Summary of Pre-Proposal Clarifications Requested from Potential Proposers and Replies by AHMC on Volume-I, Volume-II and Volume-III of RFP/EPC Bidding Documents for Package-III Electro-Mechanical Works of ALHPP

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
1. Proposer M/s CDigital (PVT) Limited Clarifications			
Clarification No. 01 on April 13, 2026			
Technical Provisions			
TP-1	2026-03-11 PKG III Technical Provisions Generator bearing type specification 3.1.17 Bearings Page 3-6	What backing material type and specifications are required? What are maximum allowable thrust pad pressure and temperature limits?	The conventional material combination of white metal and steel backing shall be used as specified under the requirements of RFP/EPC Bidding Document. The maximum allowable thrust pad pressure and temperature limits shall be as per applicable International Standards allowable limits.
TP-2	2026-03-11 PKG III Technical Provisions 3.2 Excitation System Page 3-20 to 3-22 Generator excitation system type and redundancy	Is the architecture explicitly 1-out-of-2 voting or could it be 2-out- of-3? What are the specified fault detection and failover response times?	The excitation system shall be provided with a dual-channel redundant digital excitation controller. The redundancy philosophy and operational requirements shall be as follows: 1. **Redundancy Philosophy:** The system shall be based on a 1oo2 (one-out-of-two) redundant configuration, consisting of one active (duty) channel and one standby (hot standby) channel. 2. **Voting / Arbitration Logic:** The system shall include automatic health monitoring and arbitration logic to detect failure or abnormal behavior of the active channel. Upon detection, control shall be transferred to the standby channel without disturbance to Generator Operation. 3. **The synchronization Between Channels:** Both channels shall operate in fully synchronized mode, with continuous tracking of all input signals, reference values, limiter outputs, and internal states to ensure bump less transfer during switchover. 4. **Changeover Protocol:**

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			Automatic Changeover: The system shall automatically transfer control to the standby channel in case of failure of the active channel. Manual Changeover: Provision shall also be available for manual selection/changeover between channels during operation or maintenance. The final specification and philosophy shall be finalized during the design stage subject to the Employer's approval.
TP-4	2026-03-11 PKG III Technical Provisions 3.10 Cables Page 3-60 to 3-63.	Shall cables use XLPE or EPR insulation? Are fire retardant (IEC 60331-1) or fire resistance (IEC 60332) characteristics required, and what is the difference in the Contractor's scope? Shall armor be copper or steel, and shall single or double armoring be applied? What armor grounding continuity and bonding requirements must be met	As specified in Sub-Clause 3.10.3.1, all MV cables shall be XLPE insulated with LSZH sheath, and LV/Control cables shall also be LSZH, in line with IEC 60502. The same Sub-Clause requires fire-retardant or fire-resistant cables as applicable, with fire-resistant cables for critical circuits as per IEC 60331. It is further stated that copper conductor and armouring shall be used, and all cable armour shall be properly earthed and bonded with full continuity throughout the system. The final detailed specification shall be finalized during the detailed design stage subject to the approval of Employer.
TP-5	2026-03-11 PKG III Technical Provisions 3.7.6 Batteries Page 3-49 to 3-51 DC/UPS battery technology and autonomy period	• What is the minimum required DC system autonomy duration in hours at full load without AC mains?	10 hours minimum DC system autonomy duration at full load without AC mains shall be provided.
TP-6	2026-03-11 PKG III Technical Provisions 3.4.4 Functional Specifications Page 3-27 Transformer cooling type and OLTC operation mode	At what winding temperature (in °C) shall ONAF cooling fans automatically engage? Shall fans be modulating or full on-off? What is the OLTC stepping time and maximum motor torque requirement? Shall the 132 kV neutral be solidly earthed at the	The cooling fan design will be proposed by the Transformer Manufacturer and will be finalized during detail design stage. The star point of the 132 kV windings shall be solidly earthed as specified in the RFP/EPC Bidding Document.

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		transformer star point, or via a separate neutral earthing transformer?	
TP-7	2026-03-11 PKG III Technical Provisions 3.5.1 Scope Switchgear insulation type (GIS vs AIS) and IP rating	Shall the 11 kV switchgear be air-insulated (AIS) or gas-insulated (GIS), and what is the rationale? What minimum IP rating is required for the installed environment (indoor powerhouse)? Shall the design be modular cubicles or a single integrated unit? What arc-flash incident energy level (in kA at 12 inches) must be declared?	The 11 kV Switchgear shall be SF6 type for generating units. All other except units shall be vacuum type. The IP rating and the other arrangement detail shall be finalized during the detailed design stage subject to the approval of Employer.
TP-8	2026-03-11 PKG III Technical Provisions §4.5.1 Plant Control System (PCS) Page 4-4 SCADA/HMI software vendor and licensing model	Which SCADA/HMI platform is mandatory (FactoryTalk, InduSoft, Wonderware, or open)? Shall perpetual, unrestricted source code escrow be provided for all software? How many concurrent operator licenses and engineering licenses shall be included? What is the required software support and maintenance SLA period?	The PCS software shall be Microsoft Windows based in accordance with the applicable International Standards. The other details will be finalized during detailed design stage subject to the approval of Employer.
TP-9	2026-03-11 PKG III Technical Provisions 3.1.14 Fire Protection System Page 3-5 Fire detection and suppression system type in generator	Which specific inert gas medium is mandated (CO2, N2, FM200, Novec)? What is the activation sequence and logic for inert gas and water spray	The Generator Fire Protection System shall comply with the requirements of NFPA 851 and relevant NFPA standards. The inert gas, fire detection sensor type and system operation shall be finalized during the detailed design stage subject to the approval of Employer. A multi-criteria fire detection system and both automatic and manual activation with safety interlocks shall be provided. The final specification and system philosophy shall be finalized during the detailed design stage subject to the approval by the Employer.

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TP-12	2026-03-11 PKG III Technical Provisions 3.4.4 Functional Specifications Page 3-27 Transformer oil preservation and conservator type	Shall a Buchholz relay with gas-oil discriminator be provided as a separate device? What material and expected service life (in years) shall be specified for the conservator diaphragm? What nitrogen blanket pressure (if any) shall be maintained above the oil surface, and what is the initial charge pressure when the transformer is cool? What is the air breather desiccant replacement interval?	The Double Float Buchholz Relay with Ground-Level Gas Sampler shall be provided. Diaphragm material shall be NBR with minimum expectancy life of 20 years. Generally, 0.05 to 0.07MPa pressure shall be used. Maintenance-Free Breather (Electronic) type shall be used. However, all these details shall be reviewed and finalized during detailed design stage subject to the approval of Employer.
TP-13	2026-03-11 PKG III Technical Provisions §3.5.7 Circuit Breaker Page 3-37 onwards Circuit breaker tripping time and auxiliary power supply	What is the maximum circuit breaker tripping time (from trip command to contacts separated) in milliseconds? What DC supply voltage (110V, 125V, or 220V) shall be used for trip coils, and shall automatic changeover between normal and DC backup supply be provided? What is the mechanical life expectancy in number of operations (at rated current and lightning impulse levels)?	The DC supply voltage shall be 220 VDC as specified under the requirements of RFP/EPC Bidding Document. All other details shall be varied from manufacturer to manufacturer and will be reviewed and finalized during detailed design stage subject to the approval of Employer.
TP-15	2026-03-11 PKG III Technical Provisions 1.2.6 Pressure Oil System Page 1-24 Governor oil pressure system filtering and contamination limits	What is the required oil cleanliness class (ISO 4406 code) that must be maintained in the governor pressure system? Shall a 5- micron or 10-micron filter be placed on the main pump discharge, and shall a return-line or offline filtration system be provided? What is the maximum allowable particulate contamination (particles >4µm, >6µm, >14µm per ml) before remedial action is required? Shall oil condition monitoring (trend analysis) be mandatory?	1. 10 µm is recommended 2. Particulate size Should be less than 6 µm However, it will be finalized during detailed design stage subject to the approval of Employer.

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TP-16	2026-03-11 PKG III Technical Provisions 6.23.3.9 Grounding System Page 6-148 onwards Protection system grounding (IEEE 80 vs IEC 62305) and touch voltage limits	Shall the grounding system be designed per IEEE 80 (for AC systems) and/or IEC 62305 (for lightning protection)? What soil resistivity (ρ) shall be assumed for design, and what is the measured soil resistivity at the site? What are the acceptable step and touch voltage limits for personnel safety (at 50 kg body weight)? What is the required grounding electrode resistance to remote ground, and what is the testing interval post-commissioning?	Please note that grounding calculations and grounding mesh activity will be performed by the EPC Contractor of Package-I: Civil & Auxiliary Services Works and the same has been mentioned in the RFP/EPC Bidding Document and the same shall be followed.
TP-17	2026-03-11 PKG III Technical Provisions 1.6.3.1 Hydraulic Hoist Page 1-17 onwards Hydraulic hoist cylinder lifting and lowering speed specification	What lifting speed is required (mm/s), and what is the maximum operating pressure of the hydraulic system? Shall lowering be controlled (counterbalance valve) or free-fall, and what is the maximum descent speed? What is the pressure relief setting, and shall a pilot-operated relief protect against overload? How many hand pump strokes are needed per lift cycle, and over what height range shall lifting be possible?	It shall be provided by the Proposer as per International Standard and good engineering practice.
TP-18	2026-03-11 PKG III Technical Provisions 4.9.4 Data Acquisition and HMI Functions Page 4-21 onwards SCADA cyber security requirements and IEC 62443 level	What is the required IEC 62443 Security Level (SL1–SL4)? Shall multi-factor authentication (MFA) or single-factor (username/password) be used for operator access? What is the minimum audit log retention period (days/years)? Shall SCADA traffic be encrypted (AES-256 or equivalent), and shall TLS 1.2+ be mandatory for remote access? Shall intrusion detection/prevention systems be provided?	The IEC 62443 Security Level SL-3 shall be required. The other details related to the PCS software, data acquisition and firewall system will be finalized during the detailed design stage subject to the approval of Employer.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
TP-19	2026-03-11 PKG III Technical Provisions 3.11 Emergency Diesel Generating Units (EDG) Page 3-56 onwards Alternate energy source (fuel type and capacity) for EDG system	What fuel type (diesel, natural gas, or dual-fuel) shall the EDG use? What is the required fuel tank capacity to provide autonomy for how many hours of continuous operation at 75% load? What is the starting battery capacity (Ah) and number of cells? Shall there be interlocks between EDG startup and main circuit breaker position? What is the load shedding sequence, and are there priority classifications for essential vs non-essential loads?	The equipment titled Emergency Diesel Generating Units (EDG) which clearly specified the fuel type. Other details shall be finalized during detailed design stage subject to the approval of Employer after analyzing the load list and details by the Manufacturers.
TP-20	2026-03-11 PKG III Technical Provisions 2.2 Cooling Water System Page 2-1 onwards Auxiliary water system pump redundancy and treatment method	Shall the cooling water pumps be duty/standby (N+1 redundancy) or single-pump design? What raw water quality standards (turbidity, pH, total dissolved solids, bacterial count) shall be assumed? Shall the system include 5-micron filtration, chemical pre-treatment (scale inhibitor, biocide), or UV sterilization? What is the design heat rejection load (MW) that the cooling system must handle at rated conditions? What pressure class (PN6, PN10, PN16) shall raw water piping be rated for?	It has been clearly mentioned in the RFP/EPC Bidding Document that the detailed studies for the design of the Cooling Water System as per requirement of Power Plant will be carried out by the Proposers.
TP-21	2026-03-11 PKG III Technical Provisions 4.9.3 Metering and Billing Functions Page 4-20 onwards Metering transformer accuracy class and measurement uncertainty	What accuracy class (e.g., 0.2, 0.5 per IEC 61869) is required for current transformers and voltage transformers used in the metering system? Shall the metering system comply with revenue-grade accuracy or utility standards? What is the acceptable overall measurement uncertainty (±0.5% or ±1.0%)? Shall the metering panel record real energy, reactive energy, and harmonic distortion energy separately?	Please follow the requirements of the RFP/EPC Bidding Document as specified under applicable latest International Standards. The metering system shall comply with revenue-grade accuracy.

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TP-22	2026-03-11 PKG III Technical Provisions 3.10 Cables Page 3-60 onwards Control cable type and fiber optic vs copper specification	What cable type/category/fiber mode required for analog control signals? What is minimum separation distance from HV power cables?	The fiber mode shall be used as specified under the requirements of the RFP/EPC Bidding Document. Furthermore, distances from HV Power cables shall be followed as per allowable limits specified under International Standards specified in the RFP/EPC Bidding Document.
TP-23	2026-03-11 PKG III Technical Provisions 1.1.6 Speed and Balance Page 1-3 Runaway speed calculation assumptions and mechanical stress limits	Is runaway speed (655 rpm) based on simultaneous MIV+guide vane closure failure or MIV failure alone? What material yield strengths (MPa) apply to runner/shaft/stay ring? Shall dynamically stress amplification factor be applied?	1. It will be based on MIV+Guide vane closure failure as Worst Case scenario 2. Should be same 2/3 of material yield strength. 3. Yes, dynamically stress amplification factor will be applied in the calculations
TP-24	2026-03-11 PKG III Technical Provisions 6.3 132kV Remote End Page 6-35 onwards Switchyard 132 kV earthing transformer requirements	Shall the 132 kV neutral point be directly connected (solidly earthed) to a grounding electrode, or shall a separate earthing transformer be provided? If an earthing transformer is required, what is its kVA rating, and what is the impedance (ohms, %)? Shall the earthing point be directly grounded or protected by a neutral grounding resistor, and if so, what resistance value (ohms) limits earth-fault current to acceptable levels?	132 kV neutral point shall be directly connected (solidly earthed) to a grounding electrode. No separate earthing transformer or neutral grounding resistor is required.
TP-25	2026-03-11 PKG III Technical Provisions 1.1.16.3 Cavitation Guarantees Page 1-11 Turbine cavitation guarantees and damage evaluation criteria	What is acceptable cavitation erosion rate (mg/h or mm/year)? What is maximum pit depth after 1 year? At what sigma is damage unacceptable? What inspection method is required?	The EPC Contractor, will provide Cavitation Guarantees as per International Standard IEC 60609-1.

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TP-26	2026-03-11 PKG III Technical Provisions 3.1.15 Cooling System Page 3-5 to 3-6 Generator cooling water system material compatibility and treatment	Shall the cooling water be treated (demineralized, pH-buffered) or raw lake water? What cooling water quality limits (conductivity µS/cm, pH, total hardness mg/L) must be met to prevent cooler fouling and corrosion? Shall cooler tubes be aluminum, stainless steel (304/316), or cupronickel (90/10)? What fouling factor (m²K/W) is assumed for cooler sizing, and what is the minimum heat transfer coefficient (W/m²K)?	In Sub-Clause 1.5.1 Cooling Water System of Technical Provisions Part-II Volume-II of RFP/EPC Bidding Document of Package-III, It is specified that the Open loop cooling system has been foreseen; however, the EPC Contractor shall be required to carry out his own water, petrographic and sedimentation analysis where necessary for verification and confirmation of contractual guarantees. The EPC Contractor shall be required to take sedimentation into consideration in the design of the cooling water system. The cooler tubes shall be made of titanium material. Other data will be finalized during detailed design stage subject to the approval of Employer.
TP-27	2026-03-11 PKG III Technical Provisions 3.4.4 Functional Specifications Page 3-27 Transformer on- load tap changer (OLTC) manual control interface and settings	Shall OLTC tap control be local (at the transformer) or remote (from central control room)? What is the tap position feedback mechanism (resolver, absolute encoder, or mechanical counters)? What is the minimum time delay between consecutive tap changes to prevent hunting and transformer stress? Shall remote indication of the current tap position and secondary voltage be provided to the control system? What are the mechanical limits (forward/reverse bounds) to prevent tap position overflow?	The OLTC shall be fully automatic operated with provision of remote and local manual operation as specified in the RFP/EPC Bidding Document.
TP-28	2026-03-11 PKG III Technical Provisions 3.1.20.4 Unit Reliability Run Test Page 3-8 Commissioning test duration and performance guarantee test procedure	Is 24-hour test continuous or accumulated? What defines a defect requiring re-test (e.g., bearing temp >60°C, vibration >10 mm/s)? Are performance guarantee tests part of commissioning or separate?	The Proposer is required to follow the requirements of RFP/EPC Bidding Document. Any other details shall be finalized during detailed design stage subject to the approval of Employer.

