

Amendment III dated 08.10.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5GW): Part A” through tariff based competitive bidding process

Sl. No.	Clause No.	Existing Provisions			New / Revised Provisions		
Sl. No.	Clause No.	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.	Clause 1.2 of Section-I of RFP document	<u>1</u>	Augmentation of 5x500 MVA (5th to 9th), 400/220 kV ICTs at Barmer-I PS <ul style="list-style-type: none"> 400/220 kV 500 MVA ICTs- 5 Nos. 400 kV ICT bays-5 Nos. 220 kV ICT bays- 5 Nos. 	24 months from date of SPV transfer	<u>1</u>	<u>Augmentation with 765/400 kV, 2x1500 MVA Transformer (4th and 5th) at Barmer-I PS</u> <ul style="list-style-type: none"> <u>765/400 kV 1500 MVA ICTs- 2 Nos.</u> <u>765 kV ICT bays-2 Nos.</u> <u>400 kV ICT bays- 2 Nos.</u> 	24 months from date of SPV transfer
		<u>2</u>	220 kV line bays (6 Nos.) for RE connectivity at Barmer-I PS <ul style="list-style-type: none"> 220 kV line bays- 6 Nos. 		<u>2</u>	Augmentation of 5x500 MVA (5 th to 9 th), 400/220 kV ICTs at Barmer-I PS <ul style="list-style-type: none"> 400/220 kV 500 MVA ICTs- 5 Nos. 400 kV ICT bays-5 Nos. 220 kV ICT bays- 5 Nos. 	
		<u>3</u>	400 kV Sectionalizer bay (1 set), 220kV Sectionalizer bay (1 set) along with 220kV BC (1 Nos.) and 220 kV TBC (1 Nos.) at Barmer-I PS <ul style="list-style-type: none"> 400 kV Sectionalizer bay: 1 set 220 kV Sectionalizer bay: 1 set 220 kV BC (1 Nos.) bay and 220 kV TBC (1 Nos.) bay 		<u>3</u>	220 kV line bays (6 Nos.) for RE connectivity at Barmer-I PS <ul style="list-style-type: none"> 220 kV line bays- 6 Nos. 	
		<u>4</u>	STATCOM (2x+300MVA _r) along with MSC (4x125 MVA _r) & MSR (2x125 MVA _r) along with 2 Nos. 400 kV bays at Barmer-I PS <ul style="list-style-type: none"> STATCOM (2x+300MVA_r) MSC (4x125 MVA_r) & MSR (2x125 MVA_r) 400kV bays at Barmer-I PS – 2 Nos. 		<u>4</u>	400 kV Sectionalizer bay (1 set), 220kV Sectionalizer bay (1 set) along with 220kV BC (1 Nos.) and 220 kV TBC (1 Nos.) at Barmer-I PS <ul style="list-style-type: none"> 400 kV Sectionalizer bay: 1 set 220 kV Sectionalizer bay: 1 set 220 kV BC (1 Nos.) bay and 220 kV TBC (1 Nos.) bay 	
		<u>5</u>	STATCOM (2x±300MVA _r) along with MSC (4x125 MVA _r) & MSR (2x125 MVA _r) along with 2 Nos. 400 kV bays at Barmer-I PS		<u>5</u>	STATCOM (2x±300 MVA _r) along with MSC (4x125 MVA _r) and MSR (2x125 MVA _r) along with 2 Nos. 400 kV bays at Barmer-I PS	

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Sl. No.	Clause No.	Existing Provisions		New / Revised Provisions			
		5	Fatehgarh-IV PS (Sec-2) – Barmer-I PS 400kV D/c line (Quad) <ul style="list-style-type: none"> • 400 kV line bays at Fatehgarh-IV PS (Sec-2) – 2 Nos. • 400 kV line bays at Barmer-I PS – 2 Nos. 			<ul style="list-style-type: none"> • STATCOM (2x±300 MVar) MSC (4x125 MVar) and MSR (2x125 MVar) • 400kV bays at Barmer-I PS – 2 Nos. 	
