Due to non-receipt of the payment from Chandigarh UT, the payments to the receivable entities from the pool are also getting delayed. Despite multiple communications in this regard from our side, Chandigarh UT has not cleared the outstanding payable amount.

Cont...

The outstanding against statutory pool accounts payments as on date (Considering Week 47 of FY 2024-25) by Chandigarh is as briefed here under.

Sl. No.	Description	Principal (in ₹)	Remarks
1	Deviation Charges	9,56,53,988	Up to week 47 (17-02-2025/23-02-2025)
2	Pool Deficit Recovery Charges (Legacy Dues) (12 th instalment is due as on date.	4,89,87,390	11 nos Instalment (6 th to 16 th) of ₹ 42,59,773 each and revised 17th of ₹ 21,29,887 are pending
3	Pool Deficit Recovery Charges	53,59,428	As per NTLDC statement dated 13/01/2025
	Total Outstanding	15,00,00,806	

It is therefore request your kind office to look into the matter and facilitate the settlement of the outstanding dues of ₹ 15,00,00,806/- (Rupees Fifteen Crore Eight Hundred and Six only) against the deviation charges and pool deficit recovery charges at the earliest to avoid further accumulation of payable principal amount of deviation charges and the interest on delayed deviation account payments.

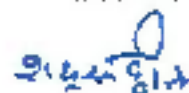
It is also requested to regularly make payments to Statutory Pool Accounts as per the Regulations to avoid any further interest liability on delayed payments.

Further, the banks account details of Chandigarh UT is yet to be received. *The NRLDC could not release a payment of ₹ 1.89 crore towards deviation charges/reactive energy charges to Chandigarh due to the lack of required bank account information.*

It is once again requested that the bank account details of Chandigarh be provided as soon as possible, enabling us to set up electronic payments and facilitate timely disbursements from the pool accounts.

धन्यवाद,

आपका आभारी,



श्री. सदरुद्दीन

मुख्य महाप्रबंधक (मा. ओ.), उ.क्षे.भा.पे.के.

Copy for kind information:

1. Secretary, CERC, 3rd & 4th Floor, Chanderlok Building, 36, Janpath, New Delhi-110001
2. CMD, GRID-INDIA, New Delhi
3. Director (MO), GRID-INDIA, New Delhi
4. Member Secretary, NRPC, New Delhi
5. Executive Director, NLDC/NRLDC, New Delhi



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
गारम सरकार का उद्यम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)

(formerly Power System Operation Corporation Limited (PSOCOL))

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जेत सिंह समझौता मार्ग, कटवारिया सराय, नई दिल्ली-110018

Office : 18-A, Shaheed Jett Singh Samanwai Marg, Katwaria Sarai, New Delhi-110018

CIN : U40305DL2009GOI188682, Website : www.nrlc.in, E-mail : nrlc@grid-india.in, Tel: 011 26519408, 26523882, Fax: 011 26552747

Ref. No. NRLDC/ MO/Legacy dues/ **666**

Date :19th March 2025

To
The Director,
UP SLDC Ltd,
UP SLDC Complex, Vibhudi Khand,
Gomti Nagar, Lucknow- 226010

Sub: Payment of deviation and ancillary services pool account deficit recovery - Reg.

- Ref. 1) Our letter NRLDC/MO/DSM/-2024/538 dated 11/11/2024*
2) Your letter 4103/CE/CS)/DSM dated 21/11/2024
3) Our Letter NRLDC/MO/Legacy dues dated 04/12/2024
4) Your letter 4309/CE/CS)/DSM/Settlement for Legacy Dues) dated 06/12/2024
5) Our Letter NRLDC/MO/Legacy dues /577 dated 19/12/2024
6) Our Letter NRLDC/MO/Legacy dues/579 dated 20/12/2024
7) Your letter 17 DIR(SLDC)/CE(CS)/SF/(FA)/FE(DSM) dated 02/01/2025
8) Our Letter NRLDC/MO/Legacy dues /598 dated 14/01/2025
9) Our Letter NRLDC/MO/Legacy dues /606 dated 22/01/2025
10) Our Letter NRLDC/MO/Legacy dues /641 dated 14/02/2025

Sir,

This has reference to our letter dated 11/11/2024 & 13/01/2025 regarding payment of deviation and ancillary services pool account deficit recovery for the period prior to 16/09/2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements" were issued in line with the Deviation Settlement Mechanism Regulations, 2024, CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024 and CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024..

In this context it is noted that payment for all seventeen (17) instalments (instalment no 1 to 17) and payment of pool deficit recovery as per NLDC statement dated 13/01/2025 are yet to be received from UP state.

Due to non-receipt of the payment from UP, the payments to the receivable entities from the pool are also getting delayed. Despite multiple communications in this regard from our side, UP SLDC has not cleared the outstanding payable amount.

Total outstanding payment of pool deficit recovery dues is given as below:

Sl. No.	Description	Principal (in ₹)	Remarks
1	Pool Deficit Recovery Charges (Legacy Dues)	221,54,28,122	16 nos Instalment (1 st to 16 th) of ₹ 13,42,68,371 each and revised 17 th of ₹ 6,71,34,186 are pending
2	Pool Deficit Recovery Charges (As per NLDC statement dated 13/01/2025)	17,83,89,832	
	Total Outstanding	239,38,17,954	

UP SLDC, being the member of regional pool account is the "Nodal Entity" for all payments related to deviation charges, reactive charges and congestion charges of State of Uttar Pradesh, it is therefore request your kind office to look into the matter and facilitate the settlement of the outstanding dues of ₹ 139,38,17,954/- (Rupees Two Hundred Thirty Nine Crore Thirty Eight Lakhs Seventeen Thousand Nine Hundred and Fifty Four only) against the pool deficit recovery charges at the earliest to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी,

(Signature)

शेखर महाराज

मुख्य महाप्रबंधक (मा. ओ.), उ.खे.भा.प्रे.के.

Copy for kind information:

1. Secretary, CERC, New Delhi
2. Chairman and Managing Director, Grid-India
3. Director (Market Operation), Grid-India
4. Member Secretary, NRPC,
5. Executive Director, NRLDC
6. Executive Director, NLDC



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GRID CONTROLLER OF INDIA LIMITED
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उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जेत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110016

Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016

CIN : U40105DL2009GOI88682, Website : www.nrlcdc.in, E-mail : nrlcdc@grid-india.in, Tel: 011 26539406, 26523869, Fax: 011 26852747

Ref. No. NRLDC/ MO/Legacy dues/64/

Date : 14th February 2025

To

The Director,

UP SLDC Ltd,

UP SLDC Complex, Vibhuti Khand,

Gomti Nagar, Lucknow- 226010

Sub: Payment of deviation and ancillary services pool account deficit recovery (Legacy dues)
- Reg.

Ref: 1) Our letter NRLDC/MO/DSM/-2024/538 dated 11/11/2024

2) Your letter 4103/CE(CS)/DSM dated 21/11/2024

3) Our Letter NRLDC/MO/Legacy dues dated 04/12/2024

4) Your letter 4309/CE(CS)/DSM(Settlement for Legacy Dues) dated 06/12/2024

5) Our Letter NRLDC/MO/Legacy dues /577 dated 19/12/2024

6) Our Letter NRLDC/MO/Legacy dues/579 dated 20/12/2024

7) Your letter 17 DIR(SLDC)/CE(CS)/SE/(EA)/EE(DSM) dated 02/01/2025

8) Our Letter NRLDC/MO/Legacy dues /598 dated 14/01/2025

9) Our Letter NRLDC/MO/Legacy dues /606 dated 22/01/2025

Sir,

This has reference to our letter dated 11/11/2024 & 13/01/2025 regarding payment of deviation and ancillary services pool account deficit recovery for the period prior to 16/09/2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "*Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements*" were issued in line with the Deviation Settlement Mechanism Regulations, 2024, *CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024* and CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024..

In this context it is noted that payment for the last thirteen (13) instalments (instalment no 1 to 13) and payment of pool deficit recovery as per NLDC statement dated 13/01/2025 are yet to be received from UP state.

Total outstanding payment of pool deficit recovery dues given as below:

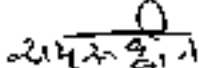
SL No.	Description	Principal (in ₹)	Remarks
1	Pool Deficit Recovery Charges (Legacy Dues) (13 th instalment is due as on date.	174,54,88,823	13 nos Instalment (1 st to 13 th) of ₹ 13,42,68,371 each are pending out of total 20 instalment
2	Pool Deficit Recovery Charges (As per NLDC statement dated 13/01/2025)	17,83,89,832	
	Total Outstanding	192,38,78,655	

UP SLDC, being the member of regional pool account is the "Nodal Entity" for all payments related to deviation charges, reactive charges and congestion charges of State of Uttar Pradesh, it is therefore request your kind office to look into the matter and facilitate the settlement of the outstanding dues of ₹ 192,38,78,655/- (Rupees One Hundred Ninety Two Crore Thirty Eight Lakhs Seventy Eight Thousand Six Hundred and Fifty Five only) against the pool deficit recovery charges at the earliest.

Further, it is also requested that timely payment for forthcoming instalments may be ensured to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी,



शोख शदरुद्दीन

मुख्य महाप्रबंधक (मा. औ.), उ.क्षे.भा.प्रे.के.

Copy for kind information:

1. Secretary, CERC, New Delhi
2. Chairman and Managing Director, Grid-India
3. Director (Market Operation), Grid-India
4. Member Secretary, NRPC,
5. Executive Director, NRLDC
6. Executive Director, NLDC



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उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जीत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110016

Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016

CIN : U40105DL2009G0188882, Website : www.nrlcdc.in, E-mail : nrlcdc@grid-india.in, Tel: 011 26519405, 26523889, Fax: 011 26852747

Ref. No. NRLDC/ MO/Outstanding/ 640

Date: 14th February 2025

To

The Chief Engineer
JKPCL, SLDC Building,
1st Floor Gladni Grid Station,
Nanval Bala, Jammu-180 004

Sub: Release of outstanding payment against NR Statutory Pool Accounts - Reg.

Ref: 1) NRLDC Letter Ref No. 1) NRLDC/ MO/Pool/03-10 Dt: 02/01/2024, to CE (SLDC), JKPCL
2) NRLDC/ MO/Pool/56-63 Dt: 24/01/2024, to CE (SLDC), JKPCL
3) NRLDC/ MO/Outstanding /89-96 Dt: 13/02/2024, to CE (SLDC), JKPCL
4) NRLDC/ MO/Outstanding /31-139 Dt: 02/04/2024, to CE (SLDC), JKPCL
5) NRLDC/ MO/Outstanding /183-191 Dt: 03/05/2024, to CE (SLDC), JKPCL
6) NRLDC/ MO/Outstanding /210-216 Dt: 20/05/2024, to MD, JKPCL
7) NRLDC/ MO/Outstanding /394-401 Dt: 01/07/2024, to CE (SLDC), JKPCL
8)) NRLDC/ MO/Outstanding /430-438 Dt: 05/08/2024, to CE (SLDC), JKPCL
9) NRLDC/ MO/Outstanding / Dt: 10/10/2024, to CE (SLDC), JKPCL
10) NRLDC/ MO/Outstanding /523-531 Dt: 30/10/2024, to CE (SLDC), JKPCL
11) NRLDC/ MO/Outstanding /564-573 Dt: 12/12/2024, to CE (SLDC), JKPCL
12) NRLDC/ MO/Outstanding /578 Dt: 20/12/2024, to MD, JKPCL
13) NRLDC/ MO/Outstanding /597 Dt: 14/01/2024, to CE (SLDC), JKPCL

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have **high priority** and the concerned utilities are required to pay the indicated amounts within ten days of issue of the weekly energy account by NRPC Secretariat.

Further, kindly refer to the NRLDC letter dated 11/11/2024 & 13/01/2025 regarding payment of Net Deviation & Ancillary Services Pool Account Deficit Recovery for period prior 16.09.2024 (Statement of legacy dues) and for period 16.09.2024 to 22.12.2024. It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statements" were issued in line with the Deviation Settlement Mechanism Regulations, 2024, CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024 and CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024.

In this context it is noted that payment for the last thirteen (13) instalments (instalment no 1 to 13) are yet to be received from Jammu and Kashmir.

Cont...



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CIN : U40105DL2009GOI88882, Website : www.nrlc.in, E-mail : nrlc@grid-india.in, Tel: 011 26519406, 26523889, Fax: 011 26852747

Ref. No. NRLDC/ MO/Legacy dues/606

Date : 21st January 2025

22

To

The Director,

UP SLDC Ltd,

UP SLDC Complex, Vibhuti Khand,

Gomti Nagar, Lucknow- 226010

Sub: Payment of deviation and ancillary services pool account deficit recovery (Legacy dues)
- Reg.

Ref: 1) Our letter NRLDC/MO/DSM/-2024/538 dated 11/11/2024

2) Your letter 4103/CE(CS)/DSM dated 21/11/2024

3) Our Letter NRLDC/MO/Legacy dues dated 04/12/2024

4) Your letter 4309/CE(CS)/DSM(Settlement for Legacy Dues) dated 06/12/2024

5) Our Letter NRLDC/MO/Legacy dues /577 dated 19/12/2024

6) Our Letter NRLDC/MO/Legacy dues/579 dated 20/12/2024

7) Your letter 17 DIR(SLDC)/CE(CS)/SE(EA)/EE(DSM) dated 02/01/2025

8) Our Letter NRLDC/MO/Legacy dues /598 dated 14/01/2025

Sir,

This has reference to our letter dated 11/11/2024 regarding payment of deviation and ancillary services pool account deficit recovery for the period prior to 16/09/2024 (Statement of legacy dues). It is to state that the deficit payment statement "*Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024*" was issued in line with the Deviation Settlement Mechanism Regulations, 2024 and *CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024*.

CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024 regarding recovery of legacy dues in the Deviation Settlement Mechanism (DSM) Pool Account states that the methodology approved in the detailed procedure vide the Order dated 15.10.2024 is applicable for recovery of charges in case of the deficits in the DSM Pool Account "as on and from 16th September 2024.

In this context it is noted that payment for the last nine (9) instalments (instalment no 1 to 9) are yet to be received from UP state. As you are aware that this payment quantum of each state/drawee DICs towards net Deviation and Ancillary Services is to be settled through 20 equal weekly instalments, of which first 9 instalments have been under collection at respective RLDC.

Cont...

Total outstanding payment of legacy dues given as below:

Sr. No	Per Instalment Amount (in ₹)	Total Instalment Due as on date (in Nos.)	Total Outstanding Legacy dues (in ₹)
1	13,42,68,371	9	120,84,15,339/-

UP SLDC, being the member of regional pool account is the "Nodal Entity" for all payments related to deviation charges, reactive charges and congestion charges of State of Uttar Pradesh. Therefore, you are once again requested to clear all the payment of pending instalments mentioned in the legacy dues statement for UP state at the earliest.

Further, it is also requested that timely payment for forthcoming instalments may be ensured to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी,

(Handwritten Signature)
24/11/2025
(एन. राँय)

कार्यपालक निदेशक- उ०क्षे०भा०प्रे०के०

Copy for kind information:

1. Secretary, CERC, New Delhi
2. Chairman and Managing Director, Grid-India
3. Director (Market Operation), Grid-India
4. Member Secretary, NRPC,
5. Executive Director, NLDC



ग्रिड-इंडिया
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CIN : U40105DL2009GOI188682, Website : www.nrlcdc.in, E-mail : nrlcdc@grid-india.in, Tel: 011 26519406, 26523869, Fax: 011 26852747

Ref. No. NRLDC/ MO/Outstanding/ 597

Date: 14th January 2025

To

The Chief Engineer

JKPCL, SLDC Building,

1st Floor Gladni Grid Station,

Nanval Bala, Jammu-180 004

Sub: Release of outstanding payment against NR Statutory Pool Accounts - Reg.

Ref: 1) NRLDC Letter Ref No. 1) NRLDC/ MO/Pool/03-10 Dt: 02/01/2024, to CE (SLDC), JKPCL

2) NRLDC/ MO/Pool/56-63 Dt: 24/01/2024, to CE (SLDC), JKPCL

3) NRLDC/ MO/Outstanding /89-96 Dt: 13/02/2024, to CE (SLDC), JKPCL

4) NRLDC/ MO/Outstanding /31-139 Dt: 02/04/2024, to CE (SLDC), JKPCL

5) NRLDC/ MO/Outstanding /183-191 Dt: 03/05/2024, to CE (SLDC), JKPCL

6) NRLDC/ MO/Outstanding /210-216 Dt: 20/05/2024, to MD, JKPCL

7) NRLDC/ MO/Outstanding /394-401 Dt: 01/07/2024, to CE (SLDC), JKPCL

8)) NRLDC/ MO/Outstanding /430-438 Dt: 05/08/2024, to CE (SLDC), JKPCL

9) NRLDC/ MO/Outstanding / Dt: 10/10/2024, to CE (SLDC), JKPCL

10) NRLDC/ MO/Outstanding /523-531 Dt: 30/10/2024, to CE (SLDC), JKPCL

11) NRLDC/ MO/Outstanding /564-573 Dt: 12/12/2024, to CE (SLDC), JKPCL

12) NRLDC/ MO/Outstanding /578 Dt: 20/12/2024, to MD, JKPCL

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have **high priority** and the concerned utilities are required to pay the indicated amounts within ten days of issue of the weekly energy account by NRPC Secretariat.

Further, kindly refer the NRLDC letter dated 11/11/2024 regarding payment of Net Deviation & Ancillary Services Pool Account Deficit Recovery for period prior 16.09.2024 (Statement of legacy dues). It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024" was issued in line with the Deviation Settlement Mechanism Regulations, 2024 and CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024.

CERC Suo-Moto order no. 01/SM/2025 dated 08/01/2024 regarding recovery of legacy dues in the Deviation Settlement Mechanism (DSM) Pool Account states that the methodology approved in the detailed procedure vide the Order dated 15.10.2024 is applicable for recovery of charges in case of the deficits in the DSM Pool Account "as on and from 16th September 2024.

Contd...

In this context it is noted that payment for the last eight (8) instalments (instalment no 1 to 8) are yet to be received from Jammu and Kashmir.

The last payment received in pool accounts from JKPCIL was on 09/02/2024. Now, the outstanding against statutory pool accounts payments as on date (Considering Week 38 of FY 2024-25) by JKPCI, is as briefed here under.

All figures in Rs.

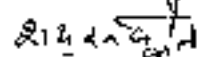
Sl. No.	Description	Principal (up to Week 38)	Remarks
1	Deviation Charges	126,46,86,614	Detailed reconciliation statement is attached at Annex-I
2	Pool Deficit Recovery Charges (8 th Instalment due as on date)	21,99,92,048	
	Total Outstanding	1,48,46,78,662	

It is therefore request your kind office to look into the matter and facilitate the settlement of the outstanding dues of ₹ 1,48,46,78,662/- (Rupees One Hundred Forty Eight Crore Forty Six Lakhs Seventy Eight Thousand Six Hundred and Sixty Two only) against the deviation charges and pool deficit recovery charges at the earliest.

Further, it is also requested that timely payment of deviation charges and forthcoming instalments of pool deficit recovery may kindly be ensured to avoid any further interest liability on delayed payments.

धन्यवाद.

आपका आभारी



श्री. एस. एस. चौधरी

मुख्य महाप्रबंधक (मा. ओ.), उ.क्षे.भा.पै.के.

