

**Amendment-LII dated 11.10.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Transmission system for evacuation of power from Luhri Stage-I HEP” through tariff based competitive bidding process.**

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1.	<p><b>Specific technical requirement of Substation of RfP B.2.0</b></p> <p><b>RFP &amp; TSA</b></p>	<p>B.2.0 Substation Equipment and facilities (Voltage level as applicable):</p> <p>The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Description of bay</th> <th colspan="2">400/220kV <u>Nange (GIS) substation</u></th> </tr> <tr> <td></td> <td></td> <th>400kV</th> <th>220 kV</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Bus Bar</td> <td>5000A</td> <td>4000A</td> </tr> <tr> <td>2.</td> <td>Line bay</td> <td>3150A</td> <td><b>1600A</b></td> </tr> <tr> <td>3.</td> <td>ICT bay</td> <td>3150A</td> <td>1600A</td> </tr> <tr> <td>4.</td> <td>Bus Reactor bay</td> <td>3150A</td> <td>-</td> </tr> <tr> <td>5.</td> <td>Bus Coupler bay</td> <td>-</td> <td>4000A</td> </tr> </tbody> </table>	Sl. No	Description of bay	400/220kV <u>Nange (GIS) substation</u>				400kV	220 kV	1.	Bus Bar	5000A	4000A	2.	Line bay	3150A	<b>1600A</b>	3.	ICT bay	3150A	1600A	4.	Bus Reactor bay	3150A	-	5.	Bus Coupler bay	-	4000A	<p>B.2.0 Substation Equipment and facilities (Voltage level as applicable):</p> <p>The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.</p> <table border="1"> <thead> <tr> <th rowspan="2">Sl. No</th> <th rowspan="2">Description of bay</th> <th colspan="2">400/ 220 kV <u>Bilaspur (GIS) Pooling Station</u></th> </tr> <tr> <th>400 kV</th> <th>220 kV</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Bus Bar</td> <td>5000 A</td> <td>4000 A</td> </tr> <tr> <td>2.</td> <td><b>Line bay</b></td> <td>3150 A</td> <td>--</td> </tr> <tr> <td>3.</td> <td>ICT bay</td> <td>3150 A</td> <td>1600 A</td> </tr> <tr> <td>4.</td> <td>Bus Reactor bay</td> <td>3150 A</td> <td>-</td> </tr> <tr> <td>5.</td> <td>Bus Coupler bay</td> <td>-</td> <td>4000 A</td> </tr> </tbody> </table>	Sl. No	Description of bay	400/ 220 kV <u>Bilaspur (GIS) Pooling Station</u>		400 kV	220 kV	1.	Bus Bar	5000 A	4000 A	2.	<b>Line bay</b>	3150 A	--	3.	ICT bay	3150 A	1600 A	4.	Bus Reactor bay	3150 A	-	5.	Bus Coupler bay	-	4000 A
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2.	<p><b>SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</b></p> <p><b>RFP &amp; TSA</b></p>	<p>The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017 and CEA (Cyber Security in Power Sector) Guidelines, 2021, all above documents as amended from time to time.</p>	<p>The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, <b><u>CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022</u></b>, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, and CEA (Cyber Security in Power Sector) Guidelines, 2021, <b><u>and CERC Guidelines on “Interface Requirements” 2024</u></b> all above documents as amended from time to time.</p> <p><b><u>The communication services viz. SCADA, AGC (wherever applicable), VoIP, AMR and PMU have been identified as critical services and therefore shall be</u></b></p>																																																						

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			<p><u>provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation. PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.</u></p> <p><u>Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs</u></p> <p><u>The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.</u></p>
3.	<p><b>SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</b></p> <p><b>RFP &amp; TSA</b></p>	<p><b>C.2.0 Establishment of 7x105 MVA, 400/220kV Nange GIS Pooling Station alongwith 125 MVAR (420kV) Bus Reactor at Nange (GIS) PS (1-Ph units along with one spare unit)</b></p> <p>(I) TSP shall supply, install &amp; commission <b>2 no. FODP (96 F)</b> alongwith panel and Approach Cable (24F) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.</p> <p>(II) TSP shall supply, install &amp; commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum <b>Five (5)</b> directions with MSP (Multiplex Section Protection – 1+1). These</p>	<p><b>C.1.0 Establishment of 400/220 kV Bilaspur S/s (GIS)</b></p> <p>(I) TSP shall supply, install and commission <b>1 No. FODP (72F or higher)</b> along with panel and approach Cable (24F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.</p> <p>(II) TSP shall supply, install and commission One no STM-16 (FOTE) equipment alongwith panel/s supporting minimum <b>Three (3)</b> directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local</p>