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TP-29	2026-03-11 PKG III Technical Provisions 4 Plant Control and Instrumentation System Page 4-1 onwards Operation and Maintenance training scope and location	How many trainees shall be trained for each discipline (operations, mechanical maintenance, electrical maintenance), and shall training be at the OEM factory, on-site, or both? What is the total training duration (man-days), and what are the specific modules to be covered (e.g., SCADA operation, turbine maintenance, protection relay settings)? Shall training materials be in English, Urdu, or both? Shall annual refresher training be provided, and if so, for how many days?	The EPC Contractor shall provide comprehensive training for operation and maintenance personnel. As a minimum, 5–8 trainees per discipline (Operations, Electrical, Mechanical, I&C) shall be at both OEM works and Project site, with a minimum duration of 1–2 weeks per system, covering operation, maintenance, troubleshooting, and safety.] The training shall be conducted in English language. The detailed training plans shall be submitted for Employer's review and approval.
TP-30	2026-03-11 PKG III Technical Provisions 3.4.8 SERGI Transformer Fire Protection System Page 3-28 Transformer fire protection system activation logic and response time	How does the SERGI system detect faults: by monitoring the rate of pressure rise (bar/s) or absolute pressure threshold (bar)? Shall activation require a single sensor signal or dual-sensor coincidence logic? What is the gas injection response time (milliseconds) from detection to gas release? Shall manual activation (via push-button or remote) be available when the transformer is in service? How is the system reset after discharge, and what is the lead time for recharge?	The Proposer's queries are irrelevant at this stage. The SERGI design will be coordinated with the Transformer Manufacturer. These details shall be finalized during detailed design stage subject to the approval of Employer.
TP-31	2026-03-11 PKG III Technical Provisions 6.1 Scope of Work — 132 kV Switchyard and 132 kV Line End Bays Page 6-2 (BD-ALHPP-03 (V2-II)) Switchyard civil works — control house building and main ground grid	Please confirm: (a) that the construction of the 132 kV switchyard control house itself (foundations, walls, roof, doors, windows, HVAC, lighting, and internal fit-out up to the finished slab ready to receive E&M cabinets) is wholly within Package-I (Civil Contractor) scope; and (b) that the buried main ground grid of the 132 kV switchyard (ground mat conductors, ground rods, earth pits, riser straps up to each	The scope of construction of 132 kV Switchyard, Control House building, Grounding, HVAC and Lighting system etc. has been covered under EPC Contractor of Package-I: Civil & Auxiliary Services Works. The protective earthing connections from grounding mesh/risers to equipment/metallic structures and lightning protection of 132 kV Switchyard bays shall be the responsibility of Package-III EPC Contractor.

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		equipment's earthing pad, and the soil-resistivity / Grid-resistance / touch-and-step voltage measurements) is wholly within Package-I scope, with Package-III (E&M) responsible only for the final protective earthing connection from each piece of equipment to the Package-I-supplied riser strap. If either (a) or (b) is, in whole or in part, within Package-III scope, please specify which sub-items and identify the governing civil specification sections and design criteria to be followed.	
Specific Provisions			
SP-2	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 §1.1.1 Civil Works for 132kV Line End Bays at Remote End 1-2 132kV Line End Bays civil works scope boundary with Package-I 132kV	If discrepancies are discovered during design review, who formally approves modifications and who bears cost/schedule impacts?	The scope of Remote End Line Bays including Civil works at 132/66 kV Aliabad Regional Grid Station shall be deleted from Package-III. In this regard, an Addendum No. 01 to RFP/EPC Bidding Document shall be issued on EPADS V2.0 in due course of time.
SP-3	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 §1.8 Environmental Compliance and §4.2 ESHS Requirements 1-16 to 1-17 and 4-3 Environmental permits and NOC responsibility allocation	Is construction-phase Environmental Clearance an Employer responsibility? If NOC issuance is delayed, is this force majeure or Contractor liability?	NOC for the construction phase has already been issued from EPD Gilgit-Baltistan.
SP-4	Attabad Lake Hyd Specific Provisions, March 2026 1.11 Mobilization and Demobilization;	Will the contract specify whether equipment pricing is CIF Islamabad, CFR site, or DDP (Contractor pays all duties)? Are	For Equipment Pricing, refer ITP 15.8, “Schedules of Payment for E&M Works (Schedule 1 to 6)” of Proposal forms, Section-IV, Volume-

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	Conditions of Contract reference1-18 hyrdopower Project (54 MW) - EPC Package-III Import duties, taxes, and VAT/GST	import taxes, customs duties, and VAT the Contractor's liability or are they reimbursable by the Employer?	I of RFP/EPC Bidding Document and please refer Sub-Cause 14.4 (Schedule of Payments) of Particular Conditions of Contract Part B, Special Provisions, Section-VIII, Volume-I of RFP/EPC Bidding Document with any Addenda issued thereto For taxes (Local Direct and Indirect Taxes), please refer Sub-Clause 14.1(b) (The Contract Price) of Particular Conditions of Contract Part B Special Provisions, Section-VIII, Volume-I of RFP/EPC Bidding Document.
SP-5	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 §1.13 Contractor Submittals; Conditions of Contract (General) 1-20 Currency split and exchange rate fluctuation risk	What is the currency composition of the contract price (USD/PKR)? If split, what is the mechanism for exchange rate adjustment if the PKR/USD rate changes significantly during mobilization and construction?	For Currency composition of Contract Price, please refer Sub-Clause 14.15 (Currencies for Payment of Contract Price) of Particular Conditions Part A, Contract Data, Section-VIII, Volume-I of RFP/EPC Bidding Document. For Mechanism of Exchange Rate Adjustment, please refer to Sub-Clause 14.4 (Schedule of Payments) of the Particular Conditions, Part B, Special Provisions, Section-VIII, Volume-I of RFP/EPC Bidding Document together with any addenda issued thereto.
SP-6	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.11 Mobilization; Conditions of Contract (not provided in Specific Provisions)1-18 Advance payment percentage and security requirements	What percentage advance payment will be allowed, and under what conditions (e.g., presentation of bank guarantee covering 100-150% of advance)? Is the advance refundable from monthly progress payments?	For Amount and Further Details related to Advance Payment, please refer Sub-Clause 14.2 “Advance Payment” of Conditions of Contract. (Section VII General Conditions and Section VIII Particular Conditions (Part A, Contract Data and Part B Special Provisions) , Volume-I of RFP/EPC Bidding Document) with any addenda issued thereto.

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SP-7	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 §1.11, §1.13 Contractor Submittals; Conditions of Contract 1-18, 1-20 Retention and milestone payment schedule clarity	What is the retention percentage from monthly invoices, and when is it fully released (e.g., at Taking-Over Certificate issuance, or after DNP completion)? Is there interest earned on retention?	•Percentage of Retention Money from each Invoice/Milestone has been mentioned at Sr. No. 31 Sub-Clause 14.3(iii), Part-A Contract Data, Section VIII, Particular Conditions, Volume-I of RFP/EPC Bidding Document For Release of Retention Money Refer to Sub-Clause 14.9 of Section VII General Conditions, Volume-I, RFP/EPC Bidding Document (FIDIC Silver Book 2017 Second Edition Reprinted 2022) and Sub-Clause 14.4 Schedule of Progress Payments Part-B Special Provisions, Section VIII, Particular Conditions, Volume-I of RFP/EPC Bidding Document.
SP-8	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.15.6 Tests on Completion (Schedule section not provided in detail); Conditions of Contract 1-38 onwards Liquidated damages for schedule delay and performance shortfall	What are the liquidated damages rates for schedule delay (e.g., per day per MW output)? Is there a cap on total LD exposure? Are there separate LDs for efficiency shortfall or generation shortfall vs. availability shortfall?	Please refer to Table-1: Time Schedule for Delay Damages for Delayed Completion of Units and Sub-Clause 7.10: Performance Guarantees under Part-B Special Provisions, Section VIII Particular Conditions Volume-I RFP/EPC Bidding Document, for the applicable provisions on delay damages related to unit completion.
SP-9	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.15.3 Testing and Verification of Performance and Guarantees; §1.13.23.1 Factory Acceptance Tests 1-34, 1-38 Performance guarantees for turbine efficiency and generator output	What is the guaranteed minimum turbine efficiency (%) and generator output (MW) at rated head? If shortfall occurs, must Contractor replace turbine at no cost?	The requirements of Sub-Clause 7.10 “Performance Guarantees of Volume-I of RFP/EPC Bidding Document shall prevail.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
SP-10	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.10 Joint Operation and Defect Notification Period; §1.15.2 Tests on Site 1-17, 1-38 Warranty and defect liability period trigger and duration	Does 2-year DNP commence from first Taking-Over Certificate or when all units are operational? Do defects found in 720-hour tests extend DNP?	Refer to Sub-Clause 1.15.2 Tests at Site, Part-I, Specific Provisions, Volume-II of RFP/EPC Bidding Document for Commencement / Start of DNP For extension of DNP, refer to Sub-Clause 11.3 (Extension of Defect Notification Period) of Section-VII General Conditions, Volume-I, RFP/EPC Bidding Document (FIDIC Silver Book 2017 Second Edition Reprinted 2022). Warranty of equipment, if provided more than DNP by the manufacturer, then warranty of manufacturer will prevail.
SP-11	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.6 Provision of Field Camps and Offices; 1.11 Mobilization 1-8 to 1-9, 1-18 Employer-furnished items and site facilities scope	Will WAPDA provide: (a) main access road maintenance and winter snow clearance; (b) grid power connection point and capacity available to contractor camps; (c) water supply from civil works; (d) security perimeter/checkpoints? If Contractor must build all from scratch, what is the estimated cost impact?	Refer to Section 1.6 (Provision of Field Camps and Offices and Operating \Facilities) of Part-I, Specific Provisions, Volume-II of RFP/EPC Bidding Document wherein duties / responsibilities of EPC Contractor have been clearly described. Cost of these facilities shall be borne by EPC Contractor in accordance with Sub-Clause 1.11 (d) (Mobilization Demobilization) of Part-I, Special Provisions, Volume-II of RFP/EPC Bidding Document.
SP-12	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.6.3 Security; 1.6.2 Workforce composition (not explicitly detailed) 1-9 Site security and military clearance for foreign personnel	Who obtains military clearance and ISI/IB security vetting for foreign contractor personnel? How many foreign expats are allowed on-site? What is the timeline for visa processing, and if visas are denied, is this treated as force majeure or Contractor liability?	Refer to Sub-Clause 4.21 (Security of Site) of Part B Special Provisions, Section VIII, Particular Conditions, ,Volume-I of RFP/EPC Bidding Document, security of Foreign Experts shall be responsibility of EPC Contractor.

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SP-13	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 4.2 ESHS Requirements; Table 4-1 Contractor's Staff for ESHS 4-3 to 4 Local content and minimum Pakistani workforce percentage	Is there a mandatory minimum percentage of local GB workforce? Are there targets for hiring from specific districts (Hunza, Nagar)? If targets are missed, what are the consequences (LDs, rejection of workers)?	There is no mandatory minimum percentage or fixed quota prescribed in the RFP/EPC Bidding Document for the engagement of local Gilgit-Baltistan (GB) workforce, nor are there district-specific hiring targets for Hunza, Nagar, or any other district. However, the EPC Contractor shall make all reasonable efforts to utilize the available local workforce from the project area, subject to their suitability, qualifications, and availability for the required trades and skills. Engagement of local labor shall be carried out in accordance with applicable laws, labor regulations, and the EPC Contractor's approved staffing plan
SP-14	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 4.2.3 Organization and Responsibility; Table 4-1 4-3 to 4-4 HSE staffing levels and qualifications HSE	What are the minimum qualifications for each ESHS expert role (degree, certification, field experience)? Are these roles budgeted for the entire construction phase + 2-year DNP, and are costs for these staff included in the Contract Price?	For the minimum Qualification and Experience of the ESHS Experts, please refer to Section 1.3 of Volume-I of RFP/EPC Bidding document (Page No. 3-23). Yes, these roles have been budgeted for the entire construction period + 2-year Defects Notification Period (for DNP, intermittent input only may be considered by the Proposer), and costs for these staff have been included in the Contract Price.
SP-16	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.7 Quality Assurance/Quality Control; §1.13.21 Inspection and Test Plan 1-13 to 1-15, 1-24 Quality Assurance/QC plan approval and hold points	What is the Employer's target turnaround for approving QA/QC plans? If Employer approval is delayed, does the Contractor get schedule extension?	For Employer's target turnaround for approving QA/QC plans refer to Sub-Clause 5.2.2: Review by Employer of Part-B, Special Provisions, Section VIII, Particular Conditions, Volume-I of RFP/EPC Bidding Document. For Extension of Time refer to Sub-Clause 8.5: Extension of Time for Completion Part-B, Special Provisions,, Section VIII, Particular Conditions, Volume-I of RFP/EPC Bidding Document.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
SP-17	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026§1.7 Quality Assurance; 1.11.13.2 NCR definition 1-15, 1-29 Non-Conformance Report (NCR) resolution and closeout	If Employer does not approve NCR closeout, what is the dispute resolution process? Who bears cost of extended rework?	For Resolution of Disputes Refer to Sub-Clause 21.6 Arbitration, Part-B, Special Provisions, Section VIII, Particular Conditions, Volume-I of RFP/EPC Bidding Document. The EPC Contractor shall be responsible for additional cost to correct Non-Conformance Report under Sub-Clause 4.1 (Contractor's General Obligations), Sub-Clause 5.1 (General Design Obligations), Sub-Clause 11.1 (Completion of Outstanding Work and Remedying Defects) and Sub-Clause 11.2 (Cost of Remedying Defects) of Section VII General Conditions , Volume-I, RFP/EPC Bidding Document (FIDIC Silver Book 2017 Second Edition Reprinted 2022).
SP-18	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.14.4 WAPDA/NGC Approvals 1-37 WAPDA/NGC approval timeline for switchyard equipment WAPDA/NGC	What is the expected timeline for NGC approval? If NGC approval is delayed beyond Contractor's control, is this force majeure?	The approval from NGC shall not be required due to non-connectivity of ALHPP power generation with NPCC. The approval from Employer and its authorized representatives shall be mandatory. The same will be updated in upcoming Addendum No. 01 to RFP/EPC Bidding Document.
SP-19	Attabad Lake Hydropower Project (54 MW) - EPC Package Specific Provisions, March 2026 1.13.23.3 FAT; §1.15.3 Testing and Verification of Performance 1-34, 1-39 Testing and commissioning	If during FAT a defect is discovered requiring rework and re-test (adding >10 days), who bears the additional cost? Is there a single allowance for FAT visits (fixed at 40 × 10 days), or is each additional day billable?	The approval from NGC shall not be required due to non-connectivity of ALHPP power generation with NPCC. The approval from Employer and its authorized representatives shall be mandatory. The same will be updated in upcoming Addendum No. 01 to RFP/EPC Bidding Document. 1. The stated approximately forty (40) FAT/Inspection visits are indicative only. The actual number of FAT/Inspection visits may vary depending on manufacturing schedule and equipment readiness. No separate payment shall be made

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			to EPC Contractor for any increase in number of FAT/Inspection visits. 2. Each FAT/Inspection visit shall be for up to ten (10) days including travel days. Actual duration may be shorter or longer depending on test scope. The EPC Contractor shall accommodate reasonable variations without additional cost to the Employer. 3. If any test is required to be repeated due to EPC Contractor's failure or Non-Compliance, all additional costs shall be borne by the EPC Contractor.
SP-21	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.10 Joint Operation and Defect Notification Period; §1.13.23.1 O&M Training 1-17, 1-33 Post-commissioning O&M support and staff duration	What is the minimum Contractor staffing required during 2-year DNP? Minimum numbers for operators, engineers, technicians?	It will be proposed by the Proposer as per requirements specified in RFP/EPC Bidding Document.
SP-22	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.10 JOINT OPERATION AND DEFECT NOTIFICATION PERIOD; §1.8 Environmental Compliance 1-17, 1-16 Defect correction during DNP and scope limits	If structural defect in penstock (Package-I) causes E&M damage during DNP, who is responsible? Clear scope delineation between packages?	The EPC Contractor shall remain responsible for rectifying defects within its own scope at no additional cost to the Employer. Where defects originate from Civil works and have consequential impact on Electro-Mechanical Works equipment, such matters shall be addressed under the responsibilities of the Civil & Auxiliary Services Works EPC Contractor, with coordination facilitated through the Employer to ensure timely resolution.