Copy for kind information:

1. Secretary (Power), Ministry of Power, New Delhi
2. Secretary, CERC, 3rd & 4th Floor, Chanderlok Building, 36, Janpath, New Delhi- 110001
3. Principal Secretary, Power Development Department J&K, Lotary building Behind Civil Secretariat, Srinagar, Jammu and Kashmir
4. MD, JKPCIL, SLDC Building, 1st Floor, Gladan Gric Station, Narval Bala, Jammu
5. Member Secretary, NRPC, Katwaria Sarai, New Delhi
6. CMD, GRID-INDIA, CC, 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
7. Director (Market Operation), 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
8. Executive Director, NRLDC, Katwaria Sarai, New Delhi
9. Executive Director, NLDC, Katwaria Sarai, New Delhi

Statement of Deviation Account of JAMMU AND KASHMIR

From 01-03-2024 To 14-07-2024

Sr. No.	AC ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs/INR)	AMOUNT RECEIVABLE FROM POOL (INR)	AMOUNT PAID TO POOL (Rs/INR)	AMOUNT DISBURSED FROM POOL (Rs/INR)	BALANCE AMOUNT (Rs/INR)
		OPENING BALANCE		49,36,26,632				49,36,26,632
1	02-02-2024	For Week 43(15-01-2024/21-01-2024)	09-02-2024	8,94,26,996				58,30,53,628
2	09-02-2024	PAID	09-02-2024			23,22,44,280		35,08,09,348
3	08-02-2024	For Week 18(23-01-2024/29-01-2024)	15-02-2024	12,08,86,804				30,60,02,157
4	16-02-2024	For Week 45(29-01-2024/04-02-2024)	23-02-2024	8,10,04,355				53,73,06,507
5	23-02-2024	For Week 46(05-02-2024/11-02-2024)	09-03-2024	4,40,31,017				46,79,37,524
6	01-03-2024	For Week 47(13-02-2024/19-02-2024)	08-03-2024	1,19,29,624				59,78,67,148
7	08-03-2024	For Week 48(19-02-2024/25-02-2024)	15-03-2024	3,23,82,553				62,84,29,701
8	15-03-2024	For Week 49(26-02-2024/03-03-2024)	22-03-2024	3,64,45,284				66,26,04,995
9	21-03-2024	For Week 50(03-03-2024/09-03-2024)	29-03-2024	1,19,26,016				67,36,81,011
10	25-03-2024	For Week 51(11-03-2024/17-03-2024)	08-04-2024	2,08,35,621				69,45,16,634
11	03-04-2024	Total Week 52(18-03-2024/24-03-2024)	18-04-2024	1,89,69,960				71,34,86,600
12	10-04-2024	For Week 15(25-03-2024/31-03-2024)	17-04-2024		1,70,06,122			69,64,80,478
13	19-04-2024	For Week 11(01-04-2024/07-04-2024)	26-04-2024	8,49,57,549				78,13,77,027
14	26-04-2024	For Week 2(08-04-2024/14-04-2024)	03-05-2024	93,64,256				79,27,41,281
15	05-05-2024	For Week 23(15-04-2024/21-04-2024)	10-05-2024	1,36,52,699				80,63,93,981
16	09-05-2024	For Week 4(23-04-2024/29-04-2024)	16-05-2024	1,50,98,473				82,14,92,955
17	16-05-2024	For Week 3(29-04-2024/05-05-2024)	23-05-2024		1,40,36,512			80,69,56,443
18	22-05-2024	For Week 4(06-05-2024/12-05-2024)	29-05-2024		2,51,19,697			78,18,16,752
19	30-05-2024	For Week 7(13-05-2024/19-05-2024)	06-06-2024		2,37,94,196			75,66,22,562
20	06-06-2024	For Week 6(20-05-2024/26-05-2024)	13-06-2024		4,28,88,745			71,43,73,817
21	14-06-2024	For Week 4(27-05-2024/03-06-2024)	21-06-2024		3,87,54,181			67,56,19,636
22	20-06-2024	For Week 1(01-06-2024/07-06-2024)	27-06-2024		53,62,640			67,02,56,996
23	27-06-2024	For Week 3(07-06-2024/13-06-2024)	04-07-2024	11,52,91,388				78,55,48,384
24	05-07-2024	For Week 12(17-06-2024/23-06-2024)	12-07-2024	25,61,107				78,87,09,501
25	12-07-2024	For Week 8(13-06-2024/19-06-2024)	19-07-2024		7,50,08,295			71,28,01,206
26	19-07-2024	For Week 10(01-07-2024/07-07-2024)	26-07-2024		8,09,20,179			63,18,31,027
27	26-07-2024	For Week 17(08-07-2024/14-07-2024)	01-08-2024		10,41,06,487			52,76,34,539

Sl. No	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO TOOL (RsM)	AMOUNT RECEIVABLE FROM TOOL (RsM)	AMOUNT PAID TO TOOL (RsM)	AMOUNT DISBURSED FROM TOOL (RsM)	BALANCE AMOUNT (Rs)
24	01-06-2024	For Week : 01/05-07-2024/ 21-07-2024)	06-08-2024		8,11,92,084			41,64,42,490
25	09-06-2024	For Week : 17/02-07-2024/ 28-07-2024)	16-08-2024		1,24,88,254			43,36,54,237
30	16-08-2024	For Week : 11/07-07-2024/ 04-08-2024)	29-08-2024		3,67,47,725			35,51,56,972
31	27-08-2024	For Week : 19/05-08-2024/ 11-09-2024)	09-09-2024		2,04,24,755			37,43,32,157
32	30-08-2024	For Week : 29/12-08-2024/ 18-08-2024)	06-09-2024					39,08,21,109
33	08-09-2024	For Week : 21/08-08-2024/ 25-08-2024)	13-09-2024	A,30,19,429	2,39,11,045			43,38,60,338
34	17-09-2024	For Week : 22/09-08-2024/ 01-10-2024)	24-09-2024		46,21,879			42,80,08,710
35	19-09-2024	For Week : 23/02-09-2024/ 08-09-2024)	26-09-2024	34,72,340				42,89,11,299
36	26-09-2024	For Week : 24/09-09-2024/ 13-09-2024)	03-10-2024	22,36,891				43,71,38,190
37	07-10-2024	For Week : 25/16-09-2024/ 23-09-2024)	17-10-2024	10,04,67,500				53,18,06,870
38	10-10-2024	For Week : 26/24-09-2024/ 29-09-2024)	20-10-2024	30,85,11,126				84,02,16,996
39	17-10-2024	For Week : 27/30-09-2024/ 06-10-2024)	27-10-2024	19,11,45,740				1,00,14,62,286
40	24-10-2024	For Week : 28/07-10-2024/ 13-10-2024)	09-11-2024	9,31,80,369				1,12,46,42,755
41	30-10-2024	For Week : 29/14-10-2024/ 20-10-2024)	09-11-2024	7,65,98,730				1,15,12,36,502
42	07-11-2024	For Week : 30/21-10-2024/ 27-10-2024)	17-11-2024		1,60,79,818			1,15,51,56,687
43	13-11-2024	For Week : 31/28-10-2024/ 03-11-2024)	23-11-2024	2,26,37,138				1,16,77,98,822
44	20-11-2024	For Week : 01/04-11-2024/ 10-11-2024)	30-11-2024		1,30,71,150			1,14,47,22,675
45	28-11-2024	For Week : 02/04-11-2024/ 17-11-2024)	08-12-2024		1,37,48,727			1,13,09,73,948
46	05-12-2024	For Week : 04/18-11-2024/ 24-11-2024)	15-12-2024	1,38,84,577				1,14,48,58,525
47	11-12-2024	For Week : 05/25-11-2024/ 01-12-2024)	21-12-2024	1,67,55,070				1,16,36,10,555
26	20-12-2024	For Week : 06/02-12-2024/ 08-12-2024)	26-12-2024	1,07,29,444				1,17,48,42,999
27	24-12-2024	For Week : 30/09-12-2024/ 16-12-2024)	03-01-2025	3,13,66,179				1,20,33,09,478
28	10-01-2025	For Week : 08/16-12-2024/ 22-12-2024)	13-01-2025	6,14,77,176				1,26,46,86,614
Total				2,12,72,81,881	65,53,10,987	20,22,44,280		1,26,46,86,614

Total Outstanding dues against Pool Deficit Recovery 21,99,92,048 8 Nos instrument of ₹ 27699000 each are due as on 16/01/2025

Total Outstanding charges of Deviation Charges 1,26,46,86,614

Total Outstanding charges of Jammu & Kashmir 1,48,46,78,662



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
भारत सरकार का उद्यम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)

(Formerly Power System Operation Corporation Limited (PSOCL))

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जेठ सिंह सनसरवाल मार्ग, कटवारिया सराय, नई दिल्ली-110018

Office : 18-A, Shaheed Jeet Singh Sansewarwal Marg, Katwaria Sarai, New Delhi-110018

CIN: U40005DL2009GOI88682, Website: www.nrlcdc.in, E-mail: nrlcdc@grid-india.in, Tel: 011 26610406, 26623889, Fax: 011 26652747

Ref. No. NRLDC/ MO/Legacy dues/ **596**

Date: 14th January 2025

To

The Chief Engineer (C&S)

UP SLDC Ltd,

UP SLDC Complex, Vibhuti Khand,

Gomti Nagar, Lucknow- 226010

Sub: Payment of deviation and ancillary services pool account deficit recovery (Legacy dues)
- Reg.

Ref: 1) Your letter 4103/CE(CS)/DSM dated 21/11/2024

2) Our Letter NRLDC/MO/Legacy dues dated 04/12/2024

3) Your letter 4309/CE(CS)/DSM(Settlement for Legacy Dues) dated 06/12/2024

4) Our Letter NRLDC/MO/Legacy/577 dues/19/12/2024

5) Our Letter NRLDC/MO/Legacy/579 dues/20/12/2024

6) Your letter 17 DIR(SLDC)/CE(CS)/SE(EA)/EE(DSM) dated 02/01/2025

Sir,

This has reference to our letter dated 11/11/2024 regarding payment of deviation and ancillary services pool account deficit recovery for the period prior to 16/09/2024 (Statement of legacy dues). It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024" was issued in line with the Deviation Settlement Mechanism Regulations, 2024 and CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024.

Further CERC Sou-moto order no. 01/SM/2025 dated 08/01/2024 regarding recovery of legacy dues in the Deviation Settlement Mechanism (DSM) Pool Account states that the methodology approved in the detailed procedure vide the Order dated 15.10.2024 is applicable for recovery of charges in case of the deficits in the DSM Pool Account "as on and from 16th September 2024.

In this context it is noted that payment for the last Eight (8) instalments (instalment no 1 to 8) are yet to be received from UP state. As you are aware that this payment quantum of each state/drawee DfCs towards net Deviation and Ancillary Services is to be settled through 20 equal weekly instalments, of which first 8 instalments have been under collection at respective RLDC. You are therefore once again requested to clear all the payment of pending instalments mentioned in the legacy dues statement for UP state at the earliest.

Cont...

Total outstanding payment of legacy dues given as below:

Sr. No	Per Instalment Amount (in ₹)	Total Instalment Due as on date (in Nos.)	Total Outstanding Legacy dues (in ₹)
1	13,42,68,371	8	107,41,46,968

Further, it is also requested that timely payment for forthcoming instalments may be ensured to avoid any further interest liability on delayed payments.

In view of above, you are once again requested to clear all the payment of pending instalments (instalment no 1 to 8) mentioned in the legacy dues statement for Uttar Pradesh state at the earliest.

धन्यवाद,

आपका आभारी,

०२.५.२०१६

(सोहन शर्मा)

मु. महाप्रबंधक (मा. ओ.), उ.प्र.भा.पे.के.

Copy for kind information:

1. Secretary, CERC, New Delhi
2. Member Secretary, NRPC
3. Director (Market Operation), Grid-India
4. Executive Director, NLDC
5. Director, UP SI.DC, UP SI.DC Complex, Vibhuti Khand, Gomti Nagar, Lucknow- 226010

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शहीद जीत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110016

Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016

CIN : U40105DL2009GOI188682, Website : www.nrlcdc.in, E-mail : nrlcdc@grid-india.in, Tel: 011 26519406, 26523888, Fax: 011 26852747

Ref. No. NRLDC/ MO/Outstanding/ 578

Date: 20th December 2024

To

The Managing Director

JKPCL,

1st Floor JERC Building,

Ambedkar Road, Panama Chowk

Jammu , J&K -180016

Sub: Outstanding Dues towards the NR Statutory Pool Account (Deviation Charges) - Reg.

- Ref: 1) NRLDC Letter Ref No. 1) NRLDC/ MO/Pool/03-10 Dt: 02/01/2024, to CE (SLDC), JKPCL
2) NRLDC/ MO/Pool/56-63 Dt: 24/01/2024, to CE (SLDC), JKPCL
3) NRLDC/ MO/Outstanding /89-96 Dt: 13/02/2024, to CE (SLDC), JKPCL
4) NRLDC/ MO/Outstanding /31-139 Dt: 02/04/2024, to CE (SLDC), JKPCL
5) NRLDC/ MO/Outstanding /183-191 Dt: 03/05/2024, to CE (SLDC), JKPCL
6) NRLDC/ MO/Outstanding /210-216 Dt: 20/05/2024, to MD, JKPCL
7) NRLDC/ MO/Outstanding /394-401 Dt: 01/07/2024, to CE (SLDC), JKPCL
8)) NRLDC/ MO/Outstanding /430-438 Dt: 05/08/2024, to CE (SLDC), JKPCL
9) NRLDC/ MO/Outstanding / Dt: 10/10/2024, to CE (SLDC), JKPCL
10) NRLDC/ MO/Outstanding /523-531 Dt: 30/10/2024, to CE (SLDC), JKPCL
11) NRLDC/ MO/Outstanding /564-573 Dt: 12/12/2024, to CE (SLDC), JKPCL

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have **high priority** and the concerned utilities are required to pay the indicated amounts within seven days of issue of the weekly energy account by NRPC Secretariat.

The Deviation charges payable by JKPCL to the "Northern Regional Pool Account" have been piling up since last 10 months and now stands at around ₹116.16 crores as on 20/12/2024 (principal amount). Week wise outstanding details attached at Annexure-I, which shows that no payment has been made since beginning of 2024. Despite multiple communications in this regard from our side, JKPCL has not cleared the outstanding payable amount. Due to non-receipt of payment from JKPCL, the payable amount to the receivable entities from the Pool are also held up due to non-availability of funds in the account.

Further kindly refer the NRLDC letter dated 11/11/2024 regarding payment of Net Deviation & Ancillary Services Pool Account Deficit Recovery for period prior 16.09.2024 (Statement of legacy dues). In this context it is noted that payment for the last five (5) instalments (instalment no 1 to 5) are yet to be received from Jammu and Kashmir.

Cont....



Summary of outstanding payments of JKPCL is given below:

All figures in Rs. Lakhs

Sl. No.	Description	Principal (up to Week 35)	Remarks
1	Deviation Charges	11616.14	Detailed reconciliation statement is attached at Annex-I
2	Pool Deficit Recovery Charges (5 th Instalment due as on date)	1374.95	
	Total Outstanding	12991.08	

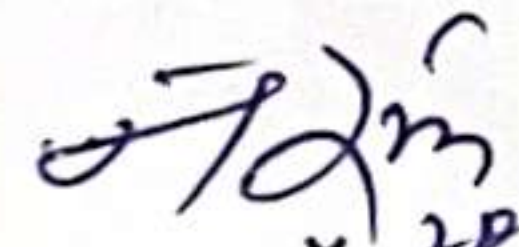
It is worth mention here that due to non-receipt of the aforesaid payments within the schedule timelines as stipulated in the regulation, the delay payment interest liabilities on the outstanding principle amount is also piling up, which has accumulated to a substantial amount, which can be quantified only after settlement of the principle amount.

We therefore request your kind office to look into the matter and arrange for the settlement of the outstanding dues of ₹ 129,91,08,585 /- (Rupees One Hundred Twenty Nine Crore Ninety one Lakhs Eight Thousand Five Hundred and Eighty Five only) against the deviation charges and pool deficit recovery charges at the earliest.

Further, it is also requested that timely payment of deviation charges and forthcoming instalments of pool deficit recovery may kindly be ensured to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी,


(एन. रॉय) 22/12/2024

कार्यपालक निदेशक- उ०क्षे०भा०प्रे०के०

Encl.: As stated above.

Copy for kind information:

1. Secretary (Power), Ministry of Power, New Delhi
2. Secretary, CERC, 3rd & 4th Floor, Chanderlok Building, 36, Janpath, New Delhi- 110001
3. Principal Secretary, Power Development Department J&K, Lotary building Behind Civil Secretariat, Srinagar, Jammu and Kashmir
4. Member Secretary, NRPC, Katwaria Sarai, New Delhi
5. CMD, GRID-INDIA, CC, 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
6. Director (Market Operation), 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
7. Executive Director, NLDC, Katwaria Sarai, New Delhi

Statement of Deviation Account of JAMMU AND KASHMIR

From 01-02-2024 To 20-12-2024

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
		OPENING BALANCE		49,86,30,632				49,86,30,632
1	02-02-2024	For Week:43(15-01-2024/ 21-01-2024)	09-02-2024	8,90,28,996				58,76,59,628
2	09-02-2024	PAID	09-02-2024			20,22,44,280		38,54,15,348
3	08-02-2024	For Week:44(22-01-2024/ 28-01-2024)	15-02-2024	12,08,86,804				50,63,02,152
4	16-02-2024	For Week:45(29-01-2024/ 04-02-2024)	23-02-2024	3,10,04,355				53,73,06,507
5	23-02-2024	For Week:46(05-02-2024/ 11-02-2024)	01-03-2024	4,46,31,017				58,19,37,524
6	01-03-2024	For Week:47(12-02-2024/ 18-02-2024)	08-03-2024	1,19,29,624				59,38,67,148
7	08-03-2024	For Week:48(19-02-2024/ 25-02-2024)	15-03-2024	3,22,92,553				62,61,59,701
8	15-03-2024	For Week:49(26-02-2024/ 03-03-2024)	22-03-2024	3,64,45,294				66,26,04,995
9	21-03-2024	For Week:50(04-03-2024/ 10-03-2024)	28-03-2024	1,10,76,016				67,36,81,011
10	27-03-2024	For Week:51(11-03-2024/ 17-03-2024)	03-04-2024	2,08,33,623				69,45,14,634
11	03-04-2024	For Week:52(18-03-2024/ 24-03-2024)	10-04-2024	1,89,69,966				71,34,84,600
12	10-04-2024	For Week :53(25-03-2024/ 31-03-2024)	17-04-2024		1,50,65,122			69,84,19,478
13	19-04-2024	For Week:1(01-04-2024/ 07-04-2024)	26-04-2024	8,49,57,549				78,33,77,027
14	26-04-2024	For Week:2(08-04-2024/ 14-04-2024)	03-05-2024	93,64,256				79,27,41,283
15	03-05-2024	For Week:3(15-04-2024/ 21-04-2024)	10-05-2024	1,36,52,699				80,63,93,982
16	09-05-2024	For Week:4(22-04-2024/ 28-04-2024)	16-05-2024	1,50,98,973				82,14,92,955
17	16-05-2024	For Week :5(29-04-2024/ 05-05-2024)	23-05-2024		1,45,56,512			80,69,36,443
18	22-05-2024	For Week :6(06-05-2024/ 12-05-2024)	29-05-2024		2,51,19,691			78,18,16,752
19	30-05-2024	For Week :7(13-05-2024/ 19-05-2024)	06-06-2024		2,51,94,190			75,66,22,562
20	06-06-2024	For Week :8(20-05-2024/ 26-05-2024)	13-06-2024		4,22,48,745			71,43,73,817
21	14-06-2024	For Week :9(27-05-2024/ 02-06-2024)	21-06-2024		3,87,54,181			67,56,19,636
22	20-06-2024	For Week :10(03-06-2024/ 09-06-2024)	27-06-2024		53,62,640			67,02,56,996
23	27-06-2024	For Week:11(10-06-2024/ 16-06-2024)	04-07-2024	11,52,91,398				78,55,48,394
24	05-07-2024	For Week:12(17-06-2024/ 23-06-2024)	12-07-2024	25,61,107				78,81,09,501
25	12-07-2024	For Week :13(24-06-2024/ 30-06-2024)	19-07-2024		7,53,08,295			71,28,01,206
26	19-07-2024	For Week :14(01-07-2024/ 07-07-2024)	26-07-2024		8,09,70,139			63,18,31,067
27	25-07-2024	For Week :15(08-07-2024/ 14-07-2024)	01-08-2024		10,41,96,483			52,76,34,584
28	01-08-2024	For Week :16(15-07-2024/ 21-07-2024)	08-08-2024		8,11,92,094			44,64,42,490

