

to

Request for Proposal (RfP) and Transmission Service Agreement (TSA) for selection of Transmission Service Provider through tariff based competitive bidding process to establish transmission system for “Transmission scheme for evacuation of 3 GW RE injection at Khavda P.S. under Phase-I”

S. No	Existing Provision			Amended Provision		
1.	S. No.2 of Request for Proposal Notification of RfP			S. No.2 of Request for Proposal Notification of RfP		
	PFC Consulting Limited (hereinafter referred to as BPC) hereby			PFC Consulting Limited (hereinafter referred to as BPC) hereby....		
	Transmission scheme for evacuation of 3GW RE injection at Khavda P.S. under Phase-I			Transmission scheme for evacuation of 3GW RE injection at Khavda P.S. under Phase-I		
	S. No.	Name of Transmission Element	Scheduled COD in months from Effective Date	S. No.	Name of Transmission Element	Scheduled COD in months from Effective Date
	1.	Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor <ul style="list-style-type: none">765/400 kV, 1500 MVA ICT - 3 Nos.765 kV ICT bays - 3 Nos.400 kV ICT bays - 3 Nos.330 MVAR 765 kV bus reactor -1 No.125 MVAR 420 kV bus reactor -1 No.765 kV reactor bay - 1 Nos.765 kV line bay - 2 Nos.400 kV reactor bay - 1 No.400 kV line bay - 3 Nos.500 MVA, 765/400 kV Spare ICT - 1 No.110 MVAR, 765 kV, 1-ph reactor (spare unit) - 1 No. Future Scope: Space for <ul style="list-style-type: none">765/400 kV, ICT along with bays - 5 Nos.400/220 kV, ICT along with bays- 4 Nos.765 kV Line bays along with switchable line reactor- 6	Matching timeframe of RE projects or 24 months from date of SPV transfer whichever is later *	1.	Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor <ul style="list-style-type: none">765/400 kV, 1500 MVA ICT - 3 Nos.765 kV ICT bays - 3 Nos.400 kV ICT bays - 3 Nos.330 MVAR 765 kV bus reactor -1 No.125 MVAR 420 kV bus reactor -1 No.765 kV reactor bay - 1 Nos.765 kV line bay - 2 Nos.400 kV reactor bay - 1 No.400 kV line bay - 3 Nos.500 MVA, 765/400 kV Spare ICT - 1 No.110 MVAR, 765 kV, 1-ph reactor (spare unit) - 1 No. Future Scope: Space for <ul style="list-style-type: none">765/400 kV, ICT along with bays - 5 Nos.400/220 kV, ICT along with bays- 4 Nos.765 kV Line bays along with switchable line reactor-	24 months

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		Nos. <ul style="list-style-type: none"> 400 kV Line bays – 7 Nos. 220 kV Line bays - 8 Nos. 765 kV reactor along with bays - 2 Nos. 400 kV reactor along with bays – 1 No. 765 kV bus sectionalizer- 1 No. 400 kV bus sectionalizer- 1 No. 			6 Nos. <ul style="list-style-type: none"> 400 kV Line bays – 9 Nos. 220 kV Line bays - 8 Nos. 765 kV reactor along with bays - 2 Nos. 400 kV reactor along with bays – 1 No. 765 kV bus sectionalizer- 1 No. 400 kV bus sectionalizer- 1 No. 	
	2.	Khavda PS (GIS) – Bhuj PS 765 kV D/C line		2.	Khavda PS (GIS) – Bhuj PS 765 kV D/C line	
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	<p><i>* the SCOD of the transmission scheme would be reviewed and intimated to the bidder before bid submission.</i></p> <p>Note:</p> <p>i. As on date, Adani Green Energy Four Limited (AGEFL) has been granted Stage-I connectivity for 5000 MW and Stage-II Connectivity for 3500 MW at proposed Khavda PS at 400 kV level. Accordingly, 3nos. of 400 kV GIS line bay for termination of the dedicated lines from AGEFL's Solar PV project has been included under the scope of works of Khavda P.S. Further, 1000MW LTA application has been received from AGEFL and the same is under process.</p> <p>ii. GIS Bay (if any) for completion of diameter in one and half breaker scheme shall also be in the scope of the TSP.</p>			<p>* Deleted</p> <p>Note:</p> <p>i. As on date, Adani Green Energy Four Limited (AGEFL) has been granted Stage-I connectivity for 5000 MW and Stage-II Connectivity for 3500 MW at proposed Khavda PS at 400 kV level. Accordingly, 3nos. of 400 kV GIS line bay for termination of the dedicated lines from AGEFL's Solar PV project has been included under the scope of works of Khavda P.S. Further, 1000MW LTA application has been received from AGEFL and the same is under process.</p> <p>ii. GIS Bay (if any) for completion of diameter in one and half breaker scheme shall also be in the scope of the TSP.</p>		
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4.	Sl. No. 8 of Format 1 of Annexure-8: Bidders' Undertakings of RfP					Sl. No. 8 of Format 1 of Annexure-8: Bidders' Undertakings of RfP				
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1.	<p>Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor</p> <ul style="list-style-type: none"> 765/400 kV, 1500 MVA ICT - 3 Nos. 765 kV ICT bays - 3 Nos. 400 kV ICT bays - 3 Nos. 330 MVAR 765 kV bus reactor -1 No. 125 MVAR 420 kV bus reactor -1 No. 765 kV reactor bay - 1 No. 765 kV line bay - 2 Nos. 400 kV reactor bay - 1 No. 400 kV line bay - 3 Nos. 500 MVA, 765/400 kV Spare ICT - 1 No. 110 MVAR, 765 kV, 1-ph reactor (spare unit) - 1 No. <p>Future Scope: Space for</p> <ul style="list-style-type: none"> 765/400 kV, ICT along with bays - 5 Nos. 400/220 kV, ICT along with bays- 4 Nos. 765 kV Line bays along with switchable line reactor- 6 Nos. 400 kV Line bays – 9 Nos. 220 kV Line bays - 8 Nos. 	<p>24 months</p>												

