

Amendment-VII dated 22.08.2025 to the RFP Documents for selection of bidder as Transmission Service Provider to establish “Transmission System for Integration of Ananthapuram-II REZ-Phase-II (3 GW)” through tariff based competitive bidding process.

Sl. No.	Clause No.	Existing Clause			New/Revised Clause		
1	Scope of the Transmission Scheme RFP & TSA	Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date	Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
		1.	Augmentation of Ananthapuram-II PS by 400/220 kV, 1x500 MVA ICT	24 months	1.	Augmentation of Ananthapuram-II PS by 400/220 kV, 1x500 MVA ICT	24 months
		
		3.	...		3.	...	
		4.	...	30 months	4.	...	30 months
		
		9.	<u>i) LILO at CN'Halli of already LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan or ii) LILO of another circuit of Talaguppa - Neelmangala 400 kV D/c line at CN'Halli and extension of LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan to CN'Halli to make Hassan - CN'Halli 400 kV D/c line</u>		9.	<u>LILO at CN'Halli of already LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan</u>	

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Sl. No.	Clause No.	Existing Clause					New/Revised Clause				
		Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element	Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
2.	Clause 2.6, Annexure 8 of RFP and Schedule 2 of TSA	1.	Augmentation of Ananthapuram-II PS by 400/220 kV, 1x500 MVA ICT	24 months	3.64	Ananthapuram-II Phase-I Transmission System and Element at Sl. No. 2 & 3	1.	Augmentation of Ananthapuram-II PS by 400/220 kV, 1x500 MVA ICT	24 months	3.64	Ananthapuram-II Phase-I Transmission System and Element at Sl. No. 2 & 3
	
		3.	...			...	3.	...			...
		4.	...			...	4.	...			...
	
		9.	<u>i) LILO at CN'Halli of already LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan or ii) LILO of</u>	30 months	96.36	Ananthapuram-II Phase-I Transmission System and Element at Sl. No. 4-8	9.	<u>LILO at CN'Halli of already LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan</u>	30 months	96.36	Ananthapuram-II Phase-I Transmission System and Element at

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			<p><u>another circuit of Talaguppa-Neelmangala 400 kV D/C line at CN’Halli and extension of LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan to CN’Halli to make Hassan - CN’Halli 400 kV D/C line</u></p>					Sl. No. 4-8																		
																						
3.	RfP & TSA Document-Specific Technical Requirements for Communications	<p>.....</p> <p>TSP shall provide/ undertake necessary addition/ modification/ shifting/ re-commissioning etc. of PLCC equipment due to LILO of transmission lines (wherever applicable).</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Line name</th> <th>PLCC configuration</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Talaguppa- CN’Halli 400 kV S/c line [after LILO]</td> <td>1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.</td> </tr> <tr> <td>2</td> <td>Neelmangala- CN’Halli 400 kV S/c line [after LILO]</td> <td>1 set Analog PLCC + 1 set Digital Protection Coupler for</td> </tr> </tbody> </table>			Sl. No	Line name	PLCC configuration	1	Talaguppa- CN’Halli 400 kV S/c line [after LILO]	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.	2	Neelmangala- CN’Halli 400 kV S/c line [after LILO]	1 set Analog PLCC + 1 set Digital Protection Coupler for	<p>.....</p> <p>TSP shall provide/ undertake necessary addition/ modification/ shifting/ re-commissioning etc. of PLCC equipment due to LILO of transmission lines (wherever applicable).</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Line name</th> <th>PLCC configuration</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>LILO of one circuit of Talaguppa-Neelmangala 400 kV D/c line at CN’Halli</td> <td>1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit (formed after LILO) at both ends.</td> </tr> <tr> <td>2</td> <td>LILO at CN’Halli of already</td> <td>1 set Analog PLCC + 1 set</td> </tr> </tbody> </table>				Sl. No	Line name	PLCC configuration	1	LILO of one circuit of Talaguppa-Neelmangala 400 kV D/c line at CN’Halli	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit (formed after LILO) at both ends.	2	LILO at CN’Halli of already	1 set Analog PLCC + 1 set
Sl. No	Line name	PLCC configuration																								
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				each circuit at both ends.	LILOf section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan
		3	Talaguppa- CN'Halli 400 kV D/c line [after LILO]	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.	Digital Protection Coupler for each circuit (formed after LILO) at both ends.
		4	CN'Halli- Hassan 400 kV D/c line [after LILO]	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.	...
4.	RFP & TSA ANNEXURE C: SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION	<p>C.1.0 Establishment of 765 kV CN'Halli (ISTS) Station</p> <p>(I) TSP shall supply, install & commission FODP with minimum 384 Fiber capacity along with panel and approach Cable *(48F and 24F as required) 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 & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Nine (9) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement among CN'Halli station, Ananthapuram-II PS, Talaguppa, Hassan and Neelmangala. The suitable DC Power Supply and backup to be provided for communication equipment.</p>		<p>C.1.0 Establishment of 765 kV CN'Halli (ISTS) Station</p> <p>(I) TSP shall supply, install & commission FODP with minimum 288 Fiber capacity along with panel and approach Cable (48 F) 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 & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Six (6) directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement among CN'Halli station, Ananthapuram-II PS, Talaguppa, Hassan and Neelmangala. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>Note: Necessary optical interfaces to be provided by the TSP</p>	

