Clarification No I dated 06.01.2025 to the Bidding Documents of Composite Long Rod Insulator Package CIS-01 associated with Consultancy services to NTPC for construction of 400kV D/C (Twin ACSR Moose) Talcher (NTPC) – Pandiabili (POWERGRID) Transmission Line. Specification No. CC/NT/G-INS/DOM/A00/24/15652 Bid No.: GEM/2024/B/566571900

Sl. No.	Clause ref. No	Existing Provision of the Bidding Document	Bidder's Query	POWERGRID's Reply
1	Clause 1.5.4, Section-II	**Grading Rings** ……. The insulator supplier shall furnish design calculations using appropriate electric field software with the proposed placement and design of corona. The insulator supplier must provide EFM report with all limits as per criteria mentioned below. Any modifications to achieve the same shall be done in Insulator assembly only. I Below details shall be mentioned in the report: - a. String configuration ……. II Criteria: The electric field for dry uncontaminated polymer insulators shall not be more than the following critical values: ……. VI. All drawings for insulator and hardware fittings used shall be submitted along with reports and supplier shall ensure same drawings shall only be used for on-going projects.	**Required Hardware Components and Assembled Drawings** In compliance with the latest revised technical specifications (Rev-04, Clause 1.5.4 – II, Criteria – a, b, c, d and point VI), it is essential to achieve the required EMF values and submit the relevant reports. To ensure an accurate response to the specifications, we request the provision of completed hardware components along with the assembled drawings. These documents are vital for compliance, and we would like to note that obtaining the necessary EMF values will require a minimum of 4 to 5 weeks for proper analysis.	Bid Drawings of various strings for 400KV TL are enclosed with the Section-III (Drawings) of Technical Specification, Bidders may refer the same. Further, as the Insulator/grading ring to be supplied under subject packages shall be suitable with the Hardware under corresponding tower package based on EFM analysis & EFM report meeting the acceptance criterion specified in the TS shall be required to be submitted by the Insulator manufacturer during detailed engineering, the Bidders may collaborate with hardware manufacturer(s) of the corresponding tower package during detailed engineering.

2	NA	…….	**Type of Conductor/String** We seek clarification on the specific type of conductor/string configuration to be used in this project. We need this information in order to prioritize the needs of the tender and to expedite the type testing of the conductor/string configuration.	Bidders may refer Clause 1.1 & 8 of Section-I, Technical Specification, wherein details of Line configuration (viz. 400kV D/C Twin ACSR Moose) & Technical information (viz. BIL, withstand voltages, Corona/RIV requirements etc.) have been specified. Further, as per the BPS of Tower Package for construction of 400kV D/C (Twin ACSR Moose) Talcher – Pandiabili TL, following Insulator Strings have been envisaged: i) Double Tension ii) Single Tension iii) Single I Suspension iv) Single I Suspension Pilot Above strings shall be applicable for Insulator Packages CIS01 & CIS02.