PAKHTUNKHWA ENERGY DEVELOPMENT ORGANIZATION

GOVERNMENT OF KHYBER PAKHTUNKHWA PESHAWAR

mnMINUTES OF MEETING

Project Name:	i. Solarization of Masajid & Worship places of Khyber Pakhtunkhwa (Additional 1440 Masajid) ii.Solarization of 2000 Masajid in Merged area (Additional 1050 Masajid)
Meeting Agenda:	Pre-Bid meeting for Hiring of Contractors
Venue of Meeting:	Conference Room, PEDO House Phase V, Hayatabad, Peshawar
Date & Time:	July 16, 2026
Participants Employer	
Khurram Durrani	Chief Engineer (RE/PP), PEDO
M. Kamran Khan	Project Director Solar, PEDO, Chair
Mr. Yaser Farman	Deputy Director (P&C), PEDO
Zain ul Arifeen Khalil	Assistant Director (Development), PEDO
Aziz-Ur-Rahman	Assistant Director (Finance), PEDO
Kashif Mushtaq	Regional Manager Solar, PEDO
Zahid Ali	AM (P&C), Solar
Adeel Miandad	AM (P&C), Solar
Participants Consultant	
Aamir Shah	GM (Building & Contracts)
Participants Contractors	
Tahir Ullah	Akhunzada Associates Pvt Ltd
Syed M Imran	MAK Pumps Company Pvt Ltd
S. Siyaf Ahmad	PAK Reliable Engineering Co. Pvt Ltd
Arif Wazir	Renewable Power Pvt Ltd
Jawad Hussain	Solar Tech Pvt Ltd

Attendance sheets duly signed by the participants attached at **Annex-A**.

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The meeting commenced with the recitation of the Holy Quran. Thereafter, the Project Director (Solar), PEDO, warmly welcomed the participants and provided a brief overview of the two projects, namely the Solarization of 5000 Masajid and Worship Places of Khyber Pakhtunkhwa (Additional 1,440 Masajid) in the Settled Districts and Solarization of 2000 Masajid in Merged Area (Additional 1,050 Masajid) in the Merged Districts of Khyber Pakhtunkhwa. The Project Director informed the participants that the procurement process for engaging the pre-qualified contractors for the execution of these projects had been initiated through the issuance of the Invitation for Bids.

The Chair then invited the Project Consultant to deliver a presentation on the Invitation for Bids and the Bid Solicitation Documents (BSDs). Through a comprehensive presentation, the Consultant explained the purpose, structure, and key provisions of the BSDs, emphasizing that the bidding process had been designed to ensure fairness, transparency, equal opportunity, and compliance with the applicable procurement rules. The Consultant highlighted the principal sections of the BSDs, including the Invitation for Bids, Instructions to Bidders, Bidding Data Sheet, Forms of Bid, Schedules of Bid, Conditions of Contract, Technical Specifications, Drawings, and other relevant contractual requirements.

Following the detailed presentation, the representatives of the pre-qualified contracting firms raised a number of queries and sought clarifications on various provisions of the bidding documents. Each query and objection was addressed individually by the Chair and the Project Consultant through open discussion to ensure that all participants received consistent and transparent clarifications. The detailed queries raised by the participating firms, together with the corresponding responses and clarifications, are attached as **Annex-B** to these minutes.

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Annex-A

ATTENDANCE SHEET OF MEETING
PRE-BID MEETING FOR SOLARIZATION OF MASJID'S & WORSHIPS PLACES OF KHYBER PAKHTUNKHWA

16th July , 2026

Sr.#	Name	Department	Designation	Signature
1.	Muhammad Kamran Khan	PEDO	PD Solar	
2.	Zain ul Arifeen Khalil	PEDO	AD (Dev.)	
3.	Aziz-ur-Rahman	Finance. PEDO	AD (F)	
4.	Aamir Shah	GM, Bldg Engineering	GM Building & Contracts	
5.	Zahid Ali	PEDO	AM (P&C) - Solar	
6.	Adeel Miandad	PEDO	AM (P&C) - Solar	
7.				
8.				

PAKHTUNKHWA ENERGY DEVELOPMENT ORGANIZATION

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ATTENDANCE SHEET OF MEETING
PRE-BID MEETING FOR SOLARIZATION OF MASJID'S & WORSHIPS PLACES OF KHYBER PAKHTUNKHWA

16th July , 2026

Sr.#	Name	Firms Name	Designation	Signature
1.	TAHIR ULLAH	Akhunzada Associates (Pvt) Ltd	Mechanical Engineer.	
2.	Arif Wazir.	Renewable Power (PVT LTD)	G. M.	
3.	Sahibzada Siyaf Ahmed	Pak Reliable Engineering Co pvt Ltd	Director	S Ahmed
4.	Syed M Imran	M/S MAK Pumps Co.	R. S. M	16/07/26
5.	Ishaq Ahmad	M/S MAK Pumps Co.	Engr.	
6.	Jawad Hussain	M/S Solartech pvt ltd	Head Engineer KPK	
7.				
8.				