		6	Establishment of 765/400kV, 2x1500 MVA S/s at suitable location near Ghiror (Distt. Mainpuri) along with 2x240 MVar (765kV) & 2x125 MVar (420kV) bus reactor at Ghiror S/s (UP) Ghiror S/s- AIS <ul style="list-style-type: none"> • 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit) • 765 kV ICT bays-2 Nos. • 400 kV ICT bays- 2 Nos. • 765kV line bays: 8 Nos. (for LILO of Aligarh (PG)-Orai (PG) D/c, LILO of Agra (PG) – Fatehpur (PG) S/c & 765 kV interconnection with Dausa S/s) • 400 kV line bays: 2 Nos. (for 400 kV interconnection with Firozabad (UPPTCL) S/s) • 240 MVar Bus Reactor-2 Nos. (7x80 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. 110 MVar spare reactor unit (single phase)-1 No. 		6	Fatehgarh-IV PS (Sec-2) – Barmer-I PS 400 kV D/C line (Quad) <ul style="list-style-type: none"> • 400 kV line bays at Fatehgarh-IV PS (Sec-2) – 2 Nos. • 400 kV line bays at Barmer-I PS – 2 Nos. 	
					7	Establishment of 765/400 kV, 2x1500 MVA S/s at suitable location near Ghiror (Distt. Mainpuri) along with 2x240 MVar (765 kV) and 2x125 MVar (420 kV) bus reactor at Ghiror S/s (UP) Ghiror S/s- AIS <ul style="list-style-type: none"> • 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit) • 765 kV ICT bays-2 Nos. • 400 kV ICT bays- 2 Nos. • 765kV line bays: 8 Nos. (for LILO of Aligarh (PG)-Orai (PG) D/S, LILO of Agra (PG) – Fatehpur (PG) S/C and 765 kV interconnection with Dausa S/s) • 400 kV line bays: 2 Nos. (for 400 kV interconnection with Firozabad (UPPTCL) S/s) • 240 MVar Bus Reactor-2 Nos. (7x80 MVar, including one spare unit) 	

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Sl. No.	Clause No.	Existing Provisions		New / Revised Provisions			
			<p>Future provisions at Ghiror S/s: Space for</p> <ul style="list-style-type: none"> • 765/400kV ICTs along with bays- 4 • 765 kV line bays along with switchable line reactors – 6 • 765kV Bus Reactor along with bay: 1 No. • 400 kV line bays along with switchable line reactor –6 • 400 kV Bus Reactor along with bays: 1 No. • 400kV Sectionalizer bay: 1 set • 400/220kV ICT along with bays - 4 Nos. • 220 kV line bays for drawl -6 Nos. • 220kV Sectionalizer bay: 1 set • 220 kV BC (2 Nos.) bays and 220 kV TBC (2 Nos.) bays • STATCOM (2x+300MVAR, 4x125MVAR MSC, 2x125MVAR MSR) along with 400kV bays (2 Nos.) 			<ul style="list-style-type: none"> • 765 kV Bus reactor bays-2 Nos. • 125 MVAR Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 Nos. 110 MVAR spare reactor unit (single phase)-1 No. <p>Future provisions at Ghiror S/s: Space for</p> <ul style="list-style-type: none"> • 765/400 kV ICTs along with bays- 4 • 765 kV line bays along with switchable line reactors – 6 • 765kV Bus Reactor along with bay: 1 No. • 400 kV line bays along with switchable line reactor –6 • 400 kV Bus Reactor along with bays: 1 No. • 400kV Sectionalizer bay: 1 set • 400/220 kV ICT along with bays -4 Nos. • 220 kV line bays for drawl -6 Nos. • 220 kV Sectionalizer bay: 1 set • 220 kV BC (2 Nos.) bays and 220 kV TBC (2 Nos.) bays • STATCOM (2x±300 MVAR, 4x125 MVAR MSC, 2x125 MVAR MSR) along with 400 kV bays (2 Nos.) 	