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
29	09-08-2024	For Week :17(22-07-2024/28-07-2024)	16-08-2024		1,24,88,253			43,39,54,237
30	16-08-2024	For Week :18(29-07-2024/04-08-2024)	23-08-2024		3,87,97,325			39,51,56,912
31	27-08-2024	For Week :19(05-08-2024/11-08-2024)	03-09-2024		2,04,24,755			37,47,32,157
32	30-08-2024	For Week :20(12-08-2024/18-08-2024)	06-09-2024		2,39,11,048			35,08,21,109
33	06-09-2024	For Week:21(19-08-2024/25-08-2024)	13-09-2024	8,30,39,429				43,38,60,538
34	17-09-2024	For Week :22(26-08-2024/01-09-2024)	24-09-2024		88,21,819			42,50,38,719
35	19-09-2024	For Week:23(02-09-2024/08-09-2024)	26-09-2024	38,72,580				42,89,11,299
36	26-09-2024	For Week:24(09-09-2024/15-09-2024)	03-10-2024	22,26,891				43,11,38,190
37	07-10-2024	For Week:25(16-09-2024/22-09-2024)	17-10-2024	10,06,67,680				53,18,05,870
38	10-10-2024	For Week:26(23-09-2024/29-09-2024)	20-10-2024	30,85,11,126				84,03,16,996
39	17-10-2024	For Week:27(30-09-2024/06-10-2024)	27-10-2024	19,11,45,390				1,03,14,62,386
40	24-10-2024	For Week:28(07-10-2024/13-10-2024)	03-11-2024	9,31,80,369				1,12,46,42,755
41	30-10-2024	For Week:29(14-10-2024/20-10-2024)	09-11-2024	2,65,93,750				1,15,12,36,505
42	07-11-2024	For Week :30(21-10-2024/27-10-2024)	17-11-2024		1,60,79,818			1,13,51,56,687
43	13-11-2024	For Week:31(28-10-2024/03-11-2024)	23-11-2024	2,26,37,138				1,15,77,93,825
44	20-11-2024	For Week :32(04-11-2024/10-11-2024)	30-11-2024		1,30,71,150			1,14,47,22,675
45	28-11-2024	For Week :33(11-11-2024/17-11-2024)	08-12-2024		1,37,48,727			1,13,09,73,948
46	05-12-2024	For Week :34(18-11-2024/24-11-2024)	15-12-2024	1,38,84,577				1,14,48,58,525
47	11-12-2024	For Week :35(25-11-2024/01-12-2024)	21-12-2024	1,67,55,030				1,16,16,13,555
Total				2,01,91,68,822	65,53,10,987	20,22,44,280	-	1,16,16,13,555

Total Outstanding dues against Pool Deficit Recovery

13,74,95,030

5 Nos instalment of ₹ 27499006 each are due as on 20/12/2024

Total Outstanding charges of Deviation Charges:

1,16,16,13,555

Total Outstanding charges of Jammu & Kashmir:

1,29,91,08,585

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शहीद जीत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110016

Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016

CIN : U40105DL2009GOI188682, Website : www.nrlcdc.in, E-mail : nrlcdc@grid-india.in, Tel: 011 26519406, 26523869, Fax: 011 26852747

Ref. No. NRLDC/ MO/Legacy dues/ 579

Date: 20th December 2024

To
The Director,
UP SLDC Ltd,
UP SLDC Complex, Vibhuti Khand,
Gomti Nagar, Lucknow- 226010

Sub: Payment of deviation and ancillary services pool account deficit recovery (Legacy dues)
- Reg.

Ref: 1) Our letter NRLDC/MO/DSM/-2024/538 dated 11/11/2024

2) NRLDC/MO/Legacy dues dated 04/12/2024

Sir,

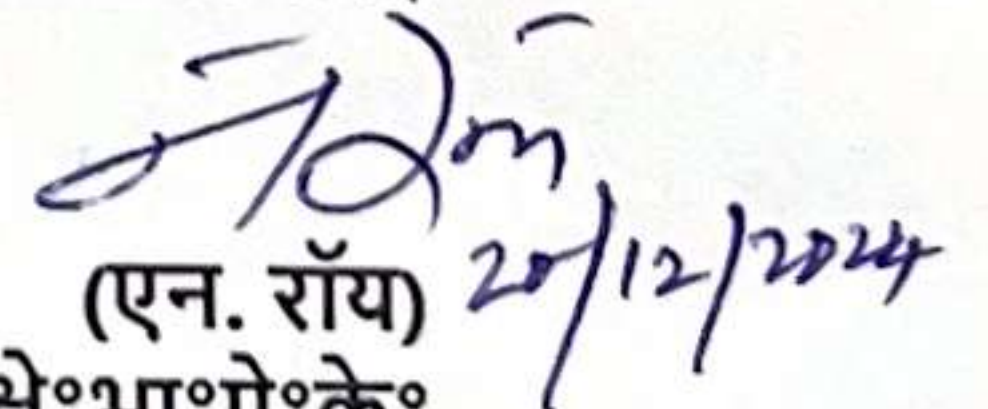
This has reference to our letter dated 11/11/2024 regarding payment of deviation and ancillary services pool account deficit recovery for the period prior to 16/09/2024 (Statement of legacy dues). It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024" was issued in line with the Deviation Settlement Mechanism Regulations, 2024 and CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024.

In this context it is noted that payment for the last five (5) instalments (instalment no 1 to 5) are yet to be received from UP state. As you are aware that this payment quantum of each state/drawee DICs towards net Deviation and Ancillary Services is to be settled through 20 equal weekly instalments, of which first 5 instalments have been under collection at respective RLDC. You are therefore once again requested to clear all the payment of pending instalments mentioned in the legacy dues statement for UP state at the earliest.

Further, it is also requested that timely payment for forthcoming instalments may be ensured to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी,


(एन. रॉय) 20/12/2024

कार्यपालक निदेशक- उ०क्षे०भा०प्रे०के०

Copy for kind information:

1. Secretary, CERC, New Delhi
2. Chairman and Managing Director, Grid-India
3. Director (Market Operation), Grid-India
4. Member Secretary, NRPC,
5. Executive Director, NLDC
6. Chief Engineer (C&S), UP SLDC

Ref. No. NRLDC/ MO/Legacy dues/ 577

Date: 19th December 2024

To

The Chief Engineer (C&S)**UP SLDC Ltd,****UP SLDC Complex, Vibhuti Khand,****Gomti Nagar, Lucknow- 226010**

Sub: Payment of deviation and ancillary services pool account deficit recovery (Legacy dues)
- Reg.

Ref: 1) Your letter 4103/CE(CS)/DSM dated 21/11/2024

2) Our Letter NRLDC/MO/Legacy dues dated 04/12/2024

3) Your letter 4309/CE(CS)/DSM(Settlement for Legacy Dues) dated 06/12/2024

Sir,

This has reference to your letter dated 06/12/2024 regarding payment of deviation and ancillary services pool account deficit recovery for the period prior to 16/09/2024 (Statement of legacy dues). It is to state that the deficit payment statement "Net Deviation & Ancillary Services Pool Account Deficit Recovery Statement for period prior 16.09.2024" was issued in line with the Deviation Settlement Mechanism Regulations, 2024 and CERC approved procedure vide order No. L-1/260/2021/CERC dated 15th October 2024.

As per the Electricity Act 2003, UP SLDC is responsible for scheduling & despatch of electricity, Energy Accounting and DSM settlement etc in control area of Uttar Pradesh state. SLDC being the Apex body of the state is responsible for the payments/dues related to DSM/Ancillary/Reactive charges as per the principal regulations. The responsibility of payments of legacy dues which also pertain to the dues related to DSM/Reactive/Ancillary charges is that of statutory body of the state in line with the principal regulations.

All the payments related to deviation charges, reactive charges and congestion charges of Uttar Pradesh state is being paid/received by UP SLDC as UP SLDC is the member of regional deviation and ancillary services pool account. The Legacy dues also pertain to the dues related to Deviation, Reactive and Ancillary charges. Therefore, the responsibility of payment of these dues is that of the members of the DAS pool Account.

In view of above, you are once again requested to clear all the payment of pending instalments (instalment no 1 to 5) mentioned in the legacy dues statement for Uttar Pradesh state at the earliest.

Cont...

Further, it is also requested that timely payment for forthcoming instalments may be ensured to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी,

श्री प्रदीप

(शेख शदरुद्दीन)

वरि. महाप्रबंधक (मा. ओ.), उ.क्षे.भा.प्रे.के.

Copy for kind information:

1. Director (Market Operation), Grid-India
2. Executive Director, NLDC
3. Director, UP SLDC, UP SLDC Complex, Vibhuti Khand, Gomti Nagar, Lucknow- 226010



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

भारत सरकार का उद्यम

GRID CONTROLLER OF INDIA LIMITED

(A Government of India Enterprise)

(Formerly Power System Operation Corporation Limited (PSOCO))



उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-A, शाहीद जेठ सिंह समनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110018

Office : 18-A, Shaheed Jeth Singh Samanwal Marg, Katwaria Sarai, New Delhi-110018

CIN : U40105DL20090018882, Website : www.nrlcdc.in, E-mail : nrlcdc@gnd-india.in, Tel: 011 26519408, 28523868, Fax 011 26552747

Ref. No. NRLDC/ MO/Outstanding/564-573

Date: 12th December 2024

To

The Chief Engineer

JKPCL, SLDC Building,

1st Floor Gurgaon Grid Station,

Narval Bala, Jammu-180 004

Sub: Release of outstanding payment against NR Statutory Pool Accounts - Reg.

Ref: 1) NRLDC Letter Ref No. 1) NRLDC/ MO/Pool/93-10 Dt. 02/01/2024, to CE (SLDC), JKPCL

2) NRLDC/ MO/Pool/56-63 Dt. 24/01/2024, to CE (SLDC), JKPCL

3) NRLDC/ MO/Outstanding /89-96 Dt. 13/02/2024, to CE (SLDC), JKPCL

4) NRLDC/ MO/Outstanding /31-139 Dt. 02/04/2024, to CE (SLDC), JKPCL

5) NRLDC/ MO/Outstanding /183-191 Dt. 03/05/2024, to CE (SLDC), JKPCL

6) NRLDC/ MO/Outstanding /210-216 Dt. 20/05/2024, to MD, JKPCL

7) NRLDC/ MO/Outstanding /394-491 Dt. 01/07/2024, to CE (SLDC), JKPCL

8) NRLDC/ MO/Outstanding /430-438 Dt. 03/08/2024, to CE (SLDC), JKPCL

9) NRLDC/ MO/Outstanding / Dt. 10/10/2024, to CE (SLDC), JKPCL

10) NRLDC/ MO/Outstanding /523-531 Dt. 30/10/2024, to CE (SLDC), JKPCL

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have high priority and the concerned utilities are required to pay the indicated amounts within ten days of issue of the weekly energy account by NRPC Secretariat.

In this regard, last payment received in pool accounts from JKPCL was on 09/02/2024. Now, the outstanding against statutory pool accounts payments as on date (Considering Week 35 of FY 2024-25) by JKPCL is as briefed here under.

All figures in Rs. Lakhs

Sl. No.	Description	Principal (up to Week 24)	Delay Payment Interest	Total Amount
1	Deviation Charges	11616.14	0.00	11616.14
2	Pool Deficit Recovery Charges (4 th Instalment due as on date)	1099.96	0.00	1099.96
	Total Outstanding	12,716.10	0.00	12,716.10

Detailed reconciliation statement is attached at Annex-I.

Contd...

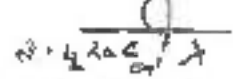
Due to non-receipt of the payment from JKPCIL, the payments to the receivable entities from the pool are also getting delayed. Despite multiple communications in this regard from our side, JKPCIL has not cleared the outstanding payable amount.

We therefore request your kind office to look into the matter and facilitate the settlement of the outstanding dues of ₹ 127,16,09,579/- (Rupees One Hundred Twenty Seven Crore Sixteen Lakhs Nine Thousand Five Hundred and Seventy Nine only) against the deviation charges and pool deficit recovery charges at the earliest to avoid further accumulation of payable principal amount of deviation charges and the interest on delayed deviation account payments.

It is also requested to regularly make payments to Statutory Pool Accounts as per the Regulations to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी.



(शेख शहमूद्दीन)

वरि. महाप्रबंधक (मा. ओ.), उ.क्षे.भा.प्रे.के.

Copy for kind information:

1. Secretary (Power), Ministry of Power, New Delhi
2. Secretary, CERC, 3rd & 4th Floor, Chandrak Building, 36, Janpath, New Delhi- 110001
3. Principal Secretary, Power Development Department J&K, Lotary building Behind Civil Secretariat, Srinagar, Jammu and Kashmir
4. MD, JKPCIL, SLDC Building, 1st Floor, Gladani Grid Station, Narval Bala, Jammu
5. Member Secretary, NRPC, Katwaria Sarai, New Delhi
6. CMD, GRID-INDIA, CC, 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
7. Director (Market Operation), 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
8. Executive Director, NRI.DC, Katwaria Sarai, New Delhi
9. Executive Director, NLDC, Katwaria Sarai, New Delhi

Statement of Deviation Account of JAMMU AND KASHMIR

From 01.02.2024 To 12.12.2024

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs)(B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
		OPENING BALANCE		49,86,30,632				49,86,30,632
1	02.02.2024	For Week 43(15-01-2024/21-01-2024)	09-02-2024	8,90,28,996				58,76,59,628
2	09-02-2024	PAID	09-02-2024			20,22,44,260		38,54,15,368
3	08-02-2024	For Week 44(22-01-2024/28-01-2024)	15-02-2024	12,06,80,804				50,63,02,152
4	16-02-2024	For Week 45(29-01-2024/04-02-2024)	23-02-2024	3,10,04,356				53,73,06,507
5	23-02-2024	For Week 46(05-02-2024/11-02-2024)	01-03-2024	4,46,31,017				58,19,37,524
6	01-03-2024	For Week 47(12-02-2024/18-02-2024)	08-03-2024	1,19,20,624				59,38,67,148
7	06-03-2024	For Week 48(19-02-2024/25-02-2024)	15-03-2024	3,25,92,553				62,64,59,701
8	15-03-2024	For Week 49(26-02-2024/03-03-2024)	22-03-2024	3,64,45,294				66,29,04,995
9	21-03-2024	For Week 50(04-03-2024/10-03-2024)	28-03-2024	1,16,76,016				67,45,81,011
10	27-03-2024	For Week 51(11-03-2024/17-03-2024)	03-04-2024	2,04,33,623				69,50,14,634
11	03-04-2024	For Week 52(18-03-2024/24-03-2024)	10-04-2024	1,85,69,966				71,34,84,600
12	10-04-2024	For Week 53(25-03-2024/31-03-2024)	17-04-2024		1,50,65,122			69,84,19,478
13	19-04-2024	For Week 54(01-04-2024/07-04-2024)	26-04-2024	3,45,37,549				73,32,77,027
14	26-04-2024	For Week 55(08-04-2024/14-04-2024)	03-05-2024	90,64,256				79,27,47,283
15	03-05-2024	For Week 56(15-04-2024/21-04-2024)	10-05-2024	1,20,52,699				80,63,93,982
16	09-05-2024	For Week 57(22-04-2024/28-04-2024)	16-05-2024	1,50,98,973				82,14,92,955
17	16-05-2024	For Week 58(29-04-2024/05-05-2024)	23-05-2024		1,43,56,312			80,69,36,443
18	22-05-2024	For Week 59(06-05-2024/12-05-2024)	29-05-2024		2,51,19,690			78,18,16,752
19	30-05-2024	For Week 60(13-05-2024/19-05-2024)	06-06-2024		2,51,94,190			75,66,22,562
20	06-06-2024	For Week 61(20-05-2024/26-05-2024)	13-06-2024		4,23,42,545			71,43,79,817
21	14-06-2024	For Week 62(27-05-2024/02-06-2024)	21-06-2024		3,87,54,181			67,56,19,636
22	21-06-2024	For Week 63(03-06-2024/09-06-2024)	27-06-2024		53,62,640			67,02,55,996
23	27-06-2024	For Week 64(10-06-2024/16-06-2024)	04-07-2024	11,52,91,348				78,55,46,294
24	05-07-2024	For Week 65(17-06-2024/23-06-2024)	12-07-2024	25,61,107				78,81,07,501
25	12-07-2024	For Week 66(24-06-2024/30-06-2024)	19-07-2024		7,53,08,296			71,28,07,296
26	19-07-2024	For Week 67(01-07-2024/07-07-2024)	26-07-2024		8,09,70,139			63,18,37,097
27	26-07-2024	For Week 68(08-07-2024/14-07-2024)	01-08-2024		10,41,56,485			52,76,80,612
28	01-08-2024	For Week 69(15-07-2024/21-07-2024)	08-08-2024		6,11,92,098			46,64,88,514
29	09-08-2024	For Week 70(22-07-2024/28-07-2024)	15-08-2024		1,24,80,255			45,39,94,257
30	16-08-2024	For Week 71(29-07-2024/04-08-2024)	23-08-2024		3,87,97,325			39,51,96,912
31	27-08-2024	For Week 72(05-08-2024/11-08-2024)	03-09-2024		2,14,24,725			37,37,72,187
32	04-09-2024	For Week 73(12-08-2024/18-08-2024)	09-09-2024		2,39,11,046			35,08,61,141
33	06-09-2024	For Week 74(19-08-2024/25-08-2024)	13-09-2024	8,30,39,429				43,38,60,538
34	17-09-2024	For Week 75(26-08-2024/01-09-2024)	24-09-2024					42,50,36,719
35	19-09-2024	For Week 76(02-09-2024/08-09-2024)	26-09-2024	38,72,540				42,89,11,299
36	26-09-2024	For Week 77(09-09-2024/15-09-2024)	03-10-2024	22,26,891				43,11,38,190

Sr. No.	A/C ISSUE/ TRANSACTION	DESCRIPTOR OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs) (A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs) (C)	AMOUNT DISBURSED FROM POOL (Rs) (D)	BALANCE AMOUNT (Rs)
37	07-10-2024	For Week 25(16-09-2024/22-09-2024)	17-10-2024	10,06,67,680				53,18,09,870
38	10-10-2024	For Week 26(23-09-2024/29-09-2024)	20-10-2024	30,85,11,126				84,03,16,996
39	17-10-2024	For Week 27(30-09-2024/06-10-2024)	27-10-2024	19,11,45,390				1,33,14,62,386
40	24-10-2024	For Week 28(07-10-2024/13-10-2024)	03-11-2024	9,31,80,369				1,22,46,42,755
41	30-10-2024	For Week 29(14-10-2024/20-10-2024)	09-11-2024	2,65,39,789				1,15,12,36,505
42	07-11-2024	For Week 30(21-10-2024/27-10-2024)	17-11-2024		1,60,79,018			1,03,51,56,687
43	13-11-2024	For Week 31(28-10-2024/03-11-2024)	23-11-2024	2,26,37,133				1,15,77,93,825
44	20-11-2024	For Week 32(04-11-2024/10-11-2024)	30-11-2024		1,50,71,150			1,14,47,12,675
45	28-11-2024	For Week 33(11-11-2024/17-11-2024)	08-12-2024		1,57,48,777			1,19,09,23,943
46	05-12-2024	For Week 34(18-11-2024/24-11-2024)	15-12-2024	1,36,84,577				1,14,48,58,525
47	11-12-2024	For Week 35(25-11-2024/01-12-2024)	21-12-2024	1,67,33,029				1,16,16,13,585
Total				2,01,91,68,822	65,53,10,987	20,22,64,200	-	1,16,16,13,585

Total Outstanding dues against Pool Deficit Recovery

Total Outstanding charges of Deviation Charges:

Total Outstanding charges of Jammu & Kashmir:

10,99,96,024

1,16,16,13,555

1,27,16,09,579

4 Nos Installment of 4 27499006 each are due as on 12/12/2024



ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
भारत सरकार की उद्यम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)



(Formerly Power System Operation Corporation Limited (PSOCL))

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शहीद जेठ सिंह समन्वयक मार्ग, कटवारीय सराय, नई दिल्ली-110016
Office : 18-A, Shहीद Jeth Singh Samanvayak Marg, Katwaria Sarai, New Delhi-110016
CIN : U40105DL2009GON88882 Website : www.nrdc.in, E-mail : nrdc@grid-india.in, Te : 011 26518406, 26523888, Fax: 011 26862747

Ref. No. NRLDC/MO/Outstanding/523-531

Date: 30th October 2024

To
The Chief Engineer
JKPCL, SLDC Building,
1st Floor Gladni Grid Station,
Naavai Bala, Jammu-180 004

Sub: Release of outstanding payment against NR Statutory Pool Accounts - Reg.

