**Aga Khan Rural Support Program (AKRSP)**

**REQUEST FOR QUOTATION (RFQ)**

**RFQ No: 834**  
**RFQ Date:** 22/07/2024  
**Submission Date:** 15/08/2024  
**Delivery Point:** Phur Khot,Torkhow Upper Chitral

**Subject: Request For Quotation**

Aga Khan Rural Support Program (AKRSP) invites certified service providers to submit sealed quotations for the**:** **Supply, Transportation and Installation of E&M equipment for Phur Khot MHP of 100kW capacity at Khot, Torkhow** Upper Chitral. The following Request for Quotation (RFQ) details the scope of requirements, terms & conditions, and evaluation criteria. Please carefully review and comply with the specifications outlined in this document.

**Scope of Requirements:** Vendors must thoroughly understand and comply with the requirements as outlined in the terms of reference. Any clarifications needed should be queried within the specified timeline.

**Terms & Conditions for Submission of Sealed Quotations:**

**Submission Requirements:** Quotations must be submitted on the company/organization’s official letterhead with a date, signature, and stamp.

**Compliance and Evaluation:** Quotations must meet all specifications, requirements, and offer the lowest price along with fulfilling other evaluation criteria. Non-compliant offers will be rejected.

**Price Calculation:** Any discrepancies between unit price and total prices will be recalculated by AKRSP, with the unit price prevailing. Suppliers must accept the corrected total price to avoid rejection.

**Price Variation:** No price variations due to market factors will be accepted after quotation submission. AKRSP reserves the right to adjust the quantity without changing unit prices or terms at the time of awarding the contract.

**Non-Binding:** AKRSP is not obligated to accept any quotation or award a contract. Suppliers are responsible for all costs associated with quotation preparation and submission.

**Conflict of Interest:** AKRSP emphasizes transparency and integrity. Vendors must disclose any conflicts of interest, including direct or indirect involvement of the vendor or its affiliates in preparing RFQ details. This ensures a fair process. We maintain zero tolerance for fraud and unethical practices, committed to upholding honesty, accountability, and compliance with our vendors.

**Transportation Responsibility:** Suppliers are responsible for safely transporting all materials to the project site.

**Travel and Accommodation:** Suppliers must arrange their travel, accommodation, and meals during the supply and installation period.

**Design Compliance:** All supplied items must adhere to approved and reliable design standards.

**Inspection and Rejection:** Materials will undergo inspection either at Chitral or the project site. Deviations from specified specifications can lead to material rejection, with the supplier bearing replacement costs.

**Evaluation Criteria:** Bids will undergo technical and financial evaluation.

1. **Technical Evaluation:** Under technical evaluation bidders will be evaluated on a” Pass “or “fail” basis following the criteria below.
   * **Work Experience**: The bidder shall present a minimum of 2 relevant references on assignments of similar size and nature and each assignment amounting to Rs 10 million contract value and completed in the last 10 years. He shall also provide a satisfactory detailed completion certificate/contract agreement specifying the contract value.
   * **Financial Capability**: Annual turnover for the last 3 years should be at least 15 million PKR and must be supported by original bank statements or a true copy of audited financial statements.
2. **Financial Evaluation:** The complaint and technically qualified bidder with the lowest bid will be awarded the contract.

**Payment Terms:** Payments will be made in four installments:

* 40% after material delivery to Chitral and inspection.
* 40% after material delivery to the work site.
* 15% after completion of installation and commissioning.
* 5% after successful completion of a one year defect liability period starting from date of installation.

**Taxes:** Quoted prices should be inclusive of all taxes.

**Mobilization Advance:** If requested, a mobilization advance requires a bank guarantee or call deposit equal to the advance amount.

**Rate Discrepancies:** Significant rate differences between quoted and market rates may lead to bid disqualification or procurement cancellation, and cartelization will result in backlisting. The same entity or individual can’t submit quotations under a different name.