		<u>7</u>	<p>Dausa - Ghiror 765 kV D/c line along with 330MVAR switchable line reactor at Ghiror end and 240 MVAR switchable line reactor at Dausa end for each circuit of Dausa - Ghiror 765 kV D/c line</p> <ul style="list-style-type: none"> • 765 kV, 240 MVAR switchable line reactors at Dausa S/s end– 2 Nos. 		<u>8</u>	<p>Dausa - Ghiror 765 kV D/C line along with 330 MVAR switchable line reactor at Ghiror end and 240 MVAR switchable line reactor at Dausa end for each circuit of Dausa - Ghiror 765 kV D/C line</p>	

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Sl. No.	Clause No.	Existing Provisions		New / Revised Provisions			
			<ul style="list-style-type: none"> • 765 kV, 330 MVAR switchable line reactors at Ghiror S/s S/s end– 2 Nos. • Switching equipment for 765kV, 240 MVAR switchable line reactors at Dausa S/s end – 2 Nos. • Switching equipment for 765 kV, 330 MVAR switchable line reactors at Ghiror S/s end – 2 Nos. 			<ul style="list-style-type: none"> • 765 kV, 240 MVAR switchable line reactors at Dausa S/s end– 2 Nos. • 765 kV, 330 MVAR switchable line reactors at Ghiror S/s S/s end– 2 Nos. • Switching equipment for 765 kV, 240 MVAR switchable line reactors at Dausa S/s end – 2 Nos. • Switching equipment for 765 kV, 330 MVAR switchable line reactors at Ghiror S/s end – 2 Nos. 	
		8	LILO of both ckt of 765 kV Aligarh (PG) - Orai (PG) D/c line at Ghiror S/s along with 240 MVAR switchable line reactor for each circuit at Ghiror S/s end of 765 kV Ghiror - Orai (PG) D/c line <ul style="list-style-type: none"> • 765 kV, 240 MVAR switchable line reactors at Ghiror S/s end– 2 Nos. • Switching equipment for 765 kV, 240 MVAR switchable line reactors at Ghiror S/s end – 2 Nos. 		9	LILO of both ckt of 765 kV Aligarh (PG) - Orai (PG) D/C line at Ghiror S/s along with 240 MVAR switchable line reactor for each circuit at Ghiror S/s end of 765 kV Ghiror - Orai (PG) D/C line <ul style="list-style-type: none"> • 765 kV, 240 MVAR switchable line reactors at Ghiror S/s end– 2 Nos. • Switching equipment for 765 kV, 240 MVAR switchable line reactors at Ghiror S/s end – 2 Nos. 	
		9	LILO of one ckt of 765kV Agra (PG) – Fatehpur (PG) 2xS/c line at Ghiror along with 240 MVAR switchable line reactor at Ghiror end of 765 kV Ghiror -Fatehpur (PG) line <ul style="list-style-type: none"> • 765 kV, 240 MVAR switchable line reactors at Ghiror S/s end– 1 No. • Switching equipment for 765kV, 240 MVAR switchable line reactor at Ghiror S/s end – 1 No. 		10	LILO of one ckt of 765 kV Agra (PG) – Fatehpur (PG) 2xS/C line at Ghiror along with 240 MVAR switchable line reactor at Ghiror end of 765 kV Ghiror -Fatehpur (PG) line <ul style="list-style-type: none"> • 765 kV, 240 MVAR switchable line reactors at Ghiror S/s end– 1 No. • Switching equipment for 765 kV, 240 MVAR switchable line reactor at Ghiror S/s end – 1 No. 	

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Sl. No.	Clause No.	Existing Provisions		New / Revised Provisions	
		10	400kV Ghiror-Firozabad (UPPTCL) D/c line (Quad)	11	400kV Ghiror-Firozabad (UPPTCL) D/C line (Quad)
		11	2 Nos. 765kV line bays at Dausa S/s <ul style="list-style-type: none"> 765 kV line bays at Dausa S/s – 2 Nos. 	12	2 Nos. 765kV line bays at Dausa S/s
		12	2 Nos. 400 kV line bays at Firozabad (UPPTCL) S/s <ul style="list-style-type: none"> 400 kV line bays at Firozabad (UPPTCL) S/s – 2 Nos 	13	2 Nos. 400 kV line bays at Firozabad (UPPTCL) S/s
		13	<u>Augmentation of 5x500 MVA (5th to 9th), 400/220 kV ICTs at Barmer-I PS</u> <ul style="list-style-type: none"> <u>400/220 kV 500 MVA ICTs- 5 Nos.</u> <u>400 kV ICT bays-5 Nos.</u> <u>220 kV ICT bays- 5 Nos.</u> 		
2.	Specific Technical Requirements for Substation Clause B.1.2 of RfP & TSA	B.1.2 Switching Scheme (ix) Barmer-I S/s: a) b) <i>400kV Bus Sectionalization shall be with the following feeder distribution.</i>		B.1.2 Switching Scheme (ix) Barmer-I S/s: a) b) <i>400kV Bus Sectionalization may be with the following feeder distribution.</i>	
