

**Submission:** Bids completed in all aspects must be submitted on or before **21<sup>st</sup> May, 2018 till 12:00 pm** and must be accompanied by a bid security of 2.5% of the total bid price in shape of Demand Draft or Bank Guarantee in favor of the Directorate of Alternative Energy, Energy Department, Government of Sindh.

**Opening:** Bids will be opened on **21<sup>st</sup> May, 2018 at 1:00 pm**

**Place of Issuance, Submission, Inquiries & Opening:**

**Address:** Energy Department, 3<sup>rd</sup> Floor, State Life, Building No. 3, Opp. CM House, Karachi.

**Telephone Number:** 02199207144, 02199206449 **Fax:** 02199206276; 02199207177

**Terms & Conditions:**

Under the following conditions bid will be rejected:

- i. Conditional and telegraphic bids/tenders;
- ii. Bids not accompanied by bid security of required amount and form;
- iii. Bids received after specified date and time;
- iv. Bids submitted by black listed firms; and
- v. Incomplete bids as per instructions given in bidding document

**Bid Validity Period:** Ninety (90) days

**Quoted Price Validity:** Quoted price for Supply & Installation of Solar PV Systems shall be valid for Financial Years 2017 – 18 and 2018 – 19 and quoted price for Operation & Maintenance services shall be valid for subsequent three financial years.

The procuring agency reserves the right to reject any or all bids subject to the relevant provisions of Sindh Public Procurement Rules 2010 (Amended 2013)



**DIRECTOR**  
**Alternative Energy**  
02199207144

**Directorate of Alternative Energy**  
**ENERGY DEPARTMENT, GOVERNMENT OF SINDH**  
**Annual Procurement Plan (Works/ Goods/ Services) 2017 - 18**

S.No.	Description of Procurement	Quantity	Estimated Unit Cost	Estimated Total Cost	Funds allocated	Source of Funds (ADP/Non ADP)	Proposed Procurement method	Timing of Procurement				Remarks
								1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
1	Laptop	1	75,000	75,000	75,000	Non ADP	NCB			√		
2	Laser Printers	1	35,000	35,000	35,000	Non ADP	NCB			√		
3	Computers with LCD Monitors	1	47,000	47,000	47,000	Non ADP	NCB			√		
4	Scanner	1	15,000	15,000	15,000	Non ADP	NCB			√		
5	Fax Machine	1	37,000	37,000	37,000	Non ADP	NCB			√		
6	8 cubic meter Biogas Plants	20	75,000	1,500,000	1,500,000	ADP	NCB			√	√	
7	10 cubic meter Biogas Plants	10	85,000	850,000	850,000	ADP	NCB			√	√	Project Title "Biogas Plants (Pilot Demonstration)"
8	12 cubic meter Biogas Plants	5	100,000	500,000	500,000	ADP	NCB			√	√	
9	personal computers with LCD Display	2	75,000	150,000	150,000	ADP	NCB			√	√	
10	Laptop	2	90,000	180,000	180,000	ADP	NCB			√	√	
11	Printers Laser	2	30,000	60,000	60,000	ADP	NCB			√	√	
12	Copier Heavy Duty	1	150,000	150,000	150,000	ADP	NCB			√	√	
13	Printer Color (Laser)	1	80,000	80,000	80,000	ADP	NCB			√	√	
14	Smartphone for on site progress reporting at ADP	4	60,000	240,000	240,000	ADP	NCB			√	√	Procurement will be made under the Project Titled "Electrification of Primary Health Facilities Through Solar PV Technology"
15	3KVa Solar PV Systems for Primary Health Facilities	352	1,200,000	422,400,000	422,400,000	ADP	NCB			√	√	



**(Mehfooz A Qazi)**  
 Director Alternative Energy  
 Energy Department  
 Government of Sindh



Ph: 02199204273

## GOVERNMENT OF SINDH ENERGY DEPARTMENT

Karachi dated the 19<sup>th</sup> January, 2017

### NOTIFICATION

NO. ED/SO(ADMN)/14-9/2014(P. Committ):- In pursuance of Rule No. 7 & 8 of Sindh Public Procurement Rules, 2010 (Amended 2013) and with the approval of the competent Authority the Procurement Committee for the project titled "**Electrification of Primary Health Facilities Through Solar PV Technology**", is hereby constituted with the following composition and Terms of References:

1.	Director Alternative Energy, Energy Department	Chair
2.	Deputy Director (Solar Off-Grid & Bio Mass), Directorate of Alternative Energy, Energy Department	Member/ Secretary
3.	Representative from Health Department (not below the Rank of (BS- 17)	Member

#### Terms of References:

- Preparing NIT and Bidding Document(s);
- Carrying out technical as well as financial evaluation of the bids;
- Preparing evaluation reports as provided in Rule 45;
- Making recommendations for award of contract to the competent authority; and
- Perform any other ancillary and incidental to the above

**AGHA WASIF ABBAS**  
SECRETARY TO GOVT. OF SINDH

NO. ED/SO(ADMN)/14-9/2014(P. Committ:)

Karachi dated the 19<sup>th</sup> January, 2017

A copy is forwarded to the following for information and necessary action to:

- The Secretary to Govt. of Sindh, Health Department with a request to nominate a suitable officer not below the rank of BS-17
- PS to the Secretary Energy Department, Govt. of Sindh
- All members of the Committee
- Office order file

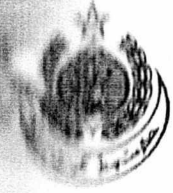
o/c

SECTION OFFICER (ADMN)

FOR SECRETARY TO GOVT. OF SINDH

Office Address:- 3<sup>rd</sup> floor State Life Insurance Corporation of Pakistan Building No.3, Dr. Ziauddin Ahmed Road, Opposite C.M House Karachi.

Doc. P.Committ: Alt Energy /Zahid Hussain Saand/2016



File No. 03199204273

## GOVERNMENT OF SINDH ENERGY DEPARTMENT

Karachi dated the 19<sup>th</sup> January, 2017

### NOTIFICATION

NO. ED/SO(ADMN)/14-9/2014(P. Committ):- In pursuance of Rule No. 31 & 32 of the Sindh Public Procurement Rules, 2010 (Amended 2013), the Government of Sindh, Energy Department, is pleased to constitute a Complaint Redressal Committee (CRC) for the project titled "Electrification of Primary Health Facilities Through Solar PV Technology", with the following composition and Terms of References:

1.	Secretary, Energy Department, Govt. of Sindh	Chairman
2.	Representative of Accountant General Sindh	Member
3.	Mr. Irfan Ahmed, Independent Energy Consultant	Member

#### Terms of References:

- To examine complaint(s) of bidder(s) with regard to the procurement
- To take decision in light of SPPRA Rules, 2010 (Amended 2013)

o/c

**AGHA WASIF ABBAS**  
SECRETARY TO GOVT. OF SINDH

NO. ED/SO(ADMN)/14-9/2014(P. Committ:) Karachi dated the 19<sup>th</sup> January, 2017

**A copy is forwarded to the following for information and necessary action to:**

- The Accountant General Sindh (with a request to nominate a suitable officer not below the rank of BS-18)
- All members of the Committee
- PS to the Secretary Energy Department, Govt. of Sindh
- Office order file

  
23-1-17

o/c

  
**SECTION OFFICER (ADMN)**  
FOR SECRETARY TO GOVT. OF SINDH

**Office Address:-** 3<sup>rd</sup> floor State Life Insurance Corporation of Pakistan Building No.3, Dr. Ziauddin Ahmed Road, Opposite C.M House Karachi.

Doc. P.Committ: Alt: Energy /Zahid Hussain Saand/2016





Ph: 02199207144

NO. DAE/Solar/2016/100-Vol-III  
**GOVERNMENT OF SINDH**  
**Directorate of Alternative Energy**  
**ENERGY DEPARTMENT**  
Karachi dated: April 27, 2018

**SAY NO TO CORRUPTION**

To,

The Director (Admin & Finance),  
Sindh Public Procurement Regulatory Authority,  
Government of Sindh

Subject: **NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION AND OPERATION AND MAINTENANCE OF OFFICE EQUIPMENT UNDER ADP SCHEME TITLED "ELECTRIFICATION OF PRIMARY HEALTH FACILITIES THROUGH SOLAR PV TECHNOLOGY"**

I am directed to refer to the subject noted above and to enclose herewith Notice Inviting Tender No. DAE/Solar/2016/100/BD4 dated 27<sup>th</sup> April, 2017 for supply, installation and operation & maintenance of solar PV systems for ADP Scheme titled "Electrification of Primary Health Facilities through Solar PV Technology"

2. In light of Rule No. 18 of SPP Rules 2010 (Amended 2013), it is requested hoist the said Notice Inviting Tender (NIT) on the Authority's website.

**Encl:**

1. Annual Procurement Plan
2. Notification of Procurement Committee
3. Notification of Complaint Redressal Committee
4. Notice Inviting Tender (hard & soft copy)
5. Bidding Document (hard & soft copy)

  
**(Shahnawaz Farhan Khahro)**  
Deputy Director (Wind).  
For Director Alternative Energy

Copy to:

1. PS to Secretary, Energy Department, Govt of Sindh, Karachi
2. Web administrator, Energy Department



**GOVERNMENT OF SINDH**  
**DIRECTORATE OF ALTERNATIVE ENERGY**  
**ENERGY DEPARTMENT**

No: DAE/Solar/2016/100/BD4

dated: 27<sup>th</sup> April, 2018

**NOTICE INVITING TENDER**

The Directorate of Alternative Energy, Energy Department, Government of Sindh invites sealed bids from interested bidders for Supply, Installation and Operation & Maintenance of Solar PV Systems (352 Nos.) for 248 Primary Health Facilities in Sindh during financial year 2017 – 18 and 2018 – 19 under ADP Scheme No. 607 (2017 – 18)

**Scope of Work:** Supply, Installation of 352 Solar PV Systems during financial year 2017 – 18 and year 18 – 19 at 248 Primary Health Facilities located at Shaheed Benazirabad, Ghotki, Larkana, Khairpur, Shikarpur, Naushero Feroze, Dadu, Jamshoro, Matiari, Sanghar, Mirpurkhas, Tando Allahyar and Badin Districts and 3 years Operation & Maintenance services with the following specifications:

**352 Solar PV Systems each consists of:**

Sr. No.	Description	Quantity (Single Solar PV System)
1	Solar PV Array (3000 Wp or higher)	1
2	Battery: 6 KWh minimum	1
3	MTTP Charge Controller: 3200 Watts or higher (PV Side Rating)	1
4	Inverter: 3000 Watts Rated output power	1
5	LED Tube Light 18 Watts or less	6
6	Fan < 75 Watt	6
7	System Cabinet & Mounting Structure	1
8	Wiring + accessories:	As per needs
9	Remote Monitoring System	1
10	Online Biometric Attendance System	1

**Eligibility:** Valid registration with tax authorities (Federal & Provincial), Pakistan Engineering Council and Electric Inspectorates in Sindh

**Method of Procurement:** Single Stage Two Envelope

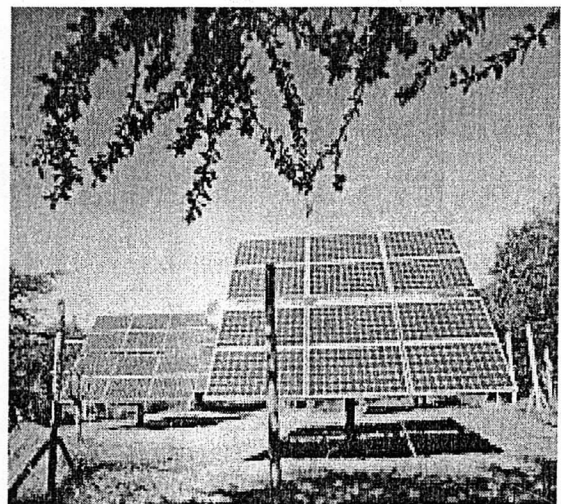
**Bidding/Tender Documents:**

**Issuance:** Complete set of bidding document can be obtained from date of publication to **21<sup>st</sup> May, 2018 till 10:00 am** upon submission of a written application and payment of a non refundable fee of Rs.2000/- (Pay Order in favour of Director Alternative Energy) or downloaded from Sindh Public Procurement Regulatory Authority's website or Energy Department's website i.e. [www.sindhenergy.gov.pk](http://www.sindhenergy.gov.pk) and be submitted alongwith the said fee.

