



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

दिनांक: 12 मार्च, 2026

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: ऑनलाइन माध्यम में दिनांक 23.02.2026 को आयोजित एनआरपीसी की विशेष बैठक के कार्यवृत्त**

Subject: MoM of Special Meeting of NRPC held on 23.02.2026 through online mode -reg.

महोदय/महोदया,

एनआरपीसी की विशेष बैठक दिनांक **23.02.2026 (12:30 PM)** को वीडियो कॉन्फ्रेंसिंग के माध्यम से आयोजित की गयी थी। बैठक के कार्यवृत्त संलग्न है। यह उ.क्षे.वि.स. की वेबसाइट पर भी उपलब्ध है।

Special Meeting of NRPC was held on **23.02.2026 (12:30 PM)** via Video Conferencing. MoM of the same is attached herewith. The same is also available on NRPC Sectt. Website.

भवदीय

Yours faithfully

*(Handwritten Signature)*  
 12/03/2026

(ऋषिका शरण)

(Rishika Sharan)

सदस्य सचिव

Member Secretary

Copy to:

1. Sh. Ashwani Kumar, IAS, Chairperson, NRPC, Additional Chief Secretary, to Government of J&K, Power Development Department, UT of J&K ([power.department@jk.gov.in](mailto:power.department@jk.gov.in)).
2. Sh. G.P. Singh Arora, IAS, Chairperson, TCC and Managing Director, JPDCL ([md-jpdcl@jk.gov.in](mailto:md-jpdcl@jk.gov.in)).

Special NRPC Meeting (23<sup>rd</sup> February, 2026)–MoM



**उत्तर क्षेत्रीय विद्युत समिति**  
**NORTHERN REGIONAL POWER COMMITTEE**



**Minutes of**  
**Special meeting of**  
**Northern Regional Power Committee**

**Date: 23<sup>rd</sup> February 2026**

**Time: 12:30 PM**

**Via: Online Mode**

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**एनआरपीसी की विशेष बैठक के कार्यवृत्त**

**Minutes of Special meeting of Northern Regional Power Committee (NRPC)**

**Minutes of Special Meeting held on 23.02.2026 through online mode**

**INTRODUCTION**

Special Meeting of NRPC was held on 23.02.2026 through VC (online mode) to discuss the ISTS proposals furnished by the CTUIL.

**NRPC opening remarks**

Chairperson, NRPC welcomed all participants. He informed that the meeting was convened to discuss *two no. of ISTS Transmission schemes* proposed by CTUIL. Involvement of all States utilities is very much vital in this regard. He requested Member secretary (MS), NRPC to take up the agenda items.

**Agenda:**

- A.1 Transmission scheme for evacuation of power as part of Rajasthan REZ Ph-IV (Part-6: 6GW) (Bikaner Complex) (Bikaner V: 6GW) (agenda by CTUIL)**
- A.1.1 CTUIL vide letter dated 12.02.2026 has submitted the ISTS network expansion scheme costing more than Rs. 500 crores for deliberation and recommendation in NRPC forum.
- A.1.2 CTU mentioned that Transmission scheme for evacuation of power as part of Rajasthan REZ Ph-IV (Part-6: 6GW) (Bikaner Complex) (Bikaner V: 6GW) was discussed in 56<sup>th</sup> TCC/81<sup>st</sup> NRPC meeting held on 30-31<sup>st</sup> Oct'25. The scheme was agreed in 40<sup>th</sup> CMETS-NR meeting held on 12.09.25 and 47<sup>th</sup> CMETS-ER meeting held on 30.09.25.

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A.1.3 In the 81<sup>st</sup> NRPC meeting it was highlighted that an EHVAC system has been evolved from Bikaner-V PS to various load centers in NR. The broad feature of scheme is as under:

- a) Evacuation of 6 GW RE power from Bikaner V PS on EHVAC system which will take less implementation time than a HVDC system
- b) Resolve the issue of critical loading of 765kV Bikaner - Moga D/c line as well as issue of higher angular separation (>20 degree) under N-1/N-1-1 contingency
- c) Resolve the issue of critical loading of 765kV Aligarh - Greater Noida line
- d) Provide supply to Mohali region to resolve the power deficit situation in Punjab based on the request of PSTCL. This will also improve ATC/TTC limits of Punjab.
- e) Feed RE power to new load centres of Punjab, Delhi and UP to cater to future load demand
- f) Feed the RE power to Greater Noida complex as per requirement of UPPTCL

A.1.4 In the 81<sup>st</sup> NRPC meeting, Member Secretary(MS), ERPC stated that a comprehensive scheme may be submitted by CTU as the present scheme has implications on the Eastern region also. MS, ERPC stated that this scheme has been presented for the first time and there was not sufficient time for detailed deliberation, as it was only recently discussed in the OCC meeting of ERPC. Therefore, additional time is required to assess the entire scheme.

A.1.5 CTU stated that the scheme had already been discussed with Eastern Region constituents during the CMETS-ER meeting; however, it can be discussed again with ERPC and any required modifications can be discussed before submission to the NCT. Furthermore, any delay in approving the transmission system will further constrain RE generation, which is already an issue in the current scenario. Based on deliberation, it was concluded that:

- *Forum advised that a separate meeting under Member (Power System), CEA may be convened within next two weeks by CTU along with concerned stakeholders and the outcome of the meeting shall be discussed at NRPC/ERPC forum before taking it to the NCT meeting.*

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- *CTU and STU may do necessary studies & take up corrective measures in matching timeframe of the proposed scheme to address the observation raised by GRID-INDIA.*

- A.1.6 Subsequently, CTUIL reviewed the studies for additional interconnection to Eastern region. In the revised studies, in place of LILO of both ckts of 400kV Balia – Patna D/c line at Asana S/s , a direct interconnection between Asana S/s & Nawada S/s through 765kV D/c line is considered. Balance scheme remains the same as agreed in CMETS-NR and CMETS-ER meetings earlier. Revised study files were also circulated on 21.11.2025.
- A.1.7 For deliberation on revised proposal towards eastern region, a meeting was convened on 27.11.25 under Chairmanship of Member(PS), CEA. In the meeting MS, ERPC stated that proposed connection towards Nawada would help ER states in import of RE power from Rajasthan complex. The proposal is in order and shall be discussed in ensuing ERPC meeting for approval for ER portion.
- A.1.8 Further in meeting Grid-India highlighted the following major issues in Northern region:
- Higher load consider in Scenario 7 as per LGB
  - Severe low voltage issue in NR Grid in Solar maximized scenarios
  - High voltage issues in winter night off peak scenario
  - High fault level on Various substation in Rajasthan & Punjab
  - Higher angular separation in 400kV Kishenpur -Moga D/c line in N-1 contingency
  - N-1 violation issues pertaining to Intra State lines/ICTs (STU network) in NR
  - Overloading of some of the 400/220kV ICTs and 220kV lines
  - N-1 non-compliance of inter-state ICTs and higher angular separation of various lines in N-1 and N-1-1 contingency
- A.1.9 Grid-India emphasized that above issues may be discussed and resolved as part of Grid strengthening scheme and may be taken up in matching timeframe of proposed Transmission scheme from Bikaner complex.
- A.1.10 Member(PS), CEA directed that CEA, CTU and Grid-India to carry out joint studies separately and mitigate issues highlighted by Grid-India.
- A.1.11 Subsequently, a joint study meeting was held on 23.12.2025 & 24.12.2025 to discuss Intra-state transmission schemes proposed by RVPN, Transmission Resource Adequacy report of Rajasthan and various issues highlighted by Grid-India during the earlier discussions of Transmission scheme for evacuation of

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power as part of Rajasthan REZ Ph-IV (Part-6 : 6GW) (Bikaner Complex) (Bikaner V: 6GW). The Gist of the study meeting, as consented by Member (PS), CEA is attached (Annexure-II of agenda).

