

Response to Pre-Proposal Clarification No. 05 from Proposer M/s CDigital on RFP/EPC Bidding Document of Package-III: Electro-Mechanical Works of ALHPP

Sr. No	Reference	Content of Specifications	Clarification from Proposer	Reply by AHMC
1.	Sub-Clause 1.1.15 Efficiency, Technical Provisions, Part-II, Volume-II, RFP/EPC Bidding Document Table 8-6 Turbine and Generator Guaranteed Weighted Average Efficiency, A-1 Guaranteed Characteristics, Appendix-A Performance Guarantees, Part B Special Provisions, Section-VIII Particular Conditions, Volume-I, RFP/EPC Bidding Document	As per Table 8-6, Appendix-A, Volume-I, RFP/EPC Bidding Document, Guaranteed Turbine Weighted Average Efficiency shall be greater than 92.8%", computed across the 100% / 80% / 60% / 40% Turbine output points with weighting factors 0.59 / 0.20 / 0.12 / 0.09 (Sub-Clause 1.1.15 of Technical Provisions, Part-II, Volume-I, RFP/EPC Bidding Document)	For a low-output, medium-head Francis Turbine, a Guaranteed Weighted Average Efficiency above 92.8% is not available from qualified Turbine Manufacturers for this class; the best-efficiency-point efficiency already approaches the technological limit for this specific speed, and the weighted average is necessarily reduced by the inherently lower part-load (60% / 40%) efficiencies. For the Attabad Lake Hydropower Project (54MW) (Turbine Output about 18.94 MW, rated net head 104 m, 375 rpm), we request to amend the guaranteed turbine weighted-average efficiency requirement to 92.15%, for a Turbine that otherwise fully meets the guaranteed rated output, the minimum rated point Efficiency (Table 1-2) and all functional and technical requirements.	The Proposer's request has been noted. However, the Employer maintains the minimum Guaranteed Weighted Average Turbine Efficiency specified in the RFP/EPC Bidding Document. The specified Efficiency requirement has been established considering the Project characteristics, performance objectives, and long-term energy generation requirements. It is the responsibility of the EPC Contractor to select and optimize suitable turbine equipment capable of meeting all Guaranteed Performance requirements. Accordingly, no amendment to the specified Guaranteed Weighted Average Turbine Efficiency requirement will be made. Hence, the provision of RFP/EPC Bidding Document shall prevail.