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		<p>directions shall exclude protected (1+1) local patching among equipment (if any) at <b><u>Nange (GIS) S/s</u></b>. Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement among <b><u>Nanage (GIS), Koldam</u></b>. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FODP &amp; FOTE equipment with panels shall be provided in Control Room/ Relay Panel Room of Nange (GIS). FOTE &amp; FODP can be accommodated in same panel to optimize space.</p> <p>(IV) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.</p> <p>(V) <b><u>TSP shall supply, install &amp; commission required no. of Phasor Measurement Units (PMUs) for all 400kV and above voltage line bays (under the scope of this project) at Nange (GIS) S/s. These PMUs shall support latest IEEE C-37.118 protocols. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room with Fibre Optic cable. These PMUs shall be connected with the FOTE at Substation for onwards data</u></b></p>	<p>patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement among <b><u>Koldam (NTPC), Ropar and Bilaspur GIS</u></b>. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FODP and FOTE equipment with panels shall be provided in Control Room of Bilaspur S/s (GIS). FOTE and FODP Eq can be accommodated in same panel to optimize space.</p> <p>(IV) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.</p> <p><del>(V) TSP shall supply, install &amp; commission required no. of Phasor Measurement Units (PMUs) for all 400kV and above voltage line bays (under the scope of this project) at Nange (GIS) S/s. These PMUs shall support latest IEEE C-37.118 protocols. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room with Fibre Optic cable. These PMUs shall be connected with the</del></p>

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		<p><u>transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. However, configuration work in existing PDC at RLDC for new PMU integration is not in scope of TSP (shall be done by respective RLDC), however all the necessary support in this regard shall be ensured by TSP.</u></p> <p>(VI) TSP shall supply, install &amp; commission Firewall in redundant mode (1+1) in line with the specification attached at <b>Annexure F.1</b>.</p> <p>(VII) The maintenance of all the communication equipment including FOTE, FODP, approach cable, PMUs, DCPS alongwith Battery Bank &amp; Firewall shall be the responsibility of TSP.</p>	<p><del>FOTE at Substation for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. However, configuration work in existing PDC at RLDC for new PMU integration is not in scope of TSP (shall be done by respective RLDC), however all the necessary support in this regard shall be ensured by TSP.</del></p> <p>(VI) TSP shall supply, install and commission Firewall in redundant mode (1+1) in line with the specification attached at <b>Annexure F.1</b>.</p> <p>(VII) The maintenance of all the communication equipment and software thereof including FOTE, FODP, PMU, approach cable, DCPS alongwith Battery Bank and Firewall shall be the responsibility of TSP.</p>
4.	<p><b>SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</b></p> <p><b>RFP &amp; TSA</b></p>	<p><b>New clause added</b></p>	<p><b><u>C.2.0 FOTE/ Optical Interfaces at Ropar S/s (PSTCL) and Koldam (NTPC)</u></b></p> <p><b><u>TSP to supply necessary FOTE/ Interfaces at Ropar S/s (PSTCL) and Koldam (NTPC) to meet the link budget requirement for Koldam (NTPC) - Bilaspur GIS and Bilaspur GIS – Ropar links after LILO of Ropar- Koldam (NTPC) line at Bilaspur GIS.</u></b></p>
5.	<p><b>SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</b></p>	<p><b>C.3.0 1 no. of 400kV line bay at Koldam S/s for termination of Nange (GIS) Pooling Station – Koldam 400 kV line alongwith 125 MVAR (420kV) Bus Reactor at Koldam S/s (1-Ph units along with one spare unit)</b></p>	<p><b>----To be Deleted---</b></p>

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	RFP &TSA	<p>(I) TSP shall supply, install &amp; commission 1 no. FODP (96 F) alongwith panel and required Approach Cable (24F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.</p> <p>(II) TSP shall supply, install &amp; commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum three (3) directions with MSP (Multiplex Section Protection (1+1)) with necessary interfaces to meet the voice and data communication requirement between <b>Nange (GIS) &amp; Koldam S/s</b>. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of Koldam which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.</p> <p>In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, the TSP may integrate the FOTE</p>	