- A.1.12 In the meeting, to mitigate high and low voltage issues in Northern region, static and dynamic compensation (SynCON/STATCOM) at various pooling stations i.e. Bhadla-III, Fatehgarh-IV PS(Sec-2), Agra, Orai, Amargarh, Aligarh, Patran, Sonipat, Wagoora, Jhatikra and Mandola was agreed. Further to mitigate high short circuit level at various RE pooling stations and load serving stations, it was decided that remedial measures for high fault levels to be taken in phase-wise manner. Subsequently, drawee substations & few RE PS are to be considered in Phase-I & RE Injection substations are considered in Phase-II.
- A.1.13 For the higher angular separation issues under N-1 in various lines highlighted by Grid-India, it was decided in the meeting that some of lines i.e 400 kV Kishenpur – Moga line & Bhiwani - Moga line & 400 kV Moga - Fatehabad D/c line are considered in phase-I (with resolution in Feb/Mar month CMETS-NR meeting), whereas for other lines, lines will be LILLOed as part of future schemes planned by CTUIL.
- A.1.14 Various other comments of Grid-India were also deliberated in meeting regarding N-1 non-compliance issues of ICTs and 400kV lines in Northern region. Details are enclosed in Annexure-II of agenda.
- A.1.15 As per the discussion in joint study meeting, revised files after incorporating study related comments of CEA and Grid-India were circulated on 16.01.26. The scheme to be put up to RPC for its concurrence. The revised proposal is already agreed in 55<sup>th</sup> TCC/ERPC meeting held on 16-17th Dec'25. Further, for various other Grid related issues highlighted in the Joint study meeting by Grid-India, measures were deliberated and agreed. The Grid strengthening schemes will be taken up separately and appropriately for stakeholder consultation.

**NRPC Deliberations:**

- A.1.16 CTU briefed the NRPC constituents about the scheme.
- A.1.17 Rajasthan submitted that substantial EHVAC transmission infrastructure has already been developed under the Inter-State Transmission System (ISTS), which has led to challenges in Rajasthan control area such as voltage fluctuations,

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harmonics, frequency oscillations, excessive MVAR overdrawl, and consequent grid management issues. In this context, it is suggested that future ISTS development should be planned through EHVDC systems only in place of additional EHVAC corridors.

- A.1.18 As there is no drawl point within Rajasthan under the proposed ISTS scheme for evacuation of power from Bikaner-V (6 GW), RVPN requested that requirement of capacitor banks (MVAR compensation), if any, is to be considered at the DISCOM end of the respective beneficiary state(s) where the drawl of power is envisaged rather than in the Rajasthan networks.
- A.1.19 CTU stated that transmission scheme of 73GW is already planned in inter state comprising 61GW on EHVAC system and 12GW on HVDC system. As part of inter state schemes, adequate static and dynamic compensation were provided in inter state network. In the present scheme, it is not techno economical suitable to plan the system on HVDC system due to involvement of multiple injection and drawl points to meet the requirement of NR states (Punjab, Haryana, UP) and ER states. The scheme also relieves the loading of 765kV Bikaner-Moga D/c line and 765kV Aligarh- G'Noida line which is only possible with EHVAC system. Further, adequate static and dynamic compensation are provided as part of proposed scheme. CTU emphasised that in addition to inter state scheme, about 35GW transmission system is planned in intra state system. In the Joint study meeting held on 23.12.25 & 24.12.25 it was highlighted that low voltage has been observed at various Intra-State substation in Rajasthan and MVAR drawl by RVPN from ISTS has been observed to be very high. The same is also being observed in the load flow study files of 2029-30 time frame. Therefore, RVPN needs to plan capacitor banks to address the issue. In the meeting it was decided that RVPN to coordinate with Rajasthan Discoms to implement additional capacitor banks of total approx. 5000 MVA capacity by 2030.
- A.1.20 Further CTU mentioned that in future, majorly Inter-state scheme will be planned on HVDC network (commissioning beyond 2032) for evacuation of power from Rajasthan RE pockets to other regions.
- A.1.21 PSTCL stated that a 125 MVAR reactor has been proposed at Patran; however, considering that renewable energy (RE) fluctuations are difficult to predict, the

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option of installing a STATCOM at that location may also be explored to provide dynamic compensation.

- A.1.22 CTUIL mentioned that space for STATCOM at Patran was asked from INDIGRID; however, INDIGRID has replied that there is space constraint issue at Patran station. If at any intra-state station in Punjab there is space for STATCOM, same may be evaluated by PSTCL. PSTCL stated that they will revert to CTUIL on the same.
- A.1.23 Further, PSTCL mentioned that in reference to the proposal for the establishment of a 400 kV Substation in the Mohali region, it is requested that suitable land for the 400 kV substation may be identified and finalized at the earliest so that PSTCL can proceed with planning and alignment of the associated 220 kV downstream works accordingly, so as to match with the project timeline.
- A.1.24 CTU stated that proposal will be discussed in ensuing NCT meeting and upon approval of scheme from NCT/MOP, BPC will finalize the land based on inputs of CEA and CTU which will take about 2-3 months from MOP Gazette . CTU requested that PSTCL may align 220kV downstream network strengthening works with proposed Bikaner V scheme.
- A.1.25 NRLDC submitted that the Bikaner-V scheme is in order, based on the revisions carried out pursuant to the Joint Study Meeting held on 23.12.2025 and 24.12.2025 amongst CEA, CTUIL, GRID-INDIA and RRVPNL.
- A.1.26 NRLDC emphasized that additional schemes required for addressing high-voltage and low-voltage issues in the Northern Region; high short-circuit levels at identified 220kV and above substations; 400kV and above transmission lines experiencing high angular spread under N-1 contingency, and transmission elements (both inter-State and intra-State) that are not N-1 compliant, shall be duly planned and implemented within a matching timeframe of Bikaner-V scheme by the respective transmission utility (CTUIL or STU, as applicable).
- A.1.27 The details in this regard are recorded in the Gist of the Joint Study Meeting issued by CEA (Annexure-II of agenda).

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A.1.28 GRID-INDIA suggested proposal for an annual review of the planned transmission system vis-à-vis the actual progress of works under implantation, so as to ensure improved operational preparedness.

A.1.29 CTU stated that Grid strengthening proposal is being taken up in consultation meeting of Mar'26/Apr'26 and it will take lesser time for implementation vis-à-vis implementation of proposed scheme.

A.1.30 Considering above, all constituents of the NRPC forum agreed with the proposal of CTUIL for the Transmission scheme for evacuation of power as part of Rajasthan REZ Ph-IV (Bikaner V: 6GW).

A.1.31 Details of the scheme is as under:

Sl. No.	Description of Transmission Element	Scope of work  (Type of Substation/Conductor capacity/km/no. of bays etc.)
1	<p>Establishment of 765/400 kV, 6x1500 MVA &amp; 400/220 kV, 10x500 MVA Bikaner-V Pooling Station along with 2x240 MVar (765kV) &amp; 2x125 MVar (420kV) Bus Reactors at a suitable location near Bikaner</p> <p><b><u>Future provisions (excl. scope of present scheme):</u></b></p> <ul style="list-style-type: none"> <li>➤ 765 kV line bays along with switchable line reactor –4 nos.</li> <li>➤ 400 kV line bays along with switchable line reactor –4 nos.</li> <li>➤ 400 kV line bays –4 Nos.</li> <li>➤ 765 kV Bus Reactor along with bays: 1 No</li> <li>➤ 400 kV Bus Reactor along with bays: 1 No.</li> <li>➤ 400/220 kV ICT along with bays-2 Nos.</li> <li>➤ 400 kV Sectionalization bays: 1 set</li> <li>➤ 220 kV line bays for connectivity RE Applications -4 Nos.</li> <li>➤ 220kV Sectionalization bay: 2 sets</li> <li>➤ 220 kV BC (2 Nos.) &amp; TBC (2 Nos.)</li> <li>➤ 1 No. of Syncon units* at 400kV level along with 1 nos. of 400kV bay</li> </ul> <p><i>*1 No. of SynCon unit comprises dynamic support of +300MVar/-200MVar (Minimum) &amp; Short circuit contribution at PCC of 1200MVA (Minimum) (Value</i></p>	<p><b>Bikaner-V PS - AIS</b></p> <ul style="list-style-type: none"> <li>• 765/400 kV 1500 MVA ICTs- 6 Nos. (19x500 MVA including one spare unit)</li> <li>• 400/220 kV 500 MVA ICTs- 10 Nos.</li> <li>• 765kV line bays – 4 nos. (for 765kV interconnection with Pallu S/s)</li> <li>• 400kV line bays – 4 nos. (for 400kV interconnection with LILO of one D/c of 400kV Bikaner II PS- Khetri 2xD/c line)</li> <li>• 765kV ICT bays – 6 nos.</li> <li>• 400 kV ICT bays- 16 Nos.</li> <li>• 220 kV ICT bays - 10 Nos.</li> <li>• 240 MVar Bus Reactor-2 Nos. (7x80 MVar, including one spare unit)</li> <li>• 765 kV Bus reactor bays-2 Nos.</li> <li>• 125 MVar Bus Reactor-2 Nos.</li> <li>• 400 kV Bus reactor bays- 2 Nos.</li> <li>• 400kv line bays– 3 Nos. (for RE interconnection)</li> <li>• 220kV line bays – 10 Nos. (for RE interconnection)</li> <li>• 220kV Sectionalization bay: 1</li> </ul>