- Ref 1) NRLDC Letter Ref.No 1) NRLDC/MO/Pool/03-10 Dt: 02/01/2024, to CE (SLDC), JKPCL
2) NRLDC/MO/Pool/56-63 Dt: 24/01/2024, to CE (SLDC), JKPCL
3) NRLDC/MO/Outstanding /89-96 Dt: 13/02/2024, to CE (SLDC), JKPCL
4) NRLDC/MO/Outstanding /131-139 Dt: 02/04/2024, to CE (SLDC), JKPCL
5) NRLDC/MO/Outstanding /183-191 Dt: 03/05/2024, to CE (SLDC), JKPCL
6) NRLDC/MO/Outstanding /210-216 Dt: 20/05/2024, to MD, JKPCL
7) NRLDC/MO/Outstanding /394-401 Dt: 01/07/2024, to CE (SLDC), JKPCL
8) NRLDC/MO/Outstanding /430-438 Dt: 05/08/2024, to CE (SLDC), JKPCL
9) NRLDC/MO/Outstanding /Dt: 10/10/2024, to CE (SLDC), JKPCL

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have high priority and the concerned utilities are required to pay the indicated amounts within ten days of issue of the weekly energy account by NRPC Secretariat.

In this regard, last payment received in pool accounts from JKPCL was on 09/02/2024. Now, the outstanding against statutory pool accounts payments as on date (Considering Week 28 of FY 2024-25) by JKPCL is as briefed here under.

All figures in Rs. Lakhs

Sl. No.	Description	Principal (up to Week 24)	Delay Payment Interest	Total Amount
1	Deviation Charges	11246.43	0.00	11246.43
	Total Outstanding	11246.43	0.00	11246.43

Detailed reconciliation statement is attached at Annex-I.

Due to non-receipt of the payment from JKPCL, the payments to the receivable entities from the pool are also getting delayed. Despite multiple communications in this regard from our side, JKPCL has not cleared the outstanding payable amount.

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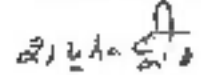
Page -02-

We therefore request your kind office to look into the matter and facilitate the settlement of the outstanding dues of ₹ 112,46,42,755/- (Rupees One Hundred Twelve Crore Forty Six Lakhs Forty Two Thousand Seven Hundred and Fifty Five only) against the deviation charges at the earliest to avoid further accumulation of payable principal amount of deviation charges and the interest on delayed deviation account payments.

It is also requested to regularly make payments to Statutory Pool Accounts as per the Regulations to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी,



(श्री म. अ. ब. के.)

वरि. महाप्रबंधक (मा. ओ.), उ.क्षे.भा.प्रे.के.

Copy for kind information:

1. Secretary, CERC, 3rd & 4th Floor, Chanderlok Building, 36, Janpath, New Delhi- 110001
 2. Principal Secretary, Power Development Department J&K, Lotary bulding Behind Civil Secretariat, Srinagar, Jammu and Kashmir
 3. MD, JKPCL, SLDC Building, 1st Floor, Gladani Grid Station, Narval Bala, Jammu
 4. Member Secretary, NRPC, Katwarla Sarai, New Delhi
 5. CMD, GRID-INDIA, CC, 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
 6. Director (Market Operation), 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
 7. Executive Director, NRLDC, Katwaria Sarai, New Delhi
 8. Executive Director, NLDC, Katwaria Sarai, New Delhi
-

NR Pool Account - Reconciliation Statement of Deviation Account

JAMMU AND KASHMIR

From 01-01-2024 To 07-11-2024

Sr. No.	AC/ISSUE/ TRANSACTION	DESCRIPTION OF TRANSACTION IN DEVIATION POOL ACCOUNT	DATE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs) (A)	AMOUNT RECEIVABLE FROM POOL (Rs) (B)	AMOUNT PAID TO POOL (Rs) (C)	AMOUNT DISBURSED FROM POOL (Rs) (D)	BALANCE AMOUNT (Rs)
		OPENING BALANCE		89,04,30,632				89,04,30,632
1	02-02-2024	For Week: 43 (15-01-2024 / 21-01-2024)	09-02-2024	8,90,28,996				98,76,59,628
2	09-02-2024	PAID	09-02-2024			20,22,44,280		38,54,15,348
3	08-02-2024	For Week: 44 (22-01-2024 / 28-01-2024)	15-02-2024	12,08,86,904				50,63,02,152
4	16-02-2024	For Week: 45 (29-01-2024 / 04-02-2024)	23-02-2024	3,10,04,555				53,73,06,507
5	23-02-2024	For Week: 46 (05-02-2024 / 11-02-2024)	01-03-2024	4,46,31,317				58,19,37,520
6	01-03-2024	For Week: 47 (12-02-2024 / 18-02-2024)	08-03-2024	1,19,29,624				59,38,67,148
7	08-03-2024	For Week: 48 (19-02-2024 / 25-02-2024)	15-03-2024	3,22,92,553				62,61,59,701
8	15-03-2024	For Week: 49 (26-02-2024 / 03-03-2024)	22-03-2024	3,64,45,294				66,26,04,995
9	21-03-2024	For Week: 50 (04-03-2024 / 10-03-2024)	28-03-2024	1,10,76,016				67,36,81,011
10	27-03-2024	For Week: 51 (11-03-2024 / 17-03-2024)	02-04-2024	2,08,33,629				69,45,14,634
11	03-04-2024	For Week: 52 (18-03-2024 / 24-03-2024)	10-04-2024	1,89,69,966				71,34,84,600
12	10-04-2024	For Week: 53 (25-03-2024 / 31-03-2024)	17-04-2024		1,50,69,122			69,84,19,478
13	19-04-2024	For Week: 1 (01-04-2024 / 07-04-2024)	26-04-2024	8,49,57,549				78,33,77,027
14	26-04-2024	For Week: 2 (08-04-2024 / 14-04-2024)	03-05-2024	93,64,256				79,27,41,283
15	03-05-2024	For Week: 3 (15-04-2024 / 21-04-2024)	10-05-2024	1,76,82,699				80,63,93,982
16	09-05-2024	For Week: 4 (22-04-2024 / 28-04-2024)	16-05-2024	1,50,98,973				82,14,92,955
17	16-05-2024	For Week: 5 (29-04-2024 / 05-05-2024)	23-05-2024		1,45,56,512			80,69,36,443
18	22-05-2024	For Week: 6 (06-05-2024 / 12-05-2024)	29-05-2024		2,51,19,891			76,16,16,732
19	30-05-2024	For Week: 7 (13-05-2024 / 19-05-2024)	06-06-2024		3,51,94,190			75,66,22,562
20	06-06-2024	For Week: 8 (20-05-2024 / 26-05-2024)	13-06-2024		4,22,48,745			71,43,73,817
21	14-06-2024	For Week: 9 (27-05-2024 / 02-06-2024)	21-06-2024		3,87,54,181			67,56,19,636
22	20-06-2024	For Week: 10 (03-06-2024 / 09-06-2024)	27-06-2024		59,62,540			67,02,36,996
23	27-06-2024	For Week: 11 (10-06-2024 / 16-06-2024)	04-07-2024	11,52,91,398				78,55,18,394
24	05-07-2024	For Week: 12 (17-06-2024 / 23-06-2024)	12-07-2024	25,61,107				78,81,09,501

Sl No.	A/C ISSUED TRANSACTION	DESCRIPTION OF TRANSACTION IN DEVIATION POOL ACCOUNT	DUE/ PAYMENT DATE	AMOUNT PAYABLE TO POOL (Rs)(A)	AMOUNT RECEIVABLE FROM POOL (Rs)(B)	AMOUNT PAID TO POOL (Rs)(C)	AMOUNT DISBURSED FROM POOL (Rs)(D)	BALANCE AMOUNT (Rs)
25	12-07-2024	For Week: 13-24-06-2024/30-06-2024	19-07-2024		7,53,08,285			71,28,07,206
26	19-07-2024	For Week: 14-01-07-2024/07-07-2024	26-07-2024		8,09,20,139			63,18,37,267
27	25-07-2024	For Week: 15-08-07-2024/14-07-2024	01-08-2024		10,41,86,483			52,76,34,584
28	01-08-2024	For Week: 16-14-07-2024/21-07-2024	08-08-2024		8,11,92,084			44,64,42,490
29	09-08-2024	For Week: 17-22-07-2024/28-07-2024	16-08-2024		1,24,58,253			43,39,54,237
30	16-08-2024	For Week: 18-29-07-2024/04-08-2024	23-08-2024		3,87,97,525			39,51,56,912
31	22-08-2024	For Week: 19-05-08-2024/11-08-2024	03-09-2024		2,04,24,755			37,47,32,157
32	30-08-2024	For Week: 20-12-08-2024/18-08-2024	06-09-2024		2,39,17,046			35,08,21,109
33	06-09-2024	For Week: 21-19-08-2024/25-08-2024	13-09-2024	8,30,39,425				43,38,60,338
34	13-09-2024	For Week: 22-26-08-2024/01-09-2024	24-09-2024		88,21,819			42,50,38,719
35	19-09-2024	For Week: 23-02-09-2024/08-09-2024	26-09-2024	34,72,586				42,89,11,299
36	26-09-2024	For Week: 24-09-09-2024/15-09-2024	03-10-2024	22,26,891				43,11,38,190
37	03-10-2024	For Week: 25-16-09-2024/22-09-2024	17-10-2024	10,06,67,686				53,18,05,570
38	10-10-2024	For Week: 26-23-09-2024/29-09-2024	24-10-2024	30,83,11,726				84,03,16,996
39	17-10-2024	For Week: 27-30-09-2024/06-10-2024	27-10-2024	19,11,45,394				1,03,14,62,386
40	24-10-2024	For Week: 28-07-10-2024/13-10-2024	03-11-2024	9,31,80,349				1,12,46,42,755
TOTAL				1,44,06,47,695	61,24,11,292	20,22,44,268		

Total Deviation Account Charges Balance as on date Rs. : 112,46,42,755/-



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
भारत सरकार का उद्यम
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)



(Formerly Power System Operation Corporation Limited (POSOCO))

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

कार्यालय : 18-ए, शाहीद जेत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली-110016

Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016

CIN : U40105DL2009GC0188682, Website : www.nrlc.in, E-mail : nrlc@grid-india.in, Tel: 011 26519408, 26523869, Fax: 011 26852747

Ref. No. NRLDC/ MO/Outstanding/

Date: 10th October 2024

To

The Chief Engineer

JKPCL, SLDC Building,

1st Floor Gladni Grid Station,

Nanval Bala, Jammu-180 004

Sub: Release of outstanding payment against NR Statutory Pool Accounts - Reg.

Ref: 1) NRLDC Letter Ref No. 1) NRLDC/ MO/Pool/03-10 Dt: 02/01/2024, to CE (SLDC), JKPCL

2) NRLDC/ MO/Pool/56-63 Dt: 24/01/2024, to CE (SLDC), JKPCL

3) NRLDC/ MO/Outstanding /89-96 Dt: 13/02/2024, to CE (SLDC), JKPCL

4) NRLDC/ MO/Outstanding /31-139 Dt: 02/04/2024, to CE (SLDC), JKPCL

5) NRLDC/ MO/Outstanding /183-191 Dt: 03/05/2024, to CE (SLDC), JKPCL

6) NRLDC/ MO/Outstanding /210-216 Dt: 20/05/2024, to MD, JKPCL

7) NRLDC/ MO/Outstanding /394-401 Dt: 01/07/2024, to CE (SLDC), JKPCL

8) NRLDC/ MO/Outstanding /430-438 Dt: 05/08/2024, to CE (SLDC), JKPCL

Sir,

As you are aware, NRLDC is operating and maintaining the "Northern Regional Pool Account" for Deviation charges, Reactive Energy Charges and Congestion Charges in accordance with provisions under various CERC Regulations. As per Regulations the payment to the statutory pool account have **high priority** and the concerned utilities are required to pay the indicated amounts within seven days of issue of the weekly energy account by NRPC Secretariat.

In this regard, last payment received in pool accounts from JKPCL was on 09/02/2024. Now, the outstanding against statutory pool accounts payments as on date (Considering Week 24 of FY 2024-25) by JKPCL is as briefed here under.

All figures in Rs. Lakhs

Sl. No.	Description	Principal (up to Week 24)	Delay Payment Interest	Total Amount
1	Deviation Charges	4311.38	0.00	4311.38
	Total Outstanding	4311.38	0.00	4311.38

Due to non-receipt of the payment from JKPCL, the payments to the receivable entities from the pool are also getting delayed. Despite multiple communications in this regard from our side, JKPCL has not cleared the outstanding payable amount.

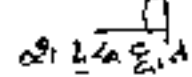
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We therefore request your kind office to look into the matter and facilitate the settlement of the outstanding dues of ₹ 43,11,38,190/- (Rupees Forty Three Crore Eleven Lakhs Thirty Eight Thousand One Hundred and Ninety only) against the deviation charges at the earliest to avoid further accumulation of payable principal amount of deviation charges and the interest on delayed deviation account payments.

It is also requested to regularly make payments to Statutory Pool Accounts as per the Regulations to avoid any further interest liability on delayed payments.

धन्यवाद,

आपका आभारी,



(मोस सदरुद्दीन)

वरि. महाप्रबंधक (मा. ओ.), उ.के.भा.पे.के.

Copy for kind information:

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4. Member Secretary, NRPC, Katwaria Sarai, New Delhi
5. CMD, GRID-INDIA, CC, 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
6. Director (Market Operation), 8th/9th floor, IFCI Tower, 61, Nehru Place, New Delhi
7. Executive Director, NRI DC, Katwaria Sarai, New Delhi
8. Executive Director, NRI DC, Katwaria Sarai, New Delhi

Annexure-VI

BBMB TO HARYANA			
SL NO	Feeder Name	End1	End2
1	220kV Panipat(T)-1 at Panipat-BBMB	NS-1504-A	
2	220kV Panipat(T)-3 at Panipat-BBMB	NR-3226-A	
3	220kV Panipat(T)-2 at Panipat-BBMB	NP-7076-A	
4	220kV Panipat(T)-4 at Panipat-BBMB	NP-7079-A	
5	220/132kV T/F-1(220 kV) at Panipat-BBMB	NR-3294-A	INSTALLED
6	220/132kV T/F-2(220 kV) at Panipat-BBMB	NP-6583-A	INSTALLED
7	220/33kV T/F-1 (220 kV) at Panipat-BBMB	NR-3271-A	INSTALLED
8	220/33kV T/F-2 (220 kV) at Panipat-BBMB	NP-1416-A	INSTALLED
9	220kV Mahendargarh-1 at Charkhi Dadri-BBMB	NP-5466-A	INSTALLED
10	220kV Mahendargarh-2 at Charkhi Dadri-BBMB	NP-3130-A	INSTALLED
11	220kV Rewari at Charkhi Dadri-BBMB	NP-1145-A	
12	220/132kV ICT-1(220kV) at Charkhi Dadri	NP-1156-A	INSTALLED
13	220/132kV ICT-2(220kV) at Charkhi Dadri	NP-1155-A	INSTALLED
14	220kV Palwal-1 at Samaypur-BBMB	NS-1056-A	INSTALLED
15	220kV Palwal-2 at Samaypur-BBMB	NP-6606-A	INSTALLED
16	220kV Badshapur-1 at Samaypur-BBMB	NP-8153-A	INSTALLED
17	220kV Badshapur-2 at Samaypur-BBMB	NP-6683-A	INSTALLED
18	220kV Faridabad GPS-1 at Samaypur-BBMB	NS-1936-A	
19	220kV Faridabad GPS-2 at Samaypur-BBMB	NS-1920-A	
20	220kV Palla-1 at Samaypur-BBMB	NP-6695-A	INSTALLED
21	220kV Palla-2 at Samaypur-BBMB	NP-6824-A	INSTALLED

BBMB TO PUNJAB			
SL NO	Feeder Name	End1	End2
1	220/132kV ICT-1 at JALANDHAR (BBMB)	NP-1651-A	INSTALLED
2	220/132kV ICT-2 at JALANDHAR (BBMB)	WR-2151-A	INSTALLED
3	220/132kV ICT-3 at JALANDHAR (BBMB)	NR-3231-A	INSTALLED
4	220/132kV ICT-4 at JALANDHAR (BBMB)	NP-5462-A	INSTALLED
5	220/66kV ICT-1 at JALANDHAR (BBMB)	NP-1815-A	INSTALLED
6	220/66kV ICT-2 at JALANDHAR (BBMB)	NR-3305-A	INSTALLED
7	220kV Mahilpur 1 at Bhakra Right Bank	NR-3384-A	INSTALLED
8	220kV Mahilpur 2 at Bhakra Right Bank	NP-3088-A	INSTALLED
9	220Kv Butari -Jalandhar	NP-6977-A	INSTALLED
10	220/66 kV ICT1 at Jamalpur BBMB	NS-1429-A	INSTALLED
11	220/66 kV IC21 at Jamalpur BBMB	NS-1883-A	INSTALLED
12	220/66 kV ICT3 at Jamalpur BBMB	NP-7153-A	INSTALLED
13	220/132kV ICT1 at Jamalpur BBMB	NP-6572-A	INSTALLED
14	220/132kV ICT2 at Jamalpur BBMB	NS-1552-A	INSTALLED
15	220/132kV ICT3 at Jamalpur BBMB	NP-8591-A	INSTALLED
16	220 kV Sangrur at Hissar 1	NS-1011-A	INSTALLED
17	221 kV Sangrur at Hissar 2	NP-1331-A	INSTALLED

Annexure-VII

SL NO	FEEDER NAME	MAIN METER
HARYANA		
1	220 kV Hissar IA-1 at Hissar-PG	NP-1338-A
2	220 kV Hissar IA-2 at Hissar-PG	NP-1343-A
3	220 kV Isharwal-1 at Hissar-PG	NP-5470-A
4	220 kV Isharwal-2 at Hissar-PG	NP-5472-A
5	220 kV Fatehabad-1 at Hissar-PG	NS-1048-A
6	220 kV Fatehabad-2 at Hissar-PG	NP-3128-A
7	220kV Rewari-2(Haryana) at Bhiwadi (PG)	NP-5411-A
8	220kV Rewari-1(Haryana) at Bhiwadi (PG)	NP-5412-A
9	220kV Mau(Haryana) at Bhiwadi (PG)	NP-6635-A
10	220kV Bawal(Haryana) at Bhiwadi (PG)	NP-7706-A
UP		
1	ICT-1 (220 kV) Mainpuri-PG	NP-8113-A
RAJASTHAN		
1	220kV RAPS-A at RAPS-B	NP-1321-A
2	132kV Gandhi Sagar at RAPS-A	NP-1069-B
3	132 kV Gandhi Sagar at RPSHEP-RVPNL	NP-1072-B
4	220/132kV ICT-1(220kV) at S'madhopr-RVPNL	NP-8230-A
5	220/132kV ICT-2(220kV) at S'madhopr-RVPNL	NP-5410-A
6	220kV Bhiwadi(Raj)-1 at Bhiwadi (PG)	NP-6569-A
7	220kV Khushkhera(Raj)-1 at Bhiwadi-PG	NP-6636-A
8	220kV Bhiwadi(Raj)-2 at Bhiwadi (PG)	NP-8216-A
9	220kV Kukas-1 at Bassi-PG	NP-5022-A
10	220kV Kunda Di Dhani-1 at Bassi-PG	NP-6682-A
11	220kV Neemrana(Raj) at Bhiwadi (PG)	NP-7707-A
PUNJAB		
1	220 kV Railway at Dasuya-PSEB	NP-8595-A
2	220kV Dhandari-1 at Jamalpur-BBMB	NS-2421-A
3	220kV Dhandari-2 at Jamalpur-BBMB	NP-5452-A
4	220kV Barnala(PSEB) at Barnala-BBMB	NP-1783-A
5	220 kV Kanjal-2 at Jalandhar-PG	NR-3216-A
6	220 kV Kanjal-1 at Jalandhar-PG	NR-3218-A
7	66 kV Talwara at Pong HPS	NS-1381-A
8	66 kV PACL at Bhakra Left Bank	NP-3097-A
9	33 kV Nurpurbedi at Ganguwal HPS	NS-2456-A
HIMACHAL PRDESH		
1	33 kV Bilaspur-1 at Ganguwal HPS	NP-1018-B
2	33 kV Bilaspur-2 at Ganguwal HPS	NP-1019-B
3	66 kV Terrace at Pong HPS	NS-2030-A
4	220/33 kV ICT (220 kV)-1 at Jessore-HPSEB	NP-7499-A
5	220/132kV ICT(220 kV)-1 at Jessore-HPSEB	NP-7020-A