ATTENDANCE SHEET OF MEETING
PRE-BID MEETING FOR SOLARIZATION OF 2000 MASJID'S IN MERGED AREA

16th July , 2026

Sr.#	Name	Firms Name	Designation	Signature
1.	TAHIR ULLAH	Akhunzada Associates (Pvt) Ltd	Mechanical Engineer	
2.	Syed M Imran	M/S MAK Pumps Co.	R.S.M	16/07/26
3.	S. Siyaf Ahmad	Pak Reliable Engineering Co	Director	
4.	Arif wazir	Renewable power pvt LTD	G.M.	
5.	Jawad Hussain	M/s solartech pvt ltd	Head Engineer KPK	
6.				
7.				
8.				

ATTENDANCE SHEET OF MEETING
PRE-BID MEETING FOR SOLARIZATION OF 2000 MASJID IN MERGED AREA

16th July , 2026

Sr.#	Name	Department	Designation	Signature
1.	M. Kamran Khan	PEDO	PD Solar	
2.	Zain ul Arifeen Khalil	PEDO	AD (Dev.)	
3.	Aziz-ur-Rahman	Finance, PEDO	AD (F)	
4.	Aamir Shah	Bass Engineering	GM (Building Contracts)	
5.	Zahid Ali	PEDO	AM (P&C)-Solar	
6.	Adeel Miandad	PEDO	AM (P&C) - Solar	
7.				
8.				

Annex-B

S #	REFERENCE/QUERY OF BIDDERS	CLARIFICATION/RECOMMENDATIONS OF PMC	DECISION BY CHAIR
1	Referring to Item 3 of the Bidding Data Sheet, the bidder requested the Chair to relax the requirement relating to the submission of the Power of Attorney, citing the temporary unavailability of the Chief Executive Officer (CEO)/Director, who is the authorized signatory, for its execution and signing.	The Project Consultant informed the participants that the requirement for submission of a Power of Attorney could not be relaxed, as it is a mandatory requirement under Clause 17.5 of the Instructions to Bidders and is in accordance with the prevailing Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA) Rules and the applicable Pakistan Engineering Council (PEC) regulations. The Consultant further explained that Clause 17.5 of the Instructions to Bidders explicitly requires that the authority of the person signing the bid on behalf of the bidder shall be evidenced through a written Power of Attorney authorizing the signatory to act for and on behalf of the bidder. Accordingly, the requested relaxation could not be considered.	Agreed with the recommendations of PMC.
2	Referring to the Preamble to the Conditions of Contract, Sub-Clause 1.1.11, a bidder sought clarification regarding the commencement of the Defects Liability Period (DLP). The bidder noted that each contract package comprises more than 350 individual sites and requested that the DLP should commence separately for each site upon its respective completion and taking over, rather than commencing for the entire project/package upon overall completion.	The Project Consultant reviewed the bidder's request and recommended its acceptance. Considering the nature of the project, which comprises multiple independent installation sites, it was recommended that the Defects Liability Period (DLP) shall commence separately for each completed system rather than for the entire contract package. Accordingly, Sub-Clause 1.1.11 of the Preamble to the Conditions of Contract shall be amended and read as follows: "The Defects Liability Period (DLP) shall be twenty-four (24) months and shall commence from the date of signing of the	Agreed with the recommendations of PMC.