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SP-23	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.2.1.5 132kV AIS Switchyard (item j: SCADA); General Design Criteria 1-4, 1-36 Intellectual property and source code escrow for SCADA/protection systems	Will the Contractor be required to provide source code and documentation for SCADA/Protection system software in escrow? If the OEM restricts source code access, what is the Contractor's obligation to the Employer for O&M continuity post-DNP?	The EPC Contractor shall not be required to deposit or provide the source code of the SCADA system software in ESCROW, unless otherwise expressly stated in the Contract. The EPC Contractor shall ensure that the SCADA system (Hardware / Software shall be delivered with open architecture, enabling the Employer (or any third party engaged by the Employer) to perform routine O&M and Troubleshooting etc. The EPC Contractor shall ensure that no proprietary restrictions (including licensing limitations) hinder the Employer's long-term use of the SCADA system.
SP-24	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.3 Detailed Design and Planning; Conditions of Contract (not provided) 1-5 Change orders and variation approval process	Will the Contractor be required to submit a 'Schedule of Rates' for extra work items (e.g., additional transformer bay, extra cable tray)? If Employer-requested changes occur during construction, what is the approval and billing mechanism?	Any deviations from the requirements stated in Volume- II, Part-I, Part-II and Part-III will be dealt in accordance with Clause 13 (Variation and Adjustment) of Section VII General Conditions, Volume-I, RFP/EPC Bidding Document (FIDIC Silver Book 2017 Second Edition Reprinted 2022).
SP-25	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 Conditions of Contract (not provided in Specific Provisions) N/A Dispute resolution mechanism and governing law	Will disputes be resolved through international arbitration (ICC, LCIA) or local Pakistan arbitration? If international arbitration, what is the language, venue (Switzerland, Pakistan), and seat of arbitration?	Refer Sub-Clause 21.6 Part A, Contract Data, Section VIII, Particular Conditions, Volume-I of RFP/EPC Bidding Document

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SP-26	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 Conditions of Contract (not provided); General Provisions N/A Force majeure definition and delay compensation	Will winter road closure (Oct-May) be treated as force majeure entitling the Contractor to schedule extension with no LD, or is this a known site condition the Contractor must plan around?	The Proposers are deemed to have informed themselves of all local conditions, including accessibility constraints, climatic conditions, and seasonal restrictions, prior to submission of their Proposals (Sub-Clause 4.10 (Use of Site data) and Sub-Clause 4.12 (Unforeseeable Difficulties) of GCC), in accordance with the Instructions to Proposers and Conditions of Contract. Force Majeure events shall be administered in accordance with Clause 18 (Exceptional Events) of the Conditions of Contract.
SP-27	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.11 Mobilization and Demobilization; §1.13 Contractor Submittals 1-18, 1-20 Mobilization cost and advance payment linkage	If mobilization cost is estimated at 12% of contract value, what advance payment (%) will be available before site mobilization begins? Is there a milestone-based draw schedule (e.g., 10% on NTP, 5% on camp completion)?	Refer to 14.2 (Advance Payment) Part A and Part B of Section-VIII Particular Conditions ,Volume-I, RFP/EPC Bidding Document
SP-28	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.2.1.2 Power Intake; 1.2.1.4 Draft Tube 1-3 to 1 -Interface with Package-II Hydro- Mechanical works	What are the specific interface points between E&M (Package-III) and hydro-mechanical (Package-II) works? Clear responsibility matrix for interface defects?	**Package-I** scope of works comprises on the following systems: -Civil works of Project -Penstock -Auxiliary systems (HVAC, Lighting and small power, firefighting and fire detection and alarm system, Sewage system, Elevators, Potable water system, Grounding system, Distribution system for colony etc) **Package-II** Scope of works comprises on the following systems: -132 kV Transmission Line including Remote bays at Sost and Aliabad Regional Grid. **Package-III** Electro-Mechanical works comprises on the following systems: All hydro mechanical equipment (Turbine, Generator, Governor, Unit Auxiliaries, MIV, Generator step up

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			transformer, Auxiliary T/F, and other associated systems) and hydraulic steel structures mentioned in Volume-II. **Package-IV** comprises on the following systems: Civil Works for Overflow Weir and Landslide Slope Treatment. Also, note that weir is ungated, no E&M equipment shall be installed.
SP-30	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.14.4 WAPDA/NGC Approvals; 2.3 General Electrical Requirements 1-37, 2-48 Metering and tariff metering point definition	Where will the official generation metering point be located (primary/secondary of step-up transformer, or 132 kV line)? Who will own and maintain the metering equipment post-commissioning?	Tariff metering shall be installed at the 132 kV side (grid interface) of the generator step-up transformer within the 132 kV switchyard. Please refer to Section 6.3.14 of Technical Provisions, Part-II, Volume-II of RFP/EPC Bidding Document of Package-III. Also refer to Conceptual Drawing No. ALHPP-SY-0601, attached in Employers Requirement., Volume-II, Part-III.
SP-31	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.6.2 Workforce; 4.2.4 ESHS Reporting 1-8 to 1-9, 4-5 Subsistence allowance rates and work hour regulations	What are the daily subsistence allowance rates for contractor employees (foreign and local)? Must the Contractor comply with Pakistani labor law work-hour restrictions (8 hrs/day, 40 hrs/week)?	Subsistence Allowance rates for Contractor Employees shall be as per Contractor's Firm Rules. Refer to Sub-Clause 1.1.43 (Laws) of Part B Special Provisions of Section VIII Particular Conditions, Volume-I of RFP/EPC Bidding Document for applicable laws.
SP-32	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.13 Contractor Submittals; 1.13.23.5 O&M Manuals1-20, 1-35 Document submission language and reproduction	Should critical O&M and safety procedure documents be translated to Urdu for non-English speaking site staff to ensure safety compliance?	All Operation and Maintenance Manuals, Training Materials, and related submittals shall be prepared and submitted in English, both in hard copy and electronic formats as well, as specified in the RFP/EPC Bidding Document. The number of copies shall follow Table 1-1 requirement (e.g., (04) copies for review, six (06) copies for final issue, Ten (10) copies for O&M Manuals). No translation of these documents into other languages will be required;

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			English shall remain the official language for documentation and training.
SP-34	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 4.2.3 Organization and Responsibility (Note on C&D waste) 4-4 Environmental waste management responsibility and cost	Are C&D waste disposal costs included in the lump-sum contract price, or are they to be reimbursed separately by the Employer? Does this include hazardous waste (oils, solvents, batteries)?	C&D waste disposal cost including the hazardous waste must be included in the overall cost presented by the EPC Contractor.
SP-35	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.15.6 Tests on Completion; Conditions of Contract1-41 Taking-Over Certificate issuance criteria and partial TO	What constitutes a "minor defect" that does not prevent issuance of Taking-Over Certificate? Will partial TO certs be issued when each unit completes 720-hour tests, or only when all units are synchronized?	The EPC Contractor shall be fully responsible for the Testing and Operation of all Project equipment, systems, and facilities until the issuance of the associated Taking-Over Certificate.
SP-36	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.10 Joint Operation and Defect Notification Period 1-17 Commercial Operation Date definition and payment trigger	What is the exact definition of Commercial Operation Date (CoD)? Is it the first unit's synchronization with the grid, or the commissioning of all three units? Does final retention payment depend on CoD or on formal Taking-Over Certificate?	The EPC Contractor shall be fully responsible for the Testing and Operation of all Project equipment, systems, and facilities until the issuance of the associated Taking-Over Certificate.

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SP-37	Attabad Lake Hydropower Project (54 MW) - EPC Package-III Specific Provisions, March 2026 1.14 General Design Criteria; §3.1 General (Section 3 Basic Design Criteria)1-36, 1-37 Design standards selection and approval process	If the Contractor proposes using Chinese (GB/T) standards for steel or valves instead of ASME/ISO, what is the approval turnaround, and will WAPDA accept equivalent standards, or only internationally-recognized ones?	As per RFP/EPC Bidding Document, only International Standards shall be adopted for this Project
Feasibility Review Report (2022)			
FRR-1	2026-03-11 PKG III VOLIII PART II (FRR) (5-21 to 5-24) Geotechnical – Weir foundation treatment unclear and risky	FRR §5.5.2 identifies unresolved weir foundation issues including risks of excavation-triggered landslides, impracticality of clay blanket placement, and finalization of cutoff wall method. Will the Employer confirm the preferred foundation treatment approach before EPC bidding, or will contractor bear the cost/risk of modifying the design if geotechnical conditions worsen during construction?	It has been clarified that Civil Works related to the Overflow Weir and Landslide Slope Treatment do not fall under the scope of Package-III: Electro-Mechanical Works. The detailed design for Overflow Weir & Landslide Slope Protection Works have been included in Package-IV, which is being undertaken by AHMC and the detailed design studies is currently in progress.
FRR-2	2026-03-11 PKG III VOLIII PART II (FRR) §5.3.2, §5.4 (Pages 5-16 to 5-20) 5-17 to 5-20 (Geotechnical Insufficient subsurface investigations recommended before detailed design.)	FRR §5.4 recommends additional boreholes (BH-7 to BH-12) and extensive laboratory testing before detail design. Will the Employer fund and complete these investigations before EPC contract signature, or must the EPC Contractor conduct them at its own cost during detail design? What is the timeline?	It has been clarified that any Additional / Geotechnical investigations specifically required for the installation of Electro-Mechanical equipment under Package-III shall be carried out by the EPC Contractor at its own risk and cost, in accordance with Sub-Clause 1.13.18 of the Specific Provision Volume-II, Part-I of RFP/EPC Bidding Document. However, Geotechnical Investigations related to overall Site Stability, Civil Structures, or foundations fall under the scope of the Package-I: Civil & Auxiliary Services Works EPC Contractor and are not part of Package-III: Electro-Mechanical Works.

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FRR -3	2026-03-11 PKG III VOL-III PART II (FRR) §6.2, §6.3 (Page 6-1) 6-1 Seismic design parameters unfinalized and require	FRR §6.2-6.3 notes that seismic design parameters (SEE, OBE) are preliminary and require finalization via detailed site-specific seismic hazard assessment, geologic fault mapping, and geophysical surveys. Will the Employer provide updated seismic parameters before EPC design, or must EPC Contractor conduct these studies and bear cost/schedule risk?	It has been clarified that finalization of seismic design parameters, including site-specific hazard assessment, geologic fault mapping, and geophysical surveys, falls under the scope of the Package-I: Civil and Auxiliary Services Works EPC Contractor and are not part of Package-III: Electro-Mechanical Works. The Package-I EPC Contractor will carry out these design studies during the engineering stage.
FRR -4	2026-03-11 PKG III VOL-III PART II (FRR) §7.5.1 (Pages 7-10 to 7-12) 7-10 to 7-12 Fault zones in tunnel alignment require clarification before excavation	FRR §7.5.1 indicates a fault zone 'assumed' in the headrace tunnel at middle section, but KKH tunnel drawings from parallel section show no fault and only moderately weathered gneiss. Which is correct? Will Employer provide geologic mapping and core data to confirm fault presence/absence before tender, or does EPC Contractor assume design risk for unknown conditions?	Volume-III of the RFP/EPC Bidding Document has been provided as supplementary information to guide proposers. The responsibility for updated geological mapping and confirmation of subsurface conditions rests with the Package-I EPC Contractor (Civil and Auxiliary Services Works), to be undertaken during their detailed investigations.
FRR -5	2026-03-11 PKG III VOL-III PART II (FRR) §5.5.2, §7.5.1 (Pages 5-22 to 5-24, 7-10 to 7-15) 5-23; 7-10 to 7-15 Slope stability at surge tank, penstock intake portal, and powerhouse not fully analyzed	FRR Sub-Section 5.5.2 and Sub-Section 7.5.1 identify multiple slopes with incomplete stability analysis: surge tank (no borehole data), intake area, power tunnel portal (sheared rock in seismic zone), and penstock upper reach. Will Employer fund slope stability studies before tender, or does EPC Contractor design at risk with incomplete geotechnical data?	It has been clarified that slope stability analysis at the Surge Tank, Penstock, Intake Portal, and Powerhouse locations do not fall under the scope of Package-III Electro-Mechanical Works. These investigations and analysis will be undertaken during the engineering stage of Package-I Civil and Auxiliary Services Works, as part of the Level-I and Level-II design responsibilities of the Package-I EPC Contractor.
FRR -6	2026-03-11 PKG III VOL-III PART II (FRR) §4.6, §9.5 (Pages 4-16 to 4-30, 9-3 to 9-5) 4-30; 9-5 Design flood determination: 20-year vs 10,000- year; GLOF not finalized	FRR §4.11 recommends design flood minimum of 10,000-year return period or GLOF (whichever is greater), but Feasibility Study selected Q20. Also, spillway capacity calculations (~3210 m^3/s) are marginal vs design flood (3250 m^3/s). Will Employer confirm which design flood	The design flood was adopted as the 10,000-year return period flood, with peak inflow of 3320 cumecs based on the hydrological dataset up to Year 2015. Reservoir routing yielded an outflow of about 3152.8 cumecs, reflecting normal flood attenuation. As noted in the Feasibility Review Report, the EPC Contractor of

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		standard applies and provide GLOF estimate before tender, or does EPC assume risk of design modification?	Package-I: Civil and Auxiliary Services Works will carry out the detailed GLOF assessment and hydrological studies during the detailed design stage. The check flood shall not be less than the 10,000-year return period flood or the GLOF event, whichever is higher, ensuring spillway safety and reliability under climate change considerations.
FRR -7	2026-03-11 PKG III VOL-III PART II (FRR) §4.11, §7.5.2 (Pages 4-30, 7-13 to 7-15) 4-30; 7-13 to 7-15 Sediment load and flushing strategy unresolved; tunnel vs undersluice choice pending	FRR §7.5.2 proposes replacing original under-sluices with a new flushing tunnel design, but explicitly states tunnel diameter, discharge capacity, and effectiveness 'must be determined with hydraulic model study'. Will Employer fund this model study before tender and confirm flushing strategy, or must EPC Contractor design and test the flushing tunnel concept at its cost, bearing risk of inadequate sediment removal?	It has been clarified that sediment load assessment and sediment flushing strategy, including the proposed sediment flushing tunnel and related hydraulic model studies, fall under the scope of the Package-I; Civil and Auxiliary Services Works EPC Contractor. The Package-I EPC Contractor will carry out the required design development, revalidation, and testing during the engineering stage as part of their Level-I and Level-II design responsibilities. These technical matters are not part of Package-III: Electro-Mechanical Works.
FRR -8	2026-03-11 PKG III VOL-III PART II (FRR) §8.5, §11.1.5 (Pages 8-37, 4-376 to 4-379) 8-37; 4-376 to 4-379 Turbine efficiency: 91.5% vs 93% - cost and capacity impact	FRR §8.5 recommends 93% turbine efficiency vs Feasibility Study's 91.5%, potentially increasing capacity to 57 MW. Will Employer confirm which efficiency and turbine capacity specification applies to the tender: 54 MW at 91.5%, or ~57 MW at 93%? How does this affect generator, transformer, and switchyard equipment sizing?	The Turbine Efficiency must comply with the requirements of RFP/EPC Bidding Document. The efficiency of vertical Francis Turbine shall be 93% as mentioned under Sub-Clause 1.16.2.1.5 Key Technical Parameters of Turbines, Volume-II: Employer's Requirements Part-I: Specific Provisions.
FRR -9	2026-03-11 PKG III VOL-III PART II (FRR) §11.1.3 (Pages 4-899 to 4-905) 4-902 to 4-903 Turbine shaft design standard conflict: Indian Standard vs ASTM	FRR §11.1.3 recommends ASTM A668 Class D for turbine shaft instead of Indian Standard (IS 12837, IS 12800). Which standard will the Tender Specifications require? Also clarify coupling arrangement: are turbine and generator shafts separate or	As per RFP/EPC Bidding Document only International Standards shall be adopted for this Project. No Indian standard will be allowed

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		coupled? What are implications for turbine procurement and cost?	
FRR -10	2026-03-11 PKG III VOL-III PART II (FRR) §8.4.1, §8.4.2, §8.4.3, §8.5 (Pages 8-7 to 8-37) 8-7 to 8-37 Number of generating units uncertain: 2, 3, or 4 units	FRR §8.4 presents energy calculations for 2-, 3-, and 4-unit options, endorsing 3-unit (54 MW total) as 'most optimized' but providing alternative scenarios. Will Tender Specifications fix the number of generating units at 3, or may EPC Contractors propose 2- or 4-unit alternatives with equivalent capacity?	Please comply with the specifications and requirements set forth in the RFP/EPC Bidding Document.
FRR -11	2026-03-11 PKG III VOL-III PART II (FRR) §9.4.1, §9.4.2 (Pages 9-2 to 9-5) 9-3 to 9-4 Weir/spillway discharge capacity margin inadequate vs design flood	FRR §9.4.1 calculates total spillway/under-sluice discharge capacity as ~3210 m³/s vs design flood of 3250 m³/s, a shortfall of ~40 m³/s. FRR notes 'marginal capacity'. Will Employer confirm whether this capacity is adequate, or must spillway be redesigned to accommodate higher flood discharge with safety margin?	The observed difference between inflow (3250 cumecs) and outflow (3210 cumecs) is attributed to flood attenuation within the reservoir (Attabad lake), whereby part of the flood volume is temporarily stored, resulting in a reduction of peak discharge and a corresponding rise in maximum water level. This is a normal and expected hydraulic response of reservoir routing. Furthermore, it has been clearly stated in the Feasibility Review Recommendation, that the detail hydrological study would be taken up by EPC Contractor of Package-I: Civil and Auxiliary Services Works during the detailed design stage, that would be based on updated hydrological data, elevation area capacity based on Year 2025 hydrographic survey and revised spillway rating to ensure to pass the selected design and check flood safely over the weir structure.