6	220/33 kV ICT (220 kV)-2 at Jessore-HPSEB	NP-1645-A
7	220/132kV ICT(220 kV)-2 at Jessore-HPSEB	NP-8566-A
8	132kV Kulhal at Majhri-HPSEB	NP-1869-A
9	220kV Hamirpur(PG)-1 at 220kV Hamirpur-HPSEB	NP-1845-A
10	220kV Hamirpur(PG)-2 at 220kV Hamirpur-HPSEB	NP-1846-A
J&K		
1	ICT-1 (220 kV) at Wagoora-PG	NP-1702-A
2	ICT-2 (220 kV) at Wagoora-PG	NP-8570-A
3	ICT-3 (220 kV) at Wagoora-PG	NP-1754-A
4	ICT-4 (220 kV) at Wagoora-PG	NP-3170-A
5	220 kV Mirbazar at Kishenpur-PG	NP-5479-A
6	220 kV Udhampur-1 at Kishenpur-PG	NP-8519-A
7	220 kV Udhampur-2 at Kishenpur-PG	NP-8533-A
CHANDIGARH		
1	220kV UT Chandigarh-1 at Nalagarh-PG	NR-3386-A
2	220kV UT Chandigarh-2 at Nalagarh-PG	NS-1502-A

Annexure-VIII

VINCOM METER LIST					
S. NO.	METER.NO	CATEGORY	PLACE OF INSTALLATION OF SEM	STATUS	NEW METER SR NO
1	NP-6702-A	S	GT#1(HV SIDE) AT SHREE CEMENT LTD		
2	NP-6568-A	S	GT#2(HV SIDE) AT SHREE CEMENT LTD		
3	NP-6128-A	M	400 kV Merta AT SHREE CEMENT LTD		
4	NP-6129-A	C	400 kV Merta AT SHREE CEMENT LTD		
5	NP-6130-A	M	400 kV Kota AT SHREE CEMENT LTD		
6	NP-6131-A	C	400 kV Kota AT SHREE CEMENT LTD		
7	NP-9969-A	S	GT-1 (400kV) at Tehri-THDC	REPLACED	
8	NP-9958-A	S	GT-2 (400kV) at Tehri-THDC	REPLACED	
9	NP-9962-A	S	GT-3 (400kV) at Tehri-THDC	REPLACED	
10	NP-9905-A	S	GT-4 (400kV) at Tehri-THDC	REPLACED	
11	NP-5029-A	M	220kV Hissar(BBMB) at Chirawa-RVPNL		
12	NP-6645-A	M	400kV Daultabad-I at Jhajaar - HVPNL		
13	NP-6646-A	C	400kV Daultabad-I at Jhajaar - HVPNL		
14	NP-6643-A	M	400kV Daultabad-II at Jhajaar - HVPNL		
15	NP-6644-A	C	400kV Daultabad-II at Jhajaar - HVPNL		
16	NP-6592-A	M	400kV Mundka-I at Jhajaar - HVPNL		
17	NP-6593-A	M	400kV Mundka-II at Jhajaar - HVPNL		
18	NP-6814-A	C	400kV Mundka-I at Jhajaar - HVPNL		
19	NP-6813-A	C	400kV Mundka-II at Jhajaar - HVPNL		
20	NP-6797-A	S	400kV GT-1 at Jhajaar		
21	NP-6798-A	S	400kV GT-2 at Jhajaar		
22	NP-6799-A	S	400kV GT-3 at Jhajaar		
23	NP-6800-A	S	400/132kV ICT-I(400kV) at Jhajaar		
24	NP-6801-A	S	400/132kV ICT-2(400kV) at Jhajaar		
25	NP-8929-A	M	400kV Rihand-3 Feeder-1 at Vindhyachal-PG		
26	NP-8948-A	M	400kV Rihand-3 Feeder-2 at Vindhyachal-PG		
27	NP-2734-A	M	765Kv Varansi -1 at Vindhyachal-PG		
28	NP-1428-A	S	66kV Dhulkote-1 at Sec-28 Chandigarh-BBMB	REPLACED	
29	NP-1368-A	S	66kV Dhulkote-2 at Sec-28 Chandigarh-BBMB	REPLACED	
30	NP-6693-A	M	400 kV Kankroli-PG at Jodhpur-RVPNL		
31	NP-1953-B	S	Genr-2 (11kV) at Salal HPS		

ELSTER METER LIST					
S. NO.	METER.NO	CATEGORY	PLACE OF INSTALLATION OF SEM	STATUS	NEW METER SR NO
1	NR-4679-B	M	11kV HVDC-1(aux) at HVDC Rihand POWERGRID_#HVDC Rihand POWERGRID		
2	NR-4680-B	M	11kV HVDC-2(aux) at HVDC Rihand POWERGRID_#HVDC Rihand POWERGRID		
3	NR-4681-B	M	11kV HVDC-3(aux) at HVDC Rihand III(from CPS Board)- POWERGRID_#HVDC Rihand POWERGRID		
4	NR-4684-B	M	6.6kV HVDC-1(aux) at Dadri- HVDC(from thermal)		
5	NR-4694-B	M	6.6kV HVDC-2(aux) at Dadri- HVDC(from Gas)	REPLACED	
6	NR-4372-A	M	400 kV Basti-2 at Tanda Stage-2	REPLACED	
7	NR-3465-A	M	400kV Banala (PG) at Parbati-II HPS		
8	NR-3464-A	M	400kV Sainj HEP at Parbati-II HPS		
9	NR-3292-A	M	220 kV Amargarh-1 at Kishenganga HEP		
10	NR-3761-A	M	220kV side of 220/33 kV SUT-5(35 MVA) at RAPS- C		
11	NR-3939-A	M	400 kV Jaipur(PG) at RAPP-7&8	REPLACED	
12	NR-3384-A	M	220 kV Mahilpur-1 at Bhakra Right Bank		
13	NR-3232-A	M	GT-2(220 kV) at Pong HPS		
14	NR-3226-A	M	220kV Panipat(T)-3 at Panipat- BBMB	REPLACED	
15	NR-3294-A	M	220/132kV T/F-1(220 kV) at Panipat-BBMB	REPLACED	
16	NR-3271-A	M	220/33kV T/F-1 (220 kV) at Panipat- BBMB	REPLACED	
17	NR-3305-A	M	220/66kV ICT-2 (220kV) at Jalandhar-BBMB	REPLACED	
18	NR-4310-A	M	400/220 kV ICT-3(400 kV) at Fatehpur-PG		
19	NR-3386-A	M	220kV UT Chandigarh-1 at Nalagarh-PG		
20	NR-3210-A	M	220kV Chhaur at Nalagarh-PGCIL	REPLACED	
21	NR-3484-A	M	ICT-2 315MVA (400 kV) at Panchkula-PG	REPLACED	
22	NR-3433-A	M	ICT-3 500MVA (400 kV) at Panchkula-PG	REPLACED	
23	NR-4570-A	M	ICT-1 (400 kV) at Sikar-PG	REPLACED	
24	NR-3587-A	M	ICT-I (400 kV) at Tughlakabad-GIS- PG	REPLACED	
25	NR-3652-A	M	ICT-II (400 kV) at Tughlakabad-GIS- PG	REPLACED	
26	NR-3969-A	M	ICT-IV (400 kV) at Tughlakabad-GIS- PG	REPLACED	
27	NR-3218-A	M	220 kV Kanjal-1 at Jalandhar-PG		

28	NR-3216-A	M	220 kV Kanjal-2 at Jallandhar-PG	REPLACED	
29	NR-3726-A	M	ICT-3 (400 kV) at Allahabad-PG		
30	NR-4355-A	M	220 kV Railways(Naini)-I at Allahabad-PG	REPLACED	
31	NR-4361-A	M	220 kV Railways(Naini)-II at Allahabad-PG	REPLACED	
32	NR-4611-A	M	ICT-3(400 kV) 500MVA at Sohawal-PG	REPLACED	
33	NR-4488-A	M	ICT-2 (400 kV) at Mainpuri-PG	REPLACED	
34	NR-4492-A	M	ICT-1 (220 kV) at Mainpuri-PG	REPLACED	
35	NR-4489-A	M	ICT-3 (400 kV) at Mainpuri-PG	REPLACED	
36	NR-3278-A	M	ICT-4 (400 kV) at Amritsar-PG	REPLACED	
37	NR-3274-A	M	ICT-1 (400 kV) at Kaithal-PG	REPLACED	
38	NR-3272-A	M	ICT-2 (400 kV) at Kaithal-PG	REPLACED	
39	NR-3301-A	M	ICT-3 (400 kV) at Kaithal-PG	REPLACED	
40	NR-3383-A	M	ICT-1 (400 kV) at Banala PG	REPLACED	
41	NR-3264-A	M	400/220 kV ICT-2 (400KV) at Kurukshetra PG (NR- 3518-A replaced in Aug 2022)		
42	NR-3507-A	M	Auxiliary Consumption(33 kV side) at Kurukshetra-HVDC	REPLACED	
43	NR-3520-A	M	Auxiliary Consumption(33 kV side) at Kurukshetra-HVDC	REPLACED	
44	NR-3488-A	M	ICT-1 (400 kV) at Samba-PG	REPLACED	
45	NR-4519-A	M	ICT-2 (400 kV) at Dehradun-PG		
46	NR-4582-A	M	400 KV Bikaner(RJ) ckt 2 at Bikaner-PG(Before tapping this was 400kV Bhadla(RJ) at Bikaner-PG)		
47	NR-4578-A	M	220 kV AREPRL-1 at Bhadla-PG	REPLACED	
48	NR-4517-A	M	220 kV AREPRL-2 at Bhadla-PG	REPLACED	
49	NR-3979-A	M	220 kV Saurya Urja-1 at Bhadla-PG	REPLACED	
50	NR-4455-A	M	220 kV Saurya Urja-2 at Bhadla-PG	REPLACED	
51	NR-3586-A	M	220 kV Azure Thirty Four at 765/400/200 kV Bhadla-PG	REPLACED	
52	NR-3696-A	M	220 kV ACME-Chittorgarh at 765/400/200 kV Bhadla-PG	REPLACED	
53	NR-4496-A	M	400 kV ICT-1 at Prithala-Sterlite		
54	NR-4600-A	M	400 kV ICT-2 at Prithala-Sterlite		
55	NR-4601-A	M	400 kV ICT-1 at Sohna-Sterlite		
56	NR-3764-A	M	400 kV ICT-2 at Sohna-Sterlite		
57	NR-3503-A	M	220 kV side of ICT(220/33 kV) at Phojal-HEP		
58	NR-3342-A	M	ICT-1 (400 kV) at Hamirpur-PG	REPLACED	
59	NR-3514-A	M	400 KV Parbati-III at Sainj HEP		
60	NR-3515-A	M	400 KV Parbati-II at Sainj HEP		

61	NR-3530-A	M	220 kV Kishenganga-2 at Amargarh-PDD		
62	NR-3320-A	M	400 kV Kishenpur-PG-3 at Baglihar		
63	NR-3291-A	M	220 kV Drass at Alusteng		
64	NR-3438-A	M	400 kV ICT-I at Patran-PTCL		
65	NR-4702-B	M	Genr-1(11kV) at Chibro HPS-UPCL		
66	NR-4704-B	M	Genr-2(11kV) at Chibro HPS-UPCL		
67	NR-4415-A	M	400kV Allahabad-2 at Rihand-2 STPS_#Rihand STPS		
68	NR-4616-A	M	400kV Fatehpur-I at Unchahar TPS	REPLACED	
69	NR-3774-A	M	400kV Fatehpur-II at Unchahar TPS	REPLACED	
70	NR-4363-A	M	ICT-1 (220 kV) at Tanda Stage-2		
71	NR-4364-A	M	ICT-2 (220 kV) at Tanda Stage-2		
72	NR-3797-A	M	400 kV Azamgarh at Tanda Stage-2		
73	NR-4367-A	M	400 kV Sultanpur at Tanda Stage-2		
74	NR-4362-A	M	400 kV Basti-1 at Tanda Stage-2		
75	NR-3419-A	M	220kV Jammu-2 at Salal HPS		
76	NR-3369-A	M	220kV Kishenpur-2 at Salal HPS		
77	NR-3370-A	M	220kV Kishenpur-3 at Salal HPS		
78	NR-3372-A	M	220kV Kishenpur-4 at Salal HPS		
79	NR-3504-A	M	220 kV Amargarh-2 at Kishenganga HEP		
80	NR-3938-A	M	ST-7A&B (220kV) at RAPPCC	REPLACED	
81	NR-3752-A	M	400 kV Bhadla-II at Bhadla-RRVNL		
82	NR-3777-A	M	400/220 kV ICT-2(400 kV) at Fatehpur-PG		
83	NR-3416-A	M	220kV HPSEB NANGAL-2 at Nalagarh-PG	REPLACED	
84	NR-3204-A	M	220kV Ad-Hydro-1 at Nalagarh-PGCIL		
85	NR-3909-A	M	ICT-2 (400 kV) at Mandola-PG	REPLACED	
86	NR-4499-A	M	ICT-4 (400 kV) at Mandola-PG	REPLACED	
87	NR-3482-A	M	ICT-1 315MVA (400 kV) at Panchkula-PG	REPLACED	
88	NR-3759-A	M	ICT-3 (400 kV) at Sikar-PG	REPLACED	
89	NR-3976-A	M	400 kV Ratangarh(RVNL)-I at Sikar-PG		
90	NR-3977-A	M	400 kV Ratangarh(RVNL)-II at Sikar-PG	REPLACED	
91	NR-3756-A	M	400 kV Bikaner(RVNL)-I at Sikar-PG	REPLACED	
92	NR-3340-A	M	400 kV Baglihar-2 at Kishenpur-PG		
93	NR-4609-A	M	ICT-1(400 kV)315MVA at Sohawal-PG	REPLACED	
94	NR-3846-A	M	ICT-2 (400 kV)500MVA at Bahadurgarh-PG		

95	NR-3528-A	M	400/220 kV ICT-1 (400KV) at Kurukshetra PG	REPLACED	
96	NR-3539-A	M	400kV AC SIDE OF Conv. Trf.of HVDC-Pole-III at Kurukshetra-HVDC		
97	NR-3290-A	M	400kV AC SIDE OF Conv. Trf.of HVDC-Pole-IV at Kurukshetra-HVDC		
98	NR-3704-A	M	33 kV ICT-1 at Aligarh-PG		
99	NR-3809-A	M	220 kV TPREL Chhayan at 765/400/200 kV Bhadla-PG	REPLACED	
100	NR-3212-A	M	400 kV ICT-1 at Amargarh-Sterlite		
101	NR-3214-A	M	400 kV ICT-2 at Amargarh-Sterlite		
102	NR-3765-A	M	400 kV ICT-1 at Kadarpur-Sterlite		
103	NR-3770-A	M	400 kV ICT-2 at Kadarpur-Sterlite		
104	NR-3931-A	M	400 kV Neemrana(PG)-1 at Dhanonda(HVPN)		
105	NR-3826-A	M	400 kV Neemrana(PG)-2 at Dhanonda(HVPN)		
106	NR-3491-A	M	400 kV Jhakri-I at Gumma-HPPTCL		
107	NR-3268-A	M	400 kV Jhakri-II at Gumma-HPPTCL		
108	NR-3341-A	M	ICT-2 (400 kV) at Hamirpur-PG	REPLACED	
109	NR-3237-A	M	ICT-3 (400 kV) at Hamirpur-PG		
110	NR-3396-A	M	400 KV Abdullapur-I at Kala Amb	REPLACED	
111	NR-3399-A	M	400 KV Abdullapur-II at Kala Amb	REPLACED	
112	NR-3531-A	M	220 kV Kishenganga-1 at Amargarh-PDD		
113	NR-4703-B	M	Genr-3(11kV) at Chibro HPS-UPCL		
114	NR-4700-B	M	Genr-4(11kV) at Chibro HPS-UPCL		
115	NR-4705-B	M	Genr-1(11kV) at Khodri HPS-UPCL		



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

दिनांक: 05 मई, 2025

Dated: 5th May, 2025

सेवामें / To,

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

विषय: उ.क्षे.वि.स. की वाणिज्यिक उप-समिति की 51^{वीं} बैठक- बैठक के कार्यवृत्त।

Subject: 51st meeting of Commercial Sub-committee- Minutes of the meeting.

महोदय/ Sir,

उत्तर क्षेत्रीय विद्युत समिति की वाणिज्यिक उप-समिति की 51^{वीं} बैठक 07 मार्च, 2025 को 11:00 बजे एनआरपीसी सम्मलेन कक्ष, कटवारिया सराय, नई दिल्ली में आयोजित की गई थी। उपरोक्त बैठक के कार्यवृत्त संलग्न हैं। यह कार्यवृत्त उत्तर क्षेत्रीय विद्युत समिति की वेबसाइट(<http://164.100.60.165>) पर भी उपलब्ध है।

The 51st meeting of Commercial Sub-Committee of NRPC was held on 07th March, 2025 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: 05-05-2025 13:18:31

(अंजुम परवेज)
अधीक्षण अभियंता (वाणिज्य)

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accounting. Despite repeated issues such as abrupt meter readings, time synchronization errors, non-receipt of data, and meter replacements carried out without prior intimation to NRLDC, timely corrective actions by constituents remain lacking. These persistent problems necessitate frequent revisions of the issued accounts, undermining the accuracy and reliability of the accounting process. Although NRLDC has repeatedly urged all constituents to review account details uploaded on its website weekly and provide timely feedback before account finalization, the expected level of responsiveness and cooperation has not been forthcoming.

- 12.3 Further, the Nodal Officer of UP-SLDC Pradesh has been specifically requested to undertake weekly reviews of the account to facilitate early detection and correction of discrepancies. However, consistent and proactive engagement from the concerned parties remains an area of serious concern.