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		Handing Over/Taking Over Certificate for each individual site by the Engineer."	
3	The bidder pointed out a discrepancy regarding the battery capacity specified in the Bidding Documents. They observed that the BoQ pricing appears to correspond to a battery with a usable capacity of approximately 3.55 kWh, whereas the Technical Specifications require a 4.8 kWh battery. Accordingly, the bidders requested clarification on the required battery capacity, specifically whether the specified 4.8 kWh refers to the nominal (rated) capacity or the usable (deliverable) capacity of the battery system.	The Project Consultant clarified that, as per the approved PC-I, the required battery capacity is 3.55 kWh, and the Engineer's Estimate and BoQ pricing have also been based on this capacity. The reference to a 4.8 kWh battery in the Technical Specifications was included during market analysis to reflect a commonly available commercial battery size; however, it was not intended to change the minimum capacity requirement under the Contract. In view of the financial constraints and the approved PC-I provisions, the minimum required battery capacity shall remain 3.55 kWh. Accordingly, it is recommended that the description of Item No. 8 of the BoQ be amended to read as follows: "LiFePO4 battery as per approved specifications (equal or greater than 3.55kWhr)"	Agreed with the recommendations of PMC.
4	The bidder mentioned that as per the Government of Khyber Pakhtunkhwa (GoKP) Approved Solar Specifications (Version-1), products from manufacturers other than the Original Equipment Manufacturer (OEM) may be accepted by the Consultant/Employer, provided that the Contractor submits the required brochures, technical data sheets, test reports, and certifications demonstrating full	The Project Consultant clarified that, in accordance with the Approved Solar Specifications – Version 1 of the Government of Khyber Pakhtunkhwa (GoKP), products manufactured by entities other than the Original Equipment Manufacturer (OEM) may be considered for approval and installation, provided that such products fully comply with the approved technical specifications, certifications, satisfy all applicable quality and performance requirements, and are approved by the Engineer in accordance with the provisions of the Contract.	Agreed with the recommendations of PMC.

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	compliance with the approved Government specifications and the bidding documents. **Therefore**, we respectfully **request** that restrictions on **manufacturers** or specific brands be relax kindly, **allowing us to offer any products** that fully comply with **the prescribed technical specifications**.		
5	The bidder mentioned that in accordance **with** the KPPRA notification dated 10 feb, 2021 (S.R.O No. 10/Vol: 1-18/2020-21, all procuring entities are **required** to include the prescribed **taxable and tax-exempt bifurcation** in the bill of quantities. However, the **same has not been incorporated in the present bidding** documents. It is therefore, **requested that the BoQ be** amended accordingly to **comply with the mandatory** requirements of the **said notification**.	The Project Consultant clarified that the treatment of taxes has already been adequately addressed in the Schedule of Prices – Summary of Bid Prices. It is categorically stated in the Bidding Documents that all quoted rates shall be inclusive of all applicable Government taxes, and that all applicable taxes shall be deducted at the time of payment in accordance with the prevailing Government laws/rules. The Project Management Consultant (PMC) further clarified that, in accordance with the provisions of the Contract, the Employer reserves the right to require the Contractor, at the time of submission of each Interim Payment Certificate (IPC), to provide a detailed breakdown of the applicable taxes and documentary evidence of taxes paid or exemptions, where required for verification and processing of payments. Furthermore, the PMC explained that the procurement documents for the hiring of the Contractor have already been approved by the Employer for procurement under the Single Stage – Single Envelope bidding procedure. The Engineer's Estimate and the Schedule of Prices have been prepared on the	After detailed deliberations and consultation with the Procurement & Contracts (P&C) Section and the Finance Section of PEDO, the Chair concluded that, in addition to quoting the bid price in the Schedule of Prices – Summary of Bid Prices on an Above/Below/At Par basis, each Bidder shall also complete and submit the tax bifurcation proforma attached as **Appendix-B**. The purpose of the proforma is to provide a detailed breakdown of the applicable taxes included in the quoted rates for evaluation, financial verification, and subsequent

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		basis of the MRS 2022 (2nd Bi-Annual) rates, as prescribed by the Finance Department for execution of works contracts. Since the applicable taxes are already embedded within the MRS rates and the Bidding Documents require bidders to quote inclusive rates, any requirement for bifurcation of taxes at the bidding stage or modification of the BoQ format may create unnecessary ambiguity and inconsistencies in bid evaluation. Accordingly, no separate tax bifurcation in the BoQ is considered necessary at the bid submission stage.	payment processing. Submission of the duly completed **Appendix-B** shall form part of the Financial Proposal.
6	It is further observed that the technical specifications require a 48V Solar Off-Grid Hybrid Inverter having a High Voltage String Capability (Voc >400V) together with a mandatory WIFI/GSM Remote Monitoring System. These requirements appear unnecessarily restrictive and are not technically justified. The BOQ provides for only three (03) solar panels, having a combined operating voltage (Vmp) of approximately 120V. Consequently, requiring an inverter capable of handling a string voltage exceeding 400V serves no practical purpose for the proposed system configuration. Such a specification unnecessarily limits competition, as only a limited number of manufacturers offer 48V inverters with this capability. Likewise, the mandatory requirement of WIFI/GSM remote monitoring is impractical considering that internet connectivity remains unavailable or unreliable in many areas of Khyber Pakhtunkhwa particularly in the Merged Districts. Moreover, products	The Project Management Consultant clarified that the High Voltage String Capability (>400 V) and WIFI/GSM Remote Monitoring are mandatory requirements as specified in the approved PC-I, Technical Sanction, and the BSDs. It was further explained that projects of a similar nature and design are already under implementation by PEDO, and no operational or technical issues have been encountered that would warrant any relaxation of these design requirements. Most inverter manufacturers offer high-voltage string inverter models as part of their standard product portfolio. These models are readily available in the market and can be procured and installed without any significant technical or commercial constraints. Accordingly, all bidders shall quote products strictly in accordance with the technical requirements specified in the BSDs. No relaxation or deviation from the prescribed minimum technical specifications shall be permitted.	Agreed with the recommendations of PMC.

