

Responses to Pre-Proposal Clarification No 07 from Proposer M/s CDigital on RFP/EPC Bidding Document of Package-III: Electro-Mechanical Works of ALHPP

Sr. No.	Reference	Clarification from Proposer	Reply from Employer
1.	Volume-II, Employer's Requirements, Technical Provisions Part-II, Sub-Clause 1.1.15, Efficiency, ,, RFP/EPC Bidding Document of Package-III "Guaranteed Turbine Weighted Average Efficiency shall be greater than 92.8%.", Turbine and Generator Guaranteed Weighted Average Efficiency Table 8-6, Particular Conditions Section-VIII, Volume-I, RFP/EPC Bidding Document	The guaranteed turbine weighted average efficiency is governed by the weighting factors specified in Sub-Clause 1.1.15 , Technical Provisions Part-II, Volume-II, RFP/EPC Bidding Document, (59 / 20 / 12 / 9 at 100 / 80 / 60 / 40% turbine power), which place substantial weight on the part-load points (60% and 40%), where Vertical Shaft Francis Turbine Efficiency inherently declines. The resulting weighted average is therefore highly sensitive to the reference runner design and to the net head at which the load points are evaluated. To enable all Proposers to guarantee on a common and demonstrable basis, we request the Employer to clarify: Whether the Guaranteed Turbine Weighted Average Efficiency >92.8% requirement is derived strictly by applying the Sub-Clause 1.1.15, Part-II, Volume-II, RFP/EPC Bidding Document, weighting factors (59/20/12/9) to the four load points, and at what reference net head / reservoir condition these points are defined. The specific reference runner, model designation and manufacturer, and the model / prototype test from which the 92.8% Guaranteed Turbine Weighted Average Efficiency value was obtained, so that all Proposers may benchmark against a demonstrated, achievable figure.	Noted. The guaranteed turbine weighted-average efficiency (>92.8%) shall be determined by applying the weighting factors specified in Sub-Clause 1.1.15, Technical Provisions Part-I, RFP/EPC Bidding Document, Package-III, to the corrected prototype efficiencies derived from the model test results of the proposed homogeneous turbine, after applying the prototype efficiency correction in accordance with IEC 60193. The guaranteed efficiency shall be demonstrated by the successful Proposer based on the model tests of its proposed turbine design. The Employer has not based this requirement on any specific reference runner, manufacturer, or model designation.

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