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Sl. No.	Description of Transmission Element	Scope of work  (Type of Substation/Conductor capacity/km/no. of bays etc.)
	<i>of inertia (MW-secs) shall be provided in RfP document)</i>	set <ul style="list-style-type: none"> <li>• 220 kV BC (2 Nos.) &amp; TBC (2 Nos.)</li> <li>• 400kV sectionaliser bay- 1 Set</li> </ul>
2	STATCOM (2x+300MVA) along with MSC (4x125 MVA) & MSR (2x125 MVA) at Bikaner-V PS	<ul style="list-style-type: none"> <li>• STATCOM (2x+300MVA) along with MSC (4x125 MVA) &amp; MSR (2x125 MVA)</li> <li>• 400 kV bays: 2 Nos. (for STATCOM)</li> </ul>
3	LILO of one double ckt of 400kV Bikaner II PS- Khetri (Twin HTLS) 2xD/c line at Bikaner-V PS along with 50 MVA switchable line reactor for each circuit at Bikaner-V PS end of 400kV Bikaner-V-Khetri section	Length-28km (Quad) (LILO length) <ul style="list-style-type: none"> <li>• 420 kV, 50 MVA switchable line reactors at Bikaner-V PS end– 2 Nos.</li> <li>• Switching equipment for 420kV, 50MVA switchable line reactors at Bikaner-V PS end – 2 Nos.</li> </ul>
4	Establishment of 765/400 kV, 2x1500 MVA S/s at suitable location near Pallu (Distt. Hanumangarh) along with 2x240 MVA (765kV) & 2x125 MVA (420kV) Bus Reactors  <b><u>Future provisions (excl. scope of present scheme):</u></b> <ul style="list-style-type: none"> <li>➤ 765 kV line bays along with switchable line reactor –2 nos.</li> <li>➤ 765/400 kV 1500 MVA ICTs- 2 Nos.</li> <li>➤ 400 kV line bays along with switchable line reactor –4 nos.</li> <li>➤ 400 kV line bays –4 Nos.</li> <li>➤ 765 kV Bus Reactor along with bays: 1 No</li> <li>➤ 400 kV Bus Reactor along with bays: 1 No.</li> <li>➤ 400 kV Sectionalization bays: 1 set</li> <li>➤ 400/220 kV ICT along with bays-5 Nos.</li> <li>➤ 220 kV line bays -8 Nos.</li> <li>➤ 220kV Sectionalization bay: 1 set</li> <li>➤ 220 kV BC (2 Nos.) &amp; TBC (2 Nos.)</li> <li>➤ 2 No. of Syncon units* at 220kV level along with 2 nos. of 220kV bay</li> </ul> <p><i>*1 No. of SynCon unit comprises dynamic support of +300MVA/-200MVA (Minimum) &amp; Short circuit contribution at PCC of 1200MVA (Minimum) (Value of inertia (MW-secs) shall be provided in RfP document)</i></p>	<b>Pallu S/s - AIS</b> <ul style="list-style-type: none"> <li>• 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit)</li> <li>• 765kV line bays – 12 nos. (for 765kV 2xD/c interconnection each with Bikaner-V PS, Panipat S/s and LILO of both ckts of 765kV Bikaner – Moga D/c line)</li> <li>• 400kV line bays – 2 nos. (for 400kV interconnection with Hanumangarh S/s)</li> <li>• 765kV ICT bays – 2 nos.</li> <li>• 400 kV ICT bays- 2 Nos.</li> <li>• 240 MVA Bus Reactor-2 Nos. (7x80 MVA, including one spare unit)</li> <li>• 765 kV Bus reactor bays-2 Nos.</li> <li>• 125 MVA Bus Reactor-2 Nos.</li> <li>• 400 kV Bus reactor bays- 2 Nos.</li> </ul>

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Sl. No.	Description of Transmission Element	Scope of work  (Type of Substation/Conductor capacity/km/no. of bays etc.)
5	765 kV Bikaner-V PS – Pallu 2xD/c line	Line Length -135 km
6	LILO of both ckts of 765kV Bikaner – Moga D/c line at Pallu S/s along with 240MVA switchable line reactor for each circuit at Pallu S/s end of 765kV Pallu-Moga D/c line	Length-10 km (LILo length) <ul style="list-style-type: none"> <li>• 765 kV, 240 MVA switchable line reactors at Pallu S/s end– 2 Nos.</li> <li>• Switching equipment for 765kV, 240MVA switchable line reactors at Pallu S/s end – 2 Nos.</li> </ul>
7	400 kV Pallu – Hanumangarh (RVPN) D/c (Quad) line	Line Length -92 km <ul style="list-style-type: none"> <li>• 400kV line bays – 2 nos. (at Hanumangarh (RVPN) S/s)</li> </ul>
8	<p>Establishment of 765/400 kV, 3x1500 MVA S/s at suitable location near Panipat (Distt. Panipat) along with 2x240 MVA (765kV) &amp; 2x125 MVA (420kV) Bus Reactors</p> <p><b><u>Future provisions (excl. scope of present scheme):</u></b></p> <ul style="list-style-type: none"> <li>➤ 765 kV line bays along with switchable line reactor –4 nos.</li> <li>➤ 765/400 kV 1500 MVA ICTs- 3 Nos.</li> <li>➤ 400 kV line bays along with switchable line reactor –4 nos.</li> <li>➤ 400 kV line bays –4 Nos.</li> <li>➤ 765 kV Bus Reactor along with bays: 1 No</li> <li>➤ 400 kV Bus Reactor along with bays: 1 No.</li> <li>➤ 400 kV Sectionalization bays: 1 set</li> <li>➤ 400/220 kV ICT along with bays-5 Nos.</li> <li>➤ 220 kV line bays -8 Nos.</li> <li>➤ 220kV Sectionalization bay: 1 set</li> <li>➤ 220 kV BC (2 Nos.) &amp; TBC (2 nos.)</li> <li>➤ STATCOM (2x±300MVA) along with MSC (4x125 MVA) &amp; MSR (2x125 MVA) along with 400kv bays (2nos.)</li> </ul>	<p><b>Panipat S/s - AIS</b></p> <ul style="list-style-type: none"> <li>• 765/400 kV 1500 MVA ICTs- 3 Nos. (10x500 MVA including one spare unit)</li> <li>• 765kV line bays –8 nos. (for 765kV 2xD/c interconnection each with Pallu S/s and Bulandshahr S/s)</li> <li>• 400kV line bays – 4 nos. (for 400kV interconnection with Mohali and Mandola S/s)</li> <li>• 765kV ICT bays – 3 nos.</li> <li>• 400 kV ICT bays- 3 Nos.</li> <li>• 240 MVA Bus Reactor-2 Nos. (7x80 MVA, including one spare unit)</li> <li>• 765 kV Bus reactor bays-2 Nos.</li> <li>• 125 MVA Bus Reactor-2 Nos.</li> <li>• 400 kV Bus reactor bays- 2 Nos.</li> </ul>
9	765 kV Pallu-Panipat 2xD/c line along with 240 MVA switchable line reactor for each circuit at each end	Length-260 km <ul style="list-style-type: none"> <li>• 765 kV, 240 MVA switchable</li> </ul>