ITEM-13 Status on replacement of Vincom and Elster meters (Agenda by NRLDC)

- 13.1 NRLDC raised a significant concern that the replacement of Vincom and Elster meters has been pending for more than one and a half years despite repeated discussions. During the 50th Commercial Sub-Committee meeting held on 27th August 2024, POWERGRID had indicated that the balance installations would require another 5-6 months, with MS, NRPC advising to complete the work by December 2024.
- 13.2 However, as per the latest update during the 50th CSC meeting, 142 out of 146 meters still remained pending for replacement. Despite persistent follow-ups by NRLDC through multiple meetings and emails, including a reminder sent on 16th October 2024, no updated status was shared by POWERGRID until the current meeting.
- 13.3 In the present meeting, POWERGRID informed that out of 146 meters, 63 have been replaced, and the remaining meters are now targeted for replacement by April 2025. POWERGRID attributed delays to challenges in obtaining site permissions at certain locations.
- 13.4 NRLDC urged POWERGRID to provide a list of sites where permission issues were causing delays and reiterated that the replacement process, already delayed for over 18 months, must be completed by April 2025 without further extensions. POWERGRID representative agreed to share the updated meter replacement status shortly.
- 13.5 NRLDC also flagged a critical procedural concern, stating that under the existing CTU procedure for meter installations, meter replacement timelines are too long and adversely impacts energy accounting accuracy. NRLDC suggested that POWERGRID should seek a one-time blanket consent from utilities at the start of the year for a fixed number of SEM meters, to streamline future replacements. Furthermore, NRLDC emphasized that along with meter replacement, updated CT/PT ratio details should also be furnished to update the NRLDC database. NHPC supported this view.
- 13.6 MS, NRPC, expressed concern over the persistent delays and emphasized the need for POWERGRID to promptly share meter replacement details with NRLDC. He further advised POWERGRID to identify and address site-specific issues immediately and complete all pending replacements by the end of April 2025. It was also suggested that POWERGRID explore alternative arrangements if existing procedures were contributing to delays.
- 13.7 MS, NRPC, agreed with the suggestion of obtaining a one-time consent for meter replacements for FY or similar approach and stated that if the forum wishes to revisit the CTU meter replacement procedure to shorten the timelines, CTU could be requested for review and amendment.

Decision of Sub-committee:

- CTU/ POWERGRID to share the updated meter replacement status to NRLDC.
- POWERGRID to replace remaining installations by August 2025.
- CTU/ POWERGRID to share any major hurdles such as work permission on site where this forum's or NRPC secretariat's intervention may be required.

ITEM-14 Installation of standby meters/other end meters on various feeders in NR (Agenda by NRLDC)

- 14.1 NRLDC raised a serious concern regarding the long-pending installation of standby and other-end meters across various feeders in NR. It was recalled that during the 50th Commercial Sub-Committee meeting held on 27th August 2024, POWERGRID had committed to completing the installations by November 2024. Acting on MS, NRPC's advice to expedite the installations, NRLDC had requested POWERGRID to share the details of locations where installations were completed, along with timelines for the remaining meters. However, the required updates were not received.
- 14.2 NRLDC reiterated that standby meter data is crucial for ensuring data redundancy and accuracy in energy accounting, particularly in cases where main meter data is unavailable or erroneous. Thus, the installation of standby meters is not merely procedural but vital for maintaining the integrity of commercial settlements.
- 14.3 Despite these clear directions and repeated follow-ups, it was noted that even after more than one and a half years of discussions, the installation process remains incomplete. No substantial progress reports or status updates were provided by CTU/POWERGRID through the intervening period despite reminder emails.
- 14.4 Further, during the 50th CSC meeting, NRLDC had identified additional feeders where only a single main meter was installed and had shared the corresponding list with CTU/POWERGRID, requesting action and a firm timeline for the installation of the necessary standby meters.
- 14.5 In the current meeting, POWERGRID informed that out of 38 meters, 31 have now been installed, and the balance installations are expected to be completed by April 2025. POWERGRID committed to sharing detailed information regarding all replaced meters within a week's time and providing a clear installation schedule for the meters listed in Annexure-VI and Annexure-VII of the agenda. Additionally, it was reiterated that post-replacement, POWERGRID and concerned utilities must also furnish updated CT/PT ratio details to NRLDC for database updation.
- 14.6 MS, NRPC, expressed strong concern over the prolonged delays and emphasized the need for CTU/POWERGRID to not only expedite the remaining installations but also to adhere to the committed timelines. MS, NRPC, urged that a clear, updated timeline for installations mentioned in Annexure-VI and VII in agenda should be provided promptly to avoid further disruption in energy accounting processes.



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

दिनांक: 29 अक्टूबर, 2024

Dated: 29th October, 2024

सेवामें / To,

Members of Commercial Sub-Committee (As per List)

वाणिज्यिक उप-समिति के सभी सदस्य (संलग्न सूचीनुसार)

विषय: उ.क्षे.वि.स. की वाणिज्यिक उप-समिति की 50 वीं बैठक- बैठक के कार्यवृत्त।

Subject: 50th meeting of Commercial Sub-committee- Minutes of the meeting.

महोदय/ Sir,

उत्तर क्षेत्रीय विद्युत समिति की वाणिज्यिक उप-समिति की 50 वीं बैठक 27 अगस्त, 2024 को 10:30 बजे एनआरएलडीसी कॉन्फ्रेंस हॉल, कटवारिया सराय, नई दिल्ली में आयोजित की गई थी। उपरोक्त बैठक के कार्यवृत्त संलग्न हैं। यह कार्यवृत्त उत्तर क्षेत्रीय विद्युत समिति की वेबसाइट(<http://164.100.60.165>) पर भी उपलब्ध है।

The 50th meeting of Commercial Sub-Committee of NRPC was held on 27th August, 2024 at 10:30 AM in NRLDC 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: 29-10-2024 11:12:25

(अंजुम परवेज)

अधीक्षण अभियंता (वाणिज्य)

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- 12.16 The sub-committee requested Chandigarh to provide bank account details at the earliest in order to get the timely payments from the pool accounts through electronic mode.

VI Monthly Reconciliation of pool accounts:

- 12.17 NRLDC informed the forum that Monthly reconciliation statement of the pool accounts up to July 2024 has been published on the web portal "poolar.nrlDC.in".
- 12.18 Pool Members are requested to upload the duly signed copy of reconciliation statement on web portal before due date.
- 12.19 The Accounts shall stand deemed reconciled in case of no response from the pool members.

ITEM-13 Installation of standby meters/other end meters on various feeders in NR (Agenda by NRLDC)

- 13.1 NRLDC informed the forum that these standby/other end meters (as list provided in **Annexure III**) was expected to be installed by December 2023 as discussed in 48th commercial sub-committee meeting. As per NRLDC records, out of 38 meters, 23 meters are yet to be installed. Earlier this agenda was discussed in 67th NRPC meeting, and CTU/POWERGRID informed that installation of these meters would be completed within 4 months. It is pertinent to mention here that installation is still pending despite of more than 1 year of discussion. NRLDC requested to provide timeline for installation of remaining meters and provide the details if at some feeder meters are already installed.
- 13.2 BBMB representative informed that installation of BBMB end meters have been completed and details will be shared soon to NRLDC.
- 13.3 POWERGRID informed that remaining installation will be completed by November 2024.
- 13.4 NRLDC shared one more list of meters (attached as **Annexure IV**) where only one meter is installed and as per CEA metering regulation, other end meters need to be installed. NRLDC also asked POWERGRID to share the timeline for installation of these additional meters.
- 13.5 MS, NRPC suggested CTU/PGCIL to expedite the installation of these meters and share the details of the locations where installation has been completed and also share the timeline for completion of pending meters.

Decision of Sub-committee:

- 13.6 PGCIL to expedite the installation of these meters and complete by November 2024. Also, PGCIL to share the details of the locations where installation has been completed.

ITEM-14 Status on replacement of Vincom and Elster meters (Agenda by NRLDC)

- 14.1 NRLDC informed that the replacement of these meters was to be completed by March 2024 as discussed in 48th commercial sub-committee meeting. This agenda was first time flagged in 67th NRPC meeting. After a year of continuous follow up in various OCC, CSC and NRPC meetings, still these replacements are pending and only 4 meters out of 146 meters are installed (list attached as Annexure-V) as per NRLDC records.

- 14.2 POWERGRID informed that remaining installation will take 5-6 months more.
- 14.3 MS, NRPC expressed his concern over delay in meter replacement and suggested POWERGRID to install these meters by December 2024.

Decision of Sub-committee:

- 14.4 PGCIL to expedite the installation of these meters and complete by December 2024.

ITEM-15 Delay in action taken by Nodal officers to resolve meter related issues (Agenda by NRLDC)

- 15.1 NRLDC raised concern in the meeting regarding delay in actions by Nodal officer of different utilities to resolve meter related issues like delay in weekly meter data submission. Despite in IEGC it was mentioned that data should be reached to RLDC by Tuesday noon, at present most of the data reached to NRLDC either after Tuesday or in some cases data reached by Friday. It is pertinent to mention here that NRLDC has to calculate the loss data and DSM data by Thursday but due to delayed submission of data many times, there is a delay in loss calculation and DSM data submission to NRPC.
- 15.2 Further, checking of the healthiness of DCD/Cables, functioning of data dumping software, time drift in meters, discrepancy in meter reading due to loose connections or due to change in CT/PT ratio, change in polarity and replacement of faulty meters is not being monitored periodically by Nodal officers.
- 15.3 NRLDC from time to time inform Nodal officers/Utilities regarding these issues via delay letter, discrepancy report, meter issues through various mails/telephonically etc. Despite of various communications, these discrepancies are not being monitored timely and no corrective action has been taken to resolve this issue by Nodal officers/Utilities.
- 15.4 Hence due to delay in resolution of these discrepancies in meters, data processing and validation consumes time and, in some cases, it leads to discrepancy in account which results in account revisions. Utilities/Nodal officers get involved only at the time of account revisions but do not resolve the meter data related issues prior to account published, to avoid these account discrepancies.
- 15.5 NRLDC also informed the forum that a list attached as Annexure VI was circulated to all Nodal officers/Utilities regarding meter discrepancies and asked all of them to provide the updated current status on resolution of these issues. Still NRLDC have not received any response. NRLDC again requested to all Nodal officers/Utilities to go through the list and inform NRLDC regarding action taken at their end and likely resolution time of these issues within 15 days.
- 15.6 MS, NRPC expressed his concern over this agenda and suggested Nodal officers/Utilities to resolve these issues proactively to avoid revisions of DSM accounts and share the action taken report by Nodal officers/Utilities on the list attached as Annexure VI.

ITEM-16 Issue with Sell Quantity Limit in NOAR (Agenda by SRIPL)

- 16.1 SRIPL apprised that in scheduling the power whenever SRIPL made a downward revision in T-GNA schedule, the NOAR is NOT adding the released quantum (made



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Ministry of Power
उत्तर क्षेत्रीय विद्युत समिति
Northern Regional Power Committee

CORRIGENDUM

दिनांक: 05 जून, 2024

Dated: 05 June, 2024

सेवामें / To,

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

Subject: Corrigendum to 49th meeting of Commercial Sub-committee- Minutes of the meeting.

Sir,

The 49th meeting of Commercial Sub-Committee of NRPC was held on 11th March, 2024 from 10:30 AM at NRPC conference hall, Katwaria sarai, New Delhi. The minutes of meeting were issued on 28th May 2024. Corrigendum of the minutes of meeting is attached herewith. The same is also available on NRPC website (<http://164.100.60.165>).

Enc.: As above.

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Signed by Anzum Parwej

Date: 05-06-2024 17:57:46

(अंजुमपरवेज)

अधीक्षण अभियंता (वाणिज्य)

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ITEM-11 STOA :(Agenda by NRLDC):

11.1 Status of Reconciliation of STOA charges as on 23.02.2024

- I. NRLDC representative informed the forum that letters for reconciliation of STU/SLDC charges and refund to the applicants for Q3 of FY 2023-24 (vide Letter reference no. उ.क्षे.भा.प्रे.के./एस टी ओ ए/2023-24/3A and उ.क्षे.भा.प्रे.के./एस टी ओ ए/2023-24/3B), were issued to the concerned stakeholders vide mail dated 25th Jan 2024. The statements related to the disbursement of STU/SLDC charges and refund to the applicants have also been uploaded on NRLDC website. NRLDC requested the applicants/STU/SLDCs to verify the reconciliation statement meticulously and acknowledge the same through a signed statement within due date. In case no response is received from the applicant/STU/SLDC, the same shall be considered as deemed reconciled.
- II. MS, NRPC emphasized timely reconciliation of disbursements to STUs/SLDCs and Refunds to the applicants with NRLDC within the due date, to avoid any future discrepancy. Issues raised by the stakeholders beyond the due date shall not be entertained by NRLDC.
- III. Status of signed reconciliation statement as received by NRLDC from the applicants/STU/SLDC was also shared in the meeting and is attached at Annexure-I.

Decision of Sub-committee:

- IV. After detailed deliberation, it was decided that entities are to submit quarterly reconciliation timely.
- ### **11.2 Regulation of Jammu Kashmir Power Corporation Ltd (JKPCL) as per Electricity (Late Payment Surcharge and Related Matters) Rules, 2022 (Agenda by NRLDC):**
- I. NRLDC representative appraised the forum regarding regular default in payments of outstanding dues of generating companies/ transmission licensee by Jammu Kashmir Power Corporation Ltd (JKPCL), thereby getting triggered in PRAAPTI Portal. The entity was regulated five times in Integrated Day Ahead Market (IDAM) on Power Exchange during October-2023 to February-2024. The details related to regulation of JKPCL are attached at Annexure-II. NRPC and NRLDC representatives stressed upon timely payment of dues by JKPCL to avoid getting regulated.
 - II. No representative from JKPCL was present in the meeting, agenda could not be discussed. Concerned entities were requested to take up the matter in upcoming NRPC meeting.

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

- 12.1 NRLDC apprised the forum regarding significant delays in receiving weekly meter data. As per IEGC 2023, data shall reach NRLDC by Tuesday however utilities are not complying with IEGC timelines. Due to delay in data, all the processing activities get accumulated on Thursday.
- 12.2 Checking/Validation/Replacement/processing of meter data and reporting etc. by Thursday/Friday has become too cumbersome at NRLDC. In addition, for Reactive Energy Account, reactive energy data of all RE station along with regional entities generator need to check/processed. All these activities can be smoothly processed when data reaches within stipulated timeline at NRLDC as per IEGC mandate. Therefore, it is again requested that as

per earlier decision, all nodal officers shall collect and check the meter data and ensure to send it to NRLDC within the timeline.

- 12.3 Further, considerable delay has been observed in replacement of faulty meters at various locations. A compiled list of such meters is attached as Annexure -III. It was informed that NRLDC publishes a discrepancy report on its website on weekly basis consisting of meter related issues and the same has also been communicated multiple times to constituents via email.
- 12.4 This delay in providing meter data and replacement of faulty meters creates a considerable challenge for NRLDC in accurately validating the meter data and issuing final processed data to NRPC on weekly basis for timely accounting.
- 12.5 In the previous 48th CSC meeting, MS NRPC had expressed his concern over delay in Meter Replacement activities and had insisted that the SOP for meter replacement may be finalized by CTU at the earliest for hassle free and effective implementation of replacement activities.
- 12.6 CTU was requested to provide an update on the status and timeline for the preparation of the SOP. They have committed to confirm the timeline within a day.
- 12.7 MS-NRPC reiterated the critical importance of providing meter data to NRLDC in a timely manner and emphasized the urgency of addressing delays in meter replacement. It was suggested that CTU should prepare an SOP to streamline the process of meter installation and replacement.
- 12.8 It was also decided in the forum that the entities whose locations are mentioned in Annexure-III should follow-up with CTU for meter replacement/rectification within a week of the meeting and also intimate NRLDC the updated status of these meters by next week.

Decision of Sub-committee:

- 12.9 CTU to prepare draft SOP for meter installment and replacement.
- 12.10 Faulty meters mentioned in Annexure-III to be replaced at the earliest.

ITEM-13 Electricity (Late Payment Surcharge and Related Matters) (Amendment) Rules, 2024 (Agenda by NRLDC):

- 13.1 NRLDC representative apprised the forum regarding recent amendments in the Electricity (Late Payment Surcharge and Related Matters) Rules, 2022. The amendment of Rule (7) has been brought in to implement the philosophy of curtailment of access based on duration of contracts. The amendment of Rule (9) shall facilitate to optimize the un-requisitioned surplus power of generating stations by offering the same in power exchanges. The summary of the amendment are as follows:

'Access, including any previously approved access, for the sale and purchase of electricity through short-term contracts or power exchange, shall be regulated entirely.'

- 13.2 If the default continues beyond one month, contracts other than short term contracts shall be regulated by 10% in such a manner that the quantum of reduction in drawl or injection schedule increases progressively by ten per cent for each month of default.
- 13.3 On payment of outstanding dues, the regulation of access under this rule shall end, and it shall be restored at the earliest, but not later than one day, excluding the day on which payment is made.

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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 संलग्न 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)
अधीक्षणअभियंता (वाणिज्य)

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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

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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

Gentle Reminder: Follow-Up on Agenda Item No. 13 from 50th CSC meeting: Installation of other end meters

Shubhendu Sachin(शुभेन्दु सचिन)

Tue 2/4/2025 3:09 PM

To: Neeraj Kumar (नीरज कुमार) <Neerajk@powergrid.in>; Rahul Kumar Shakya (राहुल कुमार शाक्य) <rshakya@powergrid.in>;

Cc: Sheikh Shadrudin (शेख शद्रुद्दीन) <sheikhshadrudin@grid-india.in>; Nitin Yadav (नितिन यादव) <nitinyadav@grid-india.in>; Shyam Kumar Meena (श्याम कुमार मीना) <skmeena2@grid-india.in>; Vinay Kumar (विनय कुमार) <Vinay@grid-india.in>; nrldcos@yahoo.com <nrldcos@yahoo.com>;

Sir/Ma'am,

Reminder 1:

Kindly refer the trailing mail regarding installation of other end meter as discussed in 50th CSC meeting and provide the current status of the remaining installation.

Regards,
Shubhendu Sachin
Deputy Manager
NRLDC

From: Shubhendu Sachin(शुभेन्दु सचिन)

Sent: Thursday, October 24, 2024 12:31 PM

To: Neeraj Kumar (नीरज कुमार); Rahul Kumar Shakya (राहुल कुमार शाक्य)

Cc: Sheikh Shadrudin (शेख शद्रुद्दीन); Nitin Yadav (नितिन यादव); Shyam Kumar Meena (श्याम कुमार मीना); Vinay Kumar(विनय कुमार)

Subject: Follow-Up on Agenda Item No. 13 from 50th CSC meeting: Installation of other end meters

Ma'am/Sir,

I am writing to follow up on agenda item No. 13 discussed during the 50th CSC meeting regarding the installation of SEM at the other end of the feeder. As noted, these feeders currently have only one meter installed, which serves as the main meter for accounting purposes. Two lists of meters were discussed and are attached as Annexures III and IV.

In Annexure 3, we provided a detailed list of 38 meters, and BBMB has confirmed that installations on their end are complete. However, several locations from this list still require installations.

During the meeting, it was suggested that POWERGRID expedite the installation of these meters and complete the process by November 2024. We kindly request POWERGRID to provide an update on the status of the remaining installations.

In Annexure 4, an additional list of meters is included, where only one meter has been installed. We would appreciate a timeline for the complete installation of the meters on this list as well.

I look forward to your prompt response.

Regards,
Shubhendu Sachin
Deputy Manager
NRLDC

Re: Gentle Reminder: Follow-Up on Agenda Item No. 14 from 50th CSC Meeting: Current Status on Replacement of Elster and Vincom Meters

Rahul Kumar Shakya {राहुल कुमार शाक्य} <rshakya@powergrid.in>

Fri 2/14/2025 5:17 PM

Inbox

To: Jeetesh Kumar {जीतेश कुमार} <jeetesh.kumar@powergrid.in>; Kritika Chopra {कृतिका चोपड़ा} <kritika.chopra@powergrid.in>;

Cc: Ravi Wadyalkar {रवि अशोक वाड्यालकर} <wravi@powergrid.in>; Ankit Vaish {अंकित वैश्य} <ankit_vaish@powergrid.in>; Neeraj Kumar {नीरज कुमार} <Neerajk@powergrid.in>; Balwinder Kumar {बलविंदर कुमार} <balwinder@powergrid.in>; Abhay Kumar Tiwari {अभय कुमार तिवारी} <abhay.tiwari@powergrid.in>; Nutan Mishra {नूतन मिश्रा} <nutan@powergrid.in>; Tanay Jaiswal {तनय जायसवाल} <tanay@powergrid.in>; Naga Pavan Kalyan Kumar {नागा पवन कल्याण कुमार} <Pavan.naga@powergrid.in>; Shubhendu Sachin {शुभेन्दु सचिन} <shubhendu@grid-india.in>;

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Dear Sir/Ma'am,

Gentle Reminder:

Kindly refer the trailing mail from NRLDC regarding Current Status on Replacement of Elster and Vincom Meters as discussed in 50th Commercial Sub-Committee meeting and please provide the region wise inventory of IEMs.