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Sl. No.	Clause No.	Existing Clause	New/Revised Clause
		<p>Note: Necessary optical interfaces to be provided by the TSP in the FOTE of Talaguppa, Neelmangala & Hassan as per link budget requirement after change of fiber length due to LILO at CN'Halli (ISTS) station.</p> <p>(III) FODP & FOTE equipment with panels shall be provided in Control Room of CN'Halli station. FOTE & FODP Eq can be accommodated in same panel to optimize space.</p> <p>(IV) TSP shall supply, install & commission Firewall in redundant mode (1+1) in line with the specification attached at Annexure F.1.</p> <p>(V) 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> <p>*Note: 24F approach cable is required for connectivity of LILO of Hassan – Neelmangala line at CN'halli and 48F approach cable is required for LILO of Talaguppa-Neelmangala and Talaguppa – Hassan at CN'Halli and for 765 kV line bays for CN'Halli – Anathpuram-II line at CN"Halli.</p>	<p>in the FOTE of Talaguppa, Neelmangala & Hassan as per link budget requirement after change of fiber length due to LILO at CN'Halli (ISTS) station.</p> <p>(III) FODP & FOTE equipment with panels shall be provided in Control Room of CN'Halli station. FOTE & FODP Eq can be accommodated in same panel to optimize space.</p> <p>(IV) TSP shall supply, install & commission Firewall in redundant mode (1+1) in line with the specification attached at Annexure F.1.</p> <p>(V) 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> <p>*Note: 24F approach cable is required for connectivity of LILO of Hassan – Neelmangala line at CN'halli and 48F approach cable is required for LILO of Talaguppa-Neelmangala and Talaguppa – Hassan at CN'Halli and for 765 kV line bays for CN'Halli – Anathpuram-II line at CN"Halli.</p>
5.	RFP & TSA ANNEXURE C:	<p>C.4.0 OPGW requirement for LILO Portion of one circuit of 400 kV Talaguppa – Neelmangala D/c line at CN'Halli station</p> <p><u>On LILO of one circuit of 400 kV Talaguppa – Neelmangala D/c line at CN'Halli station, TSP shall supply, install & commission</u></p>	<p>C.4.0 OPGW requirement for LILO Portion of one circuit of 400 kV Talaguppa – Neelmangala D/c line at CN'Halli station</p> <p><u>On LILO portion of one circuit 400 kV Talaguppa – Neelmangala D/c line at CN'Halli station, TSP shall supply, install &</u></p>

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	<p>SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</p>	<p><u>OPGW and earthwire as per Tower Configurations:</u></p> <p>(I) <u>Loop-In and Loop out Ckt on Single Towers: Two (2) no. OPGW cable containing 48 Fibres (48F) to be installed & commissioned by the TSP on both the Earthwire peaks</u></p> <p>(II) <u>Loop-In and Loop out Ckt on Two separate Towers: One (1) no. OPGW cable containing 48 Fibres (48F) on one earthwire peak & conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.</u></p> <p>The TSP shall install OPGW cables from gantry of CN'Halli station up to the LILO tower with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at CN'Halli station. The transmission line length is 25 kms (approx.). After LILO, if fiber length for links CN'Halli to Talaguppa and CN'Halli station to Neelmangala is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.</p> <p>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</p> <p>Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.</p> <p><u>Note: OPGW on Talaguppa – Neelmangala line is planned under another scheme/ TSP to carry out site visit before finalization of OPGW / Earthwire (24F/48F/Earthwire) for the LILO Portion.</u></p>	<p><u>commission 48 Fiber OPGW on one earthwire peak and conventional earthwire on second earthwire peak.</u></p> <p>The TSP shall install OPGW cables from gantry of CN'Halli station up to the LILO tower with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at CN'Halli station. The transmission line length is 25 kms (approx.). After LILO, if fiber length for links CN'Halli to Talaguppa and CN'Halli station to Neelmangala is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.</p> <p>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</p> <p>Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.</p> <p><u>Note:</u></p> <ul style="list-style-type: none"> • <u>OPGW on Talaguppa – Neelmangala line is planned under another scheme of KPTCL as line belongs to KPTCL.</u> • <u>Out of 48 fibers on Talaguppa- Neelmangala line, 24 fibers shall be bypassed at LILO Tower by KPTCL for direct connectivity between Talaguppa and Neelmangala S/s and remaining 24 Fibers shall be optically patched with the 48 fiber OPGW on the LILO portion of CN'Halli.</u> • <u>TSP to coordinate with KPTCL regarding integration of OPGW of LILO portion.</u>