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Sl. No.	Description of Transmission Element	Scope of work  (Type of Substation/Conductor capacity/km/no. of bays etc.)
		line reactors at Pallu S/s end– 4 Nos. <ul style="list-style-type: none"> <li>• 765 kV, 240 MVA<sub>r</sub> switchable line reactors at Panipat S/s end– 4 Nos.</li> <li>• Switching equipment for 765kV, 240MVA<sub>r</sub> switchable line reactors at Pallu S/s end – 4 Nos.</li> <li>• Switching equipment for 765kV, 240MVA<sub>r</sub> switchable line reactors at Panipat S/s end – 4 Nos.</li> </ul>
10	Establishment of 400/220kV, 4x500 MVA S/s at suitable location near Mohali (Distt. Mohali district) along with 2x125 MVA <sub>r</sub> (420kV) Bus Reactors  <b><u>Future provisions (excl. scope of present scheme):</u></b> <ul style="list-style-type: none"> <li>➤ 400 kV line bays along with switchable line reactor –4 nos.</li> <li>➤ 400 kV line bays –2 Nos.</li> <li>➤ 400 kV Bus Reactor along with bays: 1 No.</li> <li>➤ 400/220 kV ICT along with bays-3 Nos.</li> <li>➤ 400 kV Sectionalization bays: 1 set</li> <li>➤ 220 kV line bays -4 Nos.</li> <li>➤ 220kV Sectionalization bay: 1 set</li> <li>➤ 220 kV BC (2 Nos.) &amp; TBC (2 Nos.)</li> <li>➤ STATCOM (2x+300MVA<sub>r</sub>) along with MSC (4x125 MVA<sub>r</sub>) &amp; MSR (2x125 MVA<sub>r</sub>) along with 400kv bays (2nos.)</li> </ul>	<b>Mohali S/s - GIS</b> <ul style="list-style-type: none"> <li>• 400kV line bays – 4 nos. (for 400kV interconnection with Panipat S/s &amp; LILO of one circuit of 400kV Patiala-Panchkula D/c line)</li> <li>• 400kV ICT bays – 4 nos.</li> <li>• 220 kV ICT bays- 4 Nos.</li> <li>• 125 MVA<sub>r</sub> Bus Reactor-2 Nos.</li> <li>• 400 kV Bus reactor bays- 2 Nos.</li> <li>• 220 kV line bays -6 Nos.</li> </ul> <p><b><i>400/220 ICTs and 220kV bays are implemented to meet PSTCL drawl requirement</i></b></p>
11	LILO of one circuit of 400kV Patiala-Panchkula D/c line at Mohali (Twin HTLS*)  <b><i>* with minimum capacity of 2100 MVA on each circuit at Nominal voltage</i></b>	Length-20 km (LILO length) (Twin HTLS)
12	Reconductoring of 400kV Patiala – Mohali section (upto LILO point) with twin HTLS line *  <b><i>* with minimum capacity of 2100 MVA on each circuit at Nominal voltage</i></b>	Line Length-30km
13	400 kV Panipat S/s – Mohali D/c (Quad	Line Length-160km (Quad)

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Sl. No.	Description of Transmission Element	Scope of work  (Type of Substation/Conductor capacity/km/no. of bays etc.)
	Moose) line along with 80 MVAR (420kV) switchable line reactor for each circuit at Mohali end (155km)	<ul style="list-style-type: none"> <li>• 420 kV, 80 MVAR switchable line reactors at Mohali S/s end– 2 Nos.</li> <li>• Switching equipment for 420kV, 80MVAR switchable line reactors at Mohali S/s end – 2 Nos.</li> </ul>
14	400 kV Panipat S/s – Mandola D/c (Quad) line	Line Length-70km (Quad) <ul style="list-style-type: none"> <li>• 400kV line bays at Mandola S/s – 2 nos.</li> </ul>
15	Establishment of 765 kV S/s at suitable location near Bulandshahr (Distt. Bulandshahr) along with 2x330 MVAR (765kV) Bus Reactors  <u><b>Future provisions (excl. scope of present scheme):</b></u> <ul style="list-style-type: none"> <li>➤ 765 kV line bays along with switchable line reactor –4 nos.</li> <li>➤ 765/400 kV 1500 MVA ICTs- 4 Nos.</li> <li>➤ 400 kV line bays along with switchable line reactor –4 nos.</li> <li>➤ 400 kV line bays –4 Nos.</li> <li>➤ 765 kV Bus Reactor along with bays: 1 No</li> <li>➤ 400 kV Bus Reactor along with bays: 1 No.</li> <li>➤ 400 kV Sectionalization bays: 1 set</li> <li>➤ 400/220 kV ICT along with bays-5 Nos.</li> <li>➤ 220 kV line bays -8 Nos.</li> <li>➤ 220kV Sectionalization bay: 1 set</li> <li>➤ 220 kV BC (2 Nos.) &amp; TBC (2 nos.)</li> <li>➤ STATCOM (2x±300MVAR) along with MSC (4x125 MVAR) &amp; MSR (2x125 MVAR) along with 400kv bays (2nos.)</li> </ul>	Bulandshahr S/s – AIS <ul style="list-style-type: none"> <li>• 765kV line bays –10 nos. (for 765kV 2xD/c interconnection with Panipat S/s, 765kV D/c interconnection with Lucknow-II S/s &amp; Noida sec-148 (UPPTCL) S/s and LILO of 765kV Aligarh – Gr. Noida line)</li> <li>• 330 MVAR Bus Reactor-2 Nos. (7x110 MVAR, including one spare unit)</li> <li>• 765 kV Bus reactor bays-2 Nos.</li> </ul>
16	765 kV Panipat- Bulandshahr 2xD/c line along with 240 MVAR switchable line reactor for each circuit at Bulandshahr end	Line Length-155 km <ul style="list-style-type: none"> <li>• 765 kV, 240 MVAR switchable line reactors at Bulandshahr S/s end– 4 Nos.</li> <li>• Switching equipment for 765kV, 240MVAR switchable line reactors at Bulandshahr S/s end</li> </ul>

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Sl. No.	Description of Transmission Element	Scope of work  (Type of Substation/Conductor capacity/km/no. of bays etc.)
		– 4 Nos. • 1x80 MVAR, 765kv reactor spare unit
17	LILO of 765kV Aligarh – Gr. Noida line at Bulandshahr S/s	Length-35 km (LILo length)
18	765kV Bulandshahr - Noida sec-148 (UPPTCL) D/c line	Line Length- 65 km • 765kV line bays at Noida sec-148 S/s(UPPTCL) – 2 nos.
19	Establishment of 765/400 kV, 2x1500 MVA Lucknow-II S/s at suitable location near Lucknow along with 2x330 MVAR (765kV) & 2x125 MVAR (420kV) Bus Reactors  <b><u>Future provisions (excl. scope of present scheme):</u></b>  ➤ 765 kV line bays along with switchable line reactor –8 nos. ➤ 765/400 kV 1500 MVA ICTs- 4 Nos. ➤ 400 kV line bays along with switchable line reactor –4 nos. ➤ 400 kV line bays –4 Nos. ➤ 765 kV Bus Reactor along with bays: 1 No ➤ 400 kV Bus Reactor along with bays: 1 No. ➤ 400 kV Sectionalization bays: 1 set ➤ 400/220 kV ICT along with bays-5 Nos. ➤ 220 kV line bays -8 Nos. ➤ 220kV Sectionalization bay: 1 set ➤ 220 kV BC (2 Nos.) & TBC (2 nos.) ➤ 2 No. of Syncon units* at 400kV level 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)) (Value of inertia (MW-secs) shall be provided in RfP document)	Lucknow-II S/s – AIS  • 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit) • 765kV line bays –4 nos. (for 765kV D/c interconnection each with Asana & Bulandshahr S/s) • 400kV line bays – 2 nos. (for 400kV interconnection with Gonda (UPPTCL) S/s) • 765kV ICT bays – 2 nos. • 400 kV ICT bays- 2 Nos. • 330 MVAR Bus Reactor-2 Nos. (7x110 MVAR, including one spare unit) • 765 kV Bus reactor bays-2 Nos. • 125 MVAR Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 Nos.
20	765 kV Bulandshahr – Lucknow-II D/c line along with 330 MVAR switchable line reactor for each circuit at each end	Line Length- 330km • 765 kV, 330 MVAR switchable line reactors at Bulandshahr S/s end– 2 Nos. • Switching equipment for 765kV, 330MVAR switchable line