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		<p>under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).</p> <p>(IV) FOTE &amp; FODP can be accommodated in same panel to optimize space.</p> <p>(V) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.</p> <p>(VI) TSP shall supply, install &amp; commission required no. of Phasor Measurement Units (PMUs) for all 400kV and above voltage line bays (under the scope of this project) at Koldam and PMUs shall support latest IEEE C-37.118 protocols. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room with Fibre Optic cable. These PMUs shall be integrated with the existing PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for</p>	

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		<p>new PMU integration is not in scope of TSP (shall be done by respective RLDC), however all the necessary support in this regard shall be ensured by TSP. TSP shall provide separate WAMS (PMU, switches etc.) required for extended bays at Koldam.</p> <p>(VII) The maintenance of all the communication equipment including FOTE, FODP, approach cable, PMUs, DCPS alongwith Battery Bank shall be the responsibility of TSP.</p> <p>Note: Existing Station owner/s to provide necessary support to integrate different equipment &amp; applications of new extended bays with the existing substation e.g. Communication (through FOTE), PMUs, Voice etc. for smooth operation and monitoring of new added grid elements.</p>	
6.	<p><b>SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</b></p> <p><b>RFP &amp; TSA</b></p>	<p><u><b>C.1.0 Nange (GIS) Pooling Station – Koldam 400 kV D/c line</b></u></p> <p><u><b>On Nange (GIS) – Koldam 400kV D/c line, TSP shall supply, install &amp; commission one (1) no. OPGW cable containing 24 Fibres (24F) on one E/W peak and conventional earth wire on other E/W peak. The TSP shall install this OPGW from gantry of Nange (GIS) up to the gantry of Koldam S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is 40 kms</b></u></p>	<p><u><b>C3.0 LILO of one Ckt of 400V Koldam (NTPC) – Ropar D/C line at Bilaspur (GIS)</b></u></p> <p><u><b>On LILO of one ckt of 400V Koldam (NTPC) – Ropar D/C line at Bilaspur (GIS), TSP shall supply, install and commission OPGW and earthwire as per Tower Configurations:</b></u></p> <p>(I) <u><b>Loop-In and Loop out Ckt on Single Towers: Two (2) No. OPGW cable containing 24 Fibres (24F) to be installed and commissioned by the TSP on both the Earthwire peaks</b></u></p>

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		<p><u>(approx.) which can be managed as a repeater less link, hence repeater is not envisaged.</u></p> <p><u>Maintenance of OPGW Cable &amp; OPGW Hardware shall be responsibility of TSP</u></p>	<p>(II) <u>Loop-In and Loop out Ckt on Two separate Towers: One (1) No. OPGW cable containing 24 Fibres (24F) on one earthwire peak and conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.</u></p> <p><u>The TSP shall install OPGW cables from gantry of Bilaspur S/s up to the LILO tower with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Ghiror S/s. The transmission line length is 1 km (approx.). After LILO, if fiber length for links Bilaspur S/s to Ropar S/s and Bilaspur S/s to Koldam (NTPC) S/s is above 225 km then repeater shall be envisaged, otherwise line can be managed as a repeater less link.</u></p> <p><u>TSP shall finalize the location of repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per Appendix-F.1</u></p> <p><u>Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.</u></p>
7.	<p><b>SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION RFP &amp; TSA</b></p>	Figure F.1	<p><u>Revised figure F.1 is attached at Annexure A.</u></p>

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8.	<p><b>SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</b></p> <p><b>RFP &amp;TSA</b></p>	<p>New clause added</p>	<p><b><u>C.5.0 Specific Requirement for Phasor Measurement Units (PMUs)</u></b></p> <p><b><u>TSP shall supply, install and commission required No. of Phasor Measurement Units (PMUs) at all the locations under the scope this RfP as per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 (alongwith all amendments if any) and all the other applicable Regulations, Standards, Guidelines issued time to time. The signal list shall be as per the Annexure-I Part-B of CERC Guidelines on “Interface Requirements” 2024. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fibre Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.</u></b></p>
9.	<p>2.7.1 of RFP</p>	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1400 hours (IST) on <b>11.10.2024</b>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p>	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1400 hours (IST) on <b>25.10.2024</b>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p>

