

**Responses to Pre-Proposal Clarification from Proposer M/s CDigital on RFP/EPC Bidding Document of Package-III: Electro-Mechanical Works of ALHPP**

**Pre-Proposal Clarifications-RFP/EPC Bidding Document of Package-III: Electro-Mechanical Works of ALHPP**

| <b>S. No.</b> | <b>Reference Document/ Section</b>                                                    | <b>Clause/ Content</b>                                                                                          | <b>Clarification Question (Verbatim)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Replies by AHMC</b>                                                                                                                                                                                                                                                                                                                |
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| 1.            | Volume-II: Employer's Requirements, Part-I: Specific Provisions Sub-Section 1.2.1.6   | 132/66 kV Aliabad Regional Grid Station — AIS Remote End Line bay extension and SCADA integration               | Regarding Sub-Section 1.2.1.6 of Volume-II: Employers Requirements, Part-I: Specific Provisions, is it required to expand two 132 kV AIS remote end line bays within the 132/66 kV Aliabad Regional Grid Station, including all associated electrical equipment, busbars, protection systems, control systems, grounding, and expansion and integration of the SCADA system? (If required, please provide the 132-kV side single-line diagram, site layout plan, and related documentation for the 132/66 kV Aliabad Regional Grid Station.) | The scope of Remote End Line Bays, including civil works at the 132/66 kV Aliabad Regional Grid Station, shall be deleted from Package-III. In this regard, an upcoming Addendum No. 01 to the RFP/EPC Bidding Document will be uploaded on EPADS V2.0 in due course.                                                                 |
| 2.            | Volume-II: Employer's Requirements, Part-I: Specific Provisions Sub-Section 1.2.1.1-k | Connection from Generator outlet Bus to the Low-Voltage side of the Main Transformer — Isolated Phase Bus (IPB) | Clarify the spatial relationship between the 132 kV Switchyard and the main plant. As specified in Sub-Section 1.2.1.1-k of Volume-II: Employer's Requirements, Part-I: Specific Provisions, the connection from the Generator outlet Bus to the Low-Voltage side of the Main Transformer employs Isolated Phase Bus (IPB). Please define the routing layout of this IPB and specify the required length (per phase in meters) for each of the Three Generating Units.                                                                       | The routing has already been indicated in the Overall Project Layout Plan. The final routing shall be developed by the EPC Contractor and finalized during the detailed design stage, subject to approval by the Employer. The specifications of the Segregated Phase Bus shall be in accordance with the Technical Provisions, Part- |

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|        |                                                                                              |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | II, Volume-II of the RFP/EPC Bidding Document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.     | Volume-II: Employer's Requirements, Part-I: Specific Provisions Layout Optimization Proposal | Proposed co-location of Main Transformer with Main Plant; adoption of GIS for 132 kV Switchyard equipment. | Is it feasible to optimize the layout by co-locating the Main Transformer with the Main Plant and adopting GIS for the 132 K Switchyard equipment? This configuration can significantly reduce land footprint and Civil Construction costs, shorten the length of the Generator outlet Isolated Phase Bus (IPB) connections, and enhance operational reliability. GIS's fully enclosed design is immune to contamination, moisture, and small animals, resulting in markedly lower failure rates and reduced environmental risks. Maintenance is limited to periodic monitoring of Gas Density and partial discharge, eliminating the need for frequent cleaning, corrosion protection, and insulator washing required by AIS— thereby, substantially reducing maintenance workload and unplanned outages, while improving the reliability of the 132 kV Grid Station. | The Proposal of GIS Switchyard at Attabad is not accepted.<br>The Proposers are required to strictly follow the layout and equipment configuration plan of 132 kV Switchyard specified in the RFP/EPC Bidding Document. Any deviation, including the adoption of GIS in place of AIS or the relocation of the main Generator Step-up-Transformers, will not be considered at this stage. Accordingly, the reference layout for 132 kV Switchyard provided in the RFP/EPC Bidding Document shall remain unchanged and shall |

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|        |                                                                                                           |                                                                                                                                                                             | Reference layout is shown below:<br>                                                                                                                                                                                                                                                      | be adhered to by all Proposers.                                                                                                                                                                                   |
| 4.     | 2026-03-11<br>PKG III,<br>Technical Provisions,<br>(With Remote End Line Bays)<br>Sub-Clause 2.1.17.3 and | <b>Sub-Clause 2.1.17.3, Metallic Coating (Hot Dip Galvanizing)</b> does not clearly specify which equipment or components shall be applied with hot dip galvanizing or zinc | Clarification on Corrosion Protection, Coating Thickness & Painting Requirements for Hydraulic Steel Structures and Equipment.<br>1. Clarification on Metallic Coating (Section 2.1.17.3)<br>Clause 2.1.17.3 Metallic Coating (Hot Dip Galvanizing) does not clearly specify which equipment or components shall be applied with hot dip galvanizing or zinc metal spraying. | The painting schedule has now been provided in an upcoming Addendum No. 01 to the RFP/EPC Bidding Document will be uploaded on EPADS V2.0 in due course of time<br>All bolts, studs, nuts, washers, screws, etc., |