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FRR -12	2026-03-11 PKG III VOL-III PART II (FRR) §7.5.2 (Pages 7-15 to 7-16) 7-15 to 7-16 Powerhouse location and orientation: original vs proposed (surface vs underground)	FRR §7.5.2 proposes moving powerhouse to higher ground vs original riverside location, and mentions underground powerhouse as seismically superior alternative. Which powerhouse location/type will Tender Specifications require: original riverside surface location, elevated surface location, or underground? What are cost/schedule implications of each option?	It has been clarified that the location and orientation of the Powerhouse, whether surface or underground, fall under the scope of the Package-I: Civil and Auxiliary Services Works EPC Contractor. The Package-I EPC Contractor will revalidate the selected layout during the engineering stage and present the corresponding technical and economic analysis as part of the Level-I and Level-II design responsibilities.
FRR -13	2026-03-11 PKG III VOL-III PART II (FRR) §5.5.2, §11.9 (Pages 5- 22 to 5-24, 4-641 to 4-643) 5-23; 4-642 Penstock design contradictions: piers vs trench; material specification missing	FRR §5.5.2 notes contradictions in penstock design between sections (pier vs trench vs anchor blocks) and §11.9 identifies missing penstock material specification. Recommend ASTM A516 Gr-70. Will Tender Specifications clarify penstock support method (piers, trench, or anchored) and confirm material standard before bidding?	Please comply with the specifications and requirements set forth in the RFP/EPC Bidding Document.
FRR -14	2026-03-11 PKG III VOL-III PART II (FRR) §14 (Cost Estimates), §6.5 (Equipment Costs) (Pages 6-510 to 6-545) 6-525 to 6-540 Hydroelectric equipment cost estimates contain major gaps and unquantified risks	FRR notes cost estimates based on March 2021 rates and contain missing items (intake stoplogs, weir gates, spare parts, workshop equipment). FRR recommends 'detailed cost estimates' vs thumb-rule approach. Will Employer issue updated cost baseline reflecting FRR-proposed changes (alternative layout, flushing tunnel, powerhouse relocation) and 2026 prices before tender?	Please refer to Volume-I and Volume-II of RFP/EPC Bidding Document.
FRR -15	2026-03-11 PKG III VOL-III PART II (FRR) §12 (Electrical), §14 (Switchyard) (Pages 5-862 to 6-340) 5-887 to 5-968; 6-118 to 6-180 Electrical specifications incomplete: transformer	FRR §12 and §14 identify extensive missing electrical specifications: layout drawings, equipment standards (IEC/IEEE/BS/ASTM), cable parameters, MCCs, CT/PT details, tariff metering, SCADA/fiber optic requirements. Will Employer issue updated electrical design basis/technical	Please follow the Technical Specifications as well as Volume-II: Employer's Requirements Part-III: Conceptual Drawings of RFP/EPC Bidding Document.

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	ratings, cable parameters, standards missing	specifications before tender, or must EPC Contractor define these details at risk?	
FRR -16	2026-03-11 PKG III VOL-III PART II (FRR) §12.10 (Pages 5-951 to 5-977) 5-951 to 5-967 Transformer technical details and ratings unresolved	FRR §12.10 identifies transformer specification issues: (1) 22 MVA rating is 'not standard' and may not align with turbine capacity change (54 vs ~57 MW); (2) recommends ON-Load Tap Changer vs feasibility's OFF-Load (cost impact); (3) Dry Type auxiliary transformers recommended; (4) vector group missing; (5) impedance review needed. Will Tender Specifications be updated to reflect these recommendations?	Please follow the Volume-III Part-II Technical Specifications as well as Volume-II: Employer's Requirements Part-III: Conceptual Drawings.
FRR -17	2026-03-11 PKG III VOL-III PART II (FRR) §12.18, §13 (Transmission Line) (Pages 6-118 to 6-425) 6-118 to 6-425 132 kV Switchyard and transmission line capacity/voltage coordination unresolved	FRR §12.18-13 notes switchyard location unfinalized, transformer MVA rating dependent on colony load (data unavailable), and transmission line configuration to be decided by T/L expert. These are interdependent: if T/L capacity changes, switchyard equipment must be revised. Will Employer finalize switchyard location, load requirement, and T/L configuration before tender, or must EPC Contractor design at risk?	Please comply with the specifications and requirements set forth in the RFP/EPC Bidding Document.
FRR -18	2026-03-11 PKG III VOL-III PART II (FRR) §12.16, §12.17 (Pages 6-329 to 6-363) 6-329 to 6-363 SCADA and communication system details missing; fiber optic requirements unspecified	What is the final specification and cost allocation for fiber optic SCADA link, CCTV, internet, and LAN systems before tender?	All Specifications have been stated in Volume-II, Part-II (Technical Provisions) of RFP/EPC Bidding Document.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
FRR -19	2026-03-11 PKG III VOL-III PART II (FRR) §11 (Environmental & Social), §3.6 (Pages 7-273 to 7-401) 7-282 to 7-401 Environmental and resettlement impact assessment incomplete; land acquisition status unclear	FRR §11 identifies land acquisition as 'critical issue' not adequately covered, resettlement framework incomplete, and operational environmental management plan missing. Will Employer confirm land acquisition status, provide resettlement action plan, and specify seasonal construction restrictions before tender? What cost/schedule impact on EPC works?	All land acquisition and resettlement shall be completed by the Employer before EPC Contractor mobilization at site under Package-I. Compensation payment to the locals for their land acquisition will be the responsibility of Employer, and the EPC Contractor has no resettlement obligations. For Environmental Management Plan please refer to Table 9-1 of the EIA Report.
FRR -20	2026-03-11 PKG III VOL-III PART II (FRR) §5.6 (Pages 5-26 to 5-27, 3-413 to 3-481) 5-26; 3-413 to 3-481 Concrete aggregate and borrow material sources not confirmed; aggregate quality testing limited	FRR §5.6 notes aggregate quality testing is limited, fine aggregate testing incomplete, and sources require confirmation. Recommends ASR testing per ASTM C1260 and C295. Will Employer identify and confirm all borrow areas, quarries, and cement sources before tender, with distance/haul cost data? Or must EPC Contractor select sources during detail design at risk?	It has been clarified that identification and confirmation of borrow areas, quarries, and cement sources will be undertaken by the Package-I: Civil and Auxiliary Services Works EPC Contractor.
FRR -21	2026-03-11 PKG III VOL-III PART II (FRR) §4.5, §4.11, §9.2 (Pages 4-6 to 4-30, 9-1 to 9-2) 4-8; 4-30; 9-2 Hydrological data outdated: flows study limited to 1966-2015; 2022 flood event not incorporated	FRR §4.11 notes flow study covers 1966-2015 (missing 3 years of recent data) and recommends flows study 'need to be revised/updated during detail design'. Also notes 2022 flood event should be considered. Will Employer fund hydrological update including 2022 flood and recent climate trends before tender, or must EPC Contractor conduct study at its cost?	The flood estimation has been updated using the extended hydrological dataset (1966–2024), and the corresponding peak inflow for the 10,000-year return period has been determined as 3250 cumecs. The flood routing shall be recomputed during the detailed design stage using the updated elevation–area–capacity curves derived from the 2025 topographic and hydrographic surveys, along with the revised spillway rating curve. This analysis will be used to determine the outflow discharge through the spillway and the corresponding maximum flood level rise within the

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
FRR -22	2026-03-11 PKG III VOL-III PART II (FRR) §4.5.3, §8.2 (Pages 4-13 to 4-15, 8-3 to 8-5) 4-13 to 4-15 Winter flow minimums and minimum flow for turbine operation unconfirmed	FRR §8.2 notes design discharge 60 m³/s available ~6 months; winter flows (Dec-April) are significantly lower. Feasibility mentions turbine operational 'certain limit of low flows' but specific value not stated. Will Employer confirm minimum winter flow data and turbine minimum operational discharge threshold before tender? How does this affect winter generation forecasts?	The hydrological analysis on a daily basis has already incorporated in the Feasibility Review Report (FRR), Volume-III, Part-III of RFP/EPC Bidding Document.
FRR -23	2026-03-11 PKG III VOL-III PART II (FRR) §7.5.2 (Pages 7-13 to 7-17) 7-13 to 7-17 Alternative layout proposal creates design and cost uncertainty: not final	2026-03-11 PKG III VOL- III PART II (FRR) §7.5.2 (Pages 7-13 to 7-17) 7-13 to 7-17 Alternative layout proposal creates design and cost uncertainty: not final	The EPC Contractor of Package-I: Civil and Auxiliary Services Works will revalidate the selected Project layout during the engineering stage and present the corresponding cost analysis as part of the Level-I and Level-II design responsibilities.
FRR -24	2026-03-11 PKG III VOL-III PART II (FRR) §5.5.1 (Pages 5-21 to 5-22) 5-21 to 5-22 Rock permeability test incomplete; one borehole shows 100% water loss	FRR §5.5.1 reports extremely high permeability at weir area (100% water loss in BH-01) and recommends Lugeon tests at intake/surge tank during detail design. This affects seepage control, grouting strategy, and foundation treatment cost. Will Employer fund Lugeon testing and confirm seepage control approach before tender?	It has been clarified that geotechnical investigations concerning rock permeability, seepage control, and foundation treatment are part of the Package-I: Civil and Auxiliary Services EPC Contractor's responsibilities and do not fall under Package-III Electro-Mechanical Works. Any investigations required solely for Electro-Mechanical equipment installation under Package-III shall be carried out by the EPC Contractor at its own risk and cost, in line with Sub-Clause 1.13.18 of the Specific Provisions, Volume-II of the RFP/EPC Bidding Document.
FRR -25	2026-03-11 PKG III VOL-III PART II (FRR) §7.5.1 (Pages 7-9 to 7-10) 7-9 to 7-10 Construction access and roads - KKH tunnel	FRR §7.5.1 notes headrace tunnel is 65 m perpendicular distance from KKH tunnel at surge tank, and proposes construction via adit with temporary rock plug. Construction access details (road conditions, load limits, KKH coordination, traffic impact) not	The construction of access arrangements, including route selection, road conditions, and traffic management, fall within the scope of the Package-I: EPC Contractor. The EPC Contractor of Package-I will be responsible for providing and maintaining the required access

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	proximity and load limits unspecified	specified. Will Employer confirm access route, load-carrying capacity, and KKH traffic management plan before tender?	route and coordinating with relevant authorities to ensure safe construction and traffic management in line with standards specified in Package-I RFP/EPC Bidding Document.
FRR -26	2026-03-11 PKG III VOL-III PART II (FRR) §4.3 (Pages 4-3 to 4-5) 4-3 to 4-5 Climate and meteorological data incomplete; snow/rainfall/temperature ranges not finalized	FRR §4.3 notes climate data from Skardu/Gilgit stations (not site-specific) and wind speed assumed at 100 km/hr. No site-specific temperature extremes, snow conditions, or rainfall intensity for construction planning. Will Employer provide one year of site- specific meteorological data (temperature, wind, snow, rainfall) before tender to support construction planning?	The Employer has provided climatological data in Sub-section 4.3 of the Feasibility Review Report pursuant to Sub-Clause 2.5 (Site Data and Items of Reference) of the Section VII General Conditions. (Climatology) Volume-I, RFP/EPC Bidding Document. Notwithstanding the foregoing, pursuant to Sub-Clause 4.10 (Use of Site Data) and Sub-Clause 4.12 (Unforeseeable Physical Conditions) of Section VII General Conditions, Volume-I RFP/EPC Bidding Document, the Proposer shall be solely responsible for obtaining and satisfying itself as to all data and information necessary for the execution of the Works.
FRR -27	2026-03-11 PKG III VOL-III PART II (FRR) §11 (Environmental & Social) (Pages 7-273 to 7-282) 7-273 to 7-282 Environmental flow requirement and post-construction environmental monitoring not detailed	FRR §11 notes environmental management plan for operational phase 'missing' and minimum environmental flow requirement not specified. Will Employer define minimum instream flow requirement and post-construction environmental monitoring protocol (responsibility, cost, duration) before tender?	Minimum environmental flow requirements have been referenced in Section 8.4.2.3 of the EIA Report as Volume-III, Part-IV, Additional Information of RFP/EPC Bidding Document. The Environmental Management Plan (EMP) has been provided in Table 9.1 of the EIA Report as Volume-III, Part-IV, Additional Information of RFP/EPC Bidding Document and will be finalized during detailed design and Employer's review in line with applicable regulatory standards.
Environmental Impact Assessment (EIA) Report			