S. No	Existing Provision		Amended Provision	
		<ul style="list-style-type: none"> 765 kV reactor along with bays - 2 Nos. 400 kV reactor along with bays – 1 No. 765 kV bus sectionalizer- 1 No. 400 kV bus sectionalizer- 1 No. 		<ul style="list-style-type: none"> 765 kV reactor along with bays - 2 Nos. 400 kV reactor along with bays – 1 No. 765 kV bus sectionalizer- 1 No. 400 kV bus sectionalizer- 1 No.
	2.	Khavda PS (GIS) – Bhuj PS 765 kV D/c line	2.	Khavda PS (GIS) – Bhuj PS 765 kV D/c line
	3.	2 nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line <ul style="list-style-type: none"> 765 kV AIS line bays – 2 Nos. 	3.	2 nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line <ul style="list-style-type: none"> 765 kV AIS line bays – 2 Nos.
	<p><i>* the SCOD of the transmission scheme would be reviewed and intimated to the bidder before bid submission.</i></p> <p>Note:</p> <p>i. As on date, Adani Green Energy Four Limited (AGEFL) has been granted Stage-I connectivity for 5000 MW and Stage-II Connectivity for 3500 MW at proposed Khavda PS at 400 kV level. Accordingly, 3nos. of 400 kV GIS line bay for termination of the dedicated lines from AGEFL's Solar PV project has been included under the scope of works of Khavda P.S. Further, 1000MW LTA application has been received from AGEFL and the same is under process.</p> <p>ii. GIS Bay (if any) for completion of diameter in one and half breaker scheme shall also be in the scope of the TSP.</p>		<p>* Deleted</p> <p>Note:</p> <p>i. As on date, Adani Green Energy Four Limited (AGEFL) has been granted Stage-I connectivity for 5000 MW and Stage-II Connectivity for 3500 MW at proposed Khavda PS at 400 kV level. Accordingly, 3nos. of 400 kV GIS line bay for termination of the dedicated lines from AGEFL's Solar PV project has been included under the scope of works of Khavda P.S. Further, 1000MW LTA application has been received from AGEFL and the same is under process.</p> <p>ii. GIS Bay (if any) for completion of diameter in one and half breaker scheme shall also be in the scope of the TSP.</p>	
6.	Schedule 3: Scheduled COD of TSA All Elements of the Project are required ...		Schedule 3: Scheduled COD of TSA All Elements of the Project are required ...	