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	incorporating both features are available from only a few manufacturers, thereby restricting fair competition. It is therefore requested that the requirements relating to High Voltage String Capability (>400V) and mandatory WIFI/GSM Remote Monitoring be omitted from the technical specifications so that broader market participation may be ensured without compromising system performance.	Therefore, the relevant provisions of the BoQ shall remain unchanged.	
7	It is further observed that the bidding documents prescribe a period of four (04) months for completion of site surveys, approvals, Factory Acceptance Tests (where applicable), and procurement of all materials, followed by eight (08) months for supply, installation, testing, and commissioning. While the Procuring Entity may prescribe the overall Time for Completion of the Works, it is neither appropriate nor justified to impose a mandatory timeline for procurement activities. Procurement of materials is an internal commercial and contractual function of the contractor and depends upon various factors, including manufacturing lead times, supplier commitments, import procedures, logistics, and the actual commencement of the Works. Accordingly, the Procuring Entity should prescribe only the overall contractual completion period, while allowing the contractor to plan and execute procurement in the most efficient manner, provided that the Works are completed within the stipulated Time for Completion.	The PMC clarified that, in accordance with the Client's requirements, the division of the project implementation timeline into two phases is appropriate and justified. Accordingly, no relaxation in the prescribed phasing of the Work Plan shall be permitted. The PMC further explained that, to facilitate the Contractor's cash flow and financial requirements, provisions for Advance Payment and payment against procurement and delivery of materials to the Contractor's warehouse, as specified in the BSDs, have already been incorporated. Accordingly, the Contractor shall complete the procurement of all project materials within four (4) months from the date of issuance of the Commencement Letter by the Engineer, and this procurement schedule shall be clearly reflected in the Contractor's proposed Work Programme. Bidders shall prepare and submit their Work Programmes strictly in accordance with the milestones, checkpoints, and implementation phases specified in the issued BSDs. Any	Agreed with the recommendations of PMC.

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	Furthermore, under Section 22 of the KPPRA Act, 2012, the Procuring Entity is responsible for procurement planning and ensuring the availability of funds before proceeding with the procurement process. If funds for the entire project are not available, the Procuring Entity cannot reasonably require the contractor to procure materials for all sites within four (04) months. Such a condition is inconsistent with the principles of procurement planning envisaged under Section 22 of the KPPRA Act and places an unjustified financial burden on the contractor. It is therefore requested that the mandatory procurement milestone be deleted and replaced with an overall contractual Time for Completion.	deviation from the prescribed project implementation schedule or phasing requirements may render the bid non-responsive and liable to disqualification.	
8	It is observed that Clause 47.1 of the SBD provides a Price Adjustment Formula in which imported items, including Solar PV Panels, Inverters, and Batteries, have been included as element. However, under the PEC Standard Bidding Documents, the price adjustment applicable to imported items is based solely on fluctuations in the Foreign Exchange Rate, calculated between the Base Date (twenty-eight days prior to the bid submission date) and the Current Date (twenty-eight days prior to the relevant Interim Payment Certificate). Therefore, the inclusion of imported items as separate elements in the formula results is inconsistent with the PEC Price Adjustment formula. It	The Project Management Consultant has corrected the formula, and the revised PCC Sub-Clause 47.1 is attached as **Appendix-A** for information and necessary reference.	Agreed with the recommendations of PMC.