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
EIA-1	EIA Report, Chapter 2.3, Section 9.6.1 Compliance Procedure for Obtaining NOC from GB EPA Page 2-9, 9-6 NOC and Environmental Approval Responsibility	Q1: Will the Employer (WAPDA) obtain all environmental NOCs (from EPA, Forest, Wildlife, Archaeology departments) before invitation to bid, or will the Contractor be required to obtain subsidiary NOCs during detailed design/mobilization? Who pays for these subsidiary NOC applications?	The Employer shall be responsible for obtaining all NOCs. In case EPC Contractor will be obtaining any NOC, the payment of said NOC will be paid by the Employer to the EPC Contractor.
EIA-2	EIA Report, Chapter 9.1-9.4 Environmental Management Plan - General and Institutional Setup Page 9-1 to 9-5 Environmental Management Plan (EMP) Amendment and Ownership	Q2: Who has final approval authority for amendments to the EMP during construction (MC, WAPDA, GB EPA, or Contractor)? What is the approval timeline? If GB EPA or WAPDA initiates EMP changes during construction, is the Contractor responsible for implementation costs, or are they treated as variations?	The Employer will approve the amendments to the EMP. The approval time for the amendments to the EMP will be Two (02) weeks.
EIA-3	EIA Report, Section 9.8-9.12, Table 9-4 Environmental Monitoring Plan and Cost Breakdown Page 9-57 to 9-75 Environmental Monitoring Costs and Responsibility	Q3: Will the Contractor be required to fully fund all environmental monitoring costs (PKR 98.49M for 3-year construction phase) listed in Table 9-4? Are MC's HSE and environment personnel (PKR 6M/year) costs the responsibility of the Contractor or the Employer? Will third-party monitoring costs be Contractor's direct expense, and will rates be adjusted for inflation annually?	Yes, the EPC Contractor will be responsible for all environmental monitoring costs, Environment staff cost and third-party monitoring cost. The Proposals shall be prepared as per the best estimation of inflation to avoid any claims.
EIA-4	EIA Report, Section 9.4.2(d), Section 9.6.1 GB EPA Responsibilities and NOC Conditions Page 9-5, 9-6 Environmental Permit Conditions and GB EPA Audit Authority	Q4: What specific conditions, limits, and compliance thresholds will be attached to the NOC issued by GB EPA? Can GB EPA impose new conditions or modify NOC terms after construction has commenced? What is the procedure and timeline for Contractor to remedy non-compliance findings from GB EPA audits, and who bears the cost of remedial actions?	This issue has been at the sole discretion of GBEPA which is an independent authority, beyond the control of Employer (WAPDA). Any cost and time shall be borne by the EPC Contractor.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
EIA-5	EIA Report, Section 5.2.12, 8.5.1(iv), 9.7 (Table 9-1, Item 11) Air Quality Monitoring and Mitigation Page 5-17, 8-50 to 8-52,9-60 Dust and Air Quality Standards and Monitoring Frequency	Q5: What are the specific quantified dust limits (PM10 and PM2.5 in mg/m³) that the Contractor must comply with under NEQS? What is the monitoring frequency (quarterly as per Table 9-4 or more frequent)? If air quality monitoring shows non-compliance, who has authority to declare exceedance, what corrective actions must Contractor implement within what timeframe, and what are the financial penalties for non-compliance?	Please refer to the NEQS attached with these responses to Post-Proposal Clarification No. 01 by Proposer for the compliance limits. The monitoring frequency shall be quarterly as per the EIA. Exceedance shall be declared by GBEPA, Employer. The corrective actions will be taken as per the instructions of the Employer. The penalties shall be decided as per the nature of exceedance.
EIA-6	EIA Report, Section 5.2.12, 8.5.1(xi), 9.7 (Item 11), Annex-VI(KPI) Noise and Vibration Mitigation and Monitoring Page 5-17, 8-57 to 8-62 Noise Limits and Vibration Standards Near Sensitive Receivers	Q6: What are the specific noise limits (in dB(A)) that the Contractor must meet near sensitive receivers (schools, mosques, residences) per NEQS? Are separate vibration limits specified (in mm/s or peak particle velocity)? Will the Contractor be required to conduct baseline noise and vibration measurements before mobilization? What is the procedure if monitoring shows exceedance—who declares it, what is the remedial timeline, and what are the penalties?	Please refer to the NEQS attached with these responses to Post-Proposal Clarification No. 01 by Proposer for the compliance limits. For vibration limits please consider the IFC guidelines. Yes, the EPC Contractor shall conduct baseline noise and vibration monitoring. The exceedance shall be declared by GBEPA, Employer. The corrective actions will be taken as per the instructions of the Employer. The penalties shall be decided as per the nature of exceedance.
EIA-7	EIA Report, Section 3.10.6, 8.5.1(vii), 9.7 (Item 7) Wastewater Generation and Treatment Page 3-17, 8-37 to 8-47, 9-22 Wastewater Treatment and Discharge Standards	What are the specific quantified NEQS standards (BOD, TSS, fecal coliforms, pH in mg/L) and monitoring frequency (daily/weekly/monthly) for wastewater discharge? Who is responsible if septic systems fail or overflow during heavy rains?	Please refer to the NEQS attached with these responses to Post-Proposal Clarification No. 01 by Proposer for limits. Whereas monitoring frequency shall be as per the EIA report. The septic system failure and operations shall be the responsibility of the EPC Contractor.
EIA-8	EIA Report, Section 3.10.6, 8.5.1(viii), 9.7 (Item 8), 9.33 Solid Waste Management and Waste Disposal Sites Page 3-17, 8-48 to 8-63,	Who designates and provides the construction waste disposal site(s)—Employer or Contractor? What are the tipping/disposal fees (if any) and who bears the cost?	The EPC Contractor will designate and provide the construction waste disposal site(s) for approval by the Employer/ . The EPC Contractor will estimate required cost and include in its Proposal Price.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	9-67 Construction Waste Disposal Sites and Tipping Fees		
EIA-9	EIA Report, Section 3.10.2, 8.5.1(ii), 9.31, 9.32 Borrow Area Management and Restoration Plan Page 3-15, 8-38 to 8-43, 9-66 Borrow Pits and Quarry Restoration Obligations	Will the Employer designate borrow pit and quarry sites, or will the Contractor identify and acquire them? Who owns/controls the land—Employer, Contractor, or private owners?	The concerns of the E&M Contractor regarding borrow pits and quarry sites are noted. The Environmental Impact Assessment (EIA) Report covers the entire Project, including Civil Works and Transmission Line Works. Matters pertaining to borrow pits and quarry sites as addressed in the EIA Report relate to the scope of the Contractor responsible for Civil Works and do not fall within the scope of the E&M Contractor.
EIA-10	EIA Report, Section 8.5.1(v), 8.5.1(viii), 9.39, Annex-IV (HSE Plan) Hazardous Waste and Good Engineering Practices Page 8-48 to 8-63, 9-70 EIA Report, Section 8.5.1(v), 8.5.1(viii), 9.39, Annex-IV (HSE Plan) Hazardous Waste and Good Engineering Practices Page 8-48 to 8-63, 9-70	Who arranges and approves disposal of hazardous waste (used oil, batteries, solvents)—the Contractor independently or must approval be obtained from environmental/regulatory authority? What is the prescribed disposal method and final disposal location?	The disposal of hazardous waste is carried out by the EPC Contractor through GBEPA approved vendors and/or after the approval from Employer. The EPC Contractor shall provide the details of disposal method and final disposal location in detailed design.
EIA-12	EIA Report, Section 3.7.12, 8.5.1(i), 9.32 Restoration and Rehabilitation Plan Page 3-7, 8-36 to 8-37, 9-67 Camp Decommissioning and Restoration	Q11: What specific restoration standards must be met for construction camps and compound sites (e.g., topography restoration, soil clean-up criteria, surface testing requirements)? What is the timeline for completion of site restoration after construction ends? Will the Contractor be required to conduct soil and groundwater testing to certify no contamination remains? If restoration is deemed inadequate, can the Employer withhold Defects Liability Period	The site should be restored to the original state or better than original. The restoration time is one month after completion. The EPC Contractor will be required to conduct soil and groundwater testing to certify no contamination remains. Yes, the Employer can withhold Defects Notification Period (DNP) funds or require additional remediation at EPC Contractor's cost.

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		(DLP) funds or require additional remediation at Contractor's cost?	
EIA-14	EIA Report, Section 3.7.12, 8.5.1(i), 9.7 (Item 9) Temporary Land Acquisition and Camp Site Selection Page 3-7 to 3-8, 8-31 to 8-32, 9-14 to 9-15 Worker Camp Location Criteria and Environmental Siting	Who has final approval authority over the contractors camp site selection- Management Consultants, WAPDA, GP EPA or District Administration?	The EPC Contractor's camp proposals shall be submitted to the Employer and based on the approval, it shall be decided/instructed to obtain approvals from GB-EPA and District Administration (based on the nature, extent and land requirements of camp).
EIA-15	EIA Report, Section 5.3.5, 8.5.2, 8.6.2 Fauna Protection and Construction Impacts Page 5-29 to 5-31, 8-23 to 8-27, 8-40 to 8-43 Protected Species and Hunting Restrictions	What are the specific seasonal construction restrictions (dates for bird nesting season, other critical periods)? Who approves construction schedules relative to wildlife protection periods?	The EPC Contractor shall conduct a site specific assessment of the critical breeding periods (if any) in its site-specific Environmental and Social Management Plans and propose mitigation measures accordingly (if required). This will be subject to approval from Employer.
EIA-16	EIA Report, Section 8.5.1(iii), 9.7 (Item 3) Landslide Mitigation and Blasting Management Page 8-33 to 8-37, 9-18 to 9-21 Blasting Management and Community Notification	Q15: What are the quantified noise and vibration limits for blasting operations per NEQS and engineering standards? Must the Contractor obtain advance government approvals for blasting activities? What is the community notification protocol—how many days in advance must notice be given, and how will notices be distributed to affected residents? If vibrations from blasting cause structural damage to nearby buildings or heritage sites, who is liable for repairs?	Yes, the EPC Contractor shall obtain advance approval for blasting activities from relevant department. The community notification protocol depends on the timing of Explosive, quantum of explosive and the location of receptors. If vibrations from blasting cause structural damage to nearby buildings or heritage sites the EPC Contractor shall be responsible for repairs.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
EIA-17	EIA Report, Section 5.2.3-5.2.4, 8.4.1(i), 8.5.1(iii) Seismicity, Land Erosion, and Geotechnical Issues Page 5-5 to 5-8, 8-6 to 8-9, 8-33 to 8-37 Geology and Geotechnical Investigations	Q16: Will the Contractor be required to conduct additional detailed geotechnical investigations along the headrace tunnel and other critical components, or will these be Employer-funded pre-bid investigations? If unforeseen geological conditions (weak rock, high water inflow, fault zones) are discovered during construction, will these be treated as variations entitling the Contractor to extension of time and cost recovery?	It has been clarified that geotechnical investigations related to the headrace tunnel, overall site stability, and other Civil Works components do not fall under the scope of Package-III: Electro-Mechanical Works EPC Contractor. These investigations are the responsibility of the Package-I" Civil and Auxiliary Services Works EPC Contractor. Any additional geotechnical investigations specifically required for the installation of Electro-Mechanical Equipment under Package-III shall be carried out by the EPC Contractor at its own risk and cost, in accordance with Sub-Clause 1.13.18 of the Specific Provisions, Volume-II of the RFP/EPC Bidding Document.
EIA-18	EIA Report, Section 8.5.1(ix), 9.7 (Item 8), 9.6.2 Land Acquisition and Resettlement Process Page 8-34 to 8-37, 9-13 to 9-16, 9-47 to 9-50 Resettlement and Land Acquisition Completion	Q17: Will all land acquisition and resettlement be completed before the Contractor mobilizes, or will the Contractor need to work on phased land availability? Is resettlement and compensation the sole responsibility of the Employer and District Administration, or will the Contractor have any resettlement obligations? If affected persons challenge compensation or resist relocation during construction, who is responsible for resolution and any resulting construction delays?	All land acquisition and resettlement will be completed by the Employer/GoGB before Contractor mobilization under Package-I. Compensation is the responsibility of GoGB, and the Contractor has no resettlement obligations.
EIA-19	EIA Report, Chapter 7, Section 9.7 Grievance Redress Mechanism and Committee Page 7-1 to 7-2, 9-30 Community Grievance Redress Mechanism and GRC Funding	Will the Grievance Redress Committee (GRC) be fully funded by the Employer, or must the Contractor contribute? What is the target timeline for GRC resolution of complaints?	All the activities, tools and equipment required for GRC (Grevience Redressal Committee) will be funded by the EPC Contractor. For GRC nomination from EPC Contractor, existing staff of EPC Contractor can be utilized.

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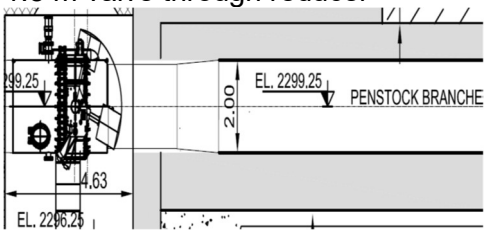
EIA-20	EIA Report, Section 8.5.3(xix), 9.7 (Item 19) Labour Influx and Local Employment Page 8-68 to 8-71, 9-36 to 9-39 Local Employment and Skilled Labor Requirements	Q19: What are the minimum targets or requirements for local employment (% of workforce to be sourced from Hunza district or local communities)? Must the Contractor meet gender participation targets for women in the workforce? Will the Contractor be required to provide vocational training to local workers to qualify them for higher-skilled positions? What wage equity requirements apply between local and non-local workers?	The maximum unskilled labor shall be acquired from Hunza district or local communities. The E[C Contractor shall maintain the record of local and non-local labor and will share the same with Employer from time to time. Yes, the EPC Contractor has to meet gender participation targets for women in the workforce (staff level). Yes, the EPC Contractor shall be required to provide vocational training to local workers to qualify them for higher-skilled positions. The minimum wage must be given to every worker and relevant labor laws shall be implemented.
EIA-21	EIA Report, Annex-VII (Key Performance Indicators), Table 9-4 Environmental Monitoring Frequency and Standards 9-71 to 9-75 Specific Environmental Performance Standards and KPIs	What are the specific quantified environmental performance targets/KPIs that the Contractor must meet (e.g., PM10 ≤ 150 mg/m³, Noise ≤ 65 dB(A), TSS, BOD limits, etc.)? Are these defined in Annex-VII?	The EPC Contractor has to prepare KPIs in the site specific ESHS plans and will be subject to approval from Employer. The KPIs must be aligned with the EIA report.
EIA-22	EIA Report, Section 5.2.6, 5.2.7, 8.4.2(i), Executive Summary Flooding and Natural Disaster Management Page 5-8, 5-22, 8-8 to 8-10 Glacial Lake Outburst Flood (GLOF) Risk and Climate Adaptation	Q21: What responsibility does the Contractor have for protecting the construction camp and project assets from potential GLOF events? Will there be a glacier monitoring and early warning system in place, and who operates it? If a GLOF event damages the Contractor's camp or construction assets, who bears the loss? Must the Contractor implement specific design measures or protocols to mitigate GLOF impact (e.g., elevated structures, evacuation routes)?	The EPC Contractor will select the location of construction colonies and camps at sites most protected from potential GLOF events. Regional glacier monitoring and early warning will be coordinated by the Employer, while the Contractor remains responsible for precautionary measures at its facilities.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
EIA-23	EIA Report, Section 10.2 (Recommendations), Table 9-4, Executive Summary Environmental Cost Estimates and Project Budget Page 10-3, 9-71 to 9-75, Page 1 Environmental Cost Recovery and Contract Payment Linkage	How will the PKR 126.5 Million environmental cost be incorporated into the Contract as a separate lumpsum item, proportionally allocated, or linked to environmental performance milestones?	The ESHS cost will be linked to the ESHS performance milestones as per EIA Table 9.4.
EIA-24	EIA Report, Section 3.11, Table 9-4, Section 9.8 Project Implementation Schedule and Monitoring Timeline Page 3-18, 9-71 to 9-75, 9-57 to 9-60 Construction Schedule vs. Environmental Compliance Monitoring Periods	Q23: If the construction period extends beyond the estimated 36 months (due to delays, natural disasters, or scope changes), are environmental monitoring and management costs for the extended period the responsibility of the Contractor or the Employer? Are environmental monitoring obligations capped at 3 years, or do they extend for the actual construction period plus DLP? Will the Contractor be entitled to extensions of time and cost recovery if environmental remediation activities cause construction delays?	The matters related to Extension of Time Will be Dealt in accordance with Sub-Clause 8.5 (Extension of Time), Part B Special Provisions, of Particular Conditions, Volume-I, RFP/EPC Bidding Document.
Contractor Clarifications & Responses			
1.	2026-03-11 Volume-I, Package-III Final (With Remote Ends) (1) Page-I	To ensure the bid proposal is as comprehensive as possible, we are requesting an extension of the bid submission deadline. Would you agree to this?	The matter of Proposal submission deadline has already been addressed and incorporated in the upcoming Addendum No.01 TO RFP/EPC Bidding Document shall be issued on EPADS V2.0 in due course of time. The Proposers are advised to comply with the revised provisions as set forth therein.
2.	2026-03-11 PKG III Specific Provisions (with remote ends) Page 1-1 SECTION 1 SCOPE OF WORK	The bidding documents do not specify the design requirements for the fire protection water supply, plumbing for restrooms, ventilation, air conditioning, and heating systems, or lighting in the main powerhouse of the	The scope of works is already included in Package-I (Civil and Auxiliary Services Works).