**DIRECTORATE OF ALTERNATIVE  
ENERGY**

**BIDDING DOCUMENT**

FOR PROCUREMENT OF SOLAR PV  
SYSTEMS FOR PRIMARY HEALTH  
FACILITIES



**ENERGY DEPARTMENT  
GOVERNMENT OF SINDH**

## Contents

INVITATION FOR BIDS .....	1
INSTRUCTIONS TO BIDDERS & BIDDING DATA.....	3
INSTRUCTIONS TO BIDDERS .....	4
A. GENERAL.....	4
IB.1 Scope of Bid & Source of Funds .....	4
1.1 Scope of Bid .....	4
1.2 Source of Funds .....	4
IB.2 Eligible Bidders .....	4
IB.3 Cost of Bidding.....	4
B.    BIDDING DOCUMENTS .....	4
IB.4 Contents of Bidding Documents.....	4
IB.5 Clarification of Bidding Documents.....	5
IB.6 Amendment of Bidding Documents (SPP Rules 22(2) & 22) .....	5
C.    PREPARATION OF BIDS .....	5
IB.7 Language of Bid .....	5
IB.8 Documents Comprising the Bid.....	5
IB.9 Sufficiency of Bid .....	6
IB.10 Bid Prices, Currency of Bid and Payment .....	6
IB.11 Documents Establishing Bidder's Eligibility and Qualifications.....	6
IB.12 Documents Establishing Works' Conformity to Bidding Documents.....	6
IB.13 Bid Security.....	7
IB.14 Validity of Bids, Format, Signing and Submission of Bid .....	7
D.    SUBMISSION OF BID .....	8
IB.15 Deadline for Submission, Modification & Withdrawal of Bids.....	8
E.    BID OPENING AND EVALUATION.....	8
IB.16 Bid Opening, Clarification and Evaluation (SPP Rules 41, 42 & 43).....	8

IB.17 Process to be Confidential.....	10
F. AWARD OF CONTRACT .....	11
IB.18. Post Qualification .....	11
IB.19 Award Criteria & Procuring Agency's Right.....	12
IB.20 Notification of Award & Signing of Contract Agreement.....	12
IB.21 Performance Security .....	12
IB.22 Integrity Pact .....	13
BIDDING DATA.....	14
1.13 Detailed requirement of Solar PV Systems for Primary Health Facilities:.....	19
FORM OF BID AND SCHEDULES TO BID .....	31
FORM OF BID (LETTER OF OFFER) .....	32
PREAMBLE TO SCHEDULE OF PRICES .....	35
1. General .....	35
2. Description.....	35
3. Units & Abbreviations.....	35
4. Rates and Prices.....	35
5. Bid Prices .....	36
6. Provisional Sums and Day work.....	36
SCHEDULE - A TO BID: SCHEDULE OF PRICES – SUMMARY OF BID PRICES.....	37
A. Price Schedule of Solar Home Systems: .....	37
SCHEDULE - B TO BID : SPECIFIC WORKS DATA.....	38
SCHEDULE – C TO BID: PROPOSED PROGRAMME OF WORKS.....	45
SCHEDULE – D TO BID: METHOD OF PERFORMING WORKS.....	46
SCHEDULE – E TO BID: (INTEGRITY PACT) .....	47
CONDITIONS OF CONTRACT & CONTRACT DATA.....	48
CONDITIONS OF CONTRACT .....	49
2. THE PROCURING AGENCY.....	51
3. ENGINEER’S/PROCURING AGENCY’S REPRESENTATIVES .....	51

4. THE CONTRACTOR .....	51
5. DESIGN BY CONTRACTOR .....	52
6. PROCURING AGENCY'S RISKS .....	52
7. TIME FOR COMPLETION .....	53
8. TAKING-OVER .....	54
9. REMEDYING DEFECTS .....	54
10. VARIATIONS AND CLAIMS.....	55
11. CONTRACT PRICE AND PAYMENT .....	56
12. DEFAULT .....	57
13. RISKS AND RESPONSIBILITIES.....	58
14. INSURANCE .....	59
15. RESOLUTION OF DISPUTES .....	60
16 INTEGRITY PACT.....	60
CONTRACT DATA .....	62
STANDARD FORMS .....	66
FORM OF BID SECURITY (Bank Guarantee).....	67
FORM OF PERFORMANCE SECURITY (Bank Guarantee).....	69
FORM OF CONTRACT AGREEMENT .....	71
MOBILIZATION ADVANCE GUARANTEE.....	73
INDENTURE FOR SECURED ADVANCES.....	75



# INVITATION FOR BIDS



## GOVERNMENT OF SINDH DIRECTORATE OF ALTERNATIVE ENERGY ENERGY DEPARTMENT

No: DAE/Solar/2016/100/BD4

dated: 27<sup>th</sup> April, 2018

### NOTICE INVITING TENDER

The Directorate of Alternative Energy, Energy Department, Government of Sindh invites sealed bids from interested bidders for Supply, Installation and Operation & Maintenance of Solar PV Systems (352 Nos.) for 248 Primary Health Facilities in Sindh during financial year 2017 – 18 and 2018 – 19 under ADP Scheme No. 607 (2017 – 18)

**Scope of Work:** Supply, Installation of 352 Solar PV Systems during financial year 2017 – 18 and year 18 – 19 at 248 Primary Health Facilities located at Shaheed Benazirabad, Ghotki, Larkana, Khairpur, Shikarpur, Naushero Feroze, Dadu, Jamshoro, Matiari, Sanghar, Mirpurkhas, Tando Allahyar and Badin Districts and 3 years Operation & Maintenance services with the following specifications:

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6	Fan < 75 Watt	6
7	System Cabinet & Mounting Structure	1
8	Wiring + accessories:	As per needs
9	Remote Monitoring System	1
10	Online Biometric System	1

**Eligibility:** Valid registration with tax authorities (Federal & Provincial), Pakistan Engineering Council and Electric Inspectorates in Sindh

**Method of Procurement:** Single Stage Two Envelope

**Bidding/Tender Documents:**

**Issuance:** Complete set of bidding document can be obtained from date of publication to 21<sup>st</sup> May, 2018 till 10:00 am upon submission of a written application and payment of a

non refundable fee of Rs.2000/- (Pay Order in favour of Director Alternative Energy) or downloaded from Sindh Public Procurement Regulatory Authority's website or Energy Department's website i.e. [www.sindhenergy.gov.pk](http://www.sindhenergy.gov.pk) and be submitted alongwith the said fee.

**Submission:** Bids completed in all aspects must be submitted on or before **21<sup>st</sup> May, 2018 till 12:00 pm** and must be accompanied by a bid security of 2.5% of the total bid price in shape of Demand Draft or Bank Guarantee in favor of the Directorate of Alternative Energy, Energy Department, Government of Sindh.

**Opening:** Bids will be opened on **21<sup>st</sup> May, 2018 at 1:00 pm**

**Place of Issuance, Submission, Inquiries & Opening:**

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**Telephone Number:** 02199207144, 02199206449 **Fax:** 02199206276; 02199207177

**Terms & Conditions:**

Under the following conditions bid will be rejected:

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- iii. Bids received after specified date and time;
- iv. Bids submitted by black listed firms; and
- v. Incomplete bids as per instructions given in bidding document

**Bid Validity Period:** Ninety (90) days

**Quoted Price Validity:** Quoted price for Supply & Installation of Solar PV Systems shall be valid for Financial Years 2017 – 18 and 2018 – 19 and quoted price for Operation & Maintenance services shall be valid for subsequent three financial years.

The procuring agency reserves the right to reject any or all bids subject to the relevant provisions of Sindh Public Procurement Rules 2010 (Amended 2013)

**DIRECTOR**  
**Alternative Energy**  
02199207144

## INSTRUCTIONS TO BIDDERS & BIDDING DATA

### **Notes on the Instructions to Bidders**

This section of the bidding documents provides information necessary for bidders to prepare responsive bids, in accordance with the requirements. It also gives information on bid submission, opening and evaluation, and on the award of contract.

Matters governing the performance of the Contract or payments under the Contract, or matters affecting the risks, rights, and obligations of the parties under the Contract are not normally included in this Section, but rather in the appropriate sections of the *Conditions of Contract* and/or *Contract Data*.

## **INSTRUCTIONS TO BIDDERS**

Note: *These Instructions to Bidders (IB) along with Bidding Data will not be part of Contract and will cease to have effect once the Contract is signed).*

### **A. GENERAL**

#### **IB.1 Scope of Bid & Source of Funds**

##### **1.1 Scope of Bid**

The Procuring Agency as defined in the Bidding Data (hereinafter called the Procuring Agency) wishes to receive Bids for the Works summarized in the Bidding Data (hereinafter referred to as the Works).

Bidders must quote for the complete scope of work. Any Bid covering partial scope of work will be rejected as non-responsive.

##### **1.2 Source of Funds**

The Procuring Agency has arranged funds from Government of Sindh under an ADP Scheme

#### **IB.2 Eligible Bidders**

2.1 Bidding is open to all firms and persons meeting the requirements as given in the bidding data.

#### **IB.3 Cost of Bidding**

3.1 The bidder shall bear all costs associated with the preparation and submission of its bid and the Procuring Agency will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process (SPP Rules 24 & 25).

### **B. BIDDING DOCUMENTS**

#### **IB.4 Contents of Bidding Documents**

4.1 In addition to Invitation for Bids, the Bidding Documents are those stated below, and should be read in conjunction with any Addendum issued in accordance with Sub-Clause IB.6.1.

1. Instructions to Bidders & Bidding Data

2. Form of Bid, Qualification Information & Schedules to Bid

Schedules to Bid comprise the following:

- i. Schedule A: Schedule of Prices/ Bill of Quantities (BoQ).
- ii. Schedule B: Specific Works Data
- iii. Schedule C: Proposed Program of Works
- iv. Schedule D: Method of Performing Works
- v. Schedule E: Integrity Pact

3. Conditions of Contract & Contract Data

4. Standard Forms:
  - i. Form of Bid Security,
  - ii. Form of Performance Security;
  - iii. Form of Contract Agreement;
  - iv. Form of Bank Guarantee for Advance Payment

5. Specifications

6. Drawings, if any

#### **IB.5 Clarification of Bidding Documents**

5.1 A prospective bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Engineer/Procuring Agency at the Engineer's/ Procuring Agency's address indicated in the Bidding Data.

5.2 An interested bidder, who has obtained bidding documents, may request for clarification of contents of bidding documents in writing and procuring agency shall respond to such queries in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of bid (SPP Rule 23-1).

#### **IB.6 Amendment of Bidding Documents (SPP Rules 22(2) & 22)**

6.1 At any time prior to the deadline for submission of Bids, the Procuring Agency may, for any reason, whether at his own initiative or in response to a clarification requested by a interested bidder, modify the Bidding Documents by issuing addendum.

6.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub – Clause 6.1 hereof, and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective bidders shall acknowledge receipt of each addendum in writing to the Procuring Agency.

6.3 To afford interested bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Agency may at its discretion extend the deadline for submission of Bids.

### **C. PREPARATION OF BIDS**

#### **IB.7 Language of Bid**

7.1 All documents relating to the Bid shall be in the language specified in the Contract Data.

#### **IB.8 Documents Comprising the Bid**

8.1 The Bid submitted by the bidder shall comprise the following:

- i. Offer /Covering Letter
- ii. Form of Bid duly filled, signed and sealed, in accordance with IB.14.3.
- iii. Schedules (A to E) to Bid duly filled and initialed, in accordance with the instructions contained therein & in accordance with IB.14.3.
- iv. Bid Security furnished in accordance with IB.13.
- v. Power of Attorney in accordance with IB 14.5.
- vi. Documentary evidence in accordance with IB.2(c) & IB.11

vii. Documentary evidence in accordance with IB.12.

### **IB.9 Sufficiency of Bid**

9.1 Each bidder shall satisfy himself before Bidding as to the correctness and sufficiency of his Bid and of the premium on the rates of CSR / rates and prices quoted/entered in the Schedule of Prices, which rates and prices shall except in so far as it is otherwise expressly provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper completion of the works.

9.2 The bidder is advised to obtain for himself at his own cost and responsibility all information that may be necessary for preparing the bid and entering into a Contract for execution of the Works.

### **IB.10 Bid Prices, Currency of Bid and Payment**

10.1 The bidder shall fill up the Schedule of Prices (Schedule A to Bid) indicating the percentage above or below the Composite Schedule of Rates/unit rates and prices of the Works to be performed under the Contract. Prices in the Schedule of Prices/Bill of Quantities shall be quoted entirely in Pak Rupees keeping in view the instructions contained in the Preamble to Schedule of Prices.

10.2 Unless otherwise stipulated in the Conditions of Contract, prices quoted by the bidder shall remain fixed during the bidder's performance of the Contract and not subject to variation on any account.

10.3 The unit rates and prices in the Schedule of Prices or percentage above or below on the composite schedule of rates shall be quoted by the bidder in the currency as stipulated in Bidding Data.

10.4 Items for which no rate or price is entered by the Bidder will not be paid for by the Procuring Agency when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

### **IB.11 Documents Establishing Bidder's Eligibility and Qualifications**

11.1 Pursuant to Clause IB.8, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.

11.2 Bidder must possess and provide evidence of its capability and the experience as stipulated in Bidding Data and the Qualification Criteria mentioned in the Bidding Documents.

### **IB.12 Documents Establishing Works' Conformity to Bidding Documents**

12.1 The documentary evidence of the works' conformity to the Bidding Documents may be in the form of literature, drawings and data and the bidder shall furnish documentation asset out in Bidding Data.

12.2 The bidder shall note that standards for workmanship, material and equipment, and references to brand names or catalogue numbers, if any, designated by the Procuring Agency in the Technical Provisions are intended to be descriptive only, and not restrictive.



### **IB.13 Bid Security**

13.1 Each bidder shall furnish, as part of his bid, at the option of the bidder, a Bid Security as percentage of bid price/estimated cost or in the amount stipulated in Bidding Data in Pak. Rupees in the form of *Deposit at Call/ Payee's order or a Bank Guarantee* issued by a Scheduled Bank in Pakistan in favor of the Procuring Agency valid for a period up to twenty eight (28) days beyond the bid validity date (*Bid security should 2.5% of the bid price/estimated cost SPP Rule 37*).

13.2 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Procuring Agency as non-responsive.

13.3 The bid securities of unsuccessful bidders will be returned upon award of contract to the successful bidder or on the expiry of validity of Bid Security whichever is earlier.

13.4 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security, and signed the Contract Agreement (SPP Rule 37).

13.5 The Bid Security may be forfeited:

- a) if a bidder withdraws his bid during the period of bid validity; or
- b) if a bidder does not accept the correction of his Bid Price, pursuant to Sub-Clause 16.4 (b) hereof; or
- c) in the case of a successful bidder, if he fails within the specified time limit to:
  - i. furnish the required Performance Security or
  - ii. sign the Contract Agreement.

### **IB.14 Validity of Bids, Format, Signing and Submission of Bid**

14.1 Bids shall remain valid for the period stipulated in the Bidding Data after the date of bid opening.

14.2 In exceptional circumstances, Procuring Agency may request the bidders to extend the period of validity for an additional period but not exceeding 1/3 of the original period. The request and the bidders' responses shall be made in writing or by cable. A Bidder may refuse the request without forfeiting the Bid Security. A Bidder agreeing to the request will not be required or permitted to otherwise modify the Bid, but will be required to extend the validity of Bid Security for the period of the extension, and in compliance with IB.13 in all respects (SPP Rule 38).