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	is therefore requested that all imported items, including Solar Panels, Inverters, Batteries, and other imported equipment, be adjusted strictly through the Foreign Exchange Rate component as prescribed under the PEC SBDs, while the Price Adjustment Formula should be limited to locally sourced cost components such as steel, copper cables, labour, POL, and other local materials.		
9	It is observed that the pre-bid meeting refers to a separate bifurcation for taxes. However, the subject procurement is a works contract, for which Sales Tax is generally not applicable as a separate item. Furthermore, the applicable taxes are already incorporated in the Market Rate System (MRS) rates. Therefore, it is requested that the Procuring Entity kindly clarify that the above/below percentage bidding procedure shall be followed on the MRS-based BOQ.	The matter has already been discussed under Section 5 above.	The matter has already been discussed under Section 5 above.
10	Under Sub-Clause 10.1, the successful contractor is required to provide 8% Performance Security in the form of Bank Guarantee, in addition to 2% Bid Security (CDR), it is respectfully requested that the performance security arrangement may kindly be revised as 4% Bank Guarantee, 4% Retention Money, 2% Bid Security (CDR)	As per the KPPRA Rules and PEC Guidelines, Performance Security cannot be substituted or converted into Retention Money. Accordingly, it is recommended that the PCC Sub-Clause 10.1 shall remain unchanged.	Agreed with the recommendations of PMC.
11	It is stated in the bidding documents that the procurement period for the project is four (4) months. However, in the event that the release or availability of project funds is delayed by the Procuring Entity, the contractor should not be held responsible for delays beyond its control. Therefore, it is requested that a	The matters relating to delayed payments or unavailability of funds by the Employer, extension of time, Employer's default, Contractor's default, and delays in the completion of the Works or any part thereof are already comprehensively governed by the Contract. These matters are adequately addressed in the	

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	provision be incorporated in the bidding documents stating that if the availability or release of funds is delayed by the Procuring Entity, the procurement period shall be extended accordingly without any penalty or adverse implications for the contractor.	Preamble to the Conditions of Contract, General Conditions of Contract (GCC), and Particular Conditions of Contract (PCC).	

<u>Other Instructions to bidders:</u>

1. Refer to the point 05 of the "Invitation of Bid" may be read as

   "The pre-qualified bidders may obtain further information, inspect, and acquire the Bidding Documents from the office of the Employer at the address given below during working hours, or download them from e-PADS upon submission of a written application along with a non-refundable fee of PKR 5,000/-, in the form of a Bank Draft from a scheduled Bank of Pakistan, in Favor of "CEO, PEDO".

2. At EPAD the Bid Solicitation Documents of the project "Solarization of 2000 Masajid in Merged Area (Additional 1050 Masajid)" are mistakenly uploaded, therefore kindly consider the BSDs sent via email to the Pre-Qualified firms for the project "Solarization of Masajid & Worship Places of Khyber Pakhtunkhwa (Additional 1440 Masajid)".

3. Reference is invited to Point No. 09. The Bid Security may also be submitted in the form of a Bank Guarantee using the prescribed Bid Security Form. The standard format of the Bank Guarantee is attached as **Appendix-C**.

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Appendix-A

Sub-Clause 47.1 Labour, Materials and Transport:
PRICE ADJUSTMENT

Price adjustment shall be applicable to the Contract strictly in accordance with the latest Pakistan Engineering Council (PEC) Standard Procedure and Formula for Price Adjustment (as amended from time to time), read together with the provisions of this Contract.

Price Adjustment shall be applicable only to the value of work executed within the original Contract Period or approved Extension of Time (EOT).

The Contract Price shall be subject to adjustment for variations (increase or decrease) in the cost of local materials, imported equipment, electrical items, and other eligible inputs, subject to the conditions specified herein. Price adjustment shall only be applicable to the value of work executed within the original contract period or approved extension thereof. For the purpose of Price Adjustment, only the following components having a cost impact of three percent (3%) or more of the Engineer's Estimate shall be eligible.

1. Classification of Components

For the purpose of price adjustment, the Works shall be classified as follows:

(a) Imported Items:

- Solar PV Panels
- Inverters
- Batteries
- Any other equipment or components of items sourced from outside Pakistan as approved by the Engineer

(b) Electrical Items (Local):

- Cables (Copper)
- Stabilizer (Copper)
- Earthing system components (Copper)
- Fans (Copper)
- Cabinet (Steel)
- Mounting structure and nuts/bolts (Steel)

Any item having a cost impact of less than three percent (3%) of the Engineer's Estimate shall not be considered for Price Adjustment

2. Price Adjustment Formula

The Price Adjustment Factor (Pn) shall be computed as per PEC methodology:

Pn = A1 + A2 + b (Cun/Cuo) + c (St.n/St.o)

Where:

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- Pn = Price adjustment factor
- A1 = Fixed (non-adjustable) portion percentage
- A2 = Imported Items portion percentage
- b & c = Weightages of copper and steel components respectively
- Cu = Electrical items (Copper)
- St. = Electrical items (Steel)
- PV = Solar PV modules (imported)
- INV = Inverters (imported)
- BAT = Batteries (imported)
- o = Base index (28 days prior to bid submission date)
- n = Current index for the billing period

If "**P**" is the amount payable (prior to adjustment) at the rates entered in the Price Schedule of the work carried out in period "n" then, Adjusted amount payable to the Contractor for the work carried out in the period "n" shall be equal to **Pn*P**.