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|        | Sub-Clause 2.2.8                                                                                                    | metal spraying. Sub-Clause 2.2.8 Surface Preparation & Painting does not specify the required coating thicknesses (dry film thickness) for any components. | Sub-Clause 2.2.8 Surface Preparation & Painting does not specify the required coating thicknesses (dry film thickness) for any components.<br>We therefore request the following clarifications:                                                                                                                                                                                                                                                                                                 | above size M-10, shall, if not made of stainless steel or other corrosion-resistant material, be hot-dip galvanized.<br>Galvanized wire shall comply with the requirements of ASTM A641 standard. Nuts, bolts, and small components shall be coated in accordance with ISO 1461 standard |
| 5.     | 2026-03-11<br>PKG III,<br>Technical Provisions<br>(With Remote End Line Bays)<br>Gate Leaves /<br>Trash Rack Leaves | Corrosion Protection Scheme for Gate Leaves (including Trash Rack Leaves).                                                                                 | <b>2. Corrosion Protection for Gate Leaves and Trash Rack Leaves</b><br>Please confirm the Corrosion Protection Scheme for Gate Leaves (including Trash Rack Leaves):<br>1 Shall zinc metal spraying be adopted for corrosion protection?<br>2 Shall the thickness of zinc spray be not less than 0.060 mm?<br>3 Shall paint systems be applied over the zinc-sprayed surface?<br>4 If yes, how many paint coats are required, and what is the specified dry film thickness (DFT) for each coat? | The painting schedule has now been provided in an upcoming Addendum No. 01 to the RFP/EPC Bidding Document will be uploaded on EPADS V2.0 in due course of time.                                                                                                                         |

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| 6.     | 2026-03-11<br>PKG III,<br>Technical Provisions<br>(With Remote End Line Bays)<br>Paint coating — various items | Total dry film thickness and layer-by layer DFT for paint coatings                                                                                                             | 3. Paint Coating Thickness Requirements<br>Please clarify the required total dry film thickness and layer-by layer DFT for paint coatings on the following items:<br>(1) Gate Recesses (Trash Rack Recesses)<br>(2) Mobile Gantry Crane and Trash Rack Cleaning Crane<br>(3) Hydraulic Hoist Cylinders                                                              | The painting schedule has now been provided in an upcoming Addendum No. 01 to the RFP/EPC Bidding Document will be uploaded on EPADS V2.0 in due course of time.                                                         |
| 7.     | 2026-03-11,<br>PKG III,<br>Technical Provisions<br>(With Remote End Line Bays)<br>Page 1-2                     | Table 1-2: Parameters Rated Turbine Speed (n) 375 rpm                                                                                                                          | Can the Proposer recommend the rated speed of the Hydro-Generator set, for example, if the speed is increased, choose 428.6rpm? Please clarify.                                                                                                                                                                                                                     | The specified rated speed is based on feasibility studies and system requirements; therefore, no deviation is permitted at this stage, and the Proposers shall comply accordingly.                                       |
| 8.     | 2026-03-11,<br>PKG III,<br>Technical Provisions<br>(With Remote End Line Bays)<br>Page 1-32 and Page 1- 33     | <b>Sub-Section 1.3.11</b><br>The valve disk equipped with bolted-on trunnions (with locked screws)<br><b>Sub-Section 1.3.12 Trunnions and Bearings:</b> The trunnions shall be | When the butterfly plate is connected to the valve shaft vide bolted connection, the valve shaft must be reinforced, leading to increased driving torque, more complex structure, and higher maintenance costs in future. Can the butterfly plate and valve shaft be connected vide pin connection? This method features a simpler structure and mature technology. | If OEM/Vendor has proven design practices and validated operating experience for the pin connection of plate with valve shaft, it may be finalized during detailed design phase subject to the approval by the Employer. |

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|        |                                                                                                | made of forged steel, horizontally arranged, and designed for bolted connection to the valve disk.                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |
| 9.     | 2026-03-11, PKG III, Technical Provisions (With Remote End Line Bays) Page 1-31 and Page 1- 33 | <p><b>Sub-Section 1.3.6:</b> The bypass valve alternatively the bypass valve can be actuated by the Governor hydraulic system.</p> <p><b>Sub-Section 1.3.13.1:</b> The pressure oil system design and equipment shall be similar to those for the Hydraulic Governor Pressure oil system given in Section 4 of this Volume including</p> | <p>The discrepancies in the RFP/EPC Bidding Document</p> <p>It is recommended that the inlet valve be equipped with an independent hydraulic system. If the bypass needle valve is hydraulically actuated, the oil pressure shall also be supplied from the hydraulic system of the inlet valve.</p> | The final arrangement shall be determined by the EPC Contractor, during the detailed design stage, subject to the Employer's approval. |

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|               |                                    | redundancy, alarms and safety devices.<br>Sub-Section 1.3.14: Each valve shall have its dedicated oil pressure system / equipment |                                          |                        |