14.3 All Schedules to Bid are to be properly completed and signed.

14.4 No alteration is to be made in the Form of Bid except in filling up the blanks as directed. If any alteration be made or if these instructions be not fully complied with, the bid may be rejected.

14.5 Each bidder shall prepare original and number of copies specified in the Bidding Data of the documents comprising the bid as described in IB.8 and clearly mark them "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.

14.6 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign (in the case of copies, Photostats are also acceptable). This shall be indicated by submitting a written Power of Attorney authorizing the signatory of the bidder to act for and on behalf of the bidder. All pages of the bid shall be initialed and official seal be affixed by the person or persons signing the bid.

14.7 The Bid shall be delivered in person or sent by registered mail at the address to Procuring Agency as given in Bidding Data.

#### **D. SUBMISSION OF BID**

##### **IB.15 Deadline for Submission, Modification & Withdrawal of Bids**

15.1 Bids must be received by the Procuring Agency at the address/provided in Bidding Data not later than the time and date stipulated therein.

15.2 The inner and outer envelopes shall:

- a) be addressed to the Procuring Agency at the address provided in the Bidding Data;
- b) bear the name and identification number of the Contract as defined in the Bidding and Contract Data; and
- c) provide a warning not to open before the specified time and date for Bid opening as defined in the Bidding Data
- d) in addition to the identification required in 15.2, the inner envelopes shall indicate the name and address of the Bidder to enable the Bid to be returned unopened incase it is declared late.
- e) If the outer envelope is not sealed and marked as above, the Procuring Agency will assume no responsibility for the misplacement or premature opening of the Bid.

15.3 Bids submitted through telegraph, telex, fax or e-mail shall not be considered.

15.4 Any bid received by the Procuring Agency after the deadline for submission prescribed in Bidding Data will be returned unopened to such bidder.

15.5 Any bidder may modify or withdraw his bid after bid submission provided that the modification or written notice of withdrawal is received by the Procuring Agency prior to the deadline for submission of bids.

15.6 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security pursuant to IB.13.5 (a).

#### **E. BID OPENING AND EVALUATION**

##### **IB.16 Bid Opening, Clarification and Evaluation (SPP Rules 41, 42 & 43)**

16.1 The Procuring Agency will open the bids, in the presence of bidders' representatives who choose to attend, at the time, date and in the place specified in the Bidding Data.

16.2 The bidder's name, Bid Prices, any discount, the presence or absence of Bid Security, and such other details as the Procuring Agency at its discretion may consider appropriate, will be announced by the Procuring Agency at the bid opening. The Procuring Agency will record the minutes of the bid opening. Representatives of the bidders who choose to attend shall sign the attendance sheet.

Any Bid Price or discount which is not read out and recorded at bid opening will not be taken into account in the evaluation of bid.

16.3 To assist in the examination, evaluation and comparison of Bids the Engineer/Procuring Agency may, at its discretion, ask the bidder for a clarification of its Bid. The request for clarification and the response shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted (SPP Rule 43).

16.4 (a) Prior to the detailed evaluation, pursuant to IB.16.7 to 16.9, the Engineer/Procuring Agency will determine the substantial responsiveness of each bid to the Bidding Documents. For purpose of these instructions, a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding Documents without material deviations. It will include determining the requirements listed in Bidding Data.

(b) Arithmetical errors will be rectified on the following basis:

If there is a discrepancy between the unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the words and figures the amount in words shall prevail. If there is a discrepancy between the Total Bid price entered in Form of Bid and the total shown in Schedule of Prices-Summary, the amount stated in the Form of Bid will be corrected by the Procuring Agency in accordance with the Corrected Schedule of Prices.

If the bidder does not accept the corrected amount of Bid, his Bid will be rejected and his Bid Security forfeited.

16.5 A Bid determined as substantially non-responsive will be rejected and will not subsequently be made responsive by the bidder by correction of the non-conformity.

16.6 Any minor informality or non-conformity or irregularity in a Bid which does not constitute a material deviation (**major deviation**) may be waived by Procuring Agency, provided such waiver does not prejudice or affect the relative ranking of any other bidders.

**(A). Major (material) Deviations include:-**

- i. has not been properly signed;
- ii. is not accompanied by the bid security of required amount and manner;
- iii. stipulating price adjustment when fixed price bids were called for;
- iv. failing to respond to specifications;
- v. failing to comply with Mile-stones/Critical dates provided in Bidding Documents;
- vi. sub-contracting contrary to the Conditions of Contract specified in Bidding Documents;
- vii. refusing to bear important responsibilities and liabilities allocated in the Bidding Documents, such as performance guarantees and insurance coverage;

- viii. taking exception to critical provisions such as applicable law, taxes and duties and dispute resolution procedures;
- ix. a material deviation or reservation is one :
  - a. which affect in any substantial way the scope, quality or performance of the works;
  - b. Adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

### **(B) Minor Deviations**

Bids that offer deviations acceptable to the Procuring Agency and which can be assigned a monetary value may be considered substantially responsive at least as to the issue of fairness. This value would however be added as an adjustment for evaluation purposes only during the detailed evaluation process.

16.7 The Engineer/Procuring Agency will evaluate and compare only the bids previously determined to be substantially responsive pursuant to IB.16.4 to 16.6 as per requirements given hereunder. Bids will be evaluated for complete scope of works. The prices will be compared on the basis of the Evaluated Bid Price pursuant to IB.16.8 herein below.

**Technical Evaluation:** It will be examined in detail whether the works offered by the bidder complies with the Technical Provisions of the Bidding Documents. For this purpose, the bidder's data submitted with the bid in Schedule B to Bid will be compared with technical features/criteria of the works detailed in the Technical Provisions. Other technical information submitted with the bid regarding the Scope of Work will also be reviewed.

### **16.8 Evaluated Bid Price**

In evaluating the bids, the Engineer/Procuring Agency will determine for each bid in addition to the Bid Price, the following factors (adjustments) in the manner and to the extent indicated below to determine the Evaluated Bid Price:

- i. making any correction for arithmetic errors pursuant to IB.16.4 hereof.
- ii. discount, if any, offered by the bidders as also read out and recorded at the time of bid opening.
- iii. Excluding **provisional sums** and the provisions for **contingencies** in the Bill of Quantities **if any**, but including **Day work**, where priced competitively.

### **IB.17 Process to be Confidential**

17.1 Subject to IB.16.3 heretofore, no bidder shall contact Engineer/Procuring Agency on any matter relating to its Bid from the time of the Bid opening to the time the bid evaluation result is announced by the Procuring Agency. The evaluation result shall be announced at least seven (07) days prior to award of Contract (SPP Rule 45). The announcement to all bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated.

17.2 Any effort by a bidder to influence Engineer/Procuring Agency in the Bid evaluation, Bid comparison or Contract Award decisions may result in the rejection of his Bid. Whereas any



bidder feeling aggrieved, may lodge a written complaint to Complaint Redressal Committee as per terms and conditions mentioned in SPP Rules 31 & 32. However, mere fact of lodging a complaint shall not warrant suspension of procurement process.

17.3 Bidders may be excluded if involved in “**Corrupt and Fraudulent Practices**” means either one or any combination of the practices given below SPP Rule 2(q);

- i. “**Coercive Practice**” means any impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;
- ii. “**Collusive Practice**” means any arrangement between two or more parties to the procurement process or contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;
- iii. “**Corrupt Practice**” means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
- iv. “**Fraudulent Practice**” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- v. “**Obstructive Practice**” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or effect the execution of a contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit rights provided for under the rules

## **F. AWARD OF CONTRACT**

### **IB.18. Post Qualification**

18.1 The Procuring Agency, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in contractor’s capacities, may require the contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided, that such qualification shall only be laid down after recording reasons therefore in writing. They shall form part of the records of that bid evaluation report.

18.2 The determination will take into account the bidder’s financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidders’ qualifications submitted under B.11, as well as such other information required in the Bidding Documents.

### **IB.19 Award Criteria & Procuring Agency's Right**

19.1 Subject to IB.19.2, the Procuring Agency will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be qualified to satisfactorily perform the Contract in accordance with the provisions of the IB.18.

19.2 Notwithstanding IB.19.1, the Procuring Agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for the Procuring Agency's action except that the grounds for its rejection of all bids shall upon request be communicated, to any bidder who submitted a bid, without justification of the grounds. Notice of the rejection of all the bids shall be given promptly to all the bidders (SPP Rule 25).

### **IB.20 Notification of Award & Signing of Contract Agreement**

20.1 Prior to expiration of the period of bid validity prescribed by the Procuring Agency, the Procuring Agency will notify the successful bidder in writing ("Letter of Acceptance") that his bid has been accepted (SPP Rule 49).

20.2 Within seven (07) days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Procuring Agency will send the successful bidder the Form of Contract Agreement provided in the Bidding Documents, incorporating all agreements between the parties.

20.3 The formal Agreement between the Procuring Agency and the successful bidder duly stamped at rate according to Stamp Act 1899 applicable in Sindh of bid price(updated from time to time) stated in Letter of Acceptance shall be executed within seven (07) days of the receipt of Form of Contract Agreement by the successful bidder from the Procuring Agency.

### **IB.21 Performance Security**

21.1 The successful bidder shall furnish to the Procuring Agency a Performance Security of 5% of the contract value in the form and the amount stipulated in the Conditions of Contract within a period of fourteen (14) days after the receipt of Letter of Acceptance (SPP 39).

21.2 Failure of the successful bidder to comply with the requirements of Sub-Clauses IB.20.2& 20.3 or 21.1 or Clause IB.22 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

21.3 Publication of Award of Contract: within seven days of the award of contract, the procuring agency shall publish on the website of the authority and on its own website, if such a website exists, the results of the bidding process, identifying the bid through procurement identifying Number if any and the following information:

1. Evaluation Report;
2. Form of Contract and letter of Award;
3. Bill of Quantities or Schedule of Requirements. (SPP Rule 50)



**IB.22 Integrity Pact**

The Bidder shall sign and stamp the Form of Integrity Pact provided at Schedule-F to Bid in the Bidding Document for all Sindh Government procurement contracts exceeding Rupees ten (10) million. Failure to provide such Integrity Pact shall make the bid non responsive (SPP Rule 89).

## **BIDDING DATA**

(The following specific data for the works to be tendered shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.)

### **Instructions to Bidders**

#### **A. Method of Procurement:**

Single Stage Two Envelope Procedure

- i. Bid shall comprise of a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;
- ii. Envelopes shall be marked as “**FINANCIAL PROPOSAL**” and “**TECHNICAL PROPOSAL**” in bold and legible letters to avoid confusion;
- iii. Initially, only the envelope marked “**TECHNICAL PROPOSAL**” shall be opened;
- iv. Envelope marked as “**FINANCIAL PROPOSAL**” shall be retained in the custody of the procuring agency without being opened;
- v. Procuring agency shall evaluate the technical proposal in a manner prescribed in given “**Bid Evaluation Criteria**” in the bidding document, without reference to the price and reject any proposal which does not conform to the specified requirements;
- vi. No amendments in the technical proposal shall be permitted after submission of technical proposal;
- vii. Financial proposals of technically qualified bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
- viii. Financial proposal of bids found technically non-responsive shall be returned unopened to the respective bidders; and
- ix. Bid found to be the lowest evaluated shall be accepted

#### **1.1 Name of Procuring Agency**

Directorate of Alternative Energy, Energy Department, Government of Sindh, Karachi

#### **Brief Description of Works**

The scope of this work comprises of Supply, Installation of total 352 Solar PV Systems during financial year 2017 – 18 and 2018 – 19 at 248 Primary Health Facilities located at Shaheed Benazirabad, Ghotki, Larkana, Khairpur, Shikarpur, Naushero Feroze, Dadu, Jamshoro, Matiari, Sanghar, Mirpurkhas, Tando Allahyar and Badin Districts in Sindh and 3 years Operation & Maintenance services. The firm/service provider will be responsible for supply of Solar PV Systems (352 Nos.), their installation at site during financial years 2017 – 18 and 2018 – 19, and three (3) years complete operation & maintenance services including warranty period.

Each Solar PV System comprises of the following specification:

Sr. No.	Description	Quantity (Single Solar PV System)
1	Solar PV Array (3000 Wp or higher)	1
2	Battery: 6 KWh minimum	1
3	MTTP Charge Controller: 3200 Watts or higher (PV Side Rating)	1
4	Inverter: 3000 Watts Rated output power	1
5	LED Tube Light 18 Watts or less	6
6	Fan < 75 Watt	6
7	System Cabinet & Mounting Structure	1
8	Wiring + accessories:	As per needs
9	Remote Monitoring System	1
10	Online Biometric System	1

All the material must be procured from renowned and reputable manufacturers and must comply with the specification/ standards/ certifications mentioned in the technical criteria. The supplier will be responsible for supply, installation and three (3) years of operation & maintenance services of the said systems.

#### 1.2 Procuring Agency's Address:

Directorate of Alternative Energy, Energy Department, Government of Sindh, 3<sup>rd</sup> Floor, State Life Building No. 3, Dr. Ziauddin Ahmed Road, Opposite CM House, Karachi, Phone: 02199207144, 02199206449 Fax: 02199206276.

1.3 Bid shall be quoted entirely in Pak. Rupees. The payment shall be made in Pak. Rupees.

1.4 The bidder has the financial, technical and constructional capability necessary to perform the Contract as follows:

#### I. Financial capacity:

- a. Documentary evidence established that the bidder is financially sound and is qualified to perform the contract if its bid is accepted.
- b. Must have minimum turnover of Rs.150 million.

#### II. Technical capacity:

- a. Bidder must have valid registration with following Government Departments
  - i. Pakistan Engineering Council in category **C-3 (minimum), EE-04, and EE-11**
  - ii. Relevant Tax authorities i.e. for income tax and sales tax
  - iii. Sindh Revenue Board
  - iv. Electric Inspectorates of Hyderabad, Mirpurkhas, Sukkur and Larkana Regions
- b. The bidder should have been awarded any project of Solar Solutions by any agency preferably in Public Sector with a minimum value of Rs.300 million during last three years.