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Sl. No.	Description of Transmission Element	Scope of work  (Type of Substation/Conductor capacity/km/no. of bays etc.)
		reactors at Bulandshahr S/s end – 2 Nos. • 765 kV, 330 MVAR switchable line reactors at Lucknow-II S/s end– 2 Nos. • Switching equipment for 765kV, 330MVAR switchable line reactors at Lucknow-II S/s end – 2 Nos.
21	400 kV Lucknow-II – Gonda D/c (Quad Moose) line	Line Length- 150km 400kV line bays at Gonda S/s(UPPTCL) – 2 nos.
22	Establishment of 765/400 kV, 2x1500 MVA S/s at suitable location near Asana Village (Chandauli District) along with 2x330 MVAR (765kV) & 2x125 MVAR (420kV) Bus Reactors  <u><b>Future provisions (excl. scope of present scheme):</b></u> ➤ 765 kV line bays along with switchable line reactor –6 nos. ➤ 765/400 kV 1500 MVA ICTs- 4 Nos. ➤ 400 kV line bays along with switchable line reactor –4 nos. ➤ 400 kV line bays –4 Nos. ➤ 765 kV Bus Reactor along with bays: 1 No ➤ 400 kV Bus Reactor along with bays: 1 No. ➤ 400 kV Sectionalization bays: 1 set ➤ 400/220 kV ICT along with bays-5 Nos. ➤ 220 kV line bays -8 Nos. ➤ 220kV Sectionalization bay: 1 set ➤ 220 kV BC (2 Nos.) & TBC (2 nos.) ➤ 2 No. of Syncon units* at 400kV level 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)) (Value of inertia (MW-secs) shall be provided in RfP document)	<b>Asna (Chandauli) S/s – AIS</b> • 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit) • 765kV line bays –4 nos. (for 765kV D/c interconnection each with Lucknow-II S/s & Nawada) • 400kV line bays – 4 nos. (for LILO of both ckts of 400kV Varanasi – Biharsharif D/c line) • 765kV ICT bays – 2 nos. • 400 kV ICT bays- 2 Nos. • 330 MVAR Bus Reactor-2 Nos. (7x110 MVAR, including one spare unit) • 765 kV Bus reactor bays-2 Nos. • 125 MVAR Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 Nos.
23	765 kV Lucknow-II-Asana D/c line along with 330 MVAR switchable line reactor for each	Line Length- 350km • 765 kV, 330 MVAR switchable

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Sl. No.	Description of Transmission Element	Scope of work  (Type of Substation/Conductor capacity/km/no. of bays etc.)
	circuit at each end	line reactors at Asana S/s end– 2 Nos. <ul style="list-style-type: none"> <li>• Switching equipment for 765kV, 330MVAr switchable line reactors at Asana S/s end – 2 Nos.</li> <li>• 765 kV, 330 MVAr switchable line reactors at Lucknow-II S/s end– 2 Nos.</li> <li>• Switching equipment for 765kV, 330MVAr switchable line reactors at Lucknow-II S/s end – 2 Nos.</li> </ul>
24	LILO of both ckts of 400kV Varanasi – Biharsharif D/c line at Asana S/s along with 80 MVAr switchable line reactor for each circuit at Asana end of 400kV Asana-Biharsharif section	Length-35km (LILO length) <ul style="list-style-type: none"> <li>• 420 kV, 80 MVAr switchable line reactors at Asana S/s end– 2 Nos.</li> <li>• Switching equipment for 420kV, 80MVAr switchable line reactors at Asana S/s end – 2 Nos.</li> </ul>
25	Asana – Nawada 765kV D/c line along with 330MVAr switchable line reactors in each circuits at Asana end	Line Length - 215km <ul style="list-style-type: none"> <li>• 765 kV, 330 MVAr switchable line reactors at Asana S/s end– 2 Nos.</li> <li>• Switching equipment for 765kV, 330MVAr switchable line reactors at Asana S/s end – 2 Nos.</li> </ul>

**Decision of the Forum**

Forum agreed the proposal of CTUIL for the Transmission scheme for evacuation of power as part of Rajasthan REZ Ph-IV (Bikaner V: 6GW).

## **A.2 Transmission scheme for evacuation of power from Sunni Dam HEP (382MW) & Luhri Stage-I (210MW) (additional agenda by CTUIL)**

A.2.1 CTU mentioned that the Transmission system for evacuation of power from Luhri Stage-I HEP was discussed and agreed in the 8<sup>th</sup> NCT meeting held on 25.03.2022 at an estimated Cost of Rs 432 Crores. Scheme was notified by CEA vide Gazette dated 02.06.2022 and RECPDCL was appointed as the BPC of the transmission

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scheme. Further in the CEA meeting held on 26.08.22 for finalization of location of pooling station near Nange, location of the pooling station was agreed in Ogli (Tehsil Sunni). The timeframe of the above transmission scheme was revised to 31<sup>st</sup> August 2026 in the 14<sup>th</sup> NCT meeting held on 09.06.2023.

A.2.2 Further, considering new proposed location near Bilaspur (Brahampukhar) (in place of Nange PS) revised proposal was agreed in 22<sup>nd</sup> NCT meeting held on 23.08.2024 at an estimated Cost of Rs 305 Crores. Bidding of Transmission scheme was kept on hold due to uncertainty of commissioning schedule of generation projects.

A.2.3 Subsequently, SJVN vide letter 15.01.26 requested for reconsideration of Ogli as pooling station for evacuation of power from 210MW Luhri Stage-I HEP (LHEP-I) and 382MW Sunni Dam HEP (SDHEP). In the same letter, SJVN again revised the SCODs of 382 MW SDHEP and 210 MW LHEP-I as under:

Sr. No.	Project	Date of 1 <sup>st</sup> Unit SCOD of Project	Date of SCOD of Project
1	382 MW SDHEP	15.10.2029	15.12.2029
2	210 MW LHEP-I	01.11.2029	31.12.2029

In the letter, SJVN highlighted the benefits of the shifting of ISTS Pooling Station from Brahampukhar to Ogli (Nange) as below:

- The 220 kV transmission line length will considerably reduce from 94 km to 44 km for evacuation of power of both Projects.
- Twin Moose conductor from Sunni Dam HEP to Ogli (10 km) in place of Twin Bersimis Conductor from Sunni Dam HEP to Brahampukhar (50Km).
- Lower RoW & Forest Clearance issues.
- There will be no requirement of Pot Head Yard-II at Sunni HEP along with associated GIS Bays.
- There will be no by-pass arrangement of Transmission Line in case SCOD of LHEP1 come first.
- Reduction in implementation time & construction challenges in difficult terrain.

A.2.4 Based on the request of SJVN, a joint study meeting was held on 05.02.26 among CEA, CTU, Grid-India, RECPDCL, PSTCL, SJVN & NTPC to deliberate and finalize the Transmission scheme for evacuation of power from Sunni Dam HEP (382MW) & Luhri Stage-I (210MW).

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- A.2.5 CTU stated that as Transmission system was already agreed in the 8<sup>th</sup> NCT meeting held on 25.03.2022 with Nange PS. Further in the CEA meeting held on 26.08.22 for finalization of location of pooling station near Nange, location of the pooling station was agreed in Ogli (Tehsil Sunni). Considering above, same Transmission system is proposed for evacuation of power from SDHEP and LHEP-I with additional ICT augmentation at Nange PS (3x315MVA ICT in place of earlier agreed 2x315MVA ICT).
- A.2.6 In the above Joint study meeting, proposal was re-examined and agreed with additional ICT augmentation at Nange PS w.r.t. approved scheme in 8<sup>th</sup> NCT meeting with revised timelines.
- A.2.7 In meeting Grid-India & CTU requested SJVN to provide synchronous condenser capabilities in hydro generators. SJVN stated that they will revert on the same.
- A.2.8 Further a meeting was held under the Chairmanship of Member (Power System) on 19.02.26 wherein it was decided that Considering the reduction in length of dedicated lines and based on the commitment provided by SJVN for timely completion of road widening, bridge strengthening, etc. works; the earlier finalized location of Ogli village is to be considered for establishment of proposed 400/220 kV Pooling Station. SJVN to complete all the works related to road widening, bridge strengthening etc., that are required to mitigate the logistics constraints, at least one year before the SCoD of transmission scheme.
- A.2.9 After the deliberations following proposal was agreed in Joint study meeting:

**Proposed Modified Transmission Scheme**

<b>Sl. No.</b>	<b>Name of Scheme : Transmission system for evacuation of power from Sunni Dam HEP (SDHEP) &amp; Luhri Stage-I HEP (LHEP-I)</b>
1	<p>Establishment of 10x105 MVA, 400/220kV Nange Pooling Station (GIS) along with 1x125 MVAR (420kV) Bus Reactor (1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 315MVA, 400/220 kV ICT: 3 Nos. (10x105 MVA including 1 spare ICT)</li> <li>• 400kV ICT bays: 3 Nos.</li> <li>• 220 kV ICT bays: 3 Nos.</li> <li>• 420 kV, 125 MVAR Bus Reactor – 1 No.(4x41.67 MVAR including 1 spare Reactor)</li> <li>• 400 kV Bus Reactor bay- 1 No.</li> <li>• 400 kV Line Bays- 2 Nos.</li> </ul>