Rahul Kumar Shakya
Engineer (UNMS & Metering)
Central Transmission Utility of India Ltd.
(A wholly owned subsidiary of POWERGRID)
5th - 10th Floor, Ircon International Tower-1,
Sector-32, Gurugram, Haryana - 122003
Website: ctuil.in
Mobile: +91-9205453458

From: Shubhendu Sachin {शुभेन्दु सचिन} <shubhendu@grid-india.in>

Sent: 04 February 2025 15:14

To: Neeraj Kumar {नीरज कुमार} <Neerajk@powergrid.in>; Rahul Kumar Shakya {राहुल कुमार शाक्य} <rshakya@powergrid.in>

Cc: Sheikh Shadrudin {शेख शद्रुद्दीन} <sheikhshadrudin@grid-india.in>; Nitin Yadav {नितिन यादव} <nitinyadav@grid-india.in>; Shyam Kumar Meena {श्याम कुमार मीना} <skmeena2@grid-india.in>; Vinay Kumar {विनय कुमार} <Vinay@grid-india.in>; Nutan Mishra {नूतन मिश्रा} <nutan@powergrid.in>; nrldcos@yahoo.com <nrldcos@yahoo.com>

Subject: Gentle Reminder: Follow-Up on Agenda Item No. 14 from 50th CSC Meeting: Current Status on Replacement of Elster and Vincom Meters

Sir/ Ma'am,

Reminder 1:

Kindly refer the trailing mail regarding Current Status on Replacement of Elster and Vincom Meters as discussed in 50th CSC meeting and provide the update on progress of the meter replacement.

Regards,
Shubhendu Sachin
Deputy Manager
NRLDC

From: Shubhendu Sachin(शुभेन्दु सचिन)
Sent: Wednesday, October 16, 2024 10:45 AM
To: Neeraj Kumar {नीरज कुमार}; Rahul Kumar Shakya {राहुल कुमार शाक्य}
Cc: Sheikh Shadrudin (शेख शद्रुद्दीन); Nitin Yadav (नितिन यादव); Shyam Kumar Meena (श्याम कुमार मीना); Vinay Kumar(विनय कुमार); Nutan Mishra {नूतन मिश्रा}
Subject: Follow-Up on Agenda Item No. 14 from 50th CSC Meeting: Current Status on Replacement of Elster and Vincom Meters

Ma'am/Sir,

I am writing to follow up on agenda Item no. 14 from the 50th Commercial Sub-Committee meeting held on 27th August 2024, regarding "Current status on replacement of Elster and Vincom meters", as detailed in Annexure 5. During our discussions, it was highlighted that only a limited number of these meters have been installed to date.

As you are aware, the unavailability of vendor support in the market has made it extremely challenging to address the software-related issues that arise with these meters. Since these meters are critical for our accounting processes, timely resolutions are essential.

We kindly request that CTU/PGCIL to provide the current status of the installation process and a timeline for completion.

I look forward to your prompt response. For your convenience, I have attached the relevant list for reference.

Regards,
Shubhendu Sachin
Deputy Manager
NRLDC

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7/9/25, 4:44 PM

Mail - shubhendu@grid-india.in

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एनटीपीसी विद्युत व्यापार निगम लिमिटेड

(एनटीपीसी लिमिटेड की पूर्ण स्वामित्व वाली प्रवाहक कंपनी)

NTPC Vidyut Vyapar Nigam Limited

(A Wholly Owned Subsidiary of NTPC Limited)

कार्यालय / Corporate Centre

Ref No: NVVN/Comm1./NRPC/2025-26/01

Date:09.05.2025

To,

The Member Secretary,
Northern Regional Power Committee (NRPC),
18-A, Qutab Institutional Area,
Shaheed Jeet Singh Marg,
New Delhi – 1100016

Subject: Request for Walver of Annual Membership Fee for NVVN as Settlement Nodal Agency (SNA) for Cross-Border Entities

Respected Sir,

NTPC Vidyut Vyapar Nigam Limited (NVVN) has been nominated by MoP letter dated 26.11.2019 as the **Settlement Nodal Agency (SNA)** for settlement of Grid operation related charges with cross-border countries (Bangladesh, Bhutan, Nepal and Myanmar).

Further, vide NRPC letter dated 02.05.2025 "Meeting Notice for 54th TCC & 79th NRPC meeting", NVVN is listed as the Nodal Agency appointed by the Government of India for coordinating cross power transactions.

As a member, regional participants have to make an **annual fee** to NRPC. However, NVVN, being a Government nominated Nodal Agency, **requests for the exemption from the above fees**, in line with exemption provided for agencies such as RLDC, NLDC, SLDCs, and CTUIL for their roles in power system operations.

In view of the above and considering NVVN's role as a **SNA for cross-border settlement**, we request the **waiver of annual membership fees** applicable to NVVN under the same exemption clause, as extended to above mentioned entities.

We request you to kindly consider our request.

Warm Regards,

Yours sincerely,

Randeep Singh
Randeep Singh
AGM (SO& Comm1.)
NVVN Ltd.

CHAPTER-V: Operation of “NRPC-Fund”

27. NAME:

The name of the fund shall be “NRPC-Fund”. The fund is accumulated amount of contribution fee collected from constituent members of NRPC.

28. PURPOSE:

- i) The fund shall be utilized for meeting the reimbursement of the actual expenditure incurred (from budget provided by Central Electricity Authority) by the office of the NRPC Secretariat to the consolidated fund of Govt. of India/CEA through DDO, NRPC;
- ii) The fund shall be utilized for meeting the expenditure in the conduct of NRPC meetings, workshops, seminars etc.;
- iii) The fund shall be utilized to meet any other office expenditure considered necessary by Member Secretary, for efficient working of NRPC Sectt., with the approval of Chairman, NRPC;
- iv) The fund shall be used for meeting expenditure of NRPC Secretariat as per SOP issued by CEA.

29. CONTRIBUTION:

All the Members and rotational members except the following shall contribute equally on annual basis, which shall be decided every year in NRPC meeting based on review of actual expenditure of the previous year and estimated expenditure in current/next year:

- i) NLDC/NRLDC/SLDCs
- ii) Member (Go&D), CEA
- iii) MS, NRPC
- iv) Exempted by MoP

30. OPERATION:

The fund will be maintained with any Nationalized bank in the name of Northern Regional Power Committee (NRPC) and operate jointly by the nodal officer from the Constituent member along with two more signatory to be nominated with the approval of Member Secretary, NRPC on behalf of NRPC Members. The operation of account will be done under the administrative control / supervision of Member Secretary. All transaction from this account shall be through Cheque/NEFT/RTGS only.

अनुबंध | Contract



अनुबंध क्रमांक | Contract No: GEMC-511687711249042
अनुबंध तिथि | Contract Generated Date : 03-Jul-2024
बोली/आरए/पीबीपी संख्या | Bid/RA/PBP No.: [GEM/2024/B/5016713](#)

संगठन विवरण Organisation Details प्ररूप Type : Central Government मंत्रालय Ministry : Ministry of Power विभाग Department : NA संगठन का नाम Organisation Name : Northern Regional Power Committee Ministry of Power कार्यालय क्षेत्र Office Zone: North		खरीदार विवरण Buyer Details पद Designation : JSA संपर्क नंबर Contact No. : 011-26868681-213 ईमेल आईडी Email ID : sunny.mann@nic.in जीएसटीआईएन GSTIN : N पता Address : 18-A, Shaheed Jeet Singh Marg, P O Hauz Khas, Opp Katwaria Sarai, New Delhi, SOUTH DELHI, DELHI-110016, India	
वित्तीय स्वीकृति विवरण Financial Approval Detail आईएफडी सहमति IFD Concurrence : Yes प्रशासनिक अनुमोदन का पदनाम Designation of Administrative Approval: Member Secretary वित्तीय अनुमोदन का पदनाम Designation of Financial Approval : Member Secretary		भुगतान प्राधिकरण विवरण Paying Authority Details Role: BUYER भुगतान का तरीका Payment Mode: Offline पद Designation : JSA ईमेल आईडी Email ID : sunny.mann@nic.in जीएसटीआईएन GSTIN : N पता Address: 18-A, Shaheed Jeet Singh Marg, P O Hauz Khas, Opp Katwaria Sarai, New Delhi, SOUTH WEST DELHI, DELHI-110016, India	
परेषिती विवरण Consignee Details			
क्र.सं. S.No	परेषिती नाम & पता Consignee Name & Address		सेवा विवरण Service Description
1	संपर्क Contact : 011-26868681-108 ईमेल आईडी Email ID : narender.rathee95@gov.in जीएसटीआईएन GSTIN : - पता Address : 18-A, Shaheed Jeet Singh Marg, P O Hauz Khas, Opp Katwaria Sarai, New Delhi, SOUTH DELHI, DELHI-110016, India		Leasing of Electric Vehicles (Long Term) - Wet Lease; TATA NEXON EV - MAX; 2400 KMs per Month & 10 Hours per Day; 60 Months Lease; White
सेवा प्रदाता विवरण Service Provider Details जेम विक्रेता आईडी GeM Seller ID : 01HY230008967005 कंपनी का नाम Company Name : GENSOL EV LEASE PRIVATE LIMITED संपर्क नंबर Contact No. : 07838886008 ईमेल आईडी Email ID : vijaymalik@gensol.in पता Address : 15, A/1501, Westgate Business Bay, S G Highway, Makarba, Ahmedabad, GUJARAT-380051, - एमएसएमई पंजीकरण संख्या MSME Registration number : UDYAM-GJ-01-0300249 एमएसई सामाजिक श्रेणी MSE Social Category : General एमएसई लिंग श्रेणी MSE Gender : Male जीएसटीआईएन GSTIN: 29AAKCG4847Q1ZM (B) , 24AAKCG4847Q1ZW (R) , 07AAKCG4847Q1ZS (S) , 27AAKCG4847Q1ZQ (B)			
*जिसके नाम के पक्ष में GST/TAX इनवॉइस पेश किया जाएगा GST / Tax invoice to be raised in the name of - Consignee			
सेवा विवरण Service Details			
सेवा प्रारंभ दिनांक (नवीनतम) Service Start Date (latest by): 01-Aug-2024		सेवा समाप्ति तिथि Service End Date : 01-Aug-2029	
श्रेणी नाम Category Name : Leasing of Electric Vehicles (Long Term)			
बिलिंग चक्र Billing Cycle: monthly			
विवरण Description		Number of Vehicles	Cost per Lease month inclusive of GST (INR)
Type of Lease	Wet Lease	1	80825
Type of Vehicle	TATA NEXON EV - MAX		
Packages	2400 KMs per Month & 10 Hours per Day		
Lease Period	60 Months Lease		
Color of the Vehicle	White		
District	NA		
Zipcode	NA		
Number of Lease Months wthin Contract Period	60		
कुल राशि (सूत्र) Total Amount (Formula) : (Cost per Lease month inclusive of GST (INR)*Number of Vehicles*Number of Lease M onths wthin Contract Period)			
ऐडऑन के बिना कुल मूल्य Total Value without Addons(INR)			4849500

कुल एडऑन मूल्य Total Addon Value(INR)				0												
ऐडऑन सहित कुल मूल्य Total Value Including Addons(INR)				4849500												
कर द्विभाजन Tax Bifurcation																
विशिष्ट Particular	जीएसटी GST (12%)	जीएसटी उपकर 1 GST Cess 1 (0%)	जीएसटी पर इनपुट टैक्स क्रेडिट (आईटीसी) Input Tax Credit (ITC) on GST	जीएसटी उपकर पर आईटीसी 1 ITC on GST Cess 1												
Leasing of Electric Vehicles (Long Term)	519589.29	0	-	-												
अनुबंध की राशि Amount of Contract																
सभी शुल्क और करों सहित कुल अनुबंध मूल्य Total Contract Value Including All Duties and Taxes(INR)				4849500												
मूल्य विभाजन की पेशकश की Price Break up offered : प्राइज़ ब्रेक अप ऑफ़र किए गए दस्तावेज़ लिंक Price Break up offered Document link																
एसएलए विवरण SLA Details																
SPECIAL TERMS AND CONDITIONS FOR LEASING OF E-VEHICLES LONG-TERM																
1. Preamble All Agreements/Contracts for long term leasing of e-vehicles placed through GeM shall be governed by the following set of Terms and Conditions: 1. General Terms and Conditions for Goods and Services ("GTC"). 2. Service specific Special Terms and Conditions ("STC") contained in this document. 3. BID / Reverse Auction specific Additional Terms and Conditions ("ATC") as specified by the Buyer. The above terms and conditions are in reverse order of precedence i.e. ATC shall supersede service specific STC which shall supersede GTC, whenever there are any conflicting provisions. This Agreement represents the Special Terms and Conditions (STC) and the Service Level Agreement (SLA) between the Buyer and the Service Provider. This Agreement outlines the scope of work, stakeholders' obligations and general terms and conditions of all services covered as they are mutually understood by the stakeholders. 2. Objective and Goals The objective of this Agreement is to ensure that the proper elements and commitments are in place to provide consistent delivery of service to the Buyer by the Service Provider. The goals of this Agreement are to: 2.1 Provide clear reference to service ownership, accountability, roles and/or responsibilities. 2.2 Present a clear, concise, and measurable description of service provision to the customer. 2.3 Establish Terms and Conditions for all the involved stakeholders. 2.4 To ensure that both the parties understand the consequences in case of termination of services due to any of the stated reasons. The purpose of this Agreement is to facilitate the long-term Leasing of Electric Vehicles (EV). The Service Provider would provide the required equipment and personnel for the mentioned shifts as per the requirements of the Buyer 3. Stakeholders The main stakeholders associated with this SLA are: 3.1 Buyer: The Buyer is responsible to provide clear instructions, approvals and timely payments for the services availed as per the contractual terms 3.2 Service Provider: The Service Provider is responsible to provide all the required services in timely manner. The Service Provider may also include seller, supplier/bidder/contractor, any authorized agents, permitted assignees, successors, and nominees as per the context and as described in the document. The responsibilities and obligations of the stakeholders have been outlined in this document. The document also encompasses payment terms and deductions in case of non-adherence to the defined terms and conditions. It is assumed that all stakeholders would have read and understood the same before signing the SLA. 4. Type of Lease 4.1 Wet Lease: Wet lease covers the complete cost of vehicle at the time of lease, cost of driver during the contract period, complete maintenance of vehicle during the contract period and offers the buyer the facility to buyback the vehicle at the market value at the time of exhausting of the lease agreement. The cost of charging of Vehicle needs to be arranged by the Service Provider. 4.2 Dry Lease: Dry lease covers the complete cost of vehicle at the time of lease, complete maintenance of vehicle during the contract period. The cost of charging of Vehicle needs to be arranged by the Service Provider. 5. Scope of Service 5.1 EV Usage Type: Leasing 5.2 Lock in period/ Minimum Timeframe: 3 years, during which the Buyer shall be entitled to terminate the contract only on account of breach of Contractual obligations and terms by the Service Provider. 5.3 Cure Period: The time between issue of letter/ email regarding default/ non-conformity/ breach and the last date to resolve the default/ non-conformity/ breach. Cure period and notice period can run simultaneously. 5.4 Selection criterion: Lowest cost in INR / month 5.5 The Buyer will have the option to decrease or increase the number of such vehicles up to 20% of the contracted quantity. 5.6 The onus of compliance to all the applicable Laws/Acts/Rules/Guidelines/Circulars shall rest with the Service Provider only and the Buyer will not be liable for any non-compliance of any statutory Laws/Rules/Acts/Guidelines/Circulars, as applicable. 5.7 Service Provider shall have to keep the Buyer totally indemnified against all claims, damages, dues, payments, fines, penalties, compensation demands, liabilities and other losses, if any, that may arise on account of any non-compliance or violation of any contractual or statutory provisions by the Service Provider. 6. Vehicle Type <table><tr><th>Type of Vehicle</th><th>Description</th><th>Examples</th></tr><tr><td>Hatchback</td><td>This segment includes passenger cars with compact design in a two-box configuration, and usually a length between 3401 to 3990 mm.</td><td></td></tr><tr><td>Sedan</td><td>This segment includes passenger cars with mid- size design in a three-box configuration, and usually a length between 3990 to 4500 mm.</td><td>Tata Tigor EV Mahindra E-Verito</td></tr><tr><td></td><td>This segment includes passenger cars with executive design in a three-box configuration, intended to provide passengers with</td><td></td></tr></table>					Type of Vehicle	Description	Examples	Hatchback	This segment includes passenger cars with compact design in a two-box configuration, and usually a length between 3401 to 3990 mm.		Sedan	This segment includes passenger cars with mid- size design in a three-box configuration, and usually a length between 3990 to 4500 mm.	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	This segment includes passenger cars with executive design in a three-box configuration, intended to provide passengers with															

Premium Sedan	increased comfort, a higher level of equipment and increased perception of quality than regular sedans and usually a length between 4000 to 4600 mm.	
SUV	This segment includes passenger vehicles which combine elements of road-going passenger cars with features from o-road vehicles, such as raised ground clearance and four-wheel drive and length between 3995 to 4500 mm.	Tata Nexon EV
MUV	This segment includes vehicles for transport of passenger and material with a seating capacity of 3 besides driver with an open loading capacity in the back for 1 to 1.25 MT	
Premium SUV/MUV	This segment includes SUV/MUVs intended to provide passengers with increased comfort, a higher level of equipment and increased perception of quality than regular SUVs and length between 4300 to 4800 mm.	Hyundai Kona Premium
Luxury Sedan	This segment includes passenger vehicles with luxury design in a three-box configuration, intended to provide top level of comfort and highest perception of quality and length between 4500 to 5200 mm.	
Luxury SUV/MUV	This segment includes SUV/ MUVs with luxury design, intended to provide top level of comfort and highest perception of quality and usually length between 4600 to 5300 mm.	

7. Service Provider's Obligations

7.1 The Service Provider(s) shall have prior experience of providing four-wheeler vehicles (internal combustion engine vehicles or electric vehicles) to public sector or private sector entities for hiring or leasing or purchasing.

7.2 Provision of EV – Service Provider to provide the entire contracted quantity of EVs to the Buyer within 2 weeks of signing the Agreement with clean interiors and proper upholstery. The Service Provider must provide a new vehicle at the beginning of the lease period.

7.3 Additional Provisions – Service Provider, at its own cost, to provide the Buyer with chauffeurs who are uniformed, well-mannered, courteous, polite, punctual, equipped with mobile phone with a working number and active internet connection where mobile navigation applications like Google Maps can be accessed to navigate the most efficient routes; and well acquainted with the roads surrounding the location with adequate knowledge of EV handling.

Additional accessories / utilities to be provided include:

- ☐ Clean seat covers
- ☐ High quality music system
- ☐ Guide map book of the surrounding region
- ☐ Reading lamp
- ☐ Tissue paper box
- ☐ Car perfume
- ☐ Mobile charger
- ☐ Seat belts (front and rear)
- ☐ Umbrella
- ☐ Clean floor mats
- ☐ Fire extinguisher
- ☐ First Aid box
- ☐ Torch
- ☐ Mandatory spares

7.4 The Service Provider shall be exclusively responsible for ensuring compliance with the provisions related to Labour Law [Central/State] and specially Minimum Wages Act, Payment of Wages Act, PF, ESI Act, Payment of Bonus Act, Contract Labour [R&A] Act, Workmen Compensation Act, Motor Vehicle Act, Motor Transport Workers Act, 1961 etc. and any other relevant acts as applicable at present or in future during the tenure of the contract and as may be enforced from time to time.