- c. In case of a bidder offering to supply Goods/Solution which the bidder did not manufacture or produce, the bidder should provide documentary evidence of authorization by the manufacturer to supply the Goods to Pakistan.
- d. The bidder shall certify capacity and capability of the manufacturing plant from which Goods are being offered, quality assurance and testing facilities.
- e. Experience of execution of similar projects.
- f. Solar PV Systems being offered should be manufactured by a company fulfilling at least following conditions:
  - i. Must have its own manufacturing facility.
  - ii. Manufacturing facility should have certification in ISO9001 international quality system.
  - iii. Goods/Solution Manufacturer Must have Quality testing Labs for PV modules, Lamp Luminosity and performance requirements, Battery performance and reliability, Safety and performance requirements of electronics system.
  - iv. Solution manufacturer Should have a minimum revenue of USD 10 Million (cumulative) for the last three years.
  - v. Should have certified record of sales of Solar Products in international market.
- g. Must have experienced staff available in the relevant field
- h. Bidder will provide written Power of Attorney authorizing the signatory of the bidder to act for and on behalf of the bidder (if applicable).
- i. The firm must not be black listed by any firm or government authority

III. Following Document **properly flagged / marked** shall be submitted with technical bids (one original plus two copies):

- i. Copy of valid Pakistan Engineering Council Certificate in categories C-3 (or above), EE-04, and EE-11
- ii. Copy of Income Tax Certificate
- iii. Copy of General Sales Tax Certificate
- iv. Copy of Registration Certificate with Sindh Revenue Board
- v. Copy of Registration with Electric Inspectorate.
- vi. Audited financial statements of last three years
- vii. List of technical staff available for this work and their CVs
- viii. List of similar assignments minimum two (2) projects under-taken over the past 3 years and their completion certificates;
- ix. Affidavit on Rs.100 non judicial stamp paper that firm has never been black listed in any organization i.e. Public Sector;
- x. Technical Compliance Sheet on "Schedule B to Bid" form
- xi. Specification of the offered products in form of list supported by brochures and letter of support from manufacturer in favor of the bidder for this assignment (as many as required)
- xii. In case of joint ventures/associated firms participating with principle firm, a letter of support must be provided in favor of bidder firm by the supporting firms for this particular project
- xiii. Any other document if asked by the PA to submit at any stage of procurement

IV. Following Document shall be submitted with financial bids (one original, two copies):

- i. Duly Filled Price Schedule on "Schedule A to Bid" form
- ii. Bid Money of 2.5% of total offered bid in form and shape as given in "**Instruction to Bidder**"

1.5. (a) A detailed description of the Works, essential technical and performance characteristics.

(b) Complete set of technical information, description data, literature and drawings as required in accordance with Schedule B to Bid, Specific Works Data. This will include but not be limited to a sufficient number of drawings, photographs, catalogues, illustrations and such other information as is necessary to illustrate clearly the significant characteristics such as general construction dimensions and other relevant information about the works to be performed.

#### **1.6 Amount of Bid Security**

Amount of Bid Security is 2.5% of total offered bid amount/estimated cost (refundable) in form and shape as given in "**Instruction to bidder**"

#### **1.7 Period of Bid Validity**

Validity period of this bid is 90 days

#### **1.8 Number of Copies of the Bid to be submitted:**

One (1) original and two (2) copies

#### **1.9 (a) Procuring Agency's Address for the Purpose of Bid Submission**

Directorate of Alternative Energy, Energy Department, Government of Sindh

3<sup>rd</sup> Floor, State Life Building No. 3, Dr. Ziauddin Ahmed Road, Opposite CM House, Karachi.

#### **1.10 Deadline for Submission of Bids**

Time: 12:00 pm on 21<sup>st</sup> May, 2018.

#### **1.11 Venue, Time, and Date of Bid Opening**

Venue: Committee Room, Energy Department, Government of Sindh, Karachi.

3<sup>rd</sup> Floor, State Life Building No. 3, Dr. Ziauddin Ahmed Road, Opposite CM House, Karachi.

Phone: 02199207144, 02199206448

Time: 1:00 pm on 21<sup>st</sup> May, 2018

## 1.12 BID EVALUATION CRITERIA:

### Bid Evaluation Report for Procurement of Solar PV Systems under Project "Electrification of Primary Health Facilities Through Solar PV Technology"

#### Bid Evaluation Check List

Sr. No.	Item								
1	Specific Works Data								
2	Separate Technical & Financial Bids								
3	P.E.C. Registration in Relevant Category								
4	Income Tax Registration								
5	Sales Tax Registration								
6	Registration with Sindh Revenue Board								
7	List of similar projects undertaken								
8	Project of Solar Solution undertaken worth Rs.300 million during last 3 years								
9	List of Experienced Staff with CVs								
10	Certificate of Non Black Listing								
11	Financial Statement of last 3 Years								
12	Manufacturer's Quality								
13	Schedule B to bid duly filled								
14	Response on Schedule C to bid								
15	Response on Schedule D to bid								
Remarks									

#### Technical Evaluation Methods

Bidder will be qualified for financial opening if attained 75% marks

Sr. No.	Item	Weight							
1	Understanding of the Assignment	5							
2	Quality of staff	5							
3	Financial stability (Turn over Rs.150 million minimum)	10							
4	Previous experience in similar projects-Letter on performance of installed systems from departments be attached	10							
5	Quality of the project implementation/management plan	10							
6	Operation and Maintenance strategy	10							
7	User information strategy	5							
8	PV panel	10							
9	Charge Controller	5							
10	Battery	10							
11	Inverter	10							
12	Remote Monitoring & Biometric System	5							
13	Cabinet & Mounting Structure	5							
Total		100							
Qualified for Financial Opening									

Member

Member/Secretary

Chairman



### 1.13 Detailed requirement of Solar PV Systems for Primary Health Facilities:

S#	District	Taluka	Union Council	Village /City	Name of Health Facility	Status (RHC/BHU/MCH Center/MIH/GD)	Undr (Government / PPHI / PPP)
1	Badin	Badin	Ward No 06	Badin city	City OPD	City OPD	Government
2	Badin	Talhar	Talhar	Talhar City	RHC Talhar	RHC	Government
3	Badin	Matli	T G Ali	T G Ali	RHC Tando Ghulam Ali	RHC	Government
4	Badin	Matli	Thari	Thari	RHC Thari	RHC	Government
5	Badin	Badin	Kadhan	Kadhan	RHC Kadhan	RHC	Government
6	Badin	Tando Bago	Khoski	Khoski	RHC Khoski	RHC	Government
7	Badin	Badin	Nindo	Nindo	RHC Nindo	RHC	Government
8	Badin	Tando Bago	Pangrio	Pangrio	RHC Pangrio	RHC	Government
9	Badin	Tando Bago	Khadeharo	Dei	RHC Dei	RHC	Government
10	Badin	Badin	M Khan Bhurgri	Fazal M Talpur	RHC Fazal M Talpur	RHC	Government
11	Badin	Talhar	Rajo Khanani	Rajo Khanani	RHC Rajo Khanani	RHC	Government
12	Badin	Golarchi	Khorwah	Khanani Jat	RHC Khanani Jat	RHC	Government
13	Badin	Tando Bago	Chabrallo	Ali Khan Jamali	BHU Ali Khan Jamali	BHU	Government
14	Badin	Matli	Dumbhallo	Haji Ramzan Chandio	BHU Haji Ramzan Chandio	BHU	Government
15	Badin	Talhar	Saeedpur	Ashraf Samoo	BHU Ashraf Samoo	BHU	Government
16	Badin	Golarchi	Ahmed Rajo	Chak-05	Govt:Disp: Chak-05	GD	Government
17	Badin	Golarchi	Ahmed Rajo	Chak-10	Govt:Disp: Chak-10	GD	Government
18	Badin	Badin	Nindo	Arbab Baqa Nohario	Govt:Disp: Arbab Baqa Nohario	GD	Government
19	Badin	Tando Bago	Dei Jharks	Ishaque Dero	Govt:Disp: Ishaque Samoo Taluka Badin	GD	Government
20	Badin	Badin	Luari Sharif	Nohari abad	Govt:Disp: Nohari abad Taluka Badin	GD	Government
21	Badin	Golarchi	Golarchi	Ismail Khan Notkani	Govt:Disp: Ismail Khan Notkani Taluka Matli	GD	Government
22	Badin	Talhar	Peru Lashari	Peru Lashari	Govt:Disp: Peru Lashari Taluka Talhar	GD	Government
23	Badin	Gofrachi	Tarai	Miran Patel Samejo	Govt:Disp: Meran Patel Samejo Taluka Golarchi	GD	Government
24	Badin	Talhar	G M Nizamani	Kamal Halepota	Govt:Disp: Kamal Halepota Taluka Matli	GD	Government
25	Badin	Golarchi	Golarchi	Chak- No 36	Govt:Disp: Chak NO 36 Taluka Golarchi	GD	Government
26	Badin	Tando bago	Pangrio	Bachal Khan Ahmedani	Govt:Disp: Bachal Khan Laghari Taluka Tando Bago	GD	Government
27	Badin	Talhar	Talhar	Ghoram Khan Nohani	Govt:Disp: Ghoram Khan Nohani Taluka Talhar	GD	Government
28	Badin	Talhar	Talhar	Abdul Majeed Nohani	Govt:Disp: Abdul Majeed Nohani Taluka Talhar	GD	Government
29	Badin	Tando Bago	Talhar	Yar M Lunad	Govt:Disp: Yar Mohammad Lund Taluka Taluka Tando Bago	GD	Government
30	Badin	Golarchi	Gharo	M Ali Mandharo	Govt:Disp: Mohammad Ali Mandharo Taluka Golarchi	GD	Government

Sl#	District	Taluka	Union Council	Village /City	Name of Health Facility	Status (RHC/BHU/MCH Center/MIH/GD)	Under (Govern- ment / PPP / PPH)
31	Badin	Talhar	Achh Sharif	G Hussain Jamali	Govt:Disp: Gniham Hussain Jamali Taluka Talhar	GD	Government
32	Badin	Talhar	Achh Sharif	Jan M Laghari	Govt:Disp: Jan Mohammad Laghari	GD	Government
33	Badin	Golarchi	Ahmed Rajo	Nehamat Gujjar	Govt:Disp: Nehamat Gujjar	GD	Government
34	Badin	Golarchi	Ahmed Rajo	Karo Noohani	Govt:Disp: Karo Nohani	GD	Government
35	Dadu	Dadu	UC-II	--	MCH Center, Massan Road, Dadu	MCH	Government
36	Dadu	Dadu	UC-III.	City.	GD, Bagri Colony, Dadu.	GD	Government
37	Dadu	Dadu	Siyal.	Village	BHU, Jhallo.	BHU	Government
38	Dadu	Dadu	Allahabad.	Village	BHU, Khero.	BHU	Government
39	Dadu	Dadu	Allahabad.	Village	GD, Chutto Khan Bihmani.	GD	Government
40	Dadu	Dadu	Muradabad	Village	GD, Shafi Mohammad Panhwar.	GD	Government
41	Dadu	Dadu.	Pipri.	Village.	BHU, Pipri.	BHU	Government
42	Dadu	Dadu.	Pipri.	Village	GD, ShahNawaz Mastoi.	GD	Government
43	Dadu	MEHAR.	Shah Punjo Sultan.	Village.	MCH, C. Shah Punjo Sultan.	MCH	Government
44	Dadu	MEHAR.	Nao Goth.	Village.	BHU, Nao Goth.	BHU	Government
45	Dadu	MEHAR.	Nao Goth.	Village.	GD, Taj Mohammad Zardari	GD	Government
46	Dadu	MEHAR.	Radhan.	City.	Rural Health Centre, Radhan.	RHC	Government
47	Dadu	MEHAR.	Bothro.	Village.	G. D. Bothro.	GD	Government
48	Dadu	MEHAR.	Baladai.	Village	BHU, Baladai.	BHU	Government
49	Dadu	MEHAR.	Baladai.	Village.	GD, Loung Tunio.	GD	Government
50	Dadu	MEHAR.	Bali Shah.	Village	BHU, Bali Shah.	BHU	Government
51	Dadu	MEHAR.	Bali Shah.	Village.	GD, Bhand Nari.	GD	Government
52	Dadu	MEHAR.	Mangwani	Village.	BHU * Mangwani.	BHU	Government
53	Dadu	MEHAR.	Kolochi.	Village	BHU, Kolochi.	BHU	Government
54	Dadu	K.N.SHAH.	Kakar.	City	GD, Kakar.	GD	Government
55	Dadu	K.N.SHAH.	Kakar.	Village.	BHU, Chowkhandi.	BHU	Government
56	Dadu	K.N.SHAH.	Mittho Babar.	Village	BHU, Mittho Babar.	BHU	Government
57	Dadu	K.N.SHAH.	Thalho.	Village	BHU Rawat Khan Leghari	BHU	Government
58	Dadu	K.N.SHAH.	Sita Road	City.	RHC, Sita Road.	RHC	Government
59	Dadu	K.N.SHAH.	Bahawalpur	Village	GD, Noor Mohammad	GD	Government
60	Dadu	Johi.	Phulji Village.	Village	BHU, Phulji Village	BHU	Government
61	Dadu	Johi.	Drigh Bala	Village	RHC, Drigh Bala.	RHC	Government
62	Dadu	Johi.	Chhmi.	Village	BHU, Linnai.	BHU	Government
63	Dadu	Johi.	Sawaro.	Village	GD, Sawaro.	GD	Government
64	Dadu	Johi.	Pat Gul Mohammad	Village	BHU, Pat Gul Mohammad	BHU	Government
65	GHOTKI	GHOTKI	Umer Dcho	Kouro Lakhn	GD Kouro Lakhn	GD	Government
66	GHOTKI	Daharki	Daharki	Daharki City	MCH Centre Daharki	MCH	Government