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<u>01.11.2024</u>	Selection of Successful Bidder and issue of LOI																																						
<u>11.11.2024</u>	Signing of RFP Project Documents and transfer of Luhri Power Transmission Limited																																						
Date	Event																																						
<u>25.10.2024</u>	Submission of Bid (Online submission of Bid through electronic bidding portal)																																						
<u>25.10.2024</u>	Opening of Technical Bid																																						
<u>04.11.2024</u>	Shortlisting and announcement of Qualified Bidders on bidding portal																																						
<u>05.11.2024</u>	Opening of Financial Bid - Initial Offer																																						
<u>06.11.2024</u>	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.																																						
<u>11.11.2024</u>	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer																																						
<u>14.11.2024</u>	Selection of Successful Bidder and issue of LOI																																						
<u>25.11.2024</u>	Signing of RFP Project Documents and transfer of Luhri Power Transmission Limited																																						
11.	2.13.1 of RFP	<p>.....</p> <p>Opening of Envelope (Technical Bid): 1430 hours (IST) on <u>11.10.2024</u></p> <p>.....</p> <p>Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1430 hours (IST) on <u>22.10.2024</u> in the office of CEA.</p>	<p>.....</p> <p>Opening of Envelope (Technical Bid): 1430 hours (IST) on <u>25.10.2024</u></p> <p>.....</p> <p>Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1430 hours (IST) on <u>05.11.2024</u> in the office of CEA.</p>																																				

**Amendment-LII dated 11.10.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Transmission system for evacuation of power from Luhri Stage-I HEP” through tariff based competitive bidding process.**

**Annexure-A**

Proposed Communication for **“Transmission system for evacuation of power from Luhri Stage-I HEP”**

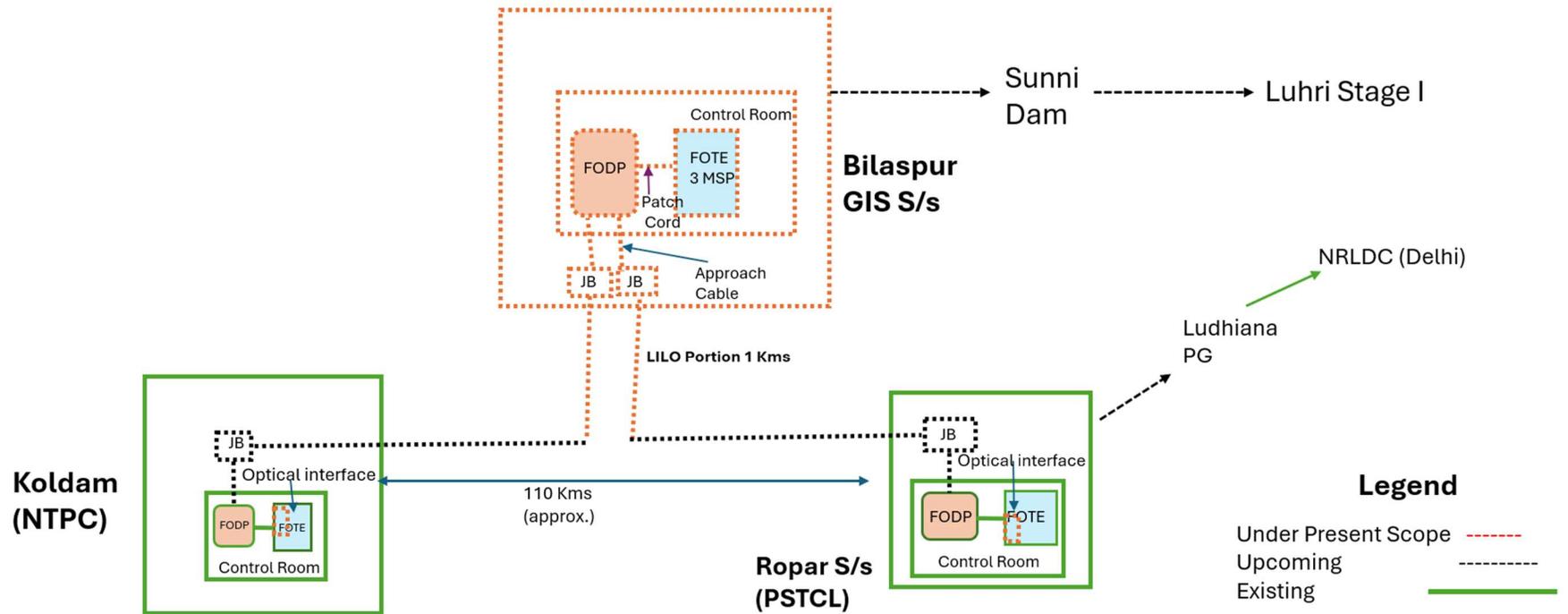


Figure F.1 (Revised)