7.5 Independent Contractors: The relationship between Buyer and Service Provider under this agreement is on principal-to-principal basis and neither party shall have the power or authority to bind or obligate the other party except as expressly set forth in this Agreement. Therefore, Service Provider nor the personnel of the Service Provider shall become the employee of the Buyer under this Agreement. The Buyer shall also not be liable to the service provider nor its personnel, beyond the scope and the fees as mentioned in the STC. For the sake of clarity, it is stated that Buyer shall not be responsible for any claim such as salary or allowances, bonus, compensation, damages, or anything arising out of their employment/duty under this STC. The Service Provider shall make them known about this position in writing before deploying the personnel to the Buyer site. The Buyer shall in no way be responsible for the violation of any laws from the time being in force, either by the Service Provider or its employees.

7.6 Provision of Insurance – Insurance of the EV to be borne by the Service Provider for the period of the Agreement. The insurance agency can be chosen by the Service Provider; however, the insurance will have to be comprehensive in nature.

7.7 Provision of Alternate EV – In case of any maintenance, repairs or breakdowns, the Service Provider will supply the Buyer with an alternate EV.

7.8 Operational Expenses – The Service Provider shall pay the toll charges, parking fee or entry taxes payable locally or outstation which shall later be reimbursed by the Buyer on actual basis as paid by the Service Provider. The Service Provider must raise an invoice for operational expenses covered under Clause 6.6 in the first week of every month for the preceding months.

7.9 Provision for Maintenance - Service Provider will have the responsibility for the annual maintenance/servicing of the e-vehicles for the period of the contract; Service Provider shall also replace the battery when its capacity goes below 75% of optimum capacity (as shown by the relevant dashboard indicator or mobile application or as certified by authorized Service Center) and always maintain effective efficiency of the battery. The Service Provider must provide a schedule of maintenance for the EV on a card and must obtain acknowledgement of each maintenance on the card from the Buyer after submission of proof for the same. The Service Provider shall ensure that all maintenance works related to the assigned vehicle will be carried out in non-duty hours. It shall be ensured that all electrical connections including lights (both brake and front), horn, turn indicators, air conditioning and other vehicle systems shall be periodically checked and maintained by Service Provider to avoid any inconvenience to the Buyer.

7.10 Provision of Support – Service Provider shall maintain a dedicated 24*7 telephone/mobile number for emergencies. A nodal officer shall be appointed by the Service Provider to manage and address the Buyer's queries, complaints or suggestions 12 hours a day and 6 days a week.

7.11 All e-vehicles provided shall have all the necessary permits / licenses / clearances such as, but not limited to, fitness certificate, insurance, registration certificate, etc. as per the Motor Vehicles Act, RTO and other applicable laws and statutory bodies, for providing commercial e-vehicles for this service.

7.12 The Service Provider shall ensure that the drivers of vehicles taken lease are duly verified by the local police from a security perspective; the driver must have a valid driving license for the contract period.

7.13 The Service Provider shall ensure that the issues pertaining to the leave / rest of the driver are taken care of as per statutory rules / regulations.

7.14 The car tyres shall be repaired / replaced immediately by the Service Provider in case of any damages during the contract period.

7.15 The Service Provider shall raise an invoice in the first week of every month for the preceding month.

7.16 The Agreement shall not lead to any relationship between the drivers of the e-vehicles and the Buyer; the payment of salary and other allowances including meeting all their statutory obligations shall be the sole responsibility of the Service Provider and no complaint by any of the drivers in this regard will be entertained by the Buyer.

7.17 EV Charging Costs - The Service Provider will be responsible for all costs associated with the charging of the EV.

8. Obligations of Buyer

8.1 Arrangement of Driver – In case of a dry lease, the Buyer is responsible for hiring the driver for the period of the Agreement including meeting their salary and allowance requirements and other statutory obligations.

8.2 Space/Approval for Charging Stations – The Buyer will apply for a separate electrical connection to be used exclusively for EV charging. Buyer will provide the space and all necessary approvals to the Service Provider for installing the charging equipment in the premise selected by the Buyer. All electrical and preparatory work will be the responsibility of the Buyer.

8.4 Documentation – Buyer shall sign all the documents relating to the registration / de-registration of the e-vehicles and the vehicle acceptance certificate upon delivery of the e-vehicles at the location specified by the Buyer.

8.5 Payment – Buyer shall pay the Service Provider against the raised invoice within 45 days of receipt of the invoice for all the e-vehicles contracted.

8.7 Compliance to Rule 144(xi) -Buyer must ensure that the Service Provider complies with the Rule 144(xi) of General Financial Rules (GFR), 2017 and the product supplied, if any, must also comply with Make In India guidelines of DPIIT"

8.6 Price Variation Clause: It is advisable to include Price Variation Clause in the long-term contracts to take care of the increase/decrease in prices of various ingredients which majorly affect the overall price of the service. Buyers are therefore advised to include the Price Variation Clause (PVC) in the bid document through ATC for long term contracts. The additional payment, if any, on account of PVC can be done offline till such time online functionality is developed on GeM.

8.7 Payment of Extra Kilometres and Hours (Over And Above The Package) A variation up to 20% in distance shall be permitted for each package. Service Provider shall provide services at the same quoted rate for an additional 20% distance travelled on pro rata basis.

As soon as the actual distance for any package reaches 120% of the standard package bought on GeM, if there is a requirement for additional travel, an incremental cost per km shall be paid by the Buyer; this cost shall be calculated as 120% of the monthly package cost divided by the number of km in the monthly package.

Overtime charges per hour will be hourly Minimum Wages as per the prevailing labour law.

9. Provision of Charging Station

9.1 The Service Provider must provide and install at least one charger (with a minimum power output of 3.3 kW) per EV to the Buyer at a location provided by the Buyer. The Service Provider may choose to install more than one charger per EV after obtaining requisite approvals from the Buyer. The Buyer will decide granting of such an approval based on space and cost requirements associated with fulfilling its obligation.

9.2. The Service Provider must ensure that all times, the vehicle should have enough charge to meet the Buyer / Buyer's daily service requirements.

9.3 The Buyer can also require the Service Provider to note any particulars (E.g.: units consumed for any EV charging session) associated with the cost of charging.

9.4 Registration and De-registration – Service Provider shall ensure and bear all the costs associated with the registration and de-registration of e-vehicles with the regional transport authorities.

10. Logbook

10.1 The Service Provider will maintain a separate duty slip for each vehicle, which will be signed by the authorized signatory of the Buyer. Before each car is allotted for duty, the odometer reading shall be noted down by the driver and subsequent entries for starting time/closing time, places visited etc. for each duty during service hours. After completion of duty, the driver shall again note down the odometer reading and get it checked and signed by the user of the vehicle deployed by the Buyer. The logbook must have an option to record any breach of SLA which must be logged, and counter signed by the Buyer. Any costs borne by the Service Provider for EV charging must also be noted in the logbook and must be countersigned by the government official.

10.2 On the basis of each vehicle's duty slip, the Service Provider shall prepare bills enclosing therewith a consolidated statement of each vehicle's running and original copies of duty slip.

11. Payment Terms

11.1 The payment shall be made as per the financial quotes submitted by the Service Provider and accepted by the Buyer.

11.2 No advance payment shall be made to the Service Provider.

11.3 The price quoted shall cover all aspects of service delivery, it shall be inclusive of all consumables required to provide the service.

11.4 Nonetheless, any charges borne by the Service Provider with respect to toll charges, parking fee or entry taxes shall be reimbursed on actual basis upon submission of proof of payment.

11.5 The Service Provider must raise an invoice for the services as well as for all expenses with relevant proofs of payment for the preceding month in the first week of each month. Additionally, the Service Provider must submit the logbook, service feedback and noting of penalty due to breach of SLAs. All the documentation must be submitted to the GeM portal in a manner as prescribed by the Buyer.

11.6 The Buyer must examine all documentation submitted by the Service Provider and ensure the entire payment to the Service Provider within 45 days of the submission of the documentation.

11.7 Payment must be made through bank transfer. No cash/cheque payments should be made.

12. Amendment to Contract

12.1 No provision of present contract shall be changed or modified in any way (including this provision) either in whole or in part except by an instrument in writing made after the date of this contract and which expressly states to amend the present Contract.

12.2 Variation of the Contract as per both Parties' Consent Variation of the Contract shall be done as per mutual consent of both parties; no party shall be made liable to pay/ get any compensation for amendment of this Contract. The variation in the Contract can be through the following, however, the variation put together shall not reduce or exceed 25% of contract value: increase or decrease in the manpower requirement or services to be provided increase or decrease in duration of Contract.

13. Termination of Contract

13.1 The Agreement shall be come to an end either on completion of the Contract Period or shall be terminated for the following reasons: -

(a) Mutual Consent The Contract may be terminated based on mutual consent in case the services are no longer required. Termination based on mutual consent will not attract any deductions or shall not be liable for any extra payments other than payment of invoices raised till the time of termination including notice period.

(b) Breach of SLAs The Contract may also be terminated if :-

(i) The cumulative deductions rise to 10% of the Contract value.

(ii) Repeated breach of any SLA beyond 3 instances as per Buyer discretion. However, termination of this Contract shall not affect any accrued rights or remedies of either party.

13.2 The Buyer shall have the right to terminate this Contract in part or in full in any of the following cases: -

(a) The Service Provider is declared bankrupt or becomes insolvent.

14. Deductions for Non-Compliance of Service Level Agreement

Deductions will be levied on the Service Provider, for the violation of Service Level Agreement of the Contract as mentioned below:

Deductions for Breach					
S.NO	Agreement Particular	Lower Performance	1 st Instance	2 nd Instance	3 rd Instance
1	Delay in reporting for duty by driver/vehicle/ failure to provide alternate arrangements in case of delay or breakdowns	More than 15 mins and less than 1 hour	Rs 500 per e-vehicle	Rs 1000 per e-vehicle	Rs 2000 per e-vehicle
2	Delay of reporting of driver/backup e-vehicle	Over 1 hour breakdown or delay in reporting	Rs. 2500 per instance for the first 5 instances, after which the contract will be terminated		
3	Non-compliance to daily service hours/km requirement	EV Not complying to daily service hours/km as per requirements	Rs 500 per violation	Rs 1000 per violation	Rs 2000 per subsequent violation
4	Not maintaining the e-vehicle as per schedule	Rs. 1000 if delayed by one day, up to 10 days after which the contract will be terminated			
5	All mandatory certifications required for operation of e-vehicle should be obtained timely and remain valid	To be acquired before its expiry failing which contract will be terminated			
6	Change in driver without prior intimation to the Buyer	Rs 500 for each instance			

Calculation Formula for the Service
 $\$total = \$cost * \$quantity * \$no\_of\_month$
 $\$cost = \text{Cost per Lease month inclusive of GST (INR)}$
 $\$quantity = \text{Number of Vehicles}$
 $\$no\_of\_month = \text{Number of Lease Months within Contract Period}$

- अतिरिक्त आवश्यक डेटा/दस्तावेज़: खरीदार | Additional Required Data/Document(s) : Buyer**
- Buyer may upload Scope of Work for the bid : [click here](#)
- अतिरिक्त डेटा/दस्तावेज़ : विक्रेता | Additional Data/Document(s) : Seller**
- Percentage Of Gst Applicable In The Rate Offered (in Percentage) : 5,18
 - Certificate (Requested in ATC) : [click here](#)
 - Documentary Evidence To Be Submitted By Service Provider As Mentioned By Buyer In The Bid : [click here](#)
 - Please Upload The Document As Desired By Buyer Under Additional Condition : [click here](#)

मूल्य द्विभाजन एक्सेल फ़ाइल विवरण | Price Bifurcation Excel File details: [BOQ](#)

ईपीबीजी विवरण | ePBG Detail

सलाहकार बैंक Advisory Bank :	PUNJAB NATIONAL BANK
ईपीबीजी प्रतिशत (%) ePBG Percentage(%):	3.00
बोली लगाने वाले को बोली के नियमों और शर्तों के अनुसार लागू ईपीबीजी प्रस्तुत करना होगा The bidder shall furnish ePBG as applicable as per bid's terms and conditions	

आरसीएम/एफसीएम के संबंध में सामान्य खंड | General Clauses w.r.t RCM/FCM

- Where ever RCM is applicable, for sellers (Regular GST registered seller who opted out of FCM as per notifications of GST like GTA , unregistered seller), Buyer have liability of paying the GST and GST cess to the government on the specified rate mentioned by them in this contract. Seller will invoice buyer with Zero GST and GST cess.
- For Registered sellers as per FCM, rates will be inclusive of prescribed rate of GST and GST cess. ITC available to buyer as shown in the bid document have been applied while evaluating the bids. Seller has liability of paying the GST and GST cess to the govt and same will be charged from buyer while invoice.
- For Registered sellers who opted for RCM while quoting for specified category under section 9(3) like GTA rates will be exclusive of GST and GST cess. GST and GST cess as indicated by the buyer in the bid document payment of GST and GST Cess will be the liability of buyer.
- For Unregistered sellers Liability of payment of GST and GST cess is in Buyers scope. GST and GST cess as indicated by the buyer in the bid document will be the liability of buyer . Unregistered seller will invoice buyer with zero GST and Zero GST cess.

5. For sellers under Composition Scheme: There is no liability of payment of GST and GST cess in Buyers cope. Seller will invoice Zero GST and GST cess in the invoice to buyer.

नियम और शर्तें | Terms and Conditions

1. General Terms and Conditions-

1.1 This contract is governed by the [General Terms and Conditions](#), conditions stipulated to this Product/Service as provided in the Marketplace.

1.2 This Contract between the Seller and the Buyer, is for the supply of the Goods and/ or Services, detailed in the schedule above, in accordance with the General Terms and Conditions (GTC) unless otherwise superseded by Goods / Services specific Special Terms and Conditions (STC) and/ or BID/Reverse Auction Additional Terms and Conditions (ATC), as applicable

2. Buyer Added Bid Specific Terms and Conditions-

2.1 *Generic*

OPTION CLAUSE: The buyer can increase or decrease the contract quantity or contract duration up to 25 percent at the time of issue of the contract. However, once the contract is issued, contract quantity or contract duration can only be increased up to 25 percent. Bidders are bound to accept the revised quantity or duration

2.2 *Service & Support*:

AVAILABILITY OF OFFICE OF SERVICE PROVIDER: An office of the Service Provider must be located in the state of Consignee. DOCUMENTARY EVIDENCE TO BE SUBMITTED.

नोट: यह सिस्टम जनरेटेड फाइल है। कोई हस्ताक्षर की आवश्यकता नहीं है।

Note: This is system generated file. No signature is required.

**Gensol EV Lease Limited**

6th Floor, Capital Cyberscape, Dayma Road,
Ullahwas, Sector 59, Gurugram,
Haryana - 122102

www.letsevleasing.com
communications@letsevleasing.com
0124-6959777

Ref No.: NRPC/GEVL/EV/0205**Date: 02.05.2025**

To,
The Member Secretary
North Regional Power Committee (NRPC)
Shaheed Jeet Singh Marg, Qutab Institutional Area
New Delhi-110016

Sub: Request for Foreclosure of Contract No. GEMC-511687711249042 Dated 3rd July 2025

Dear Sir,

This is in reference to Contract No. GEMC-511687711249042 dated 3rd July 2025, under which 1 No. Tata Nexon EV (Registration No. DL12GD4577) was provided to NRPC on a 5-year wet lease basis. The vehicle is registered in the name of M/s Gensol EV Lease Limited and is currently hypothecated with IDFC Bank Limited.

Due to our current financial situation, we regret to inform you that we are unable to continue the services under this contract. In view of the same, we respectfully request foreclosure of the said contract and wish to submit the following options for your kind consideration:

1. **Option 1 – Buyback by NRPC:** NRPC may kindly consider buying back the vehicle directly from IDFC Bank by settling the outstanding book value, after adjusting the principal and interest amounts paid till date.
2. **Option 2 – Refinancing by NRPC:** NRPC may opt to refinance the vehicle from IDFC Bank based on the outstanding book value, and subsequently take over the repayment through monthly EMI's directly to the bank.
3. **Option 3 – Return of Vehicle:** NRPC may return the vehicle, allowing IDFC Bank to repossess and liquidate the asset in the open market to recover the remaining dues.

We sincerely apologize for any inconvenience this may cause and assure you that we are committed to facilitating a smooth and cooperative resolution. We are ready to provide any further details or documentation required in this regard and remain at your disposal for discussion on any of the proposed options.

We would be deeply grateful for your understanding and kind consideration in this matter.

Thanking You,

Authorized Signatory
Gensol EV Lease Limited

Registered office:

Block A, 15th Floor, Westgate Business Bay,
S G Road, Makarba, Ahmedabad, Gujarat - 380051
CIN: U77100GJ2023PLC141416



Annexure-B.V

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

सेवा में,

M/s GENSOL EV LEASE PRIVATE LIMITED, 15, A/1501, Westgate Business Bay, S G Highway, Makarba, Ahmedabad, GUJARAT-380051	M/s GENSOL EV LEASE PRIVATE LIMITED, 6 th Floor, Capital Cyberspace, Dayma Road, Ullahwas, Sector-59, Gurugram, Haryana- 122102

विषय: Foreclosure of Contract No. GEMC-511687711249042 Dated 3rd July 2025-reg.

महोदय / महोदया,

Kindly refer to your letter Ref No.: NRPC/GEVL/EV/0205 dated 02.05.2025 (**attached at Annexure-I**) vide which it was requested to foreclose contract GEMC-511687711249042 Dated 3rd July 2024 for *Leasing of Electric Vehicles (Long Term) - Wet Lease* and conveying that the company is unable to continue the services under this contract due to their financial situation.

2. Accordingly, matter was taken up as an agenda item in 79th NRPC meeting held on 30.05.2024 in which NRPC forum approved to foreclose the contract w.e.f. 30.06.2025 and return the vehicle to the service provider.

3. Relevant provisions for foreclosure of contract No. GEMC-511687711249042 Dated 3rd July 2024 (**attached at Annexure-II**) are reproduced as hereunder:

Special Terms and Conditions for Leasing of E-Vehicles Long-Term

13. Termination of Contract

13.1 The Agreement shall be come to an end either on completion of the Contract Period or shall be terminated for the following reasons: -

(a) Mutual Consent: The Contract may be terminated based on mutual consent in case the services are no longer required. Termination based on mutual consent will not attract any deductions or shall not be liable for any extra payments other than payment of invoices raised till the time of termination including notice period.

(b) Breach of SLAs The Contract may also be terminated if: - (i) The cumulative deductions rise to 10% of the Contract value. (ii) Repeated breach of any SLA beyond 3 instances as per Buyer discretion. However, termination of this Contract shall not affect any accrued rights or remedies of either party.

13.2 The Buyer shall have the right to terminate this Contract in part or in full in any of the following cases: -

(a) The Service Provider is declared bankrupt or becomes insolvent.

4. Northern Regional Power Committee (NRPC), as per the request received from the service provider (i.e., Gensol EV Lease Private Limited) and under relevant provisions of the contract forecloses / terminates Contract No. GEMC-511687711249042 Dated 3rd July 2024 with effect from 30.06.2025 and vehicle shall be deemed returned afterwards. Service Provider (i.e., Gensol EV Lease Private Limited) may pick up the vehicle for further necessary action at their end.

5. Service Provider (i.e., Gensol EV Lease Private Limited) shall pay the wages of driver/ Chauffeur for May'25 and June'25 and raise invoices up to 30.06.2025.

संलग्नक:

- 1) Annexure-I GENSOL Request Letter for Foreclosure of Contract
- 2) Annexure-II GEMC-511687711249042-03072024

भवदीय,

**(अंजुम परवेज)
अधीक्षण अभियंता (सेवाएँ)**

जानकारी के लिए प्रतिलिपि:

1. सदस्य सचिव, एन.आर.पी.सी.
2. सहायक सचिव, एन.आर.पी.सी.