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6.	RFP & TSA ANNEXURE C: SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION	<p>C.5.0 OPGW requirement for LILO Portion of one circuit of 400 kV Hassan – Neelmangala D/c line at CN’Halli station</p> <p>On LILO of one circuit of 400 kV Hassan – Neelmangala D/c line at CN’Halli station, TSP shall supply, install & commission OPGW and earthwire as per Tower Configurations:</p> <ul style="list-style-type: none"> (I) Loop-In and Loop out Ckt on Single Towers: Two (2) no. OPGW cable containing 24 Fibres (24F) to be installed & commissioned by the TSP on both the Earthwire peaks (II) Loop-In and Loop out Ckt on Two separate Towers: One (1) no. OPGW cable containing 24 Fibres (24F) on one earthwire peak & conventional earthwire on other E/W peak for both Loop In and Loop Out Lines. <p>The TSP shall install OPGW cables from gantry of CN’Halli station up to the LILO tower with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at CN’Halli station. The transmission line length is 25 kms (approx.). After LILO, if fiber length for links CN’Halli to Hassan and CN’Halli to Neelmangala is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.</p> <p>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</p>	Stands deleted

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Sl. No.	Clause No.	Existing Clause	New/Revised Clause
		<p>Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.</p> <p>Note: 24F OPGW is available on Hassan – Neelmangala line.</p>	
7.	<p>RFP & TSA ANNEXURE C:</p> <p>SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</p>	<p>C.6.0 OPGW requirement for LILO Portion of one circuit of 400 kV Hassan – Talaguppa D/c line at CN’Halli station</p> <p>On LILO of one circuit of 400 kV Hassan – Talaguppa D/c line at CN’Halli station, TSP shall supply, install & commission OPGW and earthwire as per Tower Configurations:</p> <ul style="list-style-type: none"> (I) Loop-In and Loop out Ckt on Single Towers: Two (2) no. OPGW cable containing 48 Fibres (48F) to be installed & commissioned by the TSP on both the Earthwire peaks (II) Loop-In and Loop out Ckt on Two separate Towers: One (1) no. OPGW cable containing 48 Fibres (48F) on one earthwire peak & conventional earthwire on other E/W peak for both Loop In and Loop Out Lines. <p>The TSP shall install OPGW cables from gantry of CN’Halli station up to the LILO tower with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at CN’Halli station. The transmission line length is 25 kms (approx.). After LILO, if fiber length for links CN’Halli to Hassan and CN’Halli to Talaguppa is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.</p>	<p>Stands deleted</p>

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Sl. No.	Clause No.	Existing Clause	New/Revised Clause
		<p>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</p> <p>Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.</p> <p>Note: OPGW on Talaguppa – Hassan line is planned under another scheme/ TSP to carry out site visit before finalization of OPGW / Earthwire (24F/48F/Earthwire) for LILO Portion.</p>	
8.	<p>RFP & TSA ANNEXURE C: SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</p>	<p>[New Clause added]</p>	<p>C.5.0: OPGW requirement for LILO at CN'Halli of already LILOed section of one circuit of Talaguppa - Neelmangala 400 kV line at Hassan (25 KM)</p> <p>On LILO portion, TSP shall supply, install & commission OPGW and earthwire as per Tower Configurations:</p> <p>(I) Loop-In and Loop out Ckt on two D/c Towers:</p> <p>a) On the Loop In Loop out section towards Hassan S/s, TSP shall install One (1) no. OPGW cable containing 48 Fibres (48F) to be installed on one earthwire peak and conventional earthwire on 2nd earthwire peak as per Figure F.1 R1.</p> <p>b) On the Loop In Loop out section towards Talaguppa / Neelmangala S/s, TSP shall install conventional earthwire on both the earthwire peaks as per Figure F.1 R1.</p> <p>(II) Loop-In and Loop out Ckt on M/c Towers: On the Loop In Loop out sections TSP shall install One (1) no. OPGW cable containing 48 Fibres (48F) to be installed on one</p>