For the purpose of calculating **Pn**, the coefficient for each element shall be used irrespective of the actual constituents of the work performed during the billing period.

3. Indicative Weightages

The following weightages shall apply based on BOQ verification and Engineer's approval:

• A (Fixed Portion) =	30%
• Electrical Items (EL) =	20%
• PV Modules (PV) =	15%
• Inverters (INV) =	10%
• Batteries (BAT) =	25%
Total =	100%

4. Exchange Rate & Imported Items Adjustment

For imported items (PV modules, inverters, batteries), price adjustment shall additionally consider:

- For imported items (PV Modules, Inverters, Batteries), Price Adjustment shall additionally consider variations in the USD/PKR exchange rate as notified by the State Bank of Pakistan (SBP). For imported plant/ equipment and materials quoted in local currency (Pak. Rs.), foreign currency, exchange rates shall be fixed at the respective interbank currency exchange rates, 28 days prior to the tender opening date. The change in foreign currency exchange rate will be applicable to the foreign currency component stated in the Letter of Credit or Goods Declaration established by the Contractor or his Vendor.
- The applicable exchange rate shall be the SBP TT&OD selling rate prevailing twenty-eight (28) days prior to the Bid Submission Date for establishing the base, and as applicable during the billing period for adjustment.

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5. Base Date, current date Indices/prices and sources of Prices

- The base date price (or base date index) of any element shall be the price of the element for the month on the day falling 28 days prior to the latest day for submission of bids.
- The current date price (or current date index) of any element shall be the price of the element for the month falling on the day 28 days prior to the last day of the period to which the particular Payment Certificate relates.
- Indices shall be taken from PBS, SBP, PEC publications, or other officially recognized sources approved by the Engineer. The prices of elements subject to Price Adjustment shall be to the extent possible as given in the Statistical Bulletins published by Federal Bureau of Statistics (FBS), Statistical Division Government of Pakistan. Statutory notifications and official price from public sector organizations, where available, may be used at the option of the Engineer.

6. Conditions for Application

- Price Adjustment shall apply only to eligible items actually procured during the Procurement Phase and incorporated into the Works.
- Procurement of all major BOQ items shall be completed within the Procurement Phase, i.e., within four (04) months from the date of commencement as notified by the Engineer.
- Failure to complete procurement within the prescribed Procurement Phase shall render the Contractor ineligible for Price Adjustment on the corresponding delayed items or quantities.
- Price Adjustment shall be calculated only on quantities certified by the Engineer and supported by documentary evidence.
- The Contractor shall submit all supporting documents, including purchase orders, invoices, import documents, bills of lading, customs clearance documents, warehouse records, goods receipt notes, and any other evidence required by the Engineer for verification of the claim.
- Price Adjustment may be positive or negative depending upon the variation in applicable indices and exchange rates.
- No Price Adjustment shall be payable for delays attributable to the Contractor.
- No Price Adjustment shall be payable beyond the original Contract Period unless an Extension of Time (EOT) has been granted by the Employer for reasons not attributable to the Contractor.
- The Engineer shall verify and certify all Price Adjustment calculations prior to submission to the Employer for approval.

7. Final Determination

The Engineer's determination of price adjustment shall be final and binding, subject to approval by the Employer, and shall form part of the certified IPCs.

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Appendix-B

Bill of Quantity on MRS 2022 (2nd Bi-annual)

S #	MRs/NSI	Item Code	Description	Unit	Qty	Unit Price	Total Price
1	MRS	26-01-d-01	PV Modules as per approved specifications	Watts	2160	114.60	247,536.00
2	MRS	26-01-i-05	48V Solar OFF-Grid Hybrid Inverter as per approved specifications • Inverter having High Voltage string (Voc > 400V) arrangement capability are allowed only. • Inverter shall have battery less operation mode. • Inverter shall have remote monitoring system (Wifi/GSM)	Watts	3000	29.48	88,440.00
3	NSI		Supply and Installation of stabilizer & shall be automatic Preferred servo-based, with a rated capacity of 6 kW, and compatible with 50 Hz frequency. It must use transformer windings and internal wiring made of copper with a minimum purity of 99.9% ±0.1%, verified by a certified lab. A circuit breaker rated at 1.25 to 1.50 times the input current shall be installed for protection. The stabilizer shall automatically disconnect power if input voltage exceeds 270V and maintains at least 90% efficiency at voltages =120V, delivering regulated output between 210V–250V and supporting 50% load at that input. It shall include a three-pin plug and switch, digital voltmeters/ampere meter for input/output, and an exhaust fan with automatic temperature control. LED indicators for system faults are also required.	No.	1	26,000.00	26,000.00
4			Miscellaneous Items:				
a	NSI		25A AC Breakers 2-P b/w inverter and WAPDA	No.	1	707.40	707.40
b	NSI		6A AC Breaker 1-P b/w inverter and Energy efficient load-01	No.	1	658.80	658.80
c	MRS	15-71-b	15A/6A AC Breaker 1-P b/w inverter and Energy efficient load-02	No.	1	658.80	658.80