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
		hydroelectric power plant. Please clarify whether the scope of this bid includes the design, supply, and installation of the aforementioned systems.	
3.	2026-03-11 PKG III Specific Provisions (with remote ends) Page 1-5 1.2.1.6: 132 kV Line End Bays at Remote End	Is it necessary to expand two 132 kV AIS bay connections within the 132/66 kV Aliabad Regional Grid Station? This includes the expansion and integration of electrical equipment, busbars, protection, control, earthing, and SCADA (Supervisory Control and Data Acquisition) systems required for the two extended bays. (If required, please provide relevant documents such as the single-line diagram for the 132 kV side and the layout drawing of the 32/66 kV Aliabad Regional Grid tation.)	The scope of Remote End Line Bays including Civil works at 132/66 kV Aliabad Regional Grid Station shall be deleted from Package-III. In this regard, an upcoming Addendum No.01 TO RFP/EPC Bidding Document shall be issued on EPADS V2.0 in due course of time.
4.		Please specify the point of measurement for electricity consumption: is it at the generator outlet or the switchyard outlet?	The Tariff metering shall be installed at the 132 kV Switchyard side (Grid Interface) of the Generator Step-Up Transformer within the 132 kV switchyard.
5.		Please specify the scope of welding work for the short pipe connecting the pressure steel pipe to the upstream side of the turbine inlet butterfly valve.	It will be finalized and provided by the Proposer during detailed design phase.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
6.		Please provide principal diagrams of the cooling water system, drainage system, dewatering system, turbine oil operating system, and compressed air system.	It will be finalized and provided by the Proposer during detailed design phase
7.	2026-03-11 PKG III Specific Provisions (with remote ends) Page 1-6 1.3.1. Detailed Design	Are there any regulations regarding software used for Hydraulic Transient Analysis?	HTA shall be carried out using a well-reputed International and Industry-accepted software to ensure the accuracy and credibility of the analysis.
8.	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 1-2 Table 1-2 Parameters, 1.1.4: Technical Parameters of Turbines	There is no such thing as a “minimum efficiency” for water turbines. Please clarify if it refers to “the minimum value required for the turbine rated efficiency is 93%”	The minimum turbine efficiency means that rated efficiency shall not less than 93% for Guarantee purpose and to comply the requirement of Proposal.
9.	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 1-30 1.3 Turbine Main Inlet Valves (MIV)	The inlet diameter of the turbine spiral case is approximately 2.15 m. Please confirm that the selected inlet butterfly valve will have the same diameter. If not, a reducer will be required, which will necessitate increasing the width of the plant building.	As per Conceptual drawing No. ALHPP-PH-0806, it has been clearly shown that branch pipe penstock diameter is 2.0 m and it is going to 1.8 m valve through reducer 
10.	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 1-49 1.5.3.2 Description	It is recommended to eliminate the high- pressure compressed air system and instead use a 16 MPa high-pressure nitrogen accumulator to store energy for the governor and inlet valve.	A high-pressure nitrogen accumulator option has already been provided in the RFP/EPC Bidding Document.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
11.	2026-03-11 PKG III Technical Provisions (With Remote Ends)) Page 3-6 3.1.14 Fire Protection System	Please specify the fire extinguishing's method for the generator.	The Generator Fire Protection system shall comply with NFPA 851 requirements and relevant NFPA standards. The inert gas, fire detection sensor type and system operation shall be finalized during the detailed design stage. A multi-criteria fire detection system. Both automatic and manual activation with safety interlocks shall be provided. The final specification and system philosophy shall be finalized during the detailed design stage subject to approval by the Employer.
12.	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 6-1 Section 6 132kV Switching Station and 132kV Line Terminal Cubicle 6.1 Scope of Work	Whether the construction of a new 132kV transmission line is included in this project? If confirmed, is the design length of the line 14.5 km? Shall the line transmission capacity be designed and checked against the 54MW installed capacity of the hydropower station? Given that the current-carrying capacity of a single circuit already meets the 54MW transmission requirement, shall a single- circuit or double-circuit configuration be finally adopted?	The construction of the new 132 kV transmission line is not part of the Package-III: Electro-Mechanical Works. It is included under the scope of Package-II 132 kV Transmission Line Works.
-	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 6-1 SECTION 6, SCOPE OF WORK:	Please provide the current protection manufacturer, communication gateway model, and version for the remote substation. It is necessary to confirm whether the newly supplied protection equipment can achieve differential protection cross-switching with the existing station, and whether the communication protocol can seamlessly integrate with the original monitoring system of the old station.	The scope of Remote End Line Bays including Civil works (132/66 kV Aliabad Regional Grid Station) shall be deleted from Package-III. In this regard, an upcoming Addendum No.01 to RFP/EPC Bidding Document shall be issued on EPADS V2.0 in due course of time.

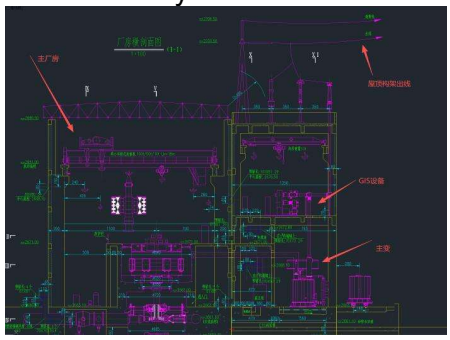
Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 3-48 SECTION 3, DC AND UPS SYSTEM	Is a dual-battery dual-charger configuration (two battery banks + two charging units) mandatory for DC systems? Additionally, does the UPS system for this project have specific backup time requirements (e.g., 2 hours or 4 hours)?	Regarding dual battery banks + dual charging units, please follow the requirements as specified in the RFP/EPC Bidding Document.
	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 5 SECTION 5, Fiber Optic Link: Cable Installation & Joint	Please clarify whether the terminal junction box for OPGW entering the central control room is provided by this tender section or the line section. Where exactly is the boundary between the design and construction phases for optical cable communication between both parties?	The provision of Junction/Joint box shall not be the part of this Package
13.	Page 2-4 **2.2.2 Stoplogs**	The pressure equalization method for the stoplog gate is not specified. Shall the pressure equalization by filling water through a filling valve or a bypass valve be determined by the Bidder at its own discretion?	Yes, It will be provided by the Proposer.
15.	Page 2-4 **2.2.2 Stoplogs**	The pressure equalization method for the stoplog gate is not specified. Shall the pressure equalization by filling water through a filling valve or a bypass valve be determined by the Bidder at its own discretion?	Yes, It will be provided by the Proposer.
16.	Page 2-7 **2.2.4. Moving Gantry Cranes Main Data**	Please Provide a single line drawing showing the turning points and turning radii of the curved rails for the mobile gantry crane	It Will be finalized at detailed design stage by the EPC Contractor,

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
17.	Page 2-9, **2.2.4.4.6 Drums**	The lifting height of the gantry crane is 52 m, which falls into the category of high lifting height. If the steel wire rope is arranged in single layer winding on the drum, it will inevitably result in an excessively large drum diameter and length. Therefore, we propose adopting no more than 3 layers of winding together with a polygonal rope groove drum design to avoid rope entanglement. Please confirm whether this proposal is acceptable.	it will be finalized during detailed design phase by the Contractor or Manufacturer.
18.	Page 2-14, 2-17	1、According to the drawing "ALHPP- HSS-0402", the frame of the hydraulic cylinder is arranged below the maximum water level of El. 2421.00 m. Is a tight water seal required between the frame and the top of the gate slot? Please clarify. 2、Due to the high design head of the emergency gate, it shall be closed under flowing water and opened under still water. The gate is expected to be closed by means of water column, and opened after pressure equalization through the water filling valve. Closing by water column will result in a relatively large holding force, which leads to a higher lifting capacity requirement for the mobile gantry crane. Therefore, the capacity of the gantry crane shall be determined based on this holding force. Please confirm whether this understanding is correct. 3、It is proposed that a set of stoplog gates may not be required.	1. Yes, your understanding is correct. The Tight seal is required to stop the water to the water level 2. Yes, your understanding is correct. It will be finalized during detailed design phase 3. it will be finalized during detailed design phase

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
19.	PROCEDURES AND CONDITIONS OF CONTRACT of book 1 Page 4-12	In Schedule 1&2, a total of 26 items are listed, each of which includes several sub- equipment. The bidding document requires the bid price to include FAT costs. Please clarify: 1. Which specific equipment and components of the equipment's require FAT? 2. The exact information regarding the number of representatives attending FAT, subsidy amounts, air ticket class, and accommodation standards?	Please follow the requirements of RFP/EPC Bidding Document Volume-II, Part-I, Specific provisions.
20.	Procedure for Delay Damages for Interface Milestones book 1 page 8-9, 8-10, 8-11, 8-12	The bidding document only specifies penalties and rules related to delays in the interface between E&M and civil works, as well as overall schedule delays, but includes no exemption clauses. It is clear that hydropower project site construction can be affected by many factors beyond civil and E&M work, such as adverse weather conditions, security situations and requirements by army or Pakistan government, local social factors, or prior breaches by the owner. However, no relevant exemption clauses are found in the bidding document. Please clarify.	Issues related to Delay Damages will be dealt in accordance with Sub-clause 8.8 (Delay Damages) of Section VII General Conditions, Volume-I RFP/EPC Bidding Document and Part A Contract Data and Part-B Special Provisions, Section VIII Particular Conditions, Volume-I RFP/EPC Bidding Document.
21.	2026-03-11 PKG III Specific Provisions (with remote ends) Page 1-2 **1.1.1Civil Works for 132kV Line End Bays at Remote End**	This description only covers the civil engineering work required; please provide a bill of quantities for the civil engineering work and the relevant drawings.	The scope of Remote End Line Bays including Civil works at 132/66kV Aliabad Regional Grid Station shall be deleted from Package-III. In this regard, an upcoming Addendum No.01 TO RFP/EPC Bidding Document shall be issued on EPADS V2.0 in due course of time.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
22.	2026-03-11 PKG III Technical Provisions (With Remote Ends) **Section 1.1.2、3.1.3、4.2**	Do you agree to adopt GB/T Chinese national standards or ISO equivalent standards? Please clarify.	As per the requirements of RFP/EPC Bidding Document, only International Standards will be adopted for this Project.
23.	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 1-2 **1.1.5 Life of Plant, Maintenance Cycles and Reliability**	Generally, water turbines require maintenance and upkeep, including Level A, B, and C overhauls, with a typical cycle of 3 to 5 years, depending on the operational status and conditions of the equipment. Standards such as DL/T 2574 and DL/T 817 provide corresponding technical procedures for equipment maintenance. Does the statement "no disassembly of equipment in the first ten years" mean that no equipment is allowed to be disassembled? Please clarify.	The requirement does not imply that maintenance activities have been prohibited. Routine and preventive maintenance like inspections, lubrication, adjustments, replacement of consumables, and minor repairs Secondly, the design shall be proven and based on good engineering practices as per site specific conditions such that Level C maintenance (major overhaul involving dismantling of main components such as runner, shaft, bearings, etc.) → shall not be required within first Ten (10) years
24.	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 1-5～1-6 **Section 1.1.12.1 & 1.1.13**	Is it understood that without considering the correction of real machine efficiency, the performance guarantee is based on the model efficiency guarantee and meets the requirements of the bidding documents? Please clarify.	Please fully comply the IEC 60193-2019 Standard in this regard
25.	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 1-21 **1.1.21.1 Assembly and Tests in The Workshop**	Is it necessary to require the entire hydroelectric turbine unit to be pre- assembled in the manufacturing plant? Generally, it is pre-assembled in the plant in parts. Please clarify.	A Separate testing will be carried out in Manufacturer Workshop

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
26.	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 1-21 **1.1.21.1 Assembly and Tests in The Workshop**	Here is a requirement for all welds on the spiral case to undergo ultrasonic and radiographic inspection Can it be changed to: The weld seam of the spiral case undergoes 100% ultrasonic flaw detection, and radiographic flaw detection is used for verification in areas where multiple flaw detection methods yield suspicious results. Please clarify.	Please follow the requirement as per RFP/EPC Bidding Document.
27.	2026-03-11 PKG III Technical Provisions (With Remote Ends) Page 3- 10 **Table 3-5: Spare Parts and Tools**	The bidding documents do not specify specific requirements or provide a list of tools specifically for hydro-generator units. Please provide a detailed list of specialized tools or clarify whether corresponding specialized tools can be provided in accordance with GB/T standards.	The special tools details shall be finalized during detailed design stage. For standards, please follow the RFP/EPC Bidding Document requirements as specified.
Clarification No. 02 on April 18, 2026			
1	Volume-II: Employer's Requirements, Part-I: Specific Provisions Sub-Section 1.2.1.6	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	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	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

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
		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 Employer. The specifications of the Segregated Phase Bus shall be in accordance with the Technical Provisions, Part-II, Volume-II of the RFP/EPC Bidding Document.
3.	Volume-II: Employer's Requirements, Part-I: Specific Provisions Layout Optimization Proposal	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. Reference layout is shown below 	The Proposal of GIS Switchyard at Attabad is not accepted. 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 be adhered to by all Proposers.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
4.	2026-03-11 PKG III, Technical Provisions, (With Remote End Line Bays) Sub-Clause 2.1.17.3 and Sub-Clause 2.2.8	Clarification on Corrosion Protection, Coating Thickness & Painting Requirements for Hydraulic Steel Structures and Equipment. 1. Clarification on Metallic Coating (Section 2.1.17.3) 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. Sub-Clause 2.2.8 Surface Preparation & Painting does not specify the required coating thicknesses (dry film thickness) for any components. We therefore request the following clarifications:	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 All bolts, studs, nuts, washers, screws, etc., above size M-10, shall, if not made of stainless steel or other corrosion-resistant material, be hot-dip galvanized. 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 PKG III, Technical Provisions (With Remote End Line Bays) Gate Leaves / Trash Rack Leaves	**2.** Corrosion Protection for Gate Leaves and Trash Rack Leaves Please confirm the Corrosion Protection Scheme for Gate Leaves (including Trash Rack Leaves): 1 Shall zinc metal spraying be adopted for corrosion protection? 2 Shall the thickness of zinc spray be not less than 0.060 mm? 3 Shall paint systems be applied over the zinc-sprayed surface? 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.
6.	2026-03-11 PKG III, Technical Provisions (With Remote End Line Bays) Paint coating — various items	1. Paint Coating Thickness Requirements Please clarify the required total dry film thickness and layer-by layer DFT for paint coatings on the following items: （1） Gate Recesses (Trash	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.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
		Rack Recesses) （2） Mobile Gantry Crane and Trash Rack Cleaning Crane （3） Hydraulic Hoist Cylinders	
7.	2026-03-11, PKG III, Technical Provisions (With Remote End Line Bays)	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, PKG III, Technical Provisions (With Remote End Line Bays) Page 1-32 and Page 1- 33	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.
9.	2026-03-11, PKG III, Technical Provisions (With Remote End Line Bays) Page 1-31 and Page 1- 33	The discrepancies in the RFP/EPC Bidding Document 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.	The final arrangement shall be determined by the EPC Contractor, during the detailed design stage, subject to the Employer's approval.
Clarification No. 03 on April 29, 2026			
1	The Proposer M/s C-Digital respectfully requests a one (01) month extension in the Proposal submission deadline from May 14, 2026 currently notified on EPADS V2.0 for Package-III: Electro-Mechanical Works of the Attabad Lake Hydropower Project (54 MW). The principal ground for this request is the pending issuance of Addendum No. 01 to the RFP/EPC Bidding Document, which AHMC had confirmed with the replies to Pre-Proposal Clarification No. 01 wherein it was committed that Addendum No. 01 to RFP/EPC Bidding Document will be uploaded on EPADS V2.0 "in	a) The request for an extension in Proposal submission deadline by One (01) Month from Proposer has been under consideration. The decision for extension in Proposal submission deadline will be addressed through an upcoming Addendum No. 01 to the RFP/EPC Bidding Document, which will be uploaded on EPADS v2.0 in due course of time.	