S#	District	Taluka	Union Council	Village / City	Name of Health Facility	Status (RHC/BHU/MCH Center/MIH/GD)	Under (Government / PPII / PPP)
67	GHOTKI	Daharki	Dad Leghari	Kauro Khan Leghari	BHU Kauro Khan Leghari	RHC	Government
68	GHOTKI	Daharki	Saindino Malik	Soomro Khamthro	BHU Soomro Khamthro	BHU	Government
69	GHOTKI	Daharki	Dad Leghari	Allahwasayo Mahar	GD Allahwasayo Mahar	GD	Government
70	GHOTKI	Ubauro	Ranwati	Jumo Khoso	GD Jumo Khoso	GD	Government
71	JACOBABAD	Jacobabad	Shah Gazi Mohlia	City	Shaheed B. Bhutto MCH Centre	MCH	Government
72	JACOBABAD	Jacobabad	Qadirpur	Village	RHC Qadirpur	RHC	Government
73	JACOBABAD	Jacobabad	Ahmedpur	Village	BHU Khairo Wagho	BHU	Government
74	JACOBABAD	Jacobabad	Nawara	Village	BHU Dadpur	BHU	Government
75	JACOBABAD	Jacobabad	Qadirpur	Village	BHU Abdul Rahim Khoso	BHU	Government
76	JACOBABAD	Garhi Khairo	Garhi Khairo	City	MCH Centre Garhi Khairo	MCH	Government
77	JACOBABAD	Garhi Khairo	Allahabad	Village	GD Allahabad	GD	Government
78	JACOBABAD	Garhi Khairo	Allahabad	Village	BHU Rasoolabad	BHU	Government
79	JACOBABAD	Thull	Thull	City	MCH Centre Thull	MCH	Government
80	JACOBABAD	Thull	Mirpur Buriro	Village	RHC Mirpur Buriro	RHC	Government
81	JACOBABAD	Thull	Garhi Hassan	Village	RHC Garhi Hassan	RHC	Government
82	JACOBABAD	Thull	Mirpur	Village	MTD Unit Lal Khan Buriro	GD	Government
83	JACOBABAD	Thull	Mirpur	Village	MTD Unit Chokh	GD	Government
84	JACOBABAD	Thull	Garhi Mori	Village	RHC Garhi Mori	RHC	Government
85	JACOBABAD	Khairpur	Khairpur	Garhi Mori	RHC Garhi Mori	RHC	Government
86	JACOBABAD	Khairpur	Kingri	Lugman	Maternity Home Lugman	MIH	Government
87	JACOBABAD	Khairpur	Kingri	Pir Jo Goth	RHC Pir Jo Goth	RHC	Government
88	JACOBABAD	Khairpur	Kotdeji	Mohbat wah	RHC Atta Mohammad Hami	RHC	Government
89	JACOBABAD	Khairpur	Gambat	Agra	RHC Agra	RHC	Government
90	JACOBABAD	Khairpur	Sobho Dero	Sobho Dero	RHC Sobho Dero	RHC	Government
91	JACOBABAD	Khairpur	Sobho Dero	Ranipur	RHC Ranipur	RHC	Government
92	JACOBABAD	Khairpur	Thari Mir Wah	Hingorja	RHC Hingorja	RHC	Government
93	JACOBABAD	Khairpur	Thari Mir Wah	Thari Mir Wah	RHC Thari Mir Wah	RHC	Government
94	JACOBABAD	Khairpur	Faiz Gani	Faiz Gani	RHC Faiz Gani	RHC	Government
95	JACOBABAD	Khairpur	Nara	Nara Gate	RHC Nara Gate	RHC	Government
96	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
97	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
98	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
99	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
100	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
101	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
102	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
103	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
104	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
105	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government
106	JACOBABAD	Khairpur	Nara	Choundiko	RHC Choundiko	RHC	Government

S#	District	Taluka	Union Council	Village / City	Name of Health Facility	Status (RHC/BHU/MCH Center/MH/GD)	Under (Government / PPH / PPP)
107	NAUSHEHRO FERROZE	Moro	Kelkat	Vill: Sonahry Farm	RHC Sonahry Farm	RHC	Government
108	NAUSHEHRO FERROZE	Moro	New Jatoi	Vill: Late Nanger Chandio	G.D Late Nanger Chandio	GD	Government
109	NAUSHEHRO FERROZE	Moro	Kelkat	Vill: Khamiso Khan Dahri	G.D Khamiso Khan Dahri	GD	Government
110	NAUSHEHRO FERROZE	Moro	Manahseen	Vill: Rahib Khan Keerio	G.D Rahib Khan Keerio	GD	Government
111	NAUSHEHRO FERROZE	Moro	Manahseen	Vill: Sadhuja	G.D Sadhuja	GD	Government
112	NAUSHEHRO FERROZE	Moro	Deparia	Vill: Lumo Noorio	G.D Lumo Noorio	GD	Government
113	NAUSHEHRO FERROZE	Moro	Gachero	Vill: Gachero	G.D Gachero	GD	Government
114	NAUSHEHRO FERROZE	Moro	Gachero	Vill: Lundo	G.D Lundo	GD	Government
115	NAUSHEHRO FERROZE	Moro	Gachero	Vill: Ahmedani Leghari	G.D Ahmedani Leghari	GD	Government
116	NAUSHEHRO FERROZE	Moro	Khair Wah	Vill: Lahno Faqeer	G.D Lahno Faqeer	GD	Government
117	NAUSHEHRO FERROZE	Moro	Darris	Vill: Shah Baig Sabki	G.D Shah Baig Sabki	GD	Government
118	NAUSHEHRO FERROZE	Kandiaro	Kandiaro	Vill: Kamal Dero	RHC Kamal Dero	RHC	Government
119	NAUSHEHRO FERROZE	Kandiaro	Derbello	Vill: Derbello	RHC Derbello	RHC	Government
120	NAUSHEHRO FERROZE	Kandiaro	Kamaldero	Vill: Hamahoo	G.D Hamahoo	GD	Government
121	NAUSHEHRO FERROZE	Kandiaro	Khan Wahan	Vill: Kouro Khan Khushik	G.D Kouro Khan Khushik	GD	Government
122	NAUSHEHRO FERROZE	Kandiaro	Derbello	Vill: Kouro Ujian	G.D Kouro Ujian	GD	Government
123	NAUSHEHRO FERROZE	Kandiaro	M. Dero Jatoi	Vill: Mureed Solangi	G.D Mureed Solangi	GD	Government
124	NAUSHEHRO FERROZE	Kandiaro	Derbello	Vill: New Tager	G.D New Tager	GD	Government
125	NAUSHEHRO FERROZE	Mehrab Pur	Mehrab Pur-I	Near NAORA Office M Pur	RHC Mehraab Pur	RHC	Government
126	NAUSHEHRO FERROZE	Mehrab Pur	Halani	Mehrab Road Halani	RHC Halani	RHC	Government
127	NAUSHEHRO FERROZE	Mehrab Pur	Mehrab Pur-II	Line Par Mehraab Pur	G.D New Town Kt. Pur	GD	Government
128	NAUSHEHRO FERROZE	Mehrab Pur	Halani	Vill: Khainrio Mahasser	G.D Khainrio Mahasser	GD	Government
129	NAUSHEHRO FERROZE	Mehrab Pur	Korri Kabir	Vill: Baharo Kullian	G.D Baharo Kullian	GD	Government
130	NAUSHEHRO FERROZE	Mehrab Pur	Korri Kabir	Vill: Karim Dad Lashari	G.D Karim Dad Lashari	GD	Government
131	NAUSHEHRO FERROZE	Mehrab Pur	Jiando Rajper	Vill: Qasimabad	G.D Qasimabad	GD	Government
132	NAUSHEHRO FERROZE	Mehrab Pur	Jiando Rajper	Vill: Hote Khan Jalbani	G.D Hote Khan Jalbani	GD	Government
133	NAUSHEHRO FERROZE	Bhiria	Bhiria	Opposite Civil Court	RHC Bhiria	RHC	Government
134	NAUSHEHRO FERROZE	Bhiria	Tharu Shah	Larik Road Tharu Shah	RHC Tharu Shah	RHC	Government
135	NAUSHEHRO FERROZE	Bhiria	Maolian	Vill: Manhur	RHC Manhur	RHC	Government
136	NAUSHEHRO FERROZE	Bhiria	Dalipota	Vill: Dalipota	G.D Dalipota	GD	Government
137	NAUSHEHRO FERROZE	Bhiria	Cher Gaju	Vill: Hafiz Yakoob Tunio	G.D Yakoob Tunio	GD	Government
138	NAUSHEHRO FERROZE	Bhiria	Qasim Khani	Vill: Khuda Bux Syal	G.D Khuda Bux Syal	GD	Government



S#	District	Taluka	Union Council	Village / City	Name of Health Facility	Status (RHC/BHU/MCH Centre/PH/GDI)	Under (Government / PPP / PPI)
139	NAUSHHERO TEGOS	Birra	Qasim Khahi	Vill: Darya Khan Jalbani	G.D Darya Khan Jalbani	GD	Government
140	SHIKARPUR	Shikarpur	Union Council No. 2	Shikarpur	2. MCH Centre Shikarpur	MCH	Government
141	SHIKARPUR	Shikarpur	Union Council Sultan Kot.	Sultan Kot	8. Rural Health Centre Sultan Kot.	RHC	Government
142	SHIKARPUR	Shikarpur	Union Council Jaggan.	Jaggan	13. Basic Health Unit Jaggan	BHU	Government
143	SHIKARPUR	Khanpur	Union Council Rahimabad.	Rahimabad	14. Rural Health Centre Rahimabad	RHC	Government
144	SHIKARPUR	Khanpur	Union Council Rahinabad.	Sardarpur	15. Govt. Dispensary Sardarpur	GD	Government
145	SHIKARPUR	Khanpur	Union Council Muhammadiyah Bagh.	M. Bagh	16. B.H.U. Muhammadiyah Bagh	BHU	Government
146	SHIKARPUR	Khanpur	Union Council Muhammadiyah Bagh.	Mizar Jo	17. R.H.C. Mizar Jo	RHC	Government
147	SHIKARPUR	Khanpur	Union Council Shabrabad.	Haji Khan Kalhoro	19. Basic Health Unit Haji Khan Kalhoro	BHU	Government
148	SHIKARPUR	Khanpur	Union Council Shabrabad.	Qadir Bux Pahore	21. Govt. Dispensary Qadir Bux Pahore	GD	Government
149	SHIKARPUR	Khanpur	Union Council Zarkhail.	Garhi Budhal	22. Basic Health Unit Garhi Budhal.	BHU	Government
150	SHIKARPUR	Khanpur	Union Council Mian Sahib	Mian Sahib	24. RHC/MCH Centre Mian Jo Goth.	RHC	Government
151	SHIKARPUR	Khanpur	Union Council Garhi Tego.	Garhi Tego	26. Basic Health Unit Garhi Tego	BHU	Government
152	SHIKARPUR	Khanpur	Union Council Khanpur.	Khanpur	27. Rural Health Centre Khanpur.	RHC	Government
153	SHIKARPUR	Khanpur	Union Council Pir Bux Shujrah	Pir Bux Shujrah	28. R.H.C. Pir Bux Shujrah	RHC	Government
154	SHIKARPUR	Garhi Yasin	Union Council Garhi Yasin	Garhi Yasin	29. Rural Health Centre Garhi Yasin.	RHC	Government
155	SHIKARPUR	Garhi Yasin	Union Council Madeji.	Tarrai	31. Basic Health Unit Tarrai.	BHU	Government
156	SHIKARPUR	Garhi Yasin	Union Council Waryaso.	Fakir Jan Muhammad Noonari	35. Govt. Disp. Fakir Jan Mohammad Noonari	GD	Government
157	SHIKARPUR	Garhi Yasin	Union Council Chatto Mangi.	Chatto Mangi	36. Basic Health Unit Chatto Mangi.	BHU	Government
158	SHIKARPUR	Garhi Yasin	Union Council Chatto Mangi.	Baddo	37. Basic Health Unit Baddo.	BHU	Government
159	SHIKARPUR	Garhi Yasin	Union Council Nausharo Abro.	Dodo Detho	38. Basic Health Unit Dodo Detho.	BHU	Government
160	SHIKARPUR	Garhi Yasin	Union Council Amrore Sharif.	Amrore Sharif	39. Basic Health Unit Amrore Sharif.	BHU	Government

#	District	Taluka	Union Council	Village / City	Name of Health Facility	Status (RHC/BHU/MCH Center/MH/SD)	Under (Government / PPHU / PPP)
161	SHIKARPUR	Garhi Yasin	Union Council Dakhan.	Dakhan	40. Basic Health Unit/ Govt. Disp: Dakhan	BHU	Government
162	SHIKARPUR	Garhi Yasin	Union Council Gahaja.	Gahaja	42. Basic Health Unit Gahaja	BHU	Government
163	SHIKARPUR	Garhi Yasin	Union Council Gahaja.	Maroon Kakepota	43. Basic Health Unit Maroon Kakepota.	BHU	Government
164	SHIKARPUR	Garhi Yasin	U.C. Bamhithar	Kabalo	44. BHU Kabalo.	BHU	Government
165	SHIKARPUR	Garhi Yasin	Union Council Mirzapur.	Mirzapur	45. Basic Health Unit Mirzapur	BHU	Government
166	SHIKARPUR	Garhi Yasin	Union Council Mirzapur.	Aie Jo Goth	46. Govt. Dispensary Aie Jo Goth.	GD	Government
167	SHIKARPUR	LAKHI	Union Council Chak.	Chak	50. Rural Health Centre Chak.	RHC	Government
168	SHIKARPUR	LAKHI	Union Council Sewani.	Ali Abad	54. MCH Centre Ali Abad	MCH	Government
169	SHIKARPUR	LAKHI	Union Council Sewani.	Esso Tanwari	55. Basic Health Unit Esso Tanwari	BHU	Government
170	SHIKARPUR	LAKHI	Union Council Bhirkan.	Budh Goth	57. Govt. dispensary Budh Goth.	GD	Government
171	SHIKARPUR	LAKHI	Union Council Bhirkan.	Bhirkan	59. MCH Centre Bhirkan	MCH	Government
172	SHIKARPUR	LAKHI	Union Council Wazirabad.	Wazirabad	61. MCH Centre Wazirabad	MCH	Government
173	SHIKARPUR	LAKHI	Union Council Taib	Taib Goth	62. Basic Health Unit Taib Goth	BHU	Government
174	SHIKARPUR	LAKHI	Union Council Mungrani @ Jehan Khan.	M. Mithal	67. Govt. Dispensary Muhammad Mithal	GD	Government