**Validity Period:** Quoted rates should remain valid for 45 days.

**Cancellation Rights:** AKRSP reserves the right to cancel the procurement process at any stage without specifying reasons.

**Delivery & Installation Timeline:** All equipment must be delivered within 60 days of agreement signing. Installation, testing and commissioning must with done within 15 days after completion of civil works related to Powerhouse by AKRSP and community.

**Submission Deadline:** Sealed quotations must be submitted by hand or courier to Regional Office AKRSP near Shahi Qilla Chitral by COB August 15, 2024.

**Description of Work:** **Supply, Transportation and Installation of E&M equipment for Phur Khot 100KW MHP.**

**BOQ for E&M for Phur Khot 100KW MHP**

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| --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Items** | **Required Specifications** | **Unit** | **Quantity** | **Unit Rate** | **Total Amount** |
| **1** | **T-15 300 Turbine** | T-15 300 Turbine for Site Date Q =20 Cusec, Hn = 27m. The turbine should be designed following ENTEC licensed drawings, and using Jigs Fixtures and profile of a standard T-15 with no deviation from the original design. The runner side disks, plates, and runner blades and shaft should be fabricated **using SS 304 and** properly cut to match the profile of a standard T-15 runner to achieve maximum efficiency of 76%. Should include a foundation frame, Pulleys, and standard belts.  There should be some mechanism for water drainage at the bottom of the turbine body. | **No** | **1** |  |  |
| **2** | **Synchronous Alternator** | Alternator 100 kW 125KVA (0.8 PF) 4 poles, 1500RPM, 50Hz, 400V Brushless Dingol Brand | **No** | **1** |  |  |
| **3** | **MS Penstock Pipes** | MS Pipe 24" dia in segments of 10 feet,6mm thickness with flange 24" dia and 15mm thickness, along with rubber packing, Nut Bolts, and corrosive coating. **Bell Mouth and bend-making cost included**. Weight 27.7kg/foot without flanges, the approximate weight of each pipe should be 277kg without flange. The PCD of the flange should be designed and implemented on AutoCAD and the flange should be a single piece of material and properly lined and Machined surface. | **Rft** | **230** |  |  |
| **4** | **Air Vent Pipe** | MS Air Vent Pipe 4-inch dia 4mm thick with Length as per Forebay height with double side elbow type opening to prevent trash from entering the penstock | **No** | **1** |  |  |
| **5** | **Butterfly Valve** | Imported Butterfly Valve 24" with seat and spindle of Stainless steel, Tested Valve with no leakage if fully closed and smooth operation under full pressure operation. | **No** | **1** |  |  |
| **6** | **3 Phase Panel Board** | 3-Phase Panel board 125KVA With Instrumentation and protection mechanism and annunciation of digital V,A,PF,Hz meters and Fitted with power relay, overload protection relay, phase failure relay, temperature sensor, three phase Energy meter by Vertex Electronics and MCCB 125A with tripping mechanism, made by Mitsubishi, Merlin or Siemens. | **No** | **1** |  |  |
| **7** | **Hydraulic Governor** | Hydraulic Governor with standard pressure Hose, Hydraulic Oil preferable ISO VC 32, or 46. Standard Motor for governor operation with control wires and protection mechanism. The Haydauric Jack should be made of stainless steel with proper machining as per standard design with respect to the turbine data. | **Set** | **1** |  |  |
| **8** | **4 Core Cable (Copper)** | 4-Core insulated cable for generator-to-panel connection, and from panel-to-transformer complete connections, 95mm2 Copper Cable made by AGE, New Age, or FAST Cables brand | **Meter** | **20** |  |  |