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	due course". The Addendum No. 01 to RFP/EPC Bidding Document carries material changes to the Scope of Works and the technical specifications (ref. AHMC Replies to the Pre-Proposal Clarification No. 01 Item No. 01, Item No 04, Item No 05 and Item No 06, and the Priced Proposal cannot be finalized until it is issued/uploaded. Additional time is also required after issuance/uploading of the Addendum No. 01 to RFP/EPC Bidding Document to incorporate the revised scope into the Proposal and obtain updated Quotations from OEMs. The requested extension in Proposal submission date is therefore driven by the Employer's own pending Addendum No. 01 to RFP/EPC Bidding Document and will allow all bidders an equal opportunity to submit fully responsive Proposals on the Post-Addendum No. 01 to RFP/EPC Bidding Document scope. It is accordingly requested that: a) the Proposal submission deadline be extended by one (01) month, b) the Proposal validity and Proposal security validity be correspondingly adjusted, and c) the revised Proposal submission deadline be notified on EPADS V2.0 in the usual manner.		b) Refer PDS to ITP 20.1 of Section-II, Proposal Data Sheet, Volume-I of RFP/EPC Bidding Document, wherein it has been stipulated that the Proposal shall be valid until 180 days from the date of Submission of Proposal. The Proposal Validity and Proposal Security validity shall be in accordance with the provisions of Contract. c) Noted.
Clarification No. 04 on May 14, 2026			
1.	Part-II Technical Provisions, Volume-II Employer's Requirements, RFP/EPC Bidding Document Page No. 2-9	It is suggested to amend to: "No more than Three layers of rope winding shall be allowed when the hook is at highest position." Please confirm whether this suggestion is acceptable.	Noted. The Proposal is not acceptable as the original provisions of RFP/EPC Bidding Document shall prevail at this stage. However, this arrangement will be finalized during detailed design phase.
		Please provide a location relationship diagram in CAD format of the Powerhouse building and the 132 kV AIS Switchyard with detailed distance scales, so as to measure the length of the Segregated Phase Busbar from the Generator outlet to the Low-Voltage side of the main Generator Step-Up Transformer.	Noted. The distance between 132 kV AIS Switchyard boundary wall and Powerhouse left side wall has been worked out approximately 80 m. Within the Powerhouse from where the Segregated Phase Buses will emanate from each Generating Unit Outlet to Generator step up Transformers primary side could be estimated roughly for Proposal purpose. However, the final measurement of Segregated Phase Bus will be finalized during detailed design Stage.
Clarification No. 05 on June 18, 2026			
	Sub-Clause 1.1.15 Efficiency, Technical Provisions, Part-II, Volume-II, 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 Proposer's request has been noted. However, the Employer maintains the minimum Guaranteed Weighted Average Turbine

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	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	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.	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.
Clarification No. 06 on July 13, 2026			
1		Reference is made to the Volume-II, Part-II, Technical Provisions, Sub-Clause 3.5.1, wherein the Generator Circuit Breakers (GCBs) are specified as vacuum type. However, Addendum No.01 requires the 11kV switchgear for the generating units to be of SF_6 Gas type, while all other 11 kV switchgear remains specified as vacuum type. The Proposer respectfully request the Employer to confirm that vacuum-type Generator Circuit Breakers (GCBs), as originally specified under Sub-Clause 3.5.1, shall remain acceptable, provided they comply with all specified ratings and technical requirements. Generator Circuit Breakers (GCBs) are specially designed to interrupt Generator fault currents, system faults, synchronization switching, and other Generator operating duties. Vacuum Type Generator Circuit Breakers are widely used and proven for these applications at the 11 kV level and fully satisfy the required performance and interrupting capabilities. We also note that the Schedules of Technical Particulars continue to specify "Arc Quenching Medium (Vacuum)/SF_6 Gas Type Breakers" for the Generator Circuit Breakers (GCBs), indicating that both technologies are acceptable. Using vacuum type technology for the Generator Circuit Breakers (GCBs) also provides the benefit of maintaining common equipment with the remaining 11 kV switchgear,	Noted. The Proposers request to accept vacuum-type Generator Circuit Breakers (GCBs) instead of SF_6 Gas-type Generator Circuit Breakers (GCBs) for the 11 kV Generator Switchgear is under consideration by the Employer which will be incorporated in the upcoming Addendum No. 03 to the RFP/ EPC Bidding Document and will be issued/uploaded on EPADS V2.0 in due course of time.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	simplifying operation, maintenance, and spare parts management. In addition, vacuum type Generator Circuit Breakers (GCBs) require no gas handling or gas density monitoring and offer high reliability and long service life. In view of the above, we kindly request the Employer to confirm that vacuum-type Generator Circuit Breakers (GCBs) are acceptable for the 11 kV Generator Switchgear, provided they meet all requirements of the RFP/EPC Bidding Document. The Employer clarification will be appreciated to enable Proposers to prepare technically compliant and competitive Proposals.		
Clarification No. 07 on July 17, 2026			
	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.	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.

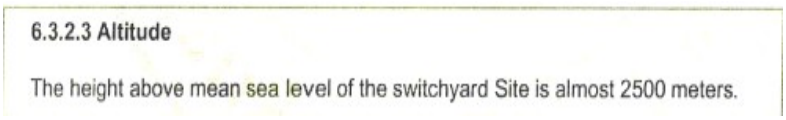
Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
		The specific reference runner, model designation and manufacturer, and the model / prototype test from which the 92.8% Guaranteed Turbine Weighted Average Efficiency value was obtained, so that all Proposers may benchmark against a demonstrated, achievable figure.	
Clarification No. 08 on August 04, 2026			
1	a. The Proposer M/s CDigital, gratefully acknowledges the Employer's extension in the Proposal submission deadline of Package-III to August, 20 2026. This extension has been of material assistance, and the Technical and Financial Proposals are presently at an advanced stage of preparation. b. The changes introduced vide Addendum No. 03 require corresponding confirmations to be obtained afresh from the equipment manufacturers and sub-suppliers, including revised technical particulars, performance guarantees, type-test and model-test references, delivery schedules and price validities. These confirmations involve sequential engineering and commercial reviews at the manufacturer's works and, despite continuous follow-up by the Consortium, cannot be completed responsibly within the time now available. c. In addition, the ongoing armed conflict between the United States and Iran has severely disrupted shipping, insurance and logistics worldwide. Re-routing of vessels, elevated war-risk premiums, port congestion and constrained banking and communication channels have delayed the responses of manufacturers and suppliers in respect of freight, delivery schedules and price confirmations. These circumstances are entirely beyond the control of the Proposers. d. In view of the foregoing, it is respectfully requested that the Proposal submission deadline be further extended by a period of two (02) months beyond August, 20 2026, that is, up to October 20, 2026, with corresponding adjustment of the Proposal validity and Proposal security periods. e. The extension requested is of general application and would enable all Potential Proposers to submit complete, competitive and fully responsive Proposals, to the ultimate	Noted. It is hereby clarified that the request for extension in Proposal submission deadline has already been under consideration to facilitate Prospective Proposers. This request is being reviewed after due consideration of the prevailing circumstances, including the need for Proposers to coordinate with E&M Equipment Manufacturers and Suppliers, prepare technically responsive and commercially competitive Proposals. The extended Proposal submission date will be communicated through upcoming Addendum to RFP/EPC Bidding Document which will be uploaded on EPADS v2.0 in due course of time.

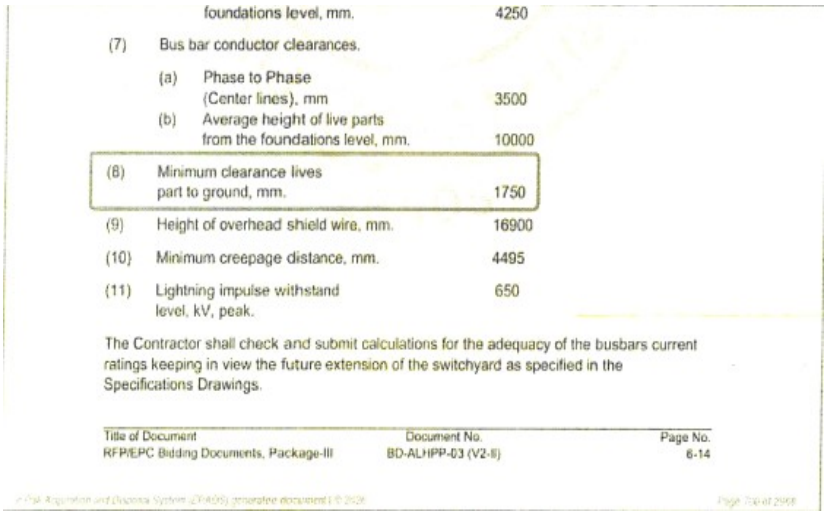
Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	benefit of the Attabad Lake Hydropower Project (54MW) and of the proposal evaluation process.		
2. Proposer M/s Ghulam Rasool & Company Clarifications			
Clarification No. 01 on April 28, 2026			
1.	We are extremely pleased to participate in the bidding process for the subject Package of the Project. In order to comprehensively analyze all aspects of the RFP/EPC Bidding Document, Proposal, and various other factors, we respectfully request an extension of the submission date of Proposal by six weeks i.e from May 14, 2026. We believe that a six-week extension in Proposal Submission date will facilitate us in preparing a more vigilant and thorough Proposal for this esteemed Package of the Project.		The request for an extension in Proposal submission deadline by Six (06) week from Proposer has been under consideration. The decision for extension in Proposal submission deadline will be addressed through an upcoming Addendum No. 01 to the RFP/EPC Bidding Document, which will be uploaded on EPADS v2.0 in due course of time.
Clarification No. 02 on June 03, 2026			
1.	Criteria 4.2(b) Experience in Key Construction Activities, Section-III, Evaluation and Qualification Criteria, Volume-I, RFP/EPC Bidding Document	The Proposer request to amend this Criteria to "The proposed Suppliers must demonstrate at least Twenty (20) years of business starting from January 01, 2006 on International Projects outside their Home Countries with similar Equipment designed according to International Standards" for Hydraulic Steel Structure Gates, Transformers and 132kV Switchyard Equipment. The Proposer assure Employer to use OEMs who have previously supplied 132 kV HV Switchgear Equipment, Transformers in Pakistan and Hydraulic Steel Structure Gates in Pakistan.	Noted. The provisions of RFP/EPC Bidding Document shall prevail.
2.	Section 3 Electrical Plant Equipment - Under Generator Specifications - 3.1.6 Efficiency and Losses, Part-II Technical Provisions, Volume-II, RFP/EPC Bidding Document	For low speed low output Generators Efficiency is usually less. For Attabad Lake Hydropower Project (54MW) Generator capacity is about 18 MW and speed is 375 rpm. We request to amend the Generator Efficiency requirement to 97%.	Noted. The provisions of RFP/EPC Bidding Document shall prevail.
3.	Section 6.3 Switchyard and Line End Bays Design - Sub-Section 6.3.3 Electrical Design Parameters, Part-II	Could you please clarify what this clearance means? If this means phase-ground clearance, this requirement of 1750 mm is beyond	Noted. It is clarified that 1300 mm is the minimum clearance from live part to ground as per IEC Standard and 1750 mm is Project requirement for

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	Technical Provisions, Volume-II, RFP/EPC Bidding Document	the 132 kV AIS Equipment. To meet this requirement 252 kV Equipment rating shall be used.	clearance from live part to ground. Pease follow the provisions of RFP/EPC Bidding Document without changing the voltage level.
Clarification No. 03 on June 08, 2026			
1.		The Proposer is extremely pleased to participate in the bidding process for the Package-III: Electro-Mechanical Works of the subject Project. In order to comprehensively analyze all aspects of the RFP/EPC Bidding Document, Proposal requirements, and other relevant factors, the Proposer would like to request the Employer good office to kindly extend the Proposal submission date by two months. It is further submitted that the current Economic situation of the Country, reduced working hours, continuous fluctuation in fuel prices, transportation costs, and market rates are directly affecting the process of obtaining firm and competitive quotations from E&M Manufacturers and Suppliers, Sub-Contractors, and Vendors. Additional time is therefore required to properly evaluate these factors and prepare a realistic and competitive Proposal. The Proposer believe that a two-month extension in Proposal submission date will enable the Proposer to prepare his proposal more carefully, accurately, and competitively for this esteemed Project.	Noted. It is hereby clarified that the extension in Proposal submission deadline has already been under consideration to facilitate Prospective Proposers. This request is being reviewed after due consideration of the prevailing circumstances, including the need for Proposers to coordinate with E&M Equipment Manufacturers and Suppliers, prepare technically responsive and commercially competitive Proposals. The extended Proposal submission date will be communicated through Addendum No. 02 to RFP/EPC Bidding Document which will be uploaded on EPADS v2.0 in due course of time.
3. Proposer M/s Umer Jan & Co. Clarifications			
Clarification No. 01 on April 28, 2026			
1		With reference to the RFP/EPC Bidding Document issued by WAPDA, we hereby express our sincere commitment to participate in the bidding process of Package-III (Electro-Mechanical Works) of the Attabad Lake Hydropower Project (54 MW) and intend to submit a comprehensive and competitive Proposal/bid. However, we wish to highlight that the prevailing security situation in the region has raised significant concerns among potential foreign EPC Proposers, many of whom are now reluctant or unwilling to participate in infrastructure Projects in Pakistan under current circumstances. In this regard, we respectfully request a minimum extension in Proposal submission deadline for 60 days in the current Proposal Submission Deadline, to allow adequate time for preparation of responsive Proposal and to encourage wider participation from both national and international firms. We trust that the requested Proposal submission date extension will contribute towards a more technically sound and inclusive procurement process, ultimately enhancing competition and ensuring the selection of the most qualified Proposer for successful Project delivery.	The request for extension in Proposal submission deadline by sixty (60) days from Proposer has been under consideration. The Employer considers this duration excessive. The matter of Proposal submission deadline will be addressed through an upcoming Addendum No. 01 to the RFP/EPC Bidding Document, which will be uploaded on EPADS v2.0 in due course of time.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
Clarification No. 02 on April 29, 2026			
1.		With reference to the RFP/EPC Bidding Document (RFP No.: BD/ICB-ALHPP-03) issued/uploaded for Package-III for the Attabad Lake Hydropower Project (54 MW), we would like to seek clarification and request reconsideration of certain Payment provisions stipulated under Sub-Clause 14.4 (Schedule of Payments) of Section-VIII, Particular Conditions (Part B – Special Provisions). It has been noted that the RFP/EPC Bidding Document provide for a deduction of 2.5% of retention money from each section of Payment under the Payment Schedules, to be released upon issuance of the Defects Notification Certificate (DNC). We further observe that this Contractual Provision has also been applied to the Design Services Payment Schedule. In this regard, we respectfully submit that, as per established Engineering practice and standard Contract frameworks, Design Services are typically paid in full upon approval by the Employer, as they are not subject to Post-Construction defects in the same manner as physical works. The withholding of a portion of Design Services Payments until the Defects Notification stage does not align with standard industry practices and may adversely impact the design development process. Furthermore, the RFP/EPC Bidding Document also stipulate a 5% retention money deduction from each Payment Schedule. We would like to highlight that, under standard FIDIC conditions, retention money is primarily associated with construction (Civil) Works to ensure performance and remedy of defects during the Defects Notification Period (DNP). Given that the present scope predominantly relates to Electro-Mechanical (E&M) works and design, the application of retention in the same manner as civil works requires clarification. Typically, for E&M works, performance securities, warranties, and defect liability obligations adequately cover the Employer's risk without necessitating substantial retention deductions. In view of the above, we kindly request the Employer to: 1. Clarify the applicability of the 2.5% deduction on design payments; and 2. Review and amend the retention provisions to align with standard Engineers practices, particularly considering the nature of E&M works and design services. We shall appreciate your clarification on the above matters at the earliest, to enable us to proceed with a clear understanding of the commercial framework.	1. The provisions stipulated under Sub-Clause 14.4 Schedule of Payments, Part-B Special Provisions, Section-VIII Particular Conditions, Volume-I, RFP / EPC Bidding Document shall prevail. 2. The provisions stipulated under Sub-Clause 14.4 Schedule of Payments, Part-B Special Provisions, Section-VIII Particular Conditions, Volume-I, RFP / EPC Bidding Document shall prevail.
Clarification No. 03 on June 03, 2026			