S. No	Existing Provision					Amended Provision					
	S. No.	Name of the Transmission Element	Scheduled COD in months from Effective Date	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		S. No.	Name of the Transmission Element	Scheduled COD in months from Effective Date	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.	Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor	Matching timeframe of RE projects or 24 months from date of SPV transfer whichever is later *	62.16%	Elements marked at S. No. 1, 2 & 3 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.	1.	Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor	24 months	62.16%	Elements marked at S. No. 1, 2 & 3 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.	
	2.	Khavda PS (GIS) – Bhuj PS 765 kV D/c line		32.66%		2.	Khavda PS (GIS) – Bhuj PS 765 kV D/c line		32.66%		
	3.	2 nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line		5.18%		3.	2 nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line		5.18%		
	<p><i>* the SCOD of the transmission scheme would be reviewed and intimated to the bidder before bid submission.</i></p> <p>The payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after successful commissioning of the Element(s) which are pre-required for declaring the commercial operation of such Element as mentioned in the above table.</p>					<p>* Deleted</p> <p>The payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after successful commissioning of the Element(s) which are pre-required for declaring the commercial operation of such Element as mentioned in the above table.</p>					
7.	<p>Clause 4.0 of Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 4.0 of Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA</p> <p>4.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall also make</p>					<p>Clause 4.0 of Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 4.0 of Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA</p> <p>4.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall</p>					

S. No	Existing Provision	Amended Provision
	his own assessment of local wind conditions and frequent occurrences of high intensity winds (HIW) due to thunderstorms, dust-storms, downburst etc. along the line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line	<p>also make his own assessment of local wind conditions and frequent occurrences of high intensity winds (HIW) due to thunderstorms, dust-storms, downburst etc. along the line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line.</p> <p>Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for design of towers located in such sections.</p>
8.	<p>Clause 17.0 & 18.0 of Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 17.0 & 18.0 of Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA</p> <p>17.0 Wherever, transmission lines are passing through coastal/ creek regions, the fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 gram/sq m of surface area except for plates and sections below 5mm which shall have a minimum overall zinc coating of 610 gram/ sqm of surface area. The average zinc coating for all sections and plates 5mm and above shall be maintained as 127 microns and that for plates and sections below 5mm shall be maintained as 87 microns.</p> <p>18.0 For foundation in creek or aggressive soil areas, Concrete of M30 Grade design Mix conforming to IS 456 and epoxy coated reinforcement as per IS 13620 shall be used.</p>	<p>Clause 17.0 & 18.0 of Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 17.0 & 18.0 of Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA</p> <p>17.0 Deleted 18.0 Deleted</p>
9.	<p>Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA</p>	<p>Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA</p> <p>New Para insertion at Sl. No. 17.0</p> <p>17.0 Wherever, transmission lines are passing through cyclone prone areas i.e. areas upto 60 km from coast following shall also be applicable:</p> <p>a) Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design.</p> <p>b) Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.</p> <p>c) The number of consecutive spans between the section points/ angle</p>

S. No	Existing Provision	Amended Provision
		<p>point shall not exceed 10 spans or 3km instead of conventional practice of 15 spans or 5km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.</p>
10.	<p>Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA</p>	<p>Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA</p> <p>New Para insertion at Sl. No. 18.0</p> <p>18.0 Wherever, transmission lines are passing through cyclone prone areas (i.e. areas upto 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:</p> <ul style="list-style-type: none"> a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 gram/sq m of surface area except for plates and sections below 5mm which shall have a minimum overall zinc coating of 610 gram/ sqm of surface area. The average zinc coating for all sections and plates 5mm and above shall be maintained as 127 microns and that for plates and sections below 5mm shall be maintained as 87 microns. b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready mix concrete is not feasible. Minimum cement content in any case shall not be less than 330kg/m3. c) The surface of the reinforced steel shall be treated with epoxy based coating to enhance corrosion performance of foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6kg/m2 per coat shall be applied on all exposed faces of foundation (i.e. pedestal & base slab). d) Double coat 20mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300mm below ground level to give protection to concrete surface from environmental and saline effect. e) Before coping of chimney top portion, three coats of anti-corrosive