		400kV Bus Section-1 (Partly existing)	400kV Bus Section-2 (new)	400kV Bus Section-1 (Partly existing)	400kV Bus Section-2 (new)
		a) 1 Nos. of 400/220kV ICT b) 1 No. STATCOM c) <i>Existing feeders under “Transmission system for evacuation of power from</i>	a) 2 Nos. of 765/400kV ICT b) 4 Nos. of 400/220kV ICT c) 2 Nos. 400 kV	a) <u>Space provision for 2 Nos. of 400/220 kV ICT</u> b) 1 No. STATCOM c) <i>Existing feeders under “Transmission system for</i>	a) 2 Nos. of 765/400kV ICT b) <u>5 Nos. of 400/220 kV ICT</u> c) 2 Nos. 400 kV Line

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Sl. No.	Clause No.	Existing Provisions			New / Revised Provisions														
		<p>Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/ Barmer Complex): Part F”</p>	<p>Line d) 1 No. STATCOM</p>	<p>evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/ Barmer Complex): Part F”</p>	<p>d) 1 No. STATCOM</p>	<p>TSP shall execute one set of 400kV bus sectionaliser between the 400kV bus section-1 & 400kV bus section-2 under present scope of work.</p> <p>Accordingly, one (01) number full diameter in bus section-1 and four (04) number full diameters & one (01) number half diameter (with associated tie bay) in bus section-2 at 400kV level shall be provided under present scope.</p> <p>c) 220kV Bus Sectionalization shall be with the following feeder distribution.</p> <table border="1" data-bbox="427 868 1245 1469"> <thead> <tr> <th data-bbox="427 868 741 970">220kV Bus Section-1 (Partly existing)</th> <th data-bbox="741 868 1021 970">220kV Bus Section-2</th> <th data-bbox="1021 868 1245 970">220kV Bus Section-3</th> </tr> </thead> <tbody> <tr> <td data-bbox="427 970 741 1469"> <p>a) 2 Nos. of 400/220kV ICT b) Existing feeders under “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/ Barmer Complex): Part F”</p> </td> <td data-bbox="741 970 1021 1469"> <p>a) 3 Nos. of 400/220kV ICT b) 4 Nos. of 220kV Line c) 1 No. Bus coupler & 1 No. Transfer bus coupler d) Space provision for 01 No. ICT bays.</p> </td> <td data-bbox="1021 970 1245 1469"> <p>a) 2 Nos. of 220kV Line b) Space provision for 03 Nos. Line bays. c) Space provision for 03 Nos. ICT bays. d) Space provision for 1 No. Bus coupler & 1</p> </td> </tr> </tbody> </table>	220kV Bus Section-1 (Partly existing)	220kV Bus Section-2	220kV Bus Section-3	<p>a) 2 Nos. of 400/220kV ICT b) Existing feeders under “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/ Barmer Complex): Part F”</p>	<p>a) 3 Nos. of 400/220kV ICT b) 4 Nos. of 220kV Line c) 1 No. Bus coupler & 1 No. Transfer bus coupler d) Space provision for 01 No. ICT bays.</p>	<p>a) 2 Nos. of 220kV Line b) Space provision for 03 Nos. Line bays. c) Space provision for 03 Nos. ICT bays. d) Space provision for 1 No. Bus coupler & 1</p>	<p>TSP shall execute one set of 400 kV bus sectionaliser between the 400 kV bus section-1 and 400 kV bus section-2 under present scope of work.</p> <p><u>Further, 400 kV bay for STATCOM in Bus Section-1 shall be in half diameter (with associated tie bay).</u></p> <p>c) 220 kV Bus Sectionalization shall be with the following feeder distribution.</p> <table border="1" data-bbox="1308 831 2130 1469"> <thead> <tr> <th data-bbox="1308 831 1621 933">220kV Bus Section-1 (Partly existing)</th> <th data-bbox="1621 831 1906 933">220kV Bus Section-2</th> <th data-bbox="1906 831 2130 933">220kV Bus Section-3</th> </tr> </thead> <tbody> <tr> <td data-bbox="1308 933 1621 1469"> <p>a) <u>Space provision for 2 Nos. of 400/220 kV ICT</u> b) Existing feeders under “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/ Barmer Complex): Part F”</p> </td> <td data-bbox="1621 933 1906 1469"> <p>a) <u>4 Nos. of 400/220 kV ICT</u> b) 4 Nos. of 220 kV Line c) 1 No. Bus coupler and 1 No. Transfer bus coupler</p> </td> <td data-bbox="1906 933 2130 1469"> <p>a) 2 Nos. of 220kV Line b) <u>Space provision for 02 Nos. Line bays.</u> c) <u>1 No. of 400/220kV ICT</u> d) <u>Space provision for 01 No. ICT bays.</u> e) Space provision for</p> </td> </tr> </tbody> </table>	220kV Bus Section-1 (Partly existing)	220kV Bus Section-2	220kV Bus Section-3	<p>a) <u>Space provision for 2 Nos. of 400/220 kV ICT</u> b) Existing feeders under “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/ Barmer Complex): Part F”</p>	<p>a) <u>4 Nos. of 400/220 kV ICT</u> b) 4 Nos. of 220 kV Line c) 1 No. Bus coupler and 1 No. Transfer bus coupler</p>	<p>a) 2 Nos. of 220kV Line b) <u>Space provision for 02 Nos. Line bays.</u> c) <u>1 No. of 400/220kV ICT</u> d) <u>Space provision for 01 No. ICT bays.</u> e) Space provision for</p>