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
1.		The Proposer respectfully refer to the bidding process for the Package-III of Attabad Lake Hydropower Project (54MW) and would like to request a second extension of the Proposal submission deadline (June 16, 2026) for a minimum period of eight (08) weeks. As Employer is aware, the successful preparation of a competitive and technically sound Proposal requires extensive coordination with International Manufacturers and suppliers for major Electro-Mechanical and associated Equipment. Despite the Proposer continuous efforts and follow-ups, the Proposer has received a relatively limited response from several Foreign Manufacturers. The primary reasons communicated by these E&M Manufacturers include: a. Concerns regarding the prevailing conditions in the power sector, which have affected their willingness to participate in new Projects in the region. b. Financial and Commercial uncertainties that have resulted in extended internal review and approval processes by potential suppliers. c. Security-related concerns associated with the region, leading some E&M Equipment Manufacturers to undertake additional risk assessments before committing to quotations and technical Proposals. These factors have significantly affected the timely receipt of firm quotations and technical inputs necessary for the preparation of a comprehensive and competitive Proposal. In view of the above circumstances, the Proposer kindly request the Employer to grant a second extension of at least eight (08) weeks for the Proposal submission date. This additional time will enable Proposers to secure meaningful participation from reputable International E&M Equipment Manufacturers and submit more competitive and technically optimized Proposals, ultimately benefiting the Package of the Project and the Employer.	Noted. It is hereby clarified that the extension in Proposal submission deadline has already been under consideration to facilitate Prospective Proposers. This request is being reviewed after due consideration of the prevailing circumstances, including the need for Proposers to coordinate with E&M Equipment Manufacturers and Suppliers, prepare technically responsive and commercially competitive Proposals. The extended Proposal submission date will be communicated through Addendum No. 02 to RFP/EPC Bidding Document which will be uploaded on EPADS v2.0 in due course of time.
3. Proposer M/s Al-Fajr International Pvt. Ltd. Clarifications			
Clarification No. 01 on April 21, 2026			
1		We, M/s Al-Fajr International along with our Joint Venture Partners, are interested to participate in “Engineering, Procurement and Construction (EPC) of Package-III: Electro-Mechanical Works of Attabad Lake Hydropower Project (54 MW). We, along with our JV Partners are working to prepare the Bidding Proposals for Package-III: Electro-Mechanical Works of the Attabad Lake Hydropower Project (54MW), but in order to comply the requirements mentioned in the RFP/EPC Bidding Document of Package-III, particularly keeping in view that comprehensive EPC design has to be submitted with the Proposal which is itself time consuming, we need more time to submit a comprehensive, technically sound and financially competitive Proposal.	The request for an eight (08) week extension in proposal submission by Proposer M/s Al Fajr International has been reviewed. The Employer considers this duration excessive. The matter of proposal submission deadline has already been discussed during the Pre-Proposal Meeting held on April 14, 2026 and will be addressed through Addendum No. 01 to the RFP/EPC Bidding Document of Package-III, which will be issued on EPADS v2.0 in due

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	In light of above, It is requested that the Proposal submission date may please be further extended at least for 8 (eight) weeks beyond May 14, 2026, enabling us to submit a responsive and precisely prepared Proposal		course. Proposers are advised to comply with the provisions of the forthcoming addendum to the RFP/EPC Bidding Document of Package-III.
Clarification No. 02 on June 03, 2026			
1.	The Proposer refer to the bidding process for the Package-III: Electro-Mechanical Works of Attabad Lake Hydropower Project (54MW) and would like to express his appreciation for the opportunity to participate in this prestigious Package of the Project. The Proposer respectfully request an extension in the Proposal submission deadline to allow prospective Proposers sufficient time to prepare a technically responsive Proposal. Given the complexity and significance of the Project, additional time is required for detailed review of the RFP/EPC Bidding Document, coordination with the Equipment Manufacturers and Suppliers, finalization of technical solutions, and preparation of a comprehensive Proposal that fully meets the critical Employer's requirements. Furthermore, the Proposer note that the Employer has issued an Addendum No. 01 to RFP/EPC Bidding Document dated May 21, 2026 containing numerous Contractual and Technical amendments and revisions to the RFP/EPC Bidding Document. These changes require careful review and assessment by Proposers to ensure full compliance with the revised requirements. Additional time is therefore necessary to adequately incorporate the amendments into the technical and financial proposals and to obtain updated quotations, commitments, and supporting documentation from relevant stakeholders and Equipment Manufacturers.		Noted. It is hereby clarified that the extension in Proposal submission deadline has already been under consideration to facilitate Prospective Proposers. This request is being reviewed after due consideration of the prevailing circumstances, including the need for Proposers to coordinate with E&M Equipment Manufacturers and Suppliers, prepare technically responsive and commercially competitive Proposals. The extended Proposal submission date will be communicated through Addendum No. 02 to RFP/EPC Bidding Document which will be uploaded on EPADS v2.0 in due course of time.
2.	**Explanation Regarding the Replacement of Equipment in the Step-up Sub-Station with Higher Voltage Class Products by the Manufacture** Technical Specification content: Part-II, Technical Provisions, Volume-II, RFP/EPC Bidding Document  6.3.2.3 Altitude The height above mean sea level of the switchyard Site is almost 2500 meters. Part-II Technical Provisions, Volume-II, RFP/EPC Bidding Documents		Noted. It is clarified that 1300mm is the minimum clearance from live part to ground as per IEC standard whereas 1750 mm is the Project requirement. Pease follow the provisions of RFP/EPC Bidding Document without changing the voltage level.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	 foundations level, mm. 4250 (7) Bus bar conductor clearances. (a) Phase to Phase (Center lines), mm 3500 (b) Average height of live parts from the foundations level, mm. 10000 (8) Minimum clearance lives part to ground, mm. 1750 (9) Height of overhead shield wire, mm. 16900 (10) Minimum creepage distance, mm. 4495 (11) Lightning impulse withstand level, kV, peak. 650 The Contractor shall check and submit calculations for the adequacy of the busbars current ratings keeping in view the future extension of the switchyard as specified in the Specifications Drawings. Title of Document: RFP/EPC Bidding Documents, Package-III; Document No.: BD-ALHPP-03 (V2-II); Page No.: 6-14 From the RFP/EPC Bidding Technical Document, the Proposer have identified that the Project is actually located at a high altitude and has special clearance requirements (higher than those specified in IEC Standards). Therefore, Proposers have to quote Equipment rated for a higher voltage level. The Proposer has selected a voltage level of 145 kV. Based on this requirement, the minimum clearance from live parts to ground would be only 1,300 mm, which does not meet the RFP/EPC Bidding Document requirement of 1,750 mm minimum clearance from live parts to ground. Therefore, the Proposer now intend to select 200 kV product. For this product, the minimum clearance from live parts to ground is 2,100 mm, which satisfies the RFP/EPC Bidding Document requirement. Whether upgrading the voltage level of 200 kV complies with the RFP/EPC Bidding Document requirements remains to be confirmed.		
3.	**Regarding the Addendum No. 01 to RFP/EPC Bidding Document issued for selecting SF6 Gas Type Circuit Breakers for the 11 kV Generator Outlet** The Addendum No. 01 to RFP/EPC Bidding Document issued by the Employer requires that the 11 kV Generator outlet Circuit Breaker be of the SF6 Gas type. The specifications required in the drawings and the technical specification are 1600A–40kA. Based on Proposer inquiries, no Domestic or International Equipment Manufacturer produces an SF6 Gas Type Circuit Breaker that achieves this current rating and breaking capacity. The commonly available models are SF6-12/1250–31.5kA. For example, a Manufacturer has a 1600 A model, but its breaking capacity is only 31.5 kA, and these are all conventional SF6 Gas Type Circuit Breakers.		Noted. The 11 kV Generator outlet Circuit Breaker shall be permitted to have SF6/VCB type. The current carrying capacities of 1600A-40kA shall be followed as specified under Technical Specifications, Volume-II, Part-II of the RFP/EPC Bidding Document.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	The Generator outlet Circuit Breakers have high requirements for DC component, rate of rise of transient recovery voltage (RRRV), and out-of-step breaking capacity. Therefore, it is recommended to select a vacuum type Generator Circuit Breaker specifically intended for Generator Outlet applications.		
4. Proposer M/s SINOTEC Pvt. Ltd. Clarifications			
Clarification No. 01 on April 19, 2026			
1.	This is with reference to the Invitation to Bid/ Proposal for the Attbad Lake Hydropower Project (54 MW). We have initially gone through the RFP/EPC Bidding Document and request the Employer for the following: 1. Sr. No. 4.2(a) of Section-III [Evaluation and Qualification Criteria] requires that "A maximum number of Contracts specified below that have been satisfactory completed as a Prime Contractor, Joint Venture Member, Management Contractor or Sub-Contractor between January 01, 2005 and Proposal Submission deadline. Either One Contract of Hydropower Project of 45 MW or Higher and should be in successful Commercial Operation for one year Or Two (02) separate Contracts of Hydropower Project totaling 45 MW or higher and at least one should be in successful Commercial Operation for one year. Keeping in view the true spirit of EPC Contract, we hereby request the Employer to modify the said Criteria as follows: One Contract of Hydropower Project of 45 MW or higher and should be in in successful Commercial Operation for one year Or Three (03) separate Contracts of Hydropower Projects Totaling 45 MW or higher and with one of the Contracts must be at least 35 MW and at least one Contract should be in successful Commercial Operation for one year.	Noted. The suggestion in the modification in Sub-Clause 4.2(a) of Evaluation and Qualification Criteria under Section-III, Volume-I of the RFP/EPC Bidding Document is not acceptable, the provisions stipulated under original Sub-Clause 4.2(a) of Evaluation and Qualification Criteria, Section-III of Volume-I of the RFP/EPC Bidding Documents shall prevail.
2.	Furthermore, due to Eid-ul-Azha Holidays in the week and other unforeseen circumstances, we are finding it challenging to meet the current Proposal submission deadline and in dire need of extension in Proposal Submission date. We believe that an extension will allow us to submit a more comprehensive Proposal that aligns with your requirements. Therefore, the Employer is requested to kindly extend the date for Proposal Submission for one month and oblige.	Noted. It is apprised that the Proposal submission date has already been formally notified on EPADS v2.0 as June 16, 2026, in accordance with the Employer's instructions. Any request for further extension will be discussed after the forthcoming Eid-ul-Azha holidays, and the said duration may be granted subject to request from other

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
			proposer and approval from the competent authority.
5. Proposer M/s Shaheen & Sons. Clarifications			
Clarification No. 01 on June 08, 2026			
1.	The Proposer intends to participate in the bidding process for the Package-III: Electro-Mechanical Works of Attabad Lake Hydropower Project (54 MW). Due to the detailed and comprehensive nature of the bidding requirements, extensive coordination with Foreign E&M Equipment Manufacturers and Suppliers is required for the preparation of a responsive. and competitive Proposal. Furthermore, the ongoing General Election activities in Gilgit-Baltistan have also affected the timely completion of the necessary documentation and consultations. In view of the above, the Proposer e respectfully request that the Proposal submission deadline may kindly be extended by four (04) weeks to enable prospective Proposers to complete all Technical and Commercial requirements and submit competitive Proposals. The Employer favorable consideration of this request will be highly appreciated.		Noted. It is hereby clarified that the extension in Proposal submission deadline has already been under consideration to facilitate Prospective Proposers. This request is being reviewed after due consideration of the prevailing circumstances, including the need for Proposers to coordinate with E&M Equipment Manufacturers and Suppliers, prepare Technically responsive and Commercially competitive Proposals. The extended Proposal submission date will be communicated through Addendum No. 02 to RFP/EPC Bidding Document which will be uploaded on EPADS v2.0 in due course of time.
5. Other Proposer Clarifications			
Clarification No. 01 on April 18, 2026			
1.	Volume-III Specific Provisions RFP/EPC Bidding Document, Package-III: Electro Mechanical Works **Metallic Coating (Sub-Section 2.1.17.3)**	**Corrosion Protection for Gate Leaves and Trash Rack Leaves** 。 Please confirm the Corrosion Protection scheme for Gate Leaves (including Trash Rack Leaves): (1) Shall zinc metal spraying be adopted for Corrosion Protection? (2) Shall the thickness of zinc spray be not less than 0.060 mm? (3) Shall paint systems be applied over the zinc-sprayed surface? (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.. All bolts, studs, nuts, washers, screws, etc., above size M-10, shall, if not made of stainless steel or other corrosion-resistant material, be hot dip galvanized. The 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.

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
		Paint Coating Thickness Requirements Please clarify the required total dry film thickness and layer-by-layer DFT for paint coatings on the following items: 1 Gate Recesses (Trash Rack Recesses) 2 Mobile Gantry Crane and Trash Rack Cleaning Crane 3 Hydraulic Hoist Cylinders	
Clarification No. 01 on April 18, 2026			
1.	2026-03-11, PKG III, Technical Provisions (With Remote Ends) Page 1-32, Page 1-33 Sub-section 1.3.11 & Sub-section 1.3.12	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 the OEM/Vendor demonstrates proven design practices and validated operating experience in the use of pin connections between the butterfly plate and valve shaft, this option may be considered and finalized during the detailed design stage by EPC Contractor, subject to Employer's approval and compliance with the overall Project requirements.
2.	2026-03-11, PKG III, Technical Provisions (With Remote End Line Bays) Page1-31, Page 1-33 Sub-section 1.3.6 & Sub-section 1.3.13.1	The discrepancies in the RFP/EPC Bidding Document. 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.	The final arrangement shall be determined by the EPC Contractor during the detailed design stage, subject to approval by the Employer
Clarification No. 05 on May 19, 2026			
1.	With due respect, it is submitted that your office advertised the bidding for Electrical and Mechanical (E&M) Works of the Attabad Lake Hydropower Project (54MW). We have noted that the Proposal submission date has been extended; however, no Addendum or Corrigendum to the RFP/EPC Bidding Document of Package-III, in this regard has been found on the EPADS v2.0 Application or any other available source.		Noted., it is hereby clarified that Addendum No. 01 to the RFP/EPC Bidding Document for Package-III (E&M Works) of the Attabad Lake Hydropower Project (54 MW) will be issued/uploaded on the EPADS v2.0 Application soon. The Addendum No. 01 to the RFP/EPC Bidding

Sr. No.	Reference Sub-Clause	Clarification Description requested from Proposers	Replies by AHMC
	In this connection, it is kindly requested to clarify the following points: Whether Proposers are requested to obtain manually issues RFP/EPC Bidding Document from the office of the Project Director, ALHPP WAPDA or if the soft copy downloaded from EPADS v2.0 Application shall be considered sufficient for participation in the Bidding process. Since no updated notice regarding the revised Addendum is currently available on the EPADS v2.0 Application, it is requested that the complete bidding procedure and updated schedule and all Addendum may kindly be communicated.		Document for Package-III (Electro-Mechanical Works**)** will include the all necessary amendments made in Volume-I and Volume-II of the RFP/EPC Bidding Document**.** Furthermore, Proposers are advised that the RFP/EPC Bidding Documents uploaded on EPADS v2.0 shall be downloaded directly from the application, and such downloaded copies will be considered sufficient and valid for participation in the bidding process.
Clarification on July 17, 2026			
1	It has been found that Sole proprietorship firms are not allowed to submit Proposal, requested to relax this restriction please.		Noted. It is clarified that the provisions of Part-D, Experience, Eligibility and Qualification Criteria, Section-III, Volume-I, RFP/EPC Bidding Document shall prevail.
Clarification on July 17, 2026			
1.	The Past Experience required by the Proposer can be met by a specialized Sub-Contractor for Qualification purpose? Please Clarify.		Noted. The Provisions of Sub-Clause 4.1 to Sub-Clause 4.2(c) of Part-D, Experience, Eligibility and Qualification Criteria, Section-III, Volume-I, RFP/EPC Bidding Document shall prevail.