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d	NSI		15 Amp DC Breakers 2-P b/w inverter and PV Modules (Per String)	No.	1	1,000.00	1,000.00
e	NSI		63A DC Breaker 2-P per String b /w inverter and Battery Bank	No.	1	3,000.00	3,000.00
f	NSI		Changeover Switch 30 Amp	No.	1	1,000.00	1,000.00
g	NSI		Earthing Rod 6 Feet Long & 16 mm diameter to be connected to copper Earthing plate of 4mm thickness and size minimum 1.0 * 1.0 Ft. The sizing of Earthing conductor/cable will be 06 mm sq. at least. OR Earthing/Grounding: An earthing system shall be installed comprising a 3-inch diameter bore, 10.5 feet deep, housing a 1" GI pipe electrode (9 ft length (8.5 ft below ground and 0.5 ft above with in the pit) with the bottom 3 ft perforated to enhance soil contact and improve conductivity. The bottom end of the GI electrode shall be threaded to connect a 25 mm × 1 ft pure copper spike. The top end of the GI electrode shall also be threaded for cap fitting. The copper spike's top end shall be equipped with two connection knobs for independent AC and DC terminations, using stainless steel (SS) thimbles to prevent corrosion and ensure reliable connections. An HDPE pipe (25 mm dia) shall be installed beneath the pit for routing 6 mm² bare copper cables. A reinforced concrete manhole (1 ft × 1 ft × 1 ft) shall be constructed as the earthing inspection pit. The manhole shall be provided with a fiberglass or heavy-duty plastic cover for protection and inspection access. The bore shall be backfilled with Ground Enhancement Material (GEM) and adequately watered to ensure low and stable earth resistance. OR any other solution as per specifications provided.	No.	1	20,000.0 0	20,000.00

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			Note: The design of earthing system must be approved from the Project Consultant				
h	NSI		Cabinet for Complete System (18 SWG), powdered coated/Galvanized (For the items to be placed inside the cabinet that's are Inverter/Stabilizers/Breakers, battery bank/changeover etc.).	No.	1	20,000.00	20,000.00
i	NSI		AC Surge Protection Device (SPD) 2-P of a suitable size of minimum 20kA discharge current (≥300V) and rating shall be installed at input of the inverter.	Job	1	100,000.00	100,000.00
j	NSI		Separate AC Over Voltage protection device 2-P (≥ 400Vac) shall also be installed at the input & Output of the inverter.				
k	NSI		AC Cables 7/0.036 (4 mm sq.) from Grid to stabilizer and to inverter (Neutral+ Phase)				
l	NSI		AC Cables 7/0.036 (4 mm sq.) From Inverter to Distribution Box (Neutral+ Phase)				
m	NSI		AC Cables 3/0.029 (1.5 mm sq.) from Distribution Box To energy efficient load, Neutral+ Phase (if required as per Engineer instruction)				
n	NSI		DC Flexible Copper Cables 6 mm sq. single Core per String, Fitted in HDPE Pipe (1")				
o	NSI		DC Flexible Copper cables 35 mm sq. single core cables between Inverter and Battery				
p	NSI		Flexible PVC Pipe, PVC Duct Patti, HDPE Pipe etc. for cable ducting				
q	NSI		Switches 10/15 Amp: On/Off Switches, Plug, Distribution Board, etc.				
r	NSI		Copper Thimbles, Sleeves, Butt Joint Connectors, Ring Thimbles, PVC Shrouds, Heat Shrink Tubes for all termination, connection and jointing as per International Practice				
s	NSI		Inverter, Batteries and Protective Devices must be Labelled Properly				
t	NSI		Inauguration Board / Information Board, having approximate dimensions				