220kV Bus Section-1 (Partly existing)	220kV Bus Section-2	220kV Bus Section-3																	
<p>a) 2 Nos. of 400/220kV ICT b) Existing feeders under “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/ Barmer Complex): Part F”</p>	<p>a) 3 Nos. of 400/220kV ICT b) 4 Nos. of 220kV Line c) 1 No. Bus coupler & 1 No. Transfer bus coupler d) Space provision for 01 No. ICT bays.</p>	<p>a) 2 Nos. of 220kV Line b) Space provision for 03 Nos. Line bays. c) Space provision for 03 Nos. ICT bays. d) Space provision for 1 No. Bus coupler & 1</p>																	
220kV Bus Section-1 (Partly existing)	220kV Bus Section-2	220kV Bus Section-3																	
<p>a) <u>Space provision for 2 Nos. of 400/220 kV ICT</u> b) Existing feeders under “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/ Barmer Complex): Part F”</p>	<p>a) <u>4 Nos. of 400/220 kV ICT</u> b) 4 Nos. of 220 kV Line c) 1 No. Bus coupler and 1 No. Transfer bus coupler</p>	<p>a) 2 Nos. of 220kV Line b) <u>Space provision for 02 Nos. Line bays.</u> c) <u>1 No. of 400/220kV ICT</u> d) <u>Space provision for 01 No. ICT bays.</u> e) Space provision for</p>																	

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Sl. No.	Clause No.	Existing Provisions			New / Revised Provisions		
				No. Transfer bus coupler			1 No. Bus coupler and 1 No. Transfer bus coupler
		<p>TSP shall also execute one set of 220 kV bus sectionaliser between the 220 kV bus section-1 & 220kV bus section-2 and shall keep space provision for future bus sectionaliser between 220 kV bus section-2 & 220kV bus section-3 under present scope of work.</p>			<p>TSP shall also execute one set of 220 kV bus sectionaliser between the 220 kV bus section-1 and 220 kV bus section-2 and shall keep space provision for future bus sectionaliser between 220 kV bus section-2 and 220kV bus section-3 under present scope of work.</p>		
3.	<p>Specific Technical Requirements for Substation</p> <p>Clause B.1.2 of RfP & TSA</p>	<p>B.1.2 Switching Scheme</p> <p>.....</p> <p>(x) Extension of Dausa S/s:</p> <p><i>For Dausa-Ghiror 765 kV D/C transmission line, both circuits shall be terminated in new diameters at Dausa S/s. Accordingly, 2 (two) number of half diameter (consisting of Main and associated Tie Bay) shall be constructed under present scope at Dausa S/s. TSP shall also ensure the layout arrangement in such a way that these diameters are suitable for termination of Merta-II – Dausa 765 kV D/C transmission line under “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5 GW): Part-B” scheme. Further, all associated interconnection work shall also be in the present scope of TSP.</i></p>			<p>B.1.2 Switching Scheme</p> <p>.....</p> <p>(x) Extension of Dausa S/s:</p> <p><u>For Dausa-Ghiror 765 kV D/C Transmission line, both circuits shall be terminated in new half diameters at Dausa S/s. Accordingly, 2 (two) number of half diameter (consisting of Main and associated Tie Bay) shall be constructed under present scope at Dausa S/s. Accordingly, Bay No. 716,717, 719 and 720 shall be under present scope of work.</u></p> <p><u>Further, all associated interconnection work shall also be in the present scope of TSP. SLD of Dausa (Drq No. DAUSA S/S (NEW)-765/400kV SWICTHYARD SINGLE LINE DIAGRAM) is also attached.</u></p>		