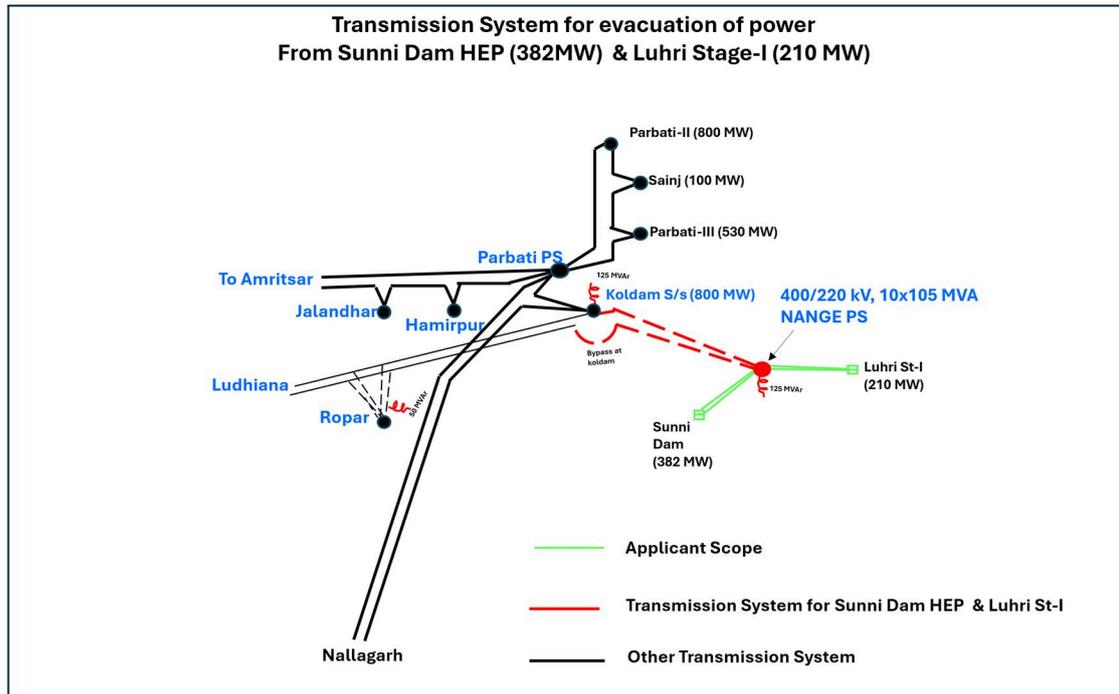
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	<ul style="list-style-type: none"> <li>• 220kV Bus coupler- 1no.</li> </ul> <p>Future provisions: Space for</p> <ul style="list-style-type: none"> <li>• 400/220kV ICTs (315 MVA with single phase units) along with associated bays: 2 Nos.</li> <li>• 400 kV line bays along with switchable line reactor: 2 Nos.</li> <li>• 400 kV line bays: 2 Nos.</li> <li>• 220 kV line bays: 8 Nos.</li> <li>• 220kV bus sectionalizer: 1 set</li> <li>• 220kV Bus coupler- 1 no.</li> </ul>
2	<p>Nange (GIS) Pooling Station – Koldam 400 kV D/C line (Triple snowbird) (only one circuit is to be terminated at Koldam while second circuit would be connected to bypassed circuit of Koldam – Ropar/Ludhiana 400kV D/C line)</p> <ul style="list-style-type: none"> <li>• Line length -50 km (Triple snowbird)</li> </ul>
3	<p>1 no. of 400kV line bay at Koldam S/S for termination of Nange (GIS) Pooling Station – Koldam 400 kV line along with 1x125 MVAR (420kV) Bus Reactor at Koldam S/s (1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 125 MVAR, 420kV Bus Reactor – 1 no.</li> <li>• 400kV Bus Reactor bay – 1 no. (To be terminated in existing line bay at Koldam, which would be available due to bypassing of one circuit of Koldam-Ropar/Ludhiana 400kV D/C line at Koldam s/s)</li> <li>• 400 kV Line Bay- 1 no.</li> </ul>
4	<p>Bypassing one ckt of Koldam – Ropar/Ludhiana 400kV D/C line (Triple snowbird) at Koldam and connecting it with one of the circuit of Nange-Koldam 400kV D/C line (Triple snowbird), thus forming Nange- Ropar/ Ludhiana one line (Triple snowbird)</p>
5	<p>1x50 MVAR switchable line reactor at Ropar end of Nange-Ropar/ Ludhiana 400kV line</p> <ul style="list-style-type: none"> <li>• 400 kV, 50MVAr Line Reactor- 1 no.</li> <li>• 400 kV Reactor Bay- 1 no</li> </ul>

**Estimated Cost : Rs 763 Cr**

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Timeframe : Nov'29 (matching with HEP generation schedule)



**Fig: Transmission scheme for evacuation of power from Sunni Dam HEP (382MW) & Luhri Stage-I (210MW)**

**NRPC Deliberations:**

- A.2.10 CTUIL mentioned that Transmission system was already agreed in the 8<sup>th</sup> NCT meeting held on 25.03.2022. Same Transmission system is proposed for evacuation of power from SDHEP and LHEP-I with additional ICT augmentation at Nange PS (3x315MVA ICT in place of earlier agreed 2x315MVA ICT). As the project cost revised to Rs 730Cr (>Rs 500 Cr), scheme is put up for the views of NRPC constituents before forwarding it to the NCT for approval.
- A.2.11 CTUIL apprised that PSTCL has confirmed the space for line reactor at Ropar end of Nange-Ropar/ Ludhiana 400kV line.
- A.2.12 As the commissioning timeline of the scheme is November' 29, CTUIL suggested PSTCL to explore the possibility of bus reactor at 400 KV Ropar as part of intra state system to mitigate high voltage issue in Punjab.
- A.2.13 All constituents of the NRPC forum agreed with the proposal of CTUIL for the Transmission scheme for evacuation of power from Sunni Dam HEP (382MW) & Luhri Stage-I (210MW).

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*Forum agreed the proposal of CTUIL for the Transmission scheme for evacuation of power from Sunni Dam HEP (382MW) & Luhri Stage-I (210MW)”.*

**A.3 Capacity Building /Study Programmes on International Best Practices in Energy Transition for Constituents of Northern Regional Power Committee (additional agenda by NRPC Secretariat)**

A.3.1 MS, NRPC apprised that NRPC Forum approved the capacity building program in 77<sup>th</sup> NRPC meeting held on 27-28 Dec, 2024. Extracts of MoM is attached as Annexure-VI of Additional Agenda.

A.3.2 Accordingly, NRPC Secretariat had sent DPR vide letter dated 28.01.2025. Further, queries of PSDF Secretariat was replied vide letter 28.05.2025.

A.3.3 NLDC vide letter no NLDC-PSDF/95th TESG/2025-26 dated 13.02.2026 has informed that TESC has recommended the proposal of NRPC on “Capacity Building /Study Programmes on International Best Practices in Energy Transition for Constituents of Northern Regional Power Committee (Proposal No: 480)” at total estimated cost of **₹6.02 crores with GST**, and with eligible 70% grant (as decided by the 26<sup>th</sup> Monitoring Committee) under the clause 5.1(f) of PSDF guidelines i.e. ₹4.214 crores (including GST) to Appraisal Committee of PSDF, subject to submission of the consent letter for acceptance of 70% funding from PSDF.

A.3.4 Accordingly, consent of NRPC forum is required for rest of the amount i.e. 30% of ₹6.02 crores with GST to be collected from NRPC constituents. As this amount is to be paid in next financial year, therefore it may be taken into consideration in budget estimate of FY 2026-27.

**NRPC Deliberations:**

A.3.5 MS, NRPC asked NRPC constituents to submit its observations/views on the sharing 30% of ₹6.02 crores (including GST) for above proposal of capacity building program within one week.

A.3.6 J&K representative requested to reduce its contribution amount from 30% to 10% as J&K being UT and has special category status.

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- A.3.7 However, MS, NRPC mentioned that it has been decided by the Secretary, (Power) for all projects to be funded under PSDF, the 30% contribution to be borne by proposing entity.
- A.3.8 HP representative mentioned that after approval from their management they would convey their views to NRPC Sectt..