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			12" * 15" (Width*Length) steel sheet and embossed writing.				
u	NSI		User manual Board, having dimensions 12" * 15" (Width*Length) steel sheet and embossed writing.				
v	NSI		Any Other necessary item required as per the Engineer instruction				
5	NSI	26-01-h-01	MC-4 connectors	Pair	6	342.92	2,057.52
6	MRS	26-01-l-01	Energy Efficient Ceiling Fan (50-55 Watts) 54"-56" Blades as per approved specifications. Note: The AC energy-efficient ceiling fan shall have a rated power between 50 watts and a sweep size of 54" to 56", operating at 220–230 VAC (±10V). It must deliver a service value of = 4.5 m^3/min/W, with an insulation class of at least 155 (F-Class) and noise levels within acceptable comfort limits. A ±10% variation in power consumption is permissible as per PSQCA/NEECA standards. The motor core shall be made of electrical steel sheet, and the winding wire shall consist of 99.9% super enameled copper (CA wire) or 99.9% pure copper wire. The fan must be NEECA certified and clearly marked with the manufacturer's model number, rated voltage, and wattage in accordance with NEECA guidelines	No.	7	7,100.77	49,705.39
7	MRS	26-01-c-10	Energy Efficient LED Light Bulbs (14-16 Watts) as per international standards as per approved specifications with a power factor ≥0.9	No.	10	1,200.99	12,009.90
8	MRS	26-01-f-06	LiFePO4 Battery as per approved specifications (equal or greater than 3.55kWhr)	kwhr	3.6	90,325.56	325,172.02
9	MRS	26-01-m-01	PV Mounting Structure as per approved specifications	Watt	2160	34.99	75,578.40
10	MRS	26-01-n-03	Stainless steel nuts/bolts as per approved specifications	Watt	2160	3.92	8,467.20
11	NSI		Concrete Work on roof top is 0.75-1.0 Ft Length* 0.75-1.0 Ft Width * 0.75-1.0 Ft Height for each Leg (concrete ratio = 1:2:4) OR	Job	1	12,000.00	12,000.00

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			Concrete Work on ground is H= 3ft (01 ft above the ground), L= 1.5ft & W= 1.5ft for each Leg (concrete ratio = 1:2:4) OR Design may be changed as per site requirement after approval of Engineer				
Total Estimated Cost per masjid (PKR)							**993,991.43**
Total number of Masajid							
Total Estimated Cost Per Package (PKR)							
The bidder shall select one of the following options: **1. Below** **2. At Par** **3. Above**							
The Bidder shall mention the percentage for the selected option, whether Above, Below, or At Par (%)							
Total Bid price (PKR)							
Bid amount exempted from federal GST (PKR)							
Amount chargeable to % federal (FBR) sales tax on Goods (PKR)							
Federal (FBR) Sales tax on Goods @ % (PKR)							
Amount chargeable to % provincial (KPRA) sales tax on Services (PKR)							
Provincial (KPRA) Sales tax on Services @ % (PKR)							
Any other applicable tax							
Total amount (PKR)							

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PAKHTUNKHWA ENERGY DEVELOPMENT ORGANIZATION

GOVERNMENT OF KHYBER PAKHTUNKHWA PESHAWAR

Appendix-C

FORM OF BID SECURITY

(Bank Guarantee)

Guarantee No.________________
Executed on ________________
Expiry date ________________

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with address: ______________________________
Name of Principal (Bidder) with address: ______________________________
____

Penal Sum of Security (express in words and figures):______________________
____

Bid Reference No.____________________ Date of Bid __________

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal, we the Guarantor above-named are held and firmly bound unto the ____________________, (hereinafter called The "Employer") in the sum stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has submitted the accompanying Bid numbered and dated as above for ______________________ (Particulars of Bid) to the said Employer; and

WHEREAS, the Employer has required as a condition for considering the said Bid that the Principal furnishes a Bid Security in the above said sum to the Employer, conditioned as under:

(1) that the Bid Security shall remain valid for a period 28 days beyond the period of validity of the Bid;

(2) that in the event of;

(a) the Principal withdraws his Bid during the period of validity of Bid, or

(b) the Principal does not accept the correction of his Bid Price, pursuant to Sub-Clause 24.2 of Instructions to Bidders, or

(c) failure of the successful bidder to

(i) furnish the required Performance Security, in accordance with Clause 34 of Instructions to Bidders, or

(ii) sign the proposed Contract Agreement, in accordance with Clause 35 of Instructions to Bidders,

then the entire sum be paid immediately to the said Employer as liquidated damages and not as penalty for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefor, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety , as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Guarantor shall forthwith pay to the Employer the said sum stated above upon first written demand of the Employer without cavil or argument and without requiring the Employer to prove or to show grounds or reasons for such demand notice of which shall be sent by the Employer by registered post duly addressed to the Guarantor at its address given above.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Guarantor shall pay without objection the sum stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above bounden Guarantor has executed the instrument under its seal on the date indicated above, the name and seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

____

Guarantor (Bank)

Witness:

1. _____________________________

____

Corporate Secretary (Seal)

2. _____________________________

____

(Name, Title & Address)

Signature _____________________________

Name _____________________________

Title _____________________________

____

____

Corporate Guarantor (Seal)