**HEALTH FACILITIES INFORMATION (SHAHEED BENZAI RABAD)**

S#	Taluka	Union Council	Village /City	Name of Health Facility	Status	Under (Government / PPH / PPP)
1	Daur	Daur	City	RHC Daur	RHC	Government
2	Daur	Suhelo	Village	RHC Chak No.3	RHC	Government
3	Daur	Bandhi	City	RHC Bandhi	RHC	Government
4	Daur	Bandhi	Village	RHC Yar Mohammad Jamali	RHC	Government
5	Sakrand	Karam Jamali	Village	RHC Mahar Ali Jamali	RHC	Government
6	Sakrand	Karam Jamali	Village	MCH Shahmir Zardari	RHC	Government
7	Sakrand	Mehrabpur	City	RHC Mehrabpur	RHC	Government
8	Kazi Ahmed	Kazi Ahmed-I	City	RHC Kazi Ahmed	RHC	Government
9	Kazi Ahmed	Daulatpur	City	RHC Daulatpur	RHC	Government
10	Kazi Ahmed	Shahpur Jahania	City	RHC Shahpur Jahania	RHC	Government
11	Nawabshah	4. Nawabshah	City	MCH Manuabad	MCH	Government
12	Nawabshah	Chanesar-I	Village	MCH Centre Noor Nawaz	MCH	Government
13	Nawabshah	Channser-II	Village	MCH Centre Laik Zardari	MCH	Government
14	Daur	Suhelo	Village	MCH Centre M. Yaqoob	MCH	Government
15	Daur	60 Mile	Village	MCH Centre 60 Mile	MCH	Government
16	Daur	Gupchani	Village	MCH Centre Ali Jan Brohi	MCH	Government
17	Daur	G. Hyder Shah	Village	MCH Centre Ghulam I Hyder	MCH	Government
18	Daur	Obheri Sawri	Village	MCH Centre Shafi Gujjar	MCH	Government
19	Daur	Abdul Hassan	Village	MCH Gh: M. Jamali	MCH	Government
20	Sakrand	Mehrabpur	Village	MCH Murad Ali Chandio	MCH	Government
21	Sakrand	Guhram Mari	Village	MCH Centre Nasri Sharif	MCH	Government
22	Sakrand	Kumb Leema	Village	MCH Centre Buxo Magsi	MCH	Government
23	Kazi Ahmed	Manhoro	Village	MCH Bhai Khan Jamali	MCH	Government
24	Kazi Ahmed	Haberi	Village	MCH Aqil Rahu	MCH	Government
25	Nawabshah	Ghandtar	Village	BHU Karam Ali Jamali	BHU	Government
26	Nawabshah	Khair Shah	Village	BHU Khairshah	BHU	Government
27	Nawabshah	Chanesar-I	Village	BHU Allah Bux Magsi	BIU	Government
28	Nawabshah	Channser-II	Village	BHU Trimore	BHU	Government
29	Daur	Amerji	Village	BHU Karim Bux Daheri	BIU	Government
30	Daur	60 Mile	Village	BHU 60 Miles	BHU	Government
31	Daur	Bandhi	City	BHU Bucheri	BHU	Government
32	Daur	Jamal Shah	Village	BHU Asgharabad	BHU	Government
33	Daur	Jam Sahib	City	BIU Jam Sahib	BHU	Government
34	Daur	Ismail Khan Brhi	Village	BHU 68 Mori	BHU	Government
35	Daur	Gupchani	Village	BHU Gupchani	BHU	Government
36	Sakrand	Karam Jamali	Village	BHU Hassan Jamali	BHU	Government
37	Sakrand	Karam Jamali	Village	BHU Karam Jamali	BHU	Government
38	Sakrand	Bhoora	Village	BHU Sukhio Manahejo	BHU	Government
39	Sakrand	Bhoora	Village	BHU Budhal Shah	BHU	Government
40	Sakrand	Bhoora	Village	BHU Chattan Shah	BHU	Government
41	Sakrand	Dalal Dero	Village	BHU Punhal Khan Chandio	BHU	Government
42	Sakrand	Dalal Dero	Village	BHU Dino Shah	BHU	Government
43	Sakrand	Dalal Dero	Village	BHU Shamil Unar	BHU	Government
44	Sakrand	Dalal Dero	Village	BHU Majeed Keerlo	BHU	Government
45	Sakrand	Khadhar	Village	BHU Khabar Lakhmir	BHU	Government
46	Sakrand	Pir Zakri	Village	BHU Jalalani	BHU	Government
47	Sakrand	Hamal Fakir	Village	BHU Hamal Fakir	BHU	Government
48	Sakrand	Hamal Fakir	Village	BHU M. Khan Magsi	BHU	Government
49	Sakrand	Guhram Mari	Village	BHU Model Village	BHU	Government
50	Sakrand	Marvi	Village	BHU Mari Jalbani	BHU	Government
51	Kazi Ahmed	Kazi Ahmed-II	Village	BHU Kot Maqbool Shah	BHU	Government
52	Kazi Ahmed	Mira Bagh	Village	BHU Bado Mahar	BHU	Government
53	Kazi Ahmed	Ahmed Bughio	Village	BHU Nawab Wali Mohammad	BHU	Government
54	Kazi Ahmed	Ahmed Bughio	Village	BIU Ramzan Rahu	BIU	Government
55	Kazi Ahmed	Kharr	Village	BHU Kharr	BIU	Government
56	Kazi Ahmed	Kharr	Village	BHU Muqem Daheri	BHU	Government
57	Kazi Ahmed	Manhoro	Village	BIU Gh: Mohammad Jamali	BHU	Government
58	Kazi Ahmed	Haberi	Village	BHU Haberi	BIU	Government
59	Kazi Ahmed	Haberi	Village	BHU Mitho Khan Jokhlo	BIU	Government
60	Kazi Ahmed	Haberi	Village	BHU Qutbi	BIU	Government
61	Kazi Ahmed	San Sawri	Village	BIU San Sawri	BIU	Government

Sl. No.	Name of the Candidate	Category	Age	Qualification	Grade	Remarks			
1	Jacobabad	Thul	Mirpur Burito	RHC Mir Pur Burito	10	7	RHC	IHS	
2	Jacobabad	Jacobabad	Qadirpur	RHC Qadirpur	8	2	RHC	IHS	
3	Jacobabad	Thul	Garhi Hassan	RHC Garhi Hassan	8	10	RHC	IHS	
4	Kashmore@	Tangwani	Karampur	RHC Karampur	4	4	RHC	IHS	
5	Kashmore@	Kashmore	Buxapur	RHC Buxapur	8	4	RHC	IHS	
6	Kashmore@	Tangwani	Tangwani	RHC Tangwani	8	13	RHC	IHS	
7	Kashmore@	Kandhkot	Chouspur	RHC Chouspur	4	4	RHC	IHS	
8	Kamber @	Qubo Saeed Khan	Qubo Saeed Khan	RHC Qubo Saeed Khan	20	22	RHC	IHS	
9	Kamber @	Nasirabad	Nasirabad	RHC Nasirabad	11	24	RHC	IHS	
10	Kamber @	Warah	Wagan	RHC Wagan	16	16	RHC	IHS	
11	Kamber @	Shahdadkot	Umed Ali Junejo	RHC Umed Ali Junejo	11	9	RHC	IHS	
12	Larkana	Dokri	Dokri	THQ Dokri	50	30	THQ	IHS	
13	Larkana	Bakarani	Bakarani	THQ Areja @ Bakarani	20	20	THQ	IHS	
14	Larkana	Dokri	Badah	RHC Badah	20	8	RHC	IHS	
15	Larkana	Bakarani	Gerello	RHC Gerello	10	10	RHC	IHS	
16	Larkana	Ratodero	Ratodero	THQ Ratodero	50	30	THQ	IHS	
17	Larkana	Ratodero	Naudero	RHC Naudero	100	20	RHC	IHS	
18	Larkana	Ratodero	Pir Bux Bhutto	RHC Garhi Khuda Baksh	50	12	RHC	IHS	
19	Larkana	Ratodero	Banguldero	RHC Banguldero	10	9	RHC	IHS	
20	Khairpur	Kotdeji	Mohbat wah	RHC Atta Mohammad Hami	8	11	RHC	IHS	

21	Shikarpur	Garhi Yasin	Garhi Yasin	RHC Garhi Yasin	22	16	RHC	IHS
22	Shikarpur	Khanpur	Khanpur	RHC Khanpur	10	18	RHC	IHS
23	Shikarpur	Shikarpur	Sultankot	RHC Sultankot	20	7	RHC	IHS
24	Shikarpur	Khanpur	Mian Sahib	RHC Mian Jo Goth	20	10	RHC	IHS
25	Shikarpur	Khanpur	Rahimabad	RHC Rahimabad	20	16	RHC	IHS
26	Shikarpur	Lakhi	Chak	RHC Chak	9	13	RHC	IHS
27	Hyderabad	Latifabad	Latifabad	DGH Tanga Stand	100	58	DGH	IHS
28	Hyderabad	Latifabad	Latifabad	DGH Kohisar	30	19	DGH	IHS
29	Jamshoro	Sehwan Sharif	Channa	RHC Arazi	12	7	RHC	IHS
30	Jamshoro	Sehwan Sharif	Bhan	RHC Bhan	12	18	RHC	IHS
31	Jamshoro	Sehwan Sharif	Jhangara	RHC Janghara	12	10	RHC	IHS
32	Jamshoro	Manjhand	Sann	RHC Sann	12	8	RHC	IHS
33	Tando Allahyar	Jhand Mari	Missan	RHC Missan	4	4	RHC	IHS
34	Tando Allahyar	Chamber	Chamber	RHC Chamber	8	8	RHC	IHS
35	Tando Allahyar	Tando Allahyar	Tando Allahyar	RHC Nasarpur	8	8	RHC	IHS
36	Matiari	Matiari	Oderolal Station	RHC Oderolal Station	15	11	RHC	IHS
37	Matiari	Saeedabad	BD Kaka	RHC BD Kaka	7	13	RHC	IHS
38	Matiari	Matiari	Sekhat	RHC Khyber	2	6	RHC	IHS
39	Tando Muhammad Khan	Bulri Shah Karim	Bulri Shah Karim	RHC Bulri Shah Karim	8	8	RHC	IHS
40	Tando Muhammad Khan	Tando Ghulam Hyder	Dando	RCH Dando	2	2	RHC	IHS
41	Mirpur khas	Jhudo	Naukot	RHC Naukot	10	10	RHC	IHS
42	Mirpur khas	Jhudo	Jhudo	RHC Jhudo	10	10	RHC	IHS
43	Mirpur khas	Sindhiri	Phulladiyoon	RHC Phulladiyoon	10	10	RHC	IHS
44	Mirpur khas	Digri	Tando Jan Muhammad	RHC Tando Jan Muhammad	10	10	RHC	IHS
45	Mirpur khas	Mirpur khas	Mirwah Gorchari	RHC Mirwah Gorchari	10	10	RHC	IHS
46	Tharparkar @ Mithi	Chachro	Kheensar	RHC Kheensar	10	10	RHC	IHS
47	Badin	Matli	Thari	RHC Thari	4	4	RHC	IHS
48	Badin	Golarchi	Kario Ghahwer	MC Kario Ghanhwar	20	16	MC	IHS
49	Badin	Badin	Kadhan	RHC Kadhan	8	8	RHC	IHS

50	Badin	Badin	Luari Sharif	RHC Fazal Muhammad Talpur	4	4	RHC	IHS	
51	Badin	Badin	Nindo	RHC Nindo	20	0	RHC	IHS	
52	Badin	Golarchi	Khorwah	RHC Khanani Jat	2	0	RHC	IHS	
53	Badin	Matli	Tando Ghulam Ali	RHC Tando Ghulam Ali	16	16	RHC	IHS	
54	Badin	Tando Bago	Khadhero	RHC Dei	8	4	RHC	IHS	
55	Badin	Talhar	Rajo Khanani	RHC Rajo Khanani	2	2	RHC	IHS	
56	Badin	Tando Bago	Khoski	RHC Khoski	20	10	RHC	IHS	
57	Badin	Tando Bago	Pangrio	RHC Pangrio	20	15	RHC	IHS	
58	Naushero Feroze	Moro	Moro	THQ Moro	24	32	THQ	IHS	
59	Naushero Feroze	Kandiaro	Kandiaro	THQ Kandiaro	20	21	THQ	IHS	
60	Sanghar	Sinjhero	Jhol	RHC Jhol	8	8	RHC	IHS	
61	Sanghar	Shahdadpur	Shahpurchakar	RHC Shahpur Chakar	8	8	RHC	IHS	
62	Sanghar	Shahdadpur	Sarhari	RHC Sarhari	8	8	RHC	IHS	
63	Sanghar	Jam Nawaz Ali	Jam Nawaz Ali	RHC Jam Nawaz Ali	8	8	RHC	IHS	
64	Sanghar	Sanghar	Kandiaro	RHC Kandiaro	8	8	RHC	IHS	
65	Sanghar	Sinjhero	Jaffar Khan Laghari	RHC Jaffar Khan Laghari	8	6	RHC	IHS	
66	Shahheed Benazir Abad	Sakrand	Sakrand	THQ Sakrand	50	50	THQ	IHS	
67	Shahheed Benazir Abad	Daur	Bandhi	RHC Yar Mohammad Jamali	12	12	RHC	IHS	