4.	<p>Specific Technical Requirements for Substation</p> <p>Clause B.1.2 of RfP & TSA</p>	<p>B.1.2 Switching Scheme</p> <p>(xi) Extension of Fatehgarh-IV PS (Sec-2) S/s:</p> <p><i>For termination of Fatehgarh-IV PS (sec-2) -Barmer-I 400 kV D/C line at Fatehgarh-IV PS (sec-2), both circuits shall be terminated in new diameters. Accordingly, 2 (two) number half diameter (consisting of Main and associated Tie Bay) shall be constructed under present scope at Fatehgarh-IV PS (sec-2). Further, all associated interconnection work shall also be in the present scope of TSP.</i></p>			<p>B.1.2 Switching Scheme</p> <p>(xi) Extension of Fatehgarh-IV PS (Sec-2) S/s:</p> <p><u>For termination of Fatehgarh-IV PS (sec-2) -Barmer-I 400 kV D/C line at Fatehgarh-IV PS (sec-2), one circuit shall be terminated in new half diameter [consisting of Main and associated Tie Bay] and other circuit shall be terminated in existing diameter where tie bay shall be available at Fatehgarh-IV PS (Sec-2) s/s. Accordingly, bay no. 436,439 and 440 shall be under the present scope of work.</u></p>		

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			<p><u>Further, all associated interconnection work shall also be in the present scope of TSP. SLD of Fatehgarh-IV PS (Sec-2) is also attached.</u></p>
5.	<p>Clause C.6.2.2</p> <p>Under Voltage Strategy</p>	<p>It is essential that the STATCOM Station operates in a robust manner when transmission system under voltages appears. For transmission system voltages down to 0.15 p.u., the STATCOM units must operate unrestricted, producing its rated capacitive current. The STATCOM must be designed to operate at transmission system under voltage, even considering that severe voltage unbalances can appear. The STATCOM must not be restricted by short term negative sequence voltages up to 1.5%, appearing in conjunction with under voltages.</p> <p>...</p>	<p>It is essential that the STATCOM Station operates in a robust manner when transmission system under voltages appears. <u>In case of single phase or three phase faults,</u> the STATCOM units must operate unrestricted, producing its rated capacitive current <u>for transmission system voltage down to 0.15 p.u. In case of two phase fault, STATCOM shall be capable to produce rated capacitive current atleast down to 0.3 p.u. however, it shall be designed to operate upto 0.15 p.u.,</u> The STATCOM must be designed to operate at transmission system under voltage, even considering that severe voltage unbalances can appear. The STATCOM must not be restricted by short term negative sequence voltages up to 1.5%, appearing in conjunction with under voltages....</p>
6.	<p>C.6.5.1</p> <p>Radio Interference</p>	<p>...</p> <p>a) With the STATCOM Station operating at any load up to rated value and within the design range of firing angle, the radio interference level from electromagnetic or electrostatic inductions generated by the STATCOM station shall not exceed 100 micro-volts/m, under fair weather conditions, <u>at any point outside the station fence.</u> The Radio Interference Level (RIL) criteria shall be achieved at all frequencies within the range of 150 kHz to 300 MHz and with the STATCOM operation at any level up to and including rated value, the design shall provide correcting measures, should the specified design not being realized in the final installation.</p> <p>.....</p>	<p>...</p> <p>a) With the STATCOM Station operating at any load upto rated value and within the design range of firing angle, the radio interference level from electromagnetic or electrostatic inductions generated by the STATCOM station shall not exceed 100 micro-volts/m, under fair weather conditions at <u>500 m away from STATCOM fence or boundary of the substation whichever is higher.</u> The Radio Interference Level (RIL) criteria shall be achieved at all frequencies within the range of 150 kHz to 300 MHz and with the STATCOM operation at any level up to and including rated value. The design shall provide correcting measures, <u>in case</u> the specified design not being realized in the final installation. <u>In case of any third-party complaints about the radio interference, suitable measures shall be implemented by TSP.</u></p> <p>...</p>