***Decision of the Forum***

*NRPC constituents were requested to submit their observations and views regarding the sharing of the 30% of ₹6.02 crores (including GST) for the above capacity-building proposal within one week. If no comments are received within this period, it will be deemed that all NRPC constituents have given their consent.*

Meeting ended with a vote of thanks to the chair

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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	<a href="mailto:member.god@cea.nic.in">member.god@cea.nic.in</a>
2	NLDC	National Load Despatch Centre	Director (System Operation)	<a href="mailto:rk.porwal@grid-india.in">rk.porwal@grid-india.in</a>
3	NRLDC	Northern Regional Load Despatch Centre	Executive Director	<a href="mailto:sajan@grid-india.in">sajan@grid-india.in</a>
4	CTUIL	Central Transmission Utility	Chief Operating Officer	<a href="mailto:coo-ctu@ctuil.in">coo-ctu@ctuil.in</a>
5	PGCIL	Central Government owned Transmission Company	Director (Operations)	<a href="mailto:naveensrivastava@powergrid.in">naveensrivastava@powergrid.in</a>
6	NTPC	Central Generating Company	Director (Finance)	<a href="mailto:jaikumar@ntpc.co.in">jaikumar@ntpc.co.in</a>
7	BBMB		Chairman	<a href="mailto:cman@bbmb.nic.in">cman@bbmb.nic.in</a>
8	THDC		CGM (EM-Design)	<a href="mailto:rsemwal@thdc.co.in">rsemwal@thdc.co.in</a>
9	SJVN		CMD	<a href="mailto:sectt.cmd@sjvn.nic.in">sectt.cmd@sjvn.nic.in</a>
10	NHPC		Director (Technical)	<a href="mailto:sadhikari@nhpc.nic.in">sadhikari@nhpc.nic.in</a>
11	NPCIL		Director (Finance)	<a href="mailto:df@npcil.co.in">df@npcil.co.in</a>
12	Delhi SLDC		General Manager	<a href="mailto:gmsldc@delhisldc.org">gmsldc@delhisldc.org</a>
13	Haryana SLDC		Chief Engineer (SO&C)	<a href="mailto:cesocomml@hvpn.org.in">cesocomml@hvpn.org.in</a>
14	Rajasthan SLDC		Chief Engineer (LD)	<a href="mailto:ce.ld@rvpn.co.in">ce.ld@rvpn.co.in</a>
15	Uttar Pradesh SLDC		Director	<a href="mailto:directorsldc@upsldc.org">directorsldc@upsldc.org</a>
16	Uttarakhand SLDC	Chief Engineer	<a href="mailto:anupam_singh@ptcul.org">anupam_singh@ptcul.org</a>	
17	Punjab SLDC	Chief Engineer	<a href="mailto:ce-sldc@punjabsldc.org">ce-sldc@punjabsldc.org</a>	
18	Himachal Pradesh SLDC	Managing Director	<a href="mailto:mdhpsldc@gmail.com">mdhpsldc@gmail.com</a>	
19	DTL	State Transmission Utility	CMD	<a href="mailto:cmd@dtl.gov.in">cmd@dtl.gov.in</a>
20	HVPNL		Managing Director	<a href="mailto:md@hvpn.org.in">md@hvpn.org.in</a>
21	RRVNL		CMD	<a href="mailto:cmd.rvpn@rvpn.co.in">cmd.rvpn@rvpn.co.in</a>
22	UPPTCL		Managing Director	<a href="mailto:md@upptcl.org">md@upptcl.org</a>
23	PTCUL		Managing Director	<a href="mailto:md@ptcul.org">md@ptcul.org</a>
24	PSTCL		CMD	<a href="mailto:cmd@pstcl.org">cmd@pstcl.org</a>
25	HPPTCL		Managing Director	<a href="mailto:md.tcl@hpmail.in">md.tcl@hpmail.in</a>
26	IPGCL		Managing Director	<a href="mailto:md.ipgpp@nic.in">md.ipgpp@nic.in</a>
27	HPGCL		Managing Director	<a href="mailto:md@hpgcl.org.in">md@hpgcl.org.in</a>
28	RRVUNL		CMD	<a href="mailto:cmd@rrvun.com">cmd@rrvun.com</a>
29	UPRVUNL	State Generating Company	Director (Technical)	<a href="mailto:director.technical@uprvunl.org">director.technical@uprvunl.org</a>
30	UJVNL		Managing Director	<a href="mailto:mdujvnl@ujvnl.com">mdujvnl@ujvnl.com</a>
31	HPPCL		Managing Director	<a href="mailto:md@hppcl.in">md@hppcl.in</a>
32	PSPCL	State Generating Company & State owned Distribution Company	CMD	<a href="mailto:cmd-pspcl@pspcl.in">cmd-pspcl@pspcl.in</a>
33	DHBVN	State owned Distribution Company (alphabetical rotational basis/nominated by state govt.)	Managing Director	<a href="mailto:md@dhbvn.org.in">md@dhbvn.org.in</a>
34	Ajmer Vidyut Vitran Nigam Ltd.		Managing Director	<a href="mailto:MD.AVVNL@RAJASTHAN.GOV.IN">MD.AVVNL@RAJASTHAN.GOV.IN</a>
35	Purvanchal Vidyut Vitaran Nigam Ltd.		Managing Director	nomination awaited(md@puvvnl.in)
36	UPCL		Managing Director	<a href="mailto:md@upcl.org">md@upcl.org</a>
37	HPSEB		Managing Director	<a href="mailto:md@hapseb.in">md@hapseb.in</a>
38	Prayagraj Power Generation Co. Ltd.	IPP having more than 1000 MW installed capacity	Head (Commercial & Regulatory)	<a href="mailto:saniya.bhargava@tatapower.com">saniya.bhargava@tatapower.com</a>
39	Aravali Power Company Pvt. Ltd		CEO	<a href="mailto:brahmaijig@ntpc.co.in">brahmaijig@ntpc.co.in</a>
40	Apraava Energy Private Limited		CEO	<a href="mailto:niraj.gupta@apraava.com">niraj.gupta@apraava.com</a>
41	Talwandi Sabo Power Ltd.		Head Regulatory & Policy Advocacy	<a href="mailto:arun.kumar@vedanta.co.in">arun.kumar@vedanta.co.in</a>
42	Nabha Power Limited		CEO	<a href="mailto:sk.narang@larsentoubro.com">sk.narang@larsentoubro.com</a>
43	MEIL Anpara Energy Ltd		COO & WTD, Executive Director	<a href="mailto:anandkumar.singh@meilanparapower.com">anandkumar.singh@meilanparapower.com</a> <a href="mailto:arun.tholia@meilanparapower.com">arun.tholia@meilanparapower.com</a>
44	Rosa Power Supply Company Ltd		Station Director	<a href="mailto:Hirday.tomar@relianceada.com">Hirday.tomar@relianceada.com</a>
45	Lalitpur Power Generation Company Ltd		Managing Director	<a href="mailto:vksbankoti@bajajenergy.com">vksbankoti@bajajenergy.com</a>
46	MEJA Urja Nigam Ltd.		CEO	<a href="mailto:hopmeja@ntpc.co.in">hopmeja@ntpc.co.in</a>
47	Adani Power Rajasthan Limited		Chief Operating Officer (O&M)	<a href="mailto:sudip.nag@adani.com">sudip.nag@adani.com</a>
48	JSW Energy Ltd. (KWHEP)		Head Regulatory & Power Sales	<a href="mailto:jyotiprakash.panda@jsw.in">jyotiprakash.panda@jsw.in</a>
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	<a href="mailto:cejkpcl2@gmail.com/sojppdd@gmail.com">cejkpcl2@gmail.com/sojppdd@gmail.com</a>
51	UT of Ladakh		Chief Engineer, LPDD	<a href="mailto:cepladakh@gmail.com">cepladakh@gmail.com</a>
52	UT of Chandigarh		Executive Engineer, EWEDC	<a href="mailto:seelo-chd@nic.in">seelo-chd@nic.in</a>
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.	<a href="mailto:ceonvvn@ntpc.co.in">ceonvvn@ntpc.co.in</a>
54	TPDDL	Private Distribution Company in region (alphabetical rotational basis)	Head-Operations	nomination awaited(ceo.office@tatapower-ddl.cpm)
55	Gurgaon Palwal Transmission Limited	Private transmission licensee (nominated by central govt.)	AVP-O&M	<a href="mailto:lokendra.ranawat@indigrid.com">lokendra.ranawat@indigrid.com</a>
56	PTC	Electricity Trader (nominated by central govt.)	CEO	<a href="mailto:cmd@ptcindia.com">cmd@ptcindia.com</a>
57	ReNew Power Private Limited	RE Generating Company having more than 1000 MW installed capacity	CEO	<a href="mailto:sumant@renew.com">sumant@renew.com</a>
58	NTPC Green Energy Limited		CEO	<a href="mailto:ceongel@ntpc.co.in">ceongel@ntpc.co.in</a>
59	Azure Power India Pvt. Limited		CEO	<a href="mailto:sunil.gupta@azurepower.com">sunil.gupta@azurepower.com</a>
60	Avaada Energy Private Limited		CEO	<a href="mailto:kishor.nair@avaada.com">kishor.nair@avaada.com</a>
61	Adani Green Energy Limited		COO	<a href="mailto:chaitanya.sahoo@adani.com">chaitanya.sahoo@adani.com</a>

