

S. No	Clause No.	Existing Clause	New/Revised Clause																														
1.	RFP - Annexure C Specific Technical Requirement of 2500 MW (2x1250 MW), ±500 kV HVDC Clause No:46: And TSA- Annexure D Specific Technical Requirement of 2500 MW (2x1250 MW), ±500 kV HVDC	46. Performance Guarantee for Converter Station (excluding HVDC line) c. The system shall meet various harmonic performance parameters on both AC side and DC side. Design targets for HVDC station Reliability and Availability^^ and station guaranteed losses^ <u>Table - 10</u> <table><tr><td>1</td><td>Overall Energy availability of HVDC scheme (a) Overall Performance (b) Excluding transformer</td><td>Not less than 97% Not less than 98%</td></tr><tr><td>2</td><td>Forced Energy Unavailability (FEU)</td><td>Not more than 0.6%</td></tr><tr><td>3</td><td>Schedule Energy Unavailability (SEU)</td><td>Not more than 1%</td></tr><tr><td>4</td><td>Single Pole outage per year</td><td>Not more than 8 (with average outage duration of 7.5 hours)</td></tr><tr><td>5</td><td>Bipole outage per year</td><td>Not more than 0.2 (with</td></tr></table>	1	Overall Energy availability of HVDC scheme (a) Overall Performance (b) Excluding transformer	Not less than 97% Not less than 98%	2	Forced Energy Unavailability (FEU)	Not more than 0.6%	3	Schedule Energy Unavailability (SEU)	Not more than 1%	4	Single Pole outage per year	Not more than 8 (with average outage duration of 7.5 hours)	5	Bipole outage per year	Not more than 0.2 (with	46. Performance Guarantee for Converter Station (excluding HVDC line) c. The system shall meet various harmonic performance parameters on both AC side and DC side. Design targets for HVDC station Reliability and Availability^^ and station guaranteed losses shall be as per Table-10. <u>Table - 10</u> <table><tr><td>1</td><td>Overall Energy availability of HVDC scheme (c) Overall Performance (d) Excluding transformer</td><td>Not less than 97% Not less than 98%</td></tr><tr><td>2</td><td>Forced Energy Unavailability (FEU)</td><td>Not more than 0.6%</td></tr><tr><td>3</td><td>Schedule Energy Unavailability (SEU)</td><td>Not more than 1%</td></tr><tr><td>4</td><td>Single Pole outage per year</td><td>Not more than 8 (with average outage duration of 7.5 hours)</td></tr><tr><td>5</td><td>Bipole outage per year</td><td>Not more than 0.2 (with average outage duration of 8 hours)</td></tr></table>	1	Overall Energy availability of HVDC scheme (c) Overall Performance (d) Excluding transformer	Not less than 97% Not less than 98%	2	Forced Energy Unavailability (FEU)	Not more than 0.6%	3	Schedule Energy Unavailability (SEU)	Not more than 1%	4	Single Pole outage per year	Not more than 8 (with average outage duration of 7.5 hours)	5	Bipole outage per year	Not more than 0.2 (with average outage duration of 8 hours)
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Amendment-15 (dated: 05.06.2025) 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

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	Clause No. 46 Sl. No. 14 of Amendment-14			average outage duration of 8 hours)	6	No-load operating state losses	0.2 % of Bipole Rating per station
		6	No-load losses (kW)	0.2 % of Bipole Rating per station	7	Load losses at operation with 100% rated active power and 100% rated reactive power at nominal DC Voltage	Max 1.1 % of Bipole Rating per station
		7	Equivalent load loss (kW)\$	Max 1.1 % of Bipole Rating per station			
2.	1.6.1.1 of RFP Document	Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment & forest, civil aviation, railway/ road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing & commissioning. Further, the actual location of substations, switching stations or HVDC terminal or inverter stations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. Further, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield			Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment & forest, civil aviation, railway/ road/ river/ canal/ power crossing/ PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing & commissioning. Further, the actual location of Greenfield Substation (Switching Station or HVDC Terminal or Inverter Station) in the scope of TSP: - For Generation Pooling Substation shall not be beyond 3 Km radius of the location proposed by BPC in their survey report. - For Load Serving Substation within the scope of TSP shall not be beyond 5 Km radius of the location proposed by the BPC in their Survey Report		

Amendment-15 (dated: 05.06.2025) 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

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		intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.	For an Intermediate Substation shall not be beyond 10 Km radius of the location proposed by the BPC in their Survey Report.
3.	5.1.4 (a) of TSA Document And Amendment No 5	Acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations. Also, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report	Acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations. Also, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) in the scope of TSP: - For Generation Pooling Substation shall not be beyond 3 Km radius of the location proposed by BPC in their survey report. - For Load Serving Substation within the scope of TSP shall not be beyond 5 Km radius of the location proposed by the BPC in their Survey Report - For an Intermediate Substation shall not be beyond 10 Km radius of the location proposed by the BPC in their Survey Report.