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			<p>earthwire peak and conventional earthwire on 2nd earthwire peak.</p> <p>The TSP shall install OPGW cables from gantry of CN’Halli station up to the LILO tower with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in the Joint Box of LILO tower. The transmission line length is 25 kms (approx.). After LILO, if fiber length for links CN’Halli to Hassan is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.</p> <p>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</p> <p>Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.</p> <p>Note:</p> <ul style="list-style-type: none"> • OPGW (48F) on the Hassan to LILO point of CN’Halli is considered in another scheme. • TSP to coordinate with implementing agency of this OPGW regarding integration of OPGW of LILO portion.
9.		Figure F.1	Revised Figure F.1 R1 attached at Annexure-I

Annexure-I

Proposed Communication for "Transmission System for Integration of Ananthapuram-II REZ - Phase-II (3 GW)"

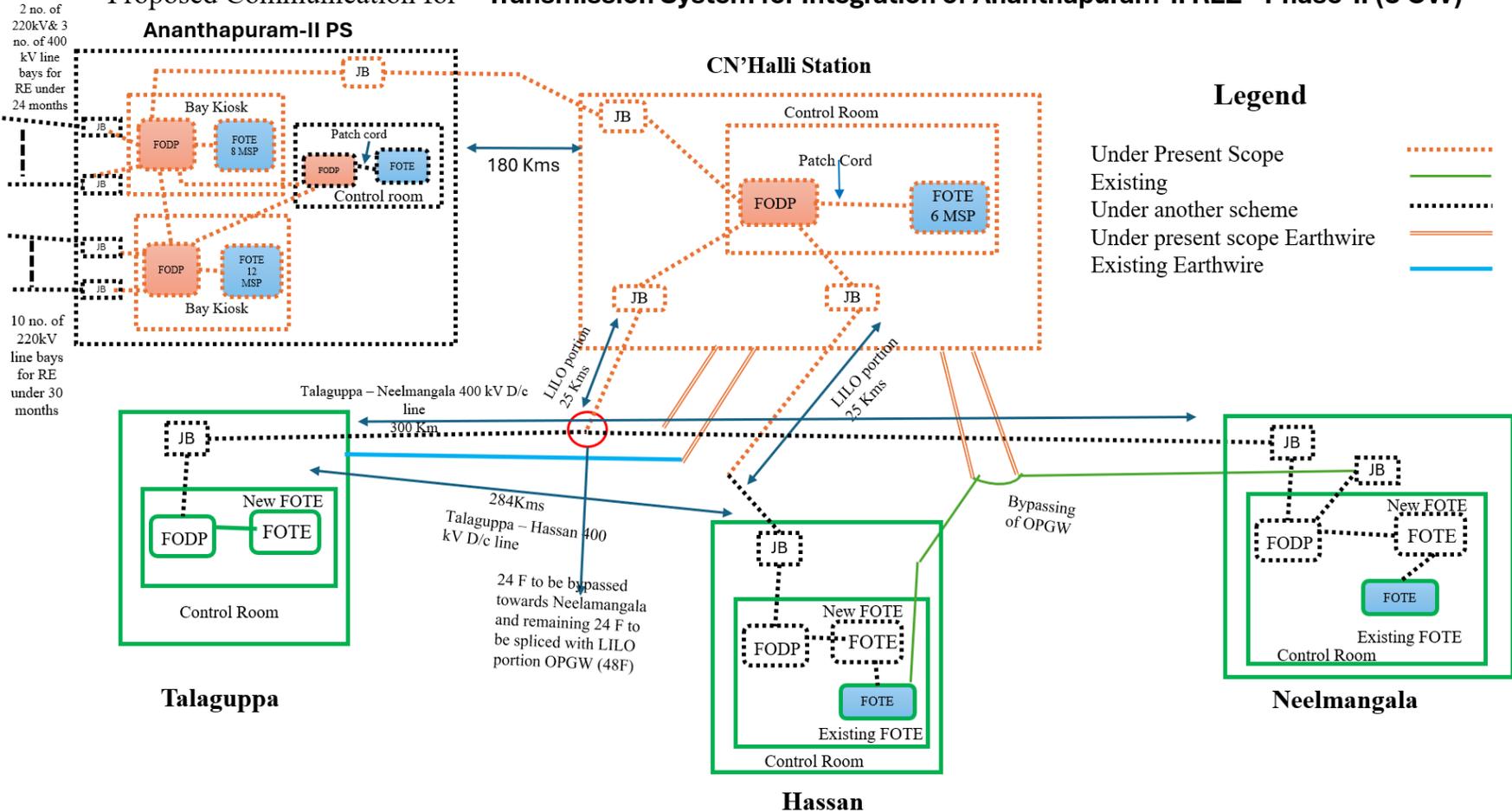


Figure F.1 R1