## 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, JPDCL	Chairperson, TCC		<a href="mailto:md-jpdcl@jk.gov.in">md-jpdcl@jk.gov.in</a>
2	Member (GO&D), CEA	Member (Grid Operation & Distribution), Central Electricity Authority (CEA)		<a href="mailto:cegm-cea@gov.in">cegm-cea@gov.in</a>
3	NLDC	National Load Despatch Centre		<a href="mailto:mkagarwal@grid-india.in">mkagarwal@grid-india.in</a>
4	NRLDC	Northern Regional Load Despatch Centre	Executive Director	<a href="mailto:sajan@grid-india.in">sajan@grid-india.in</a>
5	CTUIL	Central Transmission Utility	Chief Operating Officer	<a href="mailto:vbagadia@powergrid.in">vbagadia@powergrid.in</a>
6	PGCIL	Central Government owned Transmission Company	ED, NR-I	<a href="mailto:aloksharma99@powergrid.in">aloksharma99@powergrid.in</a>
7	NTPC	Central Generating Company	Regional ED, NR	<a href="mailto:rednr@ntpc.co.in">rednr@ntpc.co.in</a>
8	BBMB		Member (Power)	<a href="mailto:mp@bbmb.nic.in">mp@bbmb.nic.in</a>
9	THDC		GM (EMD)	<a href="mailto:neerajverma@thdc.co.in">neerajverma@thdc.co.in</a>
10	SJVN		Director (Projects)	<a href="mailto:de.sectt@svn.nic.in">de.sectt@svn.nic.in</a>
11	NHPC		ED (O&M)	<a href="mailto:hod-om-co@nhpc.nic.in">hod-om-co@nhpc.nic.in</a>
12	NPCIL		Outstanding Scientist & ED (commercial)	<a href="mailto:nrcchoudhary@npcil.co.in">nrcchoudhary@npcil.co.in</a>
13	Delhi SLDC		State Load Despatch Centre	
14	Haryana SLDC	Chief Engineer/SO & Comml.		<a href="mailto:cesocomm@hvpn.org.in">cesocomm@hvpn.org.in</a>
15	Rajasthan SLDC	Superintending Engineer (SOLD) RVPN		<a href="mailto:SE.SOLD@RVPN.CO.IN">SE.SOLD@RVPN.CO.IN</a>
16	Uttar Pradesh SLDC	Chief Engineer (PSO)/Chief Engineer (C&S)		<a href="mailto:ceps@upsldc.org">ceps@upsldc.org</a>
17	Uttarakhand SLDC			nomination awaited
18	Punjab SLDC		<a href="mailto:ce-sldc@pstcl.org">ce-sldc@pstcl.org</a>	
19	Himachal Pradesh SLDC		nomination awaited	
20	DTL	State Transmission Utility	Director (Operation)	<a href="mailto:dir.opr@dtl.gov.in">dir.opr@dtl.gov.in</a>
21	HVPNL		Director (Projects)	<a href="mailto:directorprojects@hvpn.org.in">directorprojects@hvpn.org.in</a>
22	RRVNL		Chief Engineer (PP&D)	<a href="mailto:ce.ppm@rvpn.co.in">ce.ppm@rvpn.co.in</a>
23	UPPTCL		Director (Planning & Commercial)	<a href="mailto:director_comm@upptcl.org">director_comm@upptcl.org</a>
24	PTCUL		Chief Engineer	<a href="mailto:ce_oandmk@ptcul.org">ce_oandmk@ptcul.org</a>
25	PSTCL		Director / Technical	<a href="mailto:dir-tech@pstcl.org">dir-tech@pstcl.org</a>
26	HPPTCL	State Generating Company	GM (C&D)	<a href="mailto:gmcd.tcl@hpmail.in">gmcd.tcl@hpmail.in</a>
27	IPGCL		Director(Tech.)	<a href="mailto:corporate.ppcl@gmail.com">corporate.ppcl@gmail.com</a>
28	HPGCL		Director/Technical	<a href="mailto:dirtech@hpgcl.org.in">dirtech@hpgcl.org.in</a>
29	RRVUNL		Dy. Chief Engineer	<a href="mailto:dyce.elect.katpp@rrvun.com">dyce.elect.katpp@rrvun.com</a>
30	UPRVUNL		Director (Technical)	<a href="mailto:director.technical@uprvunl.org">director.technical@uprvunl.org</a>
31	UJVNL		General Manager	<a href="mailto:kkjaiswal99@gmail.com">kkjaiswal99@gmail.com</a>
32	HPPCL		Director (Electrical) General	<a href="mailto:dir_elect@hppcl.in">dir_elect@hppcl.in</a>
33	PSPCL	State Generating Company & State owned Distribution Company		nomination awaited
34	DHBVN	State owned Distribution Company (alphabetical rotational basis/nominated by state govt.)		<a href="mailto:directoroperations@dhbvn.org.in">directoroperations@dhbvn.org.in</a>
35	Ajmer Vidyut Vitran Nigam Ltd.		Director (Tech.), AVVNL, Ajmer	<a href="mailto:DT.AVVNL@RAJASTHAN.GOV.IN">DT.AVVNL@RAJASTHAN.GOV.IN</a>
36	Purvanchal Vidyut Vitaran Nigam Ltd.			nomination awaited
37	UPCL		Director (P)	<a href="mailto:dpupcl29@gmail.com">dpupcl29@gmail.com</a>
38	HPSEB		nomination awaited	
39	Prayagraj Power Generation Co. Ltd.	IPP having more than 1000 MW installed capacity	Head – Commercial & Regulatory	<a href="mailto:Sanjay.bhargava@tatapower.com">Sanjay.bhargava@tatapower.com</a>
40	Aravali Power Company Pvt. Ltd		CEO	<a href="mailto:brahmajig@ntpc.co.in">brahmajig@ntpc.co.in</a>
41	Apraava Energy Private Limited			nomination awaited
42	Talwandi Sabo Power Ltd.		Dy. Head O&M	<a href="mailto:ravinder.thakur@vedanta.co.in">ravinder.thakur@vedanta.co.in</a>
43	Nabha Power Limited			nomination awaited
44	MEIL Anpara Energy Ltd		COO & WTD, Executive Director	<a href="mailto:anandkumar.singh@meilanparapower.com">anandkumar.singh@meilanparapower.com</a> <a href="mailto:arun.tholia@meilanparapower.com">arun.tholia@meilanparapower.com</a>
45	Rosa Power Supply Company Ltd		VP-Technical Services	<a href="mailto:Niranjan.Jena@relianceada.com">Niranjan.Jena@relianceada.com</a>
46	Lalitpur Power Generation Company Ltd		GM Electrical	<a href="mailto:aupadhay.ltp@lpgcl.com">aupadhay.ltp@lpgcl.com</a>
47	MEJA Urja Nigam Ltd.		GM (O&M)	<a href="mailto:piyushkumar@ntpc.co.in">piyushkumar@ntpc.co.in</a>
48	Adani Power Rajasthan Limited		AVP	<a href="mailto:Manoj.taunk@adani.com">Manoj.taunk@adani.com</a>
49	JSW Energy Ltd. (KWHEP)	Head of Plant	<a href="mailto:kaushik.maulik@jsw.in">kaushik.maulik@jsw.in</a>	
50	Transition Cleantech Services Private Limited	IPP having less than 1000 MW installed capacity (alphabetical rotational basis)		nomination awaited
51	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/		nomination awaited
52	UT of Ladakh			nomination awaited
53	UT of Chandigarh			<a href="mailto:seelo-chd@nic.in">seelo-chd@nic.in</a>
54	NVVN	Nodal Agency appointed by the Government of India for coordinating cross-border power transactions		<a href="mailto:VIKASKUMAR04@NTPC.CO.IN">VIKASKUMAR04@NTPC.CO.IN</a>
55	TPDDL	Private Distribution Company in region (alphabetical rotational basis)		nomination awaited
56	Gurgaon Palwal Transmission Limited	Private transmission licensee (nominated by central govt.)		<a href="mailto:lokendra.ranawat@indgrid.com">lokendra.ranawat@indgrid.com</a>
57	PTC	Electricity Trader (nominated by central govt.)		<a href="mailto:bikramsingh@ptcindia.com">bikramsingh@ptcindia.com</a>
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