S. No	Existing Provision	Amended Provision																														
		paint of minimum 30-35 microns dry film thickness each shall be applied on the stub in the 50mm coping portion as well as up to 350mm above CL portion																														
11.	Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA	Specific Technical Requirements for Transmission Line, Annexure-B: Technical Specifications of Transmission System of RfP and Specific Technical Requirements for Transmission Line, Scheduled 2 of TSA New Para insertion at Sl. No. 19.0 19.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field & undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above HFL (High Flood Level) or the historical water stagnation/ logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).																														
12.	Clause 1.1: Insulation Coordination of Specific Technical Requirements for Substation, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 1.1: Insulation Coordination of Specific Technical Requirements for Substation, Scheduled 2 of TSA 1.1 Insulation Coordination The system design parameters for substations/switchyards shall be as given below: <table><tr><th>Sl No</th><th>Description of parameters</th><th colspan="2">765/400kV Khavda PS (GIS) s/s</th><th>Extn. of 765kV Bhuj PS s/s</th></tr><tr><td></td><td>.....</td><td></td><td></td><td></td></tr><tr><td>8.</td><td>Minimum creepage distance for insulator string/ longrod</td><td>24800 mm (31mm/kV)</td><td>13020 mm (31mm/kV)</td><td>24800 mm (31mm/kV)</td></tr></table>	Sl No	Description of parameters	765/400kV Khavda PS (GIS) s/s		Extn. of 765kV Bhuj PS s/s					8.	Minimum creepage distance for insulator string/ longrod	24800 mm (31mm/kV)	13020 mm (31mm/kV)	24800 mm (31mm/kV)	Clause 1.1: Insulation Coordination of Specific Technical Requirements for Substation, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 1.1: Insulation Coordination of Specific Technical Requirements for Substation, Scheduled 2 of TSA 1.1 Insulation Coordination The system design parameters for substations/switchyards shall be as given below: <table><tr><th>Sl No</th><th>Description of parameters</th><th colspan="2">765/400kV Khavda PS (GIS) s/s</th><th>Extn. of 765kV Bhuj PS s/s</th></tr><tr><td></td><td>.....</td><td></td><td></td><td></td></tr><tr><td>8.</td><td>Minimum creepage distance for insulator string/ longrod</td><td>24800 mm (31mm/kV)</td><td>13020 mm (31mm/kV)</td><td>24800 mm (31mm/kV)</td></tr></table>	Sl No	Description of parameters	765/400kV Khavda PS (GIS) s/s		Extn. of 765kV Bhuj PS s/s					8.	Minimum creepage distance for insulator string/ longrod	24800 mm (31mm/kV)	13020 mm (31mm/kV)	24800 mm (31mm/kV)
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S. No	Existing Provision					Amended Provision																												
		insulators/ outdoor bushings					insulators/ outdoor bushings																											
	9.	Minimum creepage distance for switchyard equipment	20000 (25mm/kV)	10500mm (25mm/kV)	20000 (25mm/kV)	9.	Minimum creepage distance for switchyard equipment	24800 mm (31mm/kV)	13020 mm (31mm/kV)	24800 mm (31mm/kV)																								
13.	Clause 4.0: General Facilities of Specific Technical Requirements for Substation, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 4.0: General Facilities of Specific Technical Requirements for Substation, Scheduled 2 of TSA 4.0 General Facilities d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 gm/sq.m and 900 gm/sq.m for coastal/ creek regions.					Clause 4.0: General Facilities of Specific Technical Requirements for Substation, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 4.0: General Facilities of Specific Technical Requirements for Substation, Scheduled 2 of TSA 4.0 General Facilities d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 900 gm/sq.m for coastal/ creek regions.																												
14.	Clause 5.0 of Specific Technical Requirements for Substation, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 5.0 of Specific Technical Requirements for Substation, Scheduled 2 of TSA 5.0 EXTENSION OF EXISTING SUBSTATION The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder. <table><tr><td>Sl. No.</td><td>Drawing Title</td><td>Drawing No./Details</td><td>Rev. No.</td></tr><tr><td>A.</td><td colspan="3">765kV Bhuj PS</td></tr><tr><td>3.0</td><td>Earthmat Layout</td><td>TB-385-510-014</td><td>Rev.00</td></tr></table>					Sl. No.	Drawing Title	Drawing No./Details	Rev. No.	A.	765kV Bhuj PS			3.0	Earthmat Layout	TB-385-510-014	Rev.00	Clause 5.0 of Specific Technical Requirements for Substation, Annexure-B: Technical Specifications of Transmission System of RfP and Clause 5.0 of Specific Technical Requirements for Substation, Scheduled 2 of TSA 5.0 EXTENSION OF EXISTING SUBSTATION The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder. <table><tr><td>Sl. No.</td><td>Drawing Title</td><td>Drawing No./Details</td><td>Rev. No.</td></tr><tr><td>A.</td><td colspan="3">765kV Bhuj PS</td></tr><tr><td>3.0</td><td>Earthmat Layout</td><td>C/ENGG/BHUJ/LAY/EM</td><td>Rev.1</td></tr></table> Copy of Earthmat Layout is attached at Appendix-A.					Sl. No.	Drawing Title	Drawing No./Details	Rev. No.	A.	765kV Bhuj PS			3.0	Earthmat Layout	C/ENGG/BHUJ/LAY/EM	Rev.1
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KHAYDA GIS D/C LINE

FUTURE
FUTURE

EARTHMAT LAYOUT - 765KV YAR

Earth Grid available
(existing)

area not
having
Earthmat

Title: Main Earthmat Layout for 765KV Bhuj PS
Drg. No.: C/ENGG/BHU/LAY/EM Rev-1