

Amendment –IV dated 09.12.2022 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Transmission scheme for injection beyond 3 GW RE power at Khavda PS1 (KPS1)” through tariff based competitive bidding process

Sl. No	Clause no.	Existing Clause	New/Revised Clause												
1	Scope of Work of RFP & TSA	<p>i) Detailed Scope of Work Transmission scheme for injection beyond 3 GW RE power at Khavda PS1 (KPS1):</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Scope of the Transmission Scheme</th> <th>Scheduled COD in months from Effective Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Augmentation of Khavda PS1 by 765/400 kV transformation capacity * (max. upto 4x1500 MVA) with 1x330 MVAR 765 kV bus reactor and 1x125 MVAR 420 kV bus reactor on 2nd 765 kV and 400 kV bus section respectively 765/400 kV, 1500 MVA- 4 nos. (13x500 MVA, including one spare unit) (Actual no. of ICTs may be decided based on LTA requirement) 765 kV ICT bays – 4 nos.</td> <td style="text-align: center;"><u>24</u></td> </tr> </tbody> </table>	Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date	1.	Augmentation of Khavda PS1 by 765/400 kV transformation capacity * (max. upto 4x1500 MVA) with 1x330 MVAR 765 kV bus reactor and 1x125 MVAR 420 kV bus reactor on 2nd 765 kV and 400 kV bus section respectively 765/400 kV, 1500 MVA- 4 nos. (13x500 MVA, including one spare unit) (Actual no. of ICTs may be decided based on LTA requirement) 765 kV ICT bays – 4 nos.	<u>24</u>	<p>i) Detailed Scope of Work Transmission scheme for injection beyond 3 GW RE power at Khavda PS1 (KPS1):</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Scope of the Transmission Scheme</th> <th>Scheduled COD in months from Effective Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Augmentation of Khavda PS1 by 4x1500 MVA, 765/400 kV transformation capacity* with 1x330 MVAR 765 kV bus reactor and 1x125 MVAR 420 kV bus reactor on 2nd 765 kV and 400 kV bus sections respectively 765/400 kV, 1500 MVA- 4 nos. (13x500 MVA, including one spare unit) 765 kV ICT bays – 4 nos. 765 kV line bays – 2 nos. 400 kV ICT bays – 4 nos.</td> <td style="text-align: center;"><u>21 Months</u></td> </tr> </tbody> </table>	Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date	1.	Augmentation of Khavda PS1 by 4x1500 MVA, 765/400 kV transformation capacity* with 1x330 MVAR 765 kV bus reactor and 1x125 MVAR 420 kV bus reactor on 2nd 765 kV and 400 kV bus sections respectively 765/400 kV, 1500 MVA- 4 nos. (13x500 MVA, including one spare unit) 765 kV ICT bays – 4 nos. 765 kV line bays – 2 nos. 400 kV ICT bays – 4 nos.	<u>21 Months</u>
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	<p>765 kV line bays – 2 nos. 400 kV ICT bays – 4 nos. 400 kV line bays – 3 nos, <u>actual no. as per connectivity granted to RE developer</u></p> <p>1x330 MVA_r, 765 kV bus reactor-1no. (4x110 MVA_r, including one spare unit) 765 kV reactor bay – 1no. 125 MVA_r, 420 kV reactor- 1no. 400 kV Reactor bay- 1no. 765 kV bus sectionalizer- 2 nos. 400 kV bus sectionalizer- 2 nos.</p> <p>2. KPS1-Khavda PS GIS (KPS2) 765 kV D/C line <u>(to be established with bypassing of LILO of one ckt. of KPS1-Bhuj at KPS2 and utilisation of LILO section)</u></p> <p><u>*SCOD of the transmission scheme would be reviewed and intimated to the bidder before bid submission.</u></p> <p><u>Note: Implementation to be taken up for evacuation requirement beyond 3 GW at KPS1.</u></p>	<p>400 kV line bays – 3 nos. <u>considered at present (Actual no. of bays as per connectivity granted to RE developers)</u></p> <p>1x330 MVA_r, 765 kV bus reactor-1no. (4x110 MVA_r, including one spare unit) 765 kV reactor bay – 1no. 125 MVA_r, 420 kV reactor- 1no. 400 kV Reactor bay- 1no. 765 kV bus sectionalizer- 2 nos. 400 kV bus sectionalizer- 2 nos.</p> <p>2. KPS1-Khavda PS GIS (KPS2) 765 kV D/C line</p> <p><i>*2nd Bus Section is to be created at Khavda PS1</i></p> <p>Note: (1) M/s KBTL (Adani Transmission Limited) to provide space for bays for implementation of ICT Augmentation works and termination of KPS1-Khavda PS GIS (KPS2) 765 kV D/C line at KPS1 (2) The above scheme shall be implemented with an implementation timeframe of 21 months and matching with the implementation timeframe of “Establishment of Khavda Pooling Station-2 (KPS2) in Khavda RE Park”.</p>
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2	Clause No. 2.6.1 & Clause No 8 of Annexure 8 of RFP & Schedule 2 and Schedule 5 of TSA	2.6 Project Schedule			2.6 Project Schedule						
		2.6.1. All Elements of the Project are required to be commissioned progressively as per the schedule given in the following table;					2.6.1. All Elements of the Project are required to be commissioned progressively as per the schedule given in the following table;				
		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
		1.	Augmentation of Khavda PS1 by 765/400 kV transformation capacity * (max. upto 4x1500 MVA) with 1x330 MVAR 765 kV bus reactor and 1x125 MVAR	<u>24</u>	89.565%	Elements marked at Sl. No. 1 & 2 are required to be commissioned simultaneously as their utilization is dependent on commissioning	1.	Augmentation of Khavda PS1 by 4x1500 MVA, 765/400 kV transformation capacity* with 1x330 MVAR 765 kV bus reactor and 1x125 MVAR 420 kV bus reactor on 2nd 765 kV	<u>21 months from date of SPV acquisition</u>	89.565%	Elements marked at Sl. No. 1 & 2 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.