**PROPOSED NO. OF SYSTEMS**

S/ No	District	Facility Type	No. of System for Single Facility	Total No. of Facilities	Total No. of Systems
1	Ghotki	BHU	1	2	2
		GD	1	3	3
		MCH	2	1	2
	Total Ghotki			<b>6</b>	<b>7</b>
2	Shaheed Benazirabad	BHU	1	37	37
		RHC	2	10	20
		MCH	2	14	28
	Total Shaheed Benazirabad			<b>61</b>	<b>85</b>
3	Shikarpur	BHU	1	17	17
		GD	1	6	6
		RHC	2	8	16
		MCH	2	4	8
	Total Shikarpur			<b>35</b>	<b>47</b>
4	Jamshoro	RHC	2	4	8
	Total Jamshoro			<b>4</b>	<b>8</b>
5	Larkana	RHC	2	5	10
	Total Larkana			<b>5</b>	<b>10</b>
6	Matiari	RHC	2	3	6
	Total Matiari			<b>3</b>	<b>6</b>
7	Mirpurkhas	RHC	2	5	10
	Total Mirpurkhas			<b>5</b>	<b>10</b>
8	Badin	BHU	1	3	3
		GD	1	19	19
		RHC	2	12	24
	Total Badin			<b>34</b>	<b>46</b>
9	Dadu	BHU	1	14	14
		GD	1	11	11
		MCH	2	2	4
		RHC	2	3	6
	Total Dadu			<b>30</b>	<b>35</b>
10	Sanghar	RHC	2	6	12
	Total Sanghar			<b>6</b>	<b>12</b>
11	Tando Allahyar	RHC	2	3	6
	Total Tando Allahyar			<b>3</b>	<b>6</b>
12	Khairpur	RHC	2	11	22
		MH	2	1	2

	Total Khairpur			<b>12</b>	<b>24</b>
13	N Feroze	GD	1	32	32
		RHC	2	12	24
	Total N Feroze			<b>44</b>	<b>56</b>
<b>Total</b>				<b>248</b>	<b>352</b>



## **FORM OF BID AND SCHEDULES TO BID**

**FORM OF BID (LETTER OF OFFER)**

Bid Reference No. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
(Name of Works)

To:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Gentlemen,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Contract Data, Specifications, Drawings, if any, Schedule of Prices and Addenda Nos. \_\_\_\_\_ for the execution of the above-named works, we, the undersigned, being a company doing business under the name of and address

\_\_\_\_\_ and being duly incorporated under the laws of Pakistan hereby offer to execute and complete such works and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Bid Price of Rs \_\_\_\_\_ (Rupees \_\_\_\_\_) or such other sum as may be ascertained in accordance with the said Documents.

2. We understand that all the Schedules attached hereto form part of this Bid.

3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of \_\_\_\_\_ drawn in your favor or made payable to you and valid for a period of twenty eight (28) days beyond the period of validity of Bid.

4. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the Works comprised in the Contract within the time(s) stated in Contract Data.

5. We agree to abide by this Bid for the period of \_\_\_\_\_ days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

7. We undertake, if our Bid is accepted, to execute the Performance Security referred to in Conditions of Contract for the due performance of the Contract.

8. We understand that you are not bound to accept the lowest or any bid you may receive.

9. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a bid for the Works.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20

Signature \_\_\_\_\_

in the capacity of \_\_\_\_\_ duly authorized to sign bid for and on behalf of

\_\_\_\_\_

*(Name of Bidder in Block Capitals)*

*(Seal)*

Address

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Witness:

(Signature) \_\_\_\_\_

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

Address: \_\_\_\_\_

\_\_\_\_\_

**SCHEDULES TO BID INCLUDE THE FOLLOWING:**

- Schedule A to Bid: Schedule of Prices
- Schedule B to Bid: Specific Works Data
- Schedule C to Bid: Proposed Program of Works
- Schedule D to Bid: Method of Performing Works
- Schedule E to Bid: Integrity Pact

## ***PREAMBLE TO SCHEDULE OF PRICES***

### **1. General**

1.1 The Schedule of Prices shall be read in conjunction with the Conditions of Contract, Contract Data together with the Specifications and Drawings, if any.

1.2 The Contract shall be for the whole of the works as described in these Bidding Documents. Bids must be for the complete scope of works.

### **2. Description**

2.1 The general directions and descriptions of works and materials are not necessarily repeated nor summarized in the Schedule of Prices. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the Schedule of Prices.

### **3. Units & Abbreviations**

3.1 Units of measurement, symbols and abbreviations expressed in the Bidding Documents shall comply with the Systeme Internationale d' Unites (SI Units).

### **4. Rates and Prices**

4.1 Except as otherwise expressly provided under the Conditions of Contract, the rates and amounts entered in the Schedule of Prices shall be the rates at which the Contractor shall be paid and shall be the full inclusive value of the works set forth or implied in the Contract; except for the amounts reimbursable, if any to the Contractor under the Contract.

4.2 Unless otherwise stipulated in the Contract Data, the premium, rates and prices entered by the bidder shall not be subject to adjustment during the performance of the Contract.

4.3 All duties, taxes and other levies payable by the Contractor shall be included in the rates and prices.

4.4 The whole cost of complying with the provisions of the Contract shall be included in the items provided in the Schedule of Prices, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works and no separate payment will be made for those items.

The rates, prices and amounts shall be entered against each item in the Schedule of Prices. Any item against which no rate or price is entered by the bidder will not be paid for by the Procuring Agency when executed and shall be deemed covered by the rates and prices for other items in the Schedule of Prices.

4.5 (a) The bidder shall be deemed to have obtained all information as to and all requirements related thereto which may affect the bid price.

\*(b) The Contractor shall be responsible to make complete arrangements for the transportation and installation of equipment to the Site.

4.6 The Contractor shall provide for all parts of the Works to be completed in every respect. Notwithstanding that any details, accessories, etc. required for the complete installation and satisfactory operation of the Works, are not specifically mentioned in the Specifications, such details shall be considered as included in the Contract Price.

## **5. Bid Prices**

### **5.1 Break-up of Bid Prices**

The various elements of Bid Prices shall be quoted as detailed by the Procuring Agency in the format of Schedule of Prices. The bidder shall recognize such elements of the costs which he expects to incur the performance of the Works and shall include all such costs in the rates and amounts entered in the Schedule of Prices.

### **5.2 Total Bid Price**

The total of bid prices in the Schedule of Prices shall be entered in the Summary of Bid Prices.

## **6. Provisional Sums and Day work**

6.1 Provisional Sums included and so designated in the Schedule of Prices if any, shall be expended in whole or in part at the direction and discretion of the Engineer/Procuring Agency. The Contractor will only receive payment in respect of Provisional Sums, if he has been instructed by the Engineer/Procuring Agency to utilize such sums.

6.2 Day work rates in the contractor's bid are to be used for small additional amounts of work and only when the Engineer have given written instructions in advance for additional work to be paid for in that way.



**SCHEDULE - A TO BID: SCHEDULE OF PRICES – SUMMARY OF BID PRICES**

**A. Price Schedule of Solar PV Systems:**

S/No.	Item	Specification	Make	Model	Country of Origin	Quantity	Price
1	Solar PV Panel (3000 Wp or higher)					12	
2	Batteries						
3	Watts or higher (Rating)					1	
4	Inverter:					1	
5	LED Tube Light					6	
6	Fan					6	
7	System Cabinet & Mounting Structure					1	
8	Wiring & accessories. Remote						
9	Monitoring System Online						
10	Biometric System						
11	Installation & Transportation						
12	Operation & Maintenance 3 Years						
Total Price (Single Solar PV System Including Transportation, Installation, taxes etc.)							
Total Price of 352 Solar PV Systems Including Transportation, Installation, taxes etc.							

**SCHEDULE - B TO BID : SPECIFIC WORKS DATA**

- Bidders shall fill specifications of offered products in the following table.
- Write “compliance” if same specifications are offered and for non-compliance for any specific parameter, mention the offered specification):

Specification	Bidders Offered Specifications																
<p><b>Solar PV System Technical Specification:</b></p> <p><b>System General Features:</b></p> <ol style="list-style-type: none"> <li>1. The main components like inverter, charge controller, battery, load management device, remote control modules shall be installed/connected in a Rack/Cabinet</li> <li>2. Inverter, Solar Panels etc shall be of known/reliable brands</li> <li>3. Provision of remote monitoring shall be included</li> <li>4. System be of 24 or 48 Volt design</li> <li>5. Batteries/Electricity storage capacity of minimum 6 KWh</li> </ol> <p><b>System Components:</b></p> <p><b>Features and technical parameters of the system components shall be as follows:</b></p> <ol style="list-style-type: none"> <li>1. <b>Solar Panel:</b></li> </ol> <p><b>Features and Specifications:</b></p> <ol style="list-style-type: none"> <li>a) A grade Mono crystalline Photovoltaic (PV) Panel</li> <li>b) Total sum of the system shall be 3000 Wp or higher, each panel of 250Wp and total of 12 Pcs for each system</li> <li>c) High quality solar cells, advance encapsulation system for improved performance</li> <li>d) High transparent low-iron tempered glass, high quality anti-UV EVA and back sheet</li> <li>e) Multi-ply performance testing for each module, to ensure the product quality and output performance</li> <li>f) Anodization aluminum frame with anticorrosion, to ensure solar module working under extreme outdoor environment</li> <li>g) 90% power output for 10 years and 80% power output for 20 years</li> <li>h) PV model performance guarantee 25 years</li> <li>i) Certifications IEC61215, IEC 61730</li> </ol> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Parameter</th> <th style="text-align: center;">Specification</th> </tr> </thead> <tbody> <tr> <td>Maximum Power of single panel</td> <td>250 Wp</td> </tr> <tr> <td>Type of Solar Cell</td> <td>Mono-crystalline</td> </tr> <tr> <td>Front Cover</td> <td>Lo-iron Tempered glass/3.2 mm</td> </tr> <tr> <td>Frame</td> <td>Anodized aluminum</td> </tr> <tr> <td>Junction Box (protection degree)</td> <td>IP65</td> </tr> <tr> <td>Operating temperature in °C</td> <td>-40 – 85 °C</td> </tr> <tr> <td>Power Tolerance (% T)</td> <td>0 – +6 W</td> </tr> </tbody> </table>	Parameter	Specification	Maximum Power of single panel	250 Wp	Type of Solar Cell	Mono-crystalline	Front Cover	Lo-iron Tempered glass/3.2 mm	Frame	Anodized aluminum	Junction Box (protection degree)	IP65	Operating temperature in °C	-40 – 85 °C	Power Tolerance (% T)	0 – +6 W	
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<p><b>2. Solar Panel Mounting/Support Structure</b></p> <p>Feature and specifications:</p> <ul style="list-style-type: none"> <li>a) Roof mount system shall accommodate a wide range of modules framed or frameless, shall be suitable for most types of roof with different roof hooks. With innovative rail and G/flat nut</li> <li>b) Roof Slope: Adjustable up to 60 degree as per site needs, sustain against maximum wind speed up to 60 m/s</li> <li>c) Material: Aluminum and SS 304 Warranty: 20 years on material</li> <li>d) Design standard: CE &amp; AS/NZS 1170</li> </ul>	
<p><b>3. Solar Inverter</b></p> <p>Feature and specifications:</p> <ul style="list-style-type: none"> <li>a) Single phase pure sine wave inverter which shall convert 24/48 Vdc to 220/230 Vac, 50 Hz based on full digital and intelligent design</li> <li>b) Rated output power 3000 watt</li> <li>c) Main power and inverter power shift time &lt; 20 ms</li> <li>d) High reliability, high efficiency, concise outline, easy installation and operation</li> <li>e) Adoption of advanced SPWM technology, pure sine wave output</li> <li>f) Dynamic current loop control technology to ensure reliable operation</li> <li>g) Wide DC input voltage range</li> <li>h) Output voltage and frequency can be switched</li> <li>i) LED indicators for input voltage range, load power range, normal output and failure state</li> <li>j) Optional energy saving mode</li> <li>k) Wide working temperature range (industrial level)</li> <li>l) Certifications: IEE 1547, UL 1741, IEC 62109-1/2</li> </ul> <p><b>Electronic Protection:</b></p> <ul style="list-style-type: none"> <li>a) Output short circuit protection</li> <li>b) Overload protection</li> <li>c) Input over voltage protection</li> <li>d) Over heating protection</li> <li>e) Inverter abnormal protection</li> </ul> <p><b>4. MPPT Solar Charge Controller:</b></p> <p>Controller shall be an industrial grade product with advanced maximum power point tracking (MPPT) algorithm. It shall deliver maximum available power for charging batteries and charge a lower nominal battery voltage from a high nominal voltage array and can be applied in off grid PV system up to 3 KW. The design shall ensure excellent heat dispersion preferably die cast design</p> <p>Feature and Specifications:</p>	

- a) Advanced MPPT technology, with efficiency no less than 99.5%
- b) Maximum conversion efficiency of 98% and full load efficiency of 97%
- c) MSRT realizing high conversion efficiency in the situation of low charge power
- d) Accurately recognizing and tracking of multiply power points
- e) Reliable automatic limit function of maximum PV input power, ensuring no overload under any circumstance
- f) Wide MPP operating voltage range
- g) High-speed and high-power dual-core processor architecture, improving system response speed, optimizing system performance
- h) Die-cast aluminum case for heat dissipating, ensuring excellent heat dissipation characteristic
- i) 12/24/36/48 V DC automatically identifying system voltage or user-defined working voltage
- j) Battery temperature compensation function
- k) Real-time energy statistics function
- l) Available for PC monitoring and external display unit connecting, realizing
- m) Real-time data checking and parameters setting
- n) Support software up gradation

**Electronic Protections:**

- a) PV Short Circuit Protection
- b) PV reverse polarity protection
- c) Battery over discharge protection
- d) Battery overheating protection
- e) PV over current alarm protection
- f) Controller overheating protection
- g) Battery reverse polarity protection
- h) Battery over voltage protection

Parameter	Specification
Rated Power (PV Side)	3200 watts or higher
Type	MTTP
MTTP working voltage and range	24 Volt or 48 Volt as design
Input Voltage	As per system design
Rated AC Charge Current	As per system design
Warranty	Minimum 5 Years