| **9** | **MS Sluice Gates for Channel and Settling Basin** | Sluice Gates for Chanel & Gravel Trap, where the size of two (No) sluice gates for the channel should be 4x5ft frame and 4x2.5ft sheet 8mm thickness and size of gravel trap sluice gate should be 2x6ft frame and 2x4ft sheet 8mm thick with properly designed spindle and bearing arrangement for smooth operation and minimum leakages. | **No** | **3** |  |  |
| **10** | **Flush Valve Sluice** | Flush valve sluice with 60 ft pipe 6-inch dia 4mm thick, along with Gate valve 6-inch dia connected at the forebay through flanges to these pipes. This work should include a complete welding arrangement and the cost to connect these pipes from the forebay to the spillway pipe at the site safely without any leakages. | **Work** | **1** |  |  |
| **11** | **MS Trash Rack** | Mild Steel Trash Rack as per bell mouth profile 5x4ft with flat vertical bars 6mm thick, mesh size 1.5inch x 6inch, for channel the trash rack should be 4ft wide and 3ft height with flat vertical bars 2inch x 6 inches. | **No`** | **2** |  |  |
| **12** | **E&M Tool kit** | E&M Tool kit with all the necessary items like Screw wrench, spanner set, L Key set including No. 12mm and No. 14mm, Plier, Nose plier, Screw Driver Long, Flat Head and Hex, Hamer, Hacksaw, Cable Splicer, Grease gun, wire cutter, Large Puller, Solder, Soldering iron, Digital Clamp meter by Uni-T Brand, water level, Safety Belt, Safety Golves,Safety Hat, 0.75 Ton Ratchet block set for T&D Stringing and 2 Ton Chain Block for Powerhouse.  . | **No** | **1** |  |  |
| **13** | **Expansion joint** | Expansion Joint 24" Sliding type with standard seal and joints, with proper finishing to avoid leak during operation. | **No** | **3** |  |  |
| **14** | **MS Spillway pipe** | MS Spillway pipes 18-inch dia 4mm thickness along with Flange 12mm rubber packing nut bolts and anti-corrosive coating complete. 138 kg per 10ft pipe and 13.87kg/feet of pipe alone. | **Rft** | **260** |  |  |
| **15** | **Lightening Arrestor** | Lightning Arrestor set copper horn type with rod base and ball, copper wire 8SWG 30ft | **Set** | **1** |  |  |
| **16** | **Earthing Equipment** | Earthing Plate Set & Copper 99%, 8mm 1x1ft, earth Wire 20ft +Earthing Powder Complete set | **Set** | **1** |  |  |
| **17** | **Electrification** | Electrification of powerhouse with conduit wiring and standard Switch Board+Box (8+2) 2 Nos, (2+2) 1 No, Power Plugs board 2 Nos with box, including wires 7.029 and 3.029 and wire channels/or pipes 8ft 12 Nos for complete electrification along with conduit pipes and other accessories, SMD Downlights 20W 8 Nos, Waterproof Floodlights 50W 3 Nos with extra insulated wire 2 core 140 meters upto the Forebay tank for safety at night. Items like steel nails, screws and minor accessories should also be included. The package should include all the items and the wiring cost at the site as per the engineer's instruction for complete work. | **Work** | **1** |  |  |
| **18** | **Transportation** | Transportation Cost of all equipment from Suppliers' premises to the Powerhouse Site 150km from Chitral town to Phur Khot, Torkhow Upper Chitral. The bidder should verify the project location beforehand | **L/S** | **1** |  |  |
| **19** | **Installation, Testing, and Operation** | Complete Installation of All the E&M Equipment including Turbine with foundation, Penstock Pipes, spillway pipes, Alternator, Cable laying, and connections, The governor should be pre-tested and ready for operation with minor adjustments necessary at the site for the successful testing at rated capacity and handover to AKRSP. During Installation, All the labor costs for delivering penstock and spillway pipes to the installation location should be the responsibility of the supplier.  **Operation of MHP**  The Supplier will be responsible for deputing a technical staff at the site for one month (whose cost should be included in this portion) and training the local operators with the operation and maintenance mechanisms of the power plant. | **L/S** | **1** |  |  |