



# TENDER DOCUMENT

PROCUREMENT & INSTALLATION OF 82 KW (Total) HYBRID SOLAR POWER SYSTEM  
AT SMB QAUID E AZAM PUBLIC SCHOOL, NHE EDUCATIONAL CAMPUS, LINK ROAD, DARSANO  
CHANNO, P.O. MEMON GOTH, DISTRICT MALIR, KARACHI

## 1. Invitation to Bid

Sealed bids are invited for Supply, Installation, Testing & Commissioning of a 82 KW (Total) Hybrid Solar Power System with battery backup at SMB Quaid e Azam Public School (different locations / buildings of campus).

## 2. Tender Information

Tender Fee: Rs. 1,000 (Non-refundable)

Bid Security: 2% of total bid value

Validity: 30 days

## 3. Location-wise Distribution

Sr. No.	Location / Building	Capacity (KW)
1	Main School Building + Senior Hostel + Junior Hostel	20
2	Principal House	10
3	Teachers Flats	24
4	Family Quarters	18
5	Masjid & Senior School Building	10
	Total Load	82 KW

## 4. BOQ (Item-wise)

Bidders must submit separate BOQ with rate for each specified location including panels, inverters, batteries, wiring, cables, structure, installation and transportation etc.

## 5. Bidding Forms

Include Bid Form, Company Profile, Technical Compliance, Financial Proposal and Undertaking.

## 6. SCOPE OF WORK

The contractor shall:

- Supply all equipment including:
  - Solar Panels
  - Inverters
  - Batteries
  - Mounting structures
  - DC/AC cables and wiring
  - Protection systems (Earthing, Lightning Arrestors)
- Installation at designated buildings
- Testing, commissioning, and synchronization
- Provide training and O&M manuals

## 7. TECHNICAL SPECIFICATIONS (SUMMARY)

- Total System Capacity: 82 **KW** (Total) inclusive of all Building Load
- Tier-1 Solar Panels (Minimum 585W, N Type Bifacial mono PERC with company warranty (JASCO, Jingo or equivalent)
- High efficiency Inverters supporting high PV input, fully dust-tight and protected against powerful water jets (IP66 Hybrid Inverter)(Inverex or equivalent)
- Lithium 100 Ah 48V ion battery type lifepo4 with 6 years company warranty and 12+ years life design, Normal capacity 5120 WH with 12 hours backup
- Complete protection system
- Minimum 10 **years warranty (Inverter)**
- Minimum 25 **years panel warranty**
- 25 years performance warranty
- Structure galvanized aluminums Solar Panel Stand L2, high grade alloy, Thickness 2.5 mm, rust free, properly fitted with 70 km/hour high wind pressure or above with standing

## 8. BILL OF QUANTITIES (BOQ)

To be submitted separately as per above specification – item-wise & location-wise with rate

#### 9. ITEM-WISE BOQ FORMAT (MANDATORY)

Bidders must quote separately for each location:

Note: Minimum 19 batteries will be required for total backup of Campus

Sr. No	Item Description	Specification	Unit	Qty	Rate	Amount
1	Solar Panels		No			
2	Inverters		No			
3	Batteries		No			
4	Mounting Structure		Lot			
5	DC Cables		Meter			
6	AC Wiring		Meter			
7	Earthing System		Lot			
8	Installation Charges		Lot			
9	Transportation		Lot			
10	Testing & Commissioning		Lot			
11	Any Other specify					

#### Note:

- Separate BOQ for each building/location must be attached
- Clearly mention brand, model, and specifications

#### 10. ELIGIBILITY CRITERIA

Bidders must:

- Submit company profile
- Be registered with FBR & SRB with active filer NTN / GST certificate
- Provide technical team details
- Have at least 30 similar projects completed in last three years (provide list with detail)
- Financial Annual Turnover of Rs. 100 Million or above in last three years (provide bank maintenance certificate with indication of annual turnover)

## 11. TERMS & CONDITIONS

- 2% Bid Security must be attached with the proposal in shape of Demand Draft in favour of SMB Quaid e Azam Public School.
- Incomplete bids will be rejected
- SMB QAPS reserves the right to accept/reject any or all bid
- Payment will be made as per agreed terms and condition
- Completion period: **30 days** after issuance of Work Order
- Bid security will be forfeited as penalty beyond delay 30 days

## 12. EVALUATION CRITERIA

- Technical Compliance
- Financial Competitiveness
- Experience & Past Performance
- Warranty & After-Sales Service

## 13. BIDDING FORMS

### FORM-A: BID SUBMISSION FORM

(Sample)

To,

The Procurement Committee  
SMB Quaid-e-Azam Public School

Subject: Submission of Tender for 82 KW (total) Solar Power System

Dear Sir,

We, the undersigned, hereby submit our bid for the procurement and installation of a 82 KW Solar Power System at SMB QAPS Campus.

We confirm that:

- We have examined the tender documents
- We agree to all terms and conditions
- Our bid is valid for 30 days

Total Bid Amount: Rs. \_\_\_\_\_

Bid Security Attached: Yes / No

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Date: \_\_\_\_\_

## FORM-B: COMPANY PROFILE

- Company Name:
- Address:
- NTN No:
- GST No:
- SBR No:
- Year of Establishment:
- Relevant Experience:
- Completed Projects (attach list):
- Bank Maintenance Certificate for last three years.
- Key Technical Staff:

## FORM-C: TECHNICAL COMPLIANCE FORM

Sample

Sr. No.	Item	Specification
1	Solar Panels	Tier-1
2	Inverter	Hybrid
3	Batteries	Lithium
4	Warranty	As per tender
5	Mounting Structure	
6	DC Cables	
7	AC Wiring	
8	Earthing System	
9	Installation Charges	
10	Transportation	
11	Testing & Commissioning	
	Total	

## FORM-D: FINANCIAL BID FORM

Total Cost of Project: Rs. \_\_\_\_\_

Bid Security amounting to Rs. \_\_\_\_\_ in the shape of pay order No. \_\_\_\_\_ dated drawn on Bank \_\_\_\_\_ is attached.

Breakup Attached: Yes

Taxes Included: Yes / No

Signature & Stamp

## FORM-E:

## UNDERTAKING

We certify that the information provided is true and correct. We agree to complete the project within the stipulated time and provide warranty and after-sales support.

Signature: \_\_\_\_\_

Company Stamp

## 14. CHECKLIST FOR BIDDERS

- Tender Fee Rs. 1000 attached
- 2% Bid Security attached
- BOQ (Location-wise + Item-wise with rate)
- Company Profile
- NTN/GST Certificates
- Technical Proposal
- Financial Proposal
- Every page will be signed and stamped by the bidder or its authorized representative.

Contact Person

Focal Person, Procurement Committee

Mustafain Raza, Bursar

Contact Number: 0309-5789077

Email: smbqaps@hotmail.com