

Amendment-4 (dated: 26.09.2024) to RFP Documents “Transmission System for Evacuation of power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part C” through tariff based competitive bidding process

Sl. No.	Clause No.	Existing Clause	New/Revised Clause
1.	Clause 20 of “Specific Technical Requirement of 2500 MW (2x1250 MW), ±500 kV HVDC” in RfP.	<p>20. Converter Station DC Outdoor Yard</p> <p>(a) The DC yard shall comprise of equipment such as HVDC bushings, smoothing reactors (if required), DC filters (as required), DC current and voltage measuring instruments and switchgear, surge arrester, insulators, clamps and connectors.</p> <p>(b) The specific creepage distance (corresponding to highest DC voltage) for DC yard and other areas shall be maintained as follows:</p>	<p>20. Converter Station DC Yard</p> <p>(a) The DC yard shall comprise of equipment such as HVDC bushings, smoothing reactors (if required), DC filters (as required), DC current and voltage measuring instruments and switchgear, surge arrester, insulators, clamps and connectors. DC Yard at South Olpad S/s shall be outdoor yard. However, at KPS-3 S/s the DC yard shall be indoor with following specifications.</p> <p>(i) The indoor DC yard building shall be constructed adjacent to the valve hall. Suitable arrangements shall be made for O&M and replacement of the equipment. The floor of the indoor DC yard shall have a heavy-duty floor slab suitable for movement of heavy equipment.</p> <p>(ii) The indoor DC yard shall be a ventilated hall containing DC yard equipment connected to ±500 kV HV pole bus such as smoothing reactors (if required),</p>

Table 6

Insulator type	Under light and medium pollution	Under heavy and very heavy pollution
Indoor porcelain or composite insulators for valve hall (other than valves) and indoor smoothing reactor area (if any)	20 mm/ kV	
IGBT Valves	14 mm/ kV	
Outdoor porcelain insulators or bushings with RTV# coating	50 mm/ kV	60 mm/KV
Outdoor composite insulators or bushings	50 mm/ kV	

RTV silicon coating shall be in accordance with IS 11310.

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high speed parallel/ de-parallel switch, line isolator, DC Current Transducer (DCCT), voltage divider, Line Fault Locator (LFL), DC filters (if required with at least including HV capacitors) etc.

(b) The specific creepage distance (corresponding to highest DC voltage) for DC yard and other areas shall **at least** be maintained as follows:

Table 6

Insulator type	Under light and medium pollution	Under heavy and very heavy pollution
Indoor porcelain or composite insulators for valve hall (other than valves) and indoor smoothing reactor area (if any)	20 mm/ kV	
Indoor DC Yard (other than smoothing reactor)	30 mm/ kV	
IGBT Valves	14 mm/ kV	
Outdoor porcelain insulators or bushings with RTV# coating	50 mm/ kV	60 mm/kV

			<table border="1"> <tr> <td>Outdoor composite insulators or bushings</td> <td>50 mm/ kV</td> </tr> </table> <p># RTV silicon coating shall be in accordance with IS 11310.</p>	Outdoor composite insulators or bushings	50 mm/ kV
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2.	Clause B.1.2 (vi) of "Specific Technical Requirements for HVAC Equipment" of RfP.	<i>B.1.2(vi) In case of GIS substation where the bus scheme is One and Half breaker scheme, the diameters shall be complete with feeder/line side isolator and GIS duct of the future bay shall be brought outside the GIS hall/building with extension/interface module suitably.</i>	Clause deleted.		
3.	Article 8, Availability of the project, Clause 8.2 of TSA Clause 8.2 Target Availability:	<p>8.2 Target Availability: The Target Availability of each Element and the Project shall be 98%. Payment of monthly Transmission charges based on actual availability will be calculated as per para 1.2 of Schedule 4 of this Agreement.</p>	<p>8.2 Target Availability: <i>The target availability shall be 98% for AC system and 95% for HVDC system.</i> Payment of monthly Transmission charges based on actual availability will be calculated as per para 1.2 of Schedule 4 of this Agreement</p>		