

Sl. No.	Bid Stipulation	Bidder's Query	NEEPCO's Reply
1	<p><b>Section-IV, Vol-2, Part-II-02, Clause No. 4.2.1: Hardware Redundancy</b></p> <p>The protective functions are to be arranged in hardware racks. This procedure shall ensure redundancy for the essential functions. This can be achieved by duplicating the electronic rack or entire cubicle. The failure of one sub-system, the other sub-system protected by the healthy protection system may remain in service.</p>	<p>We understand the protection redundancy for 220kV shall be as per Clause 4.10. Please confirm, whether redundancy implies duplication of all protection as listed in Clause 4.10</p>	<p>Redundancy for protective functions shall be provided for essential functions as guided by Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulation, 2010.</p>
2	<p><b>Section-IV, Vol-2, Part-II-02, Clause No. 4.10.4: Busbar Protection</b></p> <p>Each bus bar shall be provided with a high-speed bus zone differential protection i.e. two zones.</p>	<p>We understand Single Busbar protection (Numerical type) covering 02 Busbar shall be employed. No duplicated busbar is to be considered. Please confirm.</p>	<p>Main-I &amp; Main-II protection for each busbar to be provided.</p>
3	<p><b>Section-IV, Vol-2, Part-II-02, Clause No. 4.11: Instrument, Meter, Recorder</b></p>	<p>We understand that since this will be a SAS based substation, separate Indicating meters, recorders, Event loggers, Distance to Fault recorders shall not be required, as the same shall be inherent part of</p>	<p>Bidder shall ascertain availability of indicating meters for vital parameters, recording, event logging, DFL functions in their offered system.</p>

		offered Substation Automation system. Please confirm.	
4	<b>Section-IV, Vol-2, Part-II-02, Clause No.2. 4.12: Digital Fault and Disturbance recorder system</b>	We understand standalone DFDR system shall be provided for 220kV Line bays only, and is not required for other bays under present scope. Kindly confirm.	DFDR and Event logger shall be required for all bays under the scope of this specification.
5	<b>Section-IV, Vol-2, Part-II-02, Clause No. 4.13: Islanding Scheme</b>	We understand only underfrequency and/or df/dt based Islanding is required, where the frequency shall be monitored for the 220kV Bus. Also, please confirm that whether Vector surge and Reverse power relay shall be required in Grid incomers. Please confirm.	Vector surge and Reverse power relay for lines shall not be required.
6	<b>Section-IV, Vol-2, Part-II-02, Clause No. 4.14: Substation Automation System (SAS):</b> 67 inch large video screen (LVS) for substation display at Control Room.	We understand that the 67" LVS refers to standard 65" or 70" Full HD LED monitor and not cube type Large video screen. Please confirm.	67 inch large video screen (LVS) shall have LED illumination display having all necessary software for integration with SCADA and designed for continuous viewing i.e. 24x7.
7	<b>General: Spares</b>	Since there is no spares list in the BOM, we understand Bidder shall consider the list of mandatory spares, they find suitable for this package. Kindly confirm.	Mandatory spare list shall be as specified in Section-IV, Volume-3 (Schedule of Requirement) of Bid Document. Further, Bidder shall consider the necessary spares for Protection, SAS and Control system within their scope.