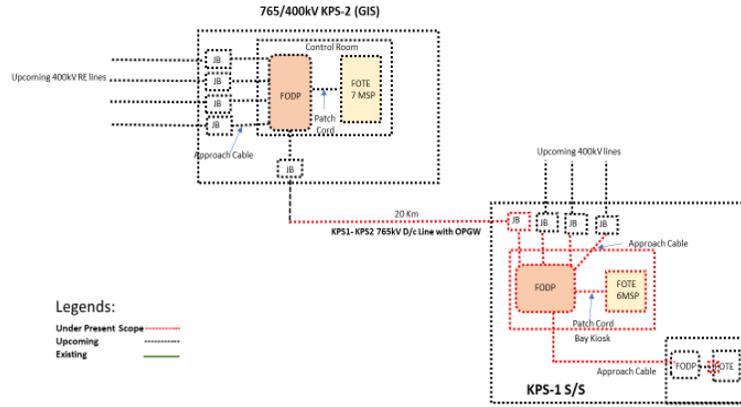
3	<p>Clause No. C.1.0 of Specific Technical Requirements for Communication of Annexure C of RFP & TSA</p>	<p>KPS1- Khavda PS GIS (KPS2) 765kV D/c line</p> <p>On KPS1- Khavda PS GIS (KPS2) 765kV D/c line TSP shall supply, install & commission one (1) no. OPGW cable containing 24 Fibres (24F) on one E/W peak and conventional earth wire on other E/W peak. The TSP shall integrate this OPGW from gantry of KPS1 <u>with the existing OPGW at LILO Tapping Point of KPS1- Bhuj line LILOed at KPS-2</u> with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter). The transmission line length is 20 kms (approx.) which can be managed as a repeater less link, hence repeater is not envisaged.</p> <p>The TSP shall also supply, install and commission OPGW along with necessary OPGW hardware for connecting the KPS-1 <u>- Bhuj link which was earlier LILOed at</u> KPS-2.</p> <p>Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.</p>	<p>KPS1- Khavda PS GIS (KPS2) 765kV D/c line</p> <p>On KPS1- Khavda PS GIS (KPS2) 765kV D/c line TSP shall supply, install & commission one (1) no. OPGW cable containing 24 Fibres (24F) on one E/W peak and conventional earthwire on other E/W peak. The TSP shall integrate this OPGW from gantry of KPS1 <u>to gantry of</u> KPS-2 with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter). The transmission line length is 20 kms (approx.) which can be managed as a repeater less link, hence repeater is not envisaged.</p> <p>The TSP shall also supply, install and commission OPGW along with necessary OPGW hardware for connecting the KPS-1 <u>with</u> KPS-2.</p> <p>Maintenance of OPGW Cable & OPGW Hardware shall be responsibility of TSP.</p>
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4	Clause No. C.2.0 of Specific Technical Requirements for Communication of Annexure C of RFP & TSA	2no. of 765 kV line bays at KPS-1 for KPS-2 – KPS1 765 kV D/c line (i) (ii) TSP shall supply, install & commission One STM-16 (FOTE) equipment along with panel/s supporting minimum six (6) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement between KPS1 to KPS2 <u>and KPS1 to Bhuj</u> . The suitable DC Power Supply and backup to be provided for communication equipment. (iii)	2no. of 765 kV line bays at KPS-1 for KPS-2 – KPS1 765 kV D/c line (i) (ii) TSP shall supply, install & commission One STM-16 (FOTE) equipment along with panel/s supporting minimum six (6) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement between KPS1 to KPS2. The suitable DC Power Supply and backup to be provided for communication equipment. (iii)
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5 Figure F.1 of Clause No. C.2.0 of Specific Technical Requirements for Communication of Annexure C of RFP & TSA

Proposed Communication for Transmission Scheme for injection beyond 3 GW RE power at Khavda PS1

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