**5. Battery:**

Features and Specifications:

- a) Battery bank shall have 6 KWh minimum capacity
- b) Long life time: >2000 cycles @ 50%DOD, >1200 cycles @ 80% DOD
- c) Battery work DOD will be limited to 80% through software

Parameter	Specification
Battery Type	True Gel Battery
Individual Battery Voltage	2-volt cell, 6 volt or 12 volt block
Positive Plate Design	OPzV
Self-discharge	<4%/month @ 25C according to IEC 60896-21
Certification	IEC 6124, IEC 60896-21/22 or above
Manufacturing date	< 6 month before installation
Warranty	5 years

## 6. System Cabinet:

### Features and Specifications

- a) Inverter, MPPT Controller, Battery, Load management devices and all kinds of cables, connectors, all of these shall be installed or connected in the cabinet
- b) Efficient cooling design
- c) Provision to lock, to avoid theft

Item	Description	Specification
DC Cable	Material	Copper
	Protection	Suitable for environment, UV protection and Rodents
	Type	Single conductor type, 4 mm <sup>2</sup> or above
	Standard	1000V/ class 2, temperature maximum allowable 120°C
	Ohmic losses	Below 1% under STC conditions, must provide design and calculation
AC Cable	Material	Copper
	Protection	Suitable for environment, UV protection and Rodents
	Ohmic losses	Below 0.5% under STC conditions, must provide design and calculation
DC Connector	IP Rating	IP 67
		Different from AC connectors

## 7. Remote Monitoring System:

- a) Remote Monitoring System shall be a state of the art system
- b) Design shall cater scalability, data security and interoperability, standard software and hardware protocols
- c) All components, data logger, operating system computer, router, switches etc. shall be installed in industry standard mode
- d) Real time separate voltage and currents for all components like inverter, controller, battery, solar panel, remote monitoring module
- e) Frequently data collection, analysis, display, transmission and back up of each component work status, the interval shall be less than 30 minutes

## 8. LED Lights:

Parameter	Specification
Rod	4 feet with aluminum case
Input Power	18 watt or less
Color rendering Index	80 or better
System efficiency	100 lumens/W or better
Input Voltage	130 Vac to 170 Vac
Power Factor	0.9 or better
Kelvin color temperature	3500 – 4500 K (warm white or pure white)

Working Temperature	-10°C to 55°C
Life time	40,000 hours or more
Beam angle	>120 degrees
Lens/cover	Frosted
IP rating	IP 42 or better
Housing	Aluminum housing with sufficient rigidity, strengthen and connected for heat dissipation. Shall be water resistant and dust resistant
Optics	No discoloration (UV protection in five years of indoor operation)
Certifications	LED light IEC 69589-1, IEC 60589-2, IM 79 for the luminaries being offered, LM 80 for the LED chips being used
Certifications LED Driver	IEC 61347-1, IEC 61347-2-13

## 9. Ceiling Fan:

### Features and Specifications:

Parameters	Specifications
Sweep	56" or 1400mm span
Watts	<75 Watts
RPM	>310
Air delivery	280 cubic meter/minute or higher
Voltage Range	230 V ±5% tolerance
Operating Frequency	48 Hz to 52 Hz
Insulation Class	155-F
Winding wire	99.99% pure copper with durable enameled
Energy star rated	At least 3 Star Rating from ENERCON
Tolerance	10% or as per PSQCA

### Remote Monitoring System:

The Employer requires a state-of-the-art system delivering ease of management, transparent, monitoring, and timely controls from the planning stage to deployment, configuration, and commissioning, and then continuous O&M with remote monitoring functionality to deliver reliable system predictability. The RMS system shall be designed for scalability, data security and interoperability, using standard hardware and software protocols. All components, data-logger, operating system computer, router, switches etc., shall be installed in industry standard mode.

The EPC Contractor shall provide a control system that provides a safe and redundant archive for operational data. Remote access to all operational data for independent monitoring purposes shall be possible. This shall be in compliance with the requirements of the Grid

Connection Code of Pakistan and further relevant requirements of the grid operator. The control system shall be subject to review by the Employer prior to procurement. The system has to provide different access-levels with different access rights allocated.

The following functionalities are required:

- Frequent data collection (minimum 30 min interval), analysis, and display of the fundamental parameters of the system output and that of its sub-systems.
- Alarms/alerts and timely notification of key performance indicators.
- Data must be readily available for the fulfilment of all warranties.
- Data logging at intervals of 30 minute or less, processing, transmission, and back-up.
- Equipment condition monitoring.
- Status of overvoltage protection and grounding protection DC.



- g. Separate voltage and currents for the solar inverter, battery inverter, battery charger and load monitoring
- h. Status of battery charge level including a long-term evaluation of actual DoD levels.

**Biometric Attendance System:**

The Employer requires a state-of-the-art online biometric attendance system for monitoring the attendance at each public health facility being monitored at Head office. facility

The following functionalities are required:

- Time and attendance logging
- Fast face, finger print, eye reorganization
- Log data in real time push
- Easy installation and operation
- Data logging software

**Operation & Maintenance:**

**Scope of Supply and Services for the O&M of PV System  
Biannual Inspections**

O&M Contractor shall perform biannual inspections of the PV System, preferably in spring and autumn, within a period of 5 to 7 months from the previous inspection date. The first two inspections must take place within the first full year, counted from the beginning of the first complete calendar year after COD. The biannual inspections must follow the detailed inspection procedure and documented accordingly. The scope must include the following (as a minimum):

**PV Modules and Supporting Structure**

- Visual inspection of all PV Modules regarding damage.
- Visual damage inspection of all accessible cable trenches and cable trays.
- Visual inspection and random testing of PV Module DC connectors.
- Check for loosening of PV Module clips. Clips should be replaced if necessary. (Scope: Min. 10% per inspection including documentation of location; 100% during 5-year PV System inspection).
- Testing of sturdiness of mounting foundation / system and random substructure corrosion inspection.

**Inverters**

- Functional check of inverter ventilator system and filters (if applicable).
- Test of the internal circuit breakers and power switches, emergency shutoff test.
- Visual inspection of all fuses.
- Inspection of overvoltage protection and upstream fuses regarding external damage.
- Functional check of internal and external overvoltage and under voltage protection through operation of test terminal.
- Functional insulation monitoring check.
- Check of control and auxiliary voltages.
- Check of the safety circuit for the interruption of the AC-grid protection in the case of failure (emergency shutoff, over-/ under voltage, over temperature, etc.).
- Visual inspection of AC and DC clamps for tightness and discolouring, tightening of clamps.
- Inspection of the interior of the inverter regarding dust deposit, dirtiness, humidity, water penetration from outside. The inverter shall be cleaned if necessary.
- Testing of inverter features according to manufacturer's maintenance schedule.

- Maintenance of inverters according to manufacturer's instructions.

**Battery Charge Controller**

Inspection of the exterior of the battery charge controller regarding dust deposit, dirtiness, humidity. The battery charge controller shall be cleaned if necessary.

- Testing of battery charge controller features according to manufacturer's maintenance schedule.
- Maintenance of battery charge controller according to manufacturer's instructions.

**Batteries**

- Inspection of the exterior of the batteries regarding dust deposit, dirtiness, humidity. The batteries shall be cleaned if necessary.
- Testing of battery features according to manufacturer's maintenance schedule.
- Maintenance of batteries according to manufacturer's instructions

- **Additional Inspections**

- Functionality testing of the remote monitoring system.
- Adequacy of settings for battery charge settings.
- Maintenance of all PV System components according to manufacturer's instructions.
- Check expiration date of the fire extinguishers installed on-site.
- If applicable: Inspection of all aspects required from the applicable permits (environmental, building, etc.).

Supporting brochures must be clearly flagged/marked.

**Response time to rectify fault is 3-5 days. In case of longer faults/issues, alternate solution must be provided till the rectification of fault/issue.**

## ***SCHEDULE - C TO BID: PROPOSED PROGRAMME OF WORKS***

**Following details must be submitted for evaluation of technical bids duly marked as  
"Response to Schedule C to bid"**

Bidder shall provide a programme in a bar-chart or Program Evaluation and Review Technique (PERT) or Critical Path Method (CPM) showing the sequence of work items by which he proposes to complete the works of the entire Contract. The programme should indicate the sequence of work items and the period of time during which he proposes to complete the works including the activities like designing, schedule of submittal of drawings, ordering and procurement of materials, manufacturing, delivering, construction of installation works, erection, testing and commissioning of works to be supplied under the Contract

## ***SCHEDULE - D TO BID: METHOD OF PERFORMING WORKS***

**Following details must be submitted for evaluation of technical bids duly marked as  
“Response to Schedule D to bid”**

The bidder is required to submit a narrative outlining the method of performing the Works duly marked as “**Response to Schedule D to Bid**”. Detailed working on schedule D will help the bidder to prepare exact and doable financial offer. The narrative should indicate in detail and include but not be limited to:

- The sequence and methods in which he proposes to carry out the Works, including the number of shifts per day and hours per shift, he expects to work
- Provide detailed operation & maintenance strategy over next three years
- Provide strategy for training the users/user information strategy
- A list of all major items of construction and plant erection, tools and vehicles proposed to be used in delivering/carrying out the works at site
- The procedure for installation of equipment and transportation of equipment and materials to the site
- Organization chart indicating head office & field office personnel involved in management, supervision and engineering of the Works to be done under the Contract

**SCHEDULE – E TO BID: (INTEGRITY PACT)**

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC**

**PAYABLE BY CONTRACTORS**

(FOR CONTRACTS WORTH RS. 10.00 MILLION OR MORE)

Contract No. \_\_\_\_\_ Dated \_\_\_\_\_

Contract Value: \_\_\_\_\_

Contract Title: \_\_\_\_\_

..... [name of Contractor] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from, from Procuring Agency (PA) except that which has been expressly declared pursuant hereto.

[name of Contractor] accepts full responsibility and strict liability that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, [name of Supplier/Contractor/Consultant] agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from PA.

.....

[Procuring Agency]

[Contractor]

## **CONDITIONS OF CONTRACT & CONTRACT DATA**



# **CONDITIONS OF CONTRACT**

## **1. GENERAL PROVISIONS**

### **1.1 Definitions**

In the Contract as defined below, the words and expressions defined shall have the following meanings assigned to them, except where the context requires otherwise:

#### **The Contract**

Contract means the Contract Agreement and the other documents listed in the 1.1.1 Contract Data.

1.1.2 Specifications means the document as listed in the Contract Data, including Procuring Agency's requirements in respect of design to be carried out by the Contractor (if any), and any Variation to such document.

1.1.3 Drawings means the Procuring Agency's drawings of the Works as listed in the Contract Data, and any Variation to such drawings.

#### **Persons**

1.1.4 Procuring Agency means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Contractor) any assignee.

1.1.5 Contractor means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Procuring Agency) any assignee.

1.1.6 Party means either the Procuring Agency or the Contractor.

#### **Dates, Times and Periods**

1.1.7 Commencement Date means the date fourteen(14) days after the date the Contract comes into effect or any other date named in the Contract Data.

1.1.8 Day means a calendar day

1.1.9 Time for Completion means the time for completing the Works as stated in the Contract Data (or as extended under Sub-Clause 7.3), calculated from the Commencement Date.

#### **Money and Payments**

1.1.10 Cost means all expenditure properly incurred (or to be incurred) by the Contractor, whether on or off the Site, including overheads and similar charges but does not include any allowance for profit.

#### **Other Definitions**

1.1.11 Contractor's Equipment means all machinery, apparatus and other things required for the execution of the Works but does not include Materials or Plant intended to form part of the Works.

1.1.12 Country means the Islamic Republic of Pakistan.

1.1.13 Procuring Agency's Risks means those matters listed in Sub-Clause 6.1.

1.1.14 Force Majeure means an event or circumstance which makes performance of a Party's obligations illegal or impracticable and which is beyond that Party's reasonable control.

1.1.15 Materials means things of all kinds (other than Plant) to be supplied and incorporated in the Works by the Contractor.

1.1.16 Plant means the machinery and apparatus intended to form or forming part of the Works.

1.1.17 Site means the places provided by the Procuring Agency where the Works are to be executed, and any other places specified in the Contract as forming part of the Site.

1.1.18 Variation means a change which is instructed by the Engineer/Procuring Agency under Sub-Clause 10.1.

1.1.19 Works means any or all the works whether Supply, Installation, Construction etc. and design (if any) to be performed by the Contractor including temporary works and any variation thereof.

1.1.20 Engineer means the person notified by the Procuring Agency to act as Engineer for the purpose of the Contract and named as such in Contract Data.

## **1.2 Interpretation**

Words importing persons or parties shall include firms and organizations. Words importing singular or one gender shall include plural or the other gender where the context requires.

## **1.3 Priority of Documents**

The documents forming the Contract are to be taken as mutually explanatory of one another. If an ambiguity or discrepancy is found in the documents, the priority of the documents shall be in accordance with the order as listed in the Contract

## **1.4 Law**

The law of the Contract is the relevant Law of Islamic Republic of Pakistan.

## **1.5 Communications**

All Communications related to the Contract shall be in English language.

## **1.6 Statutory Obligations**

The Contractor shall comply with the Laws of Islamic Republic of Pakistan and shall give all notices and pay all fees and other charges in respect of the Works.

## **2. THE PROCURING AGENCY**

### **2.1 Provision of Site**

The Procuring Agency shall provide the Site and right of access thereto at the times stated in the Contract Data.

**Site Investigation Reports** are those that were included in the bidding documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.

### **2.2 Permits etc.**

The Procuring Agency shall, if requested by the Contractor, assist him in applying for permits, licences or approvals which are required for the Works.

### **2.3 Engineer's/Procuring Agency's Instructions**

The Contractor shall comply with all instructions given by the Procuring Agency or the Engineer, if notified by the Procuring Agency, in respect of the Works including the suspension of all or part of the works.

### **2.4 Approvals**

No approval or consent or absence of comment by the Engineer/Procuring Agency shall affect the Contractor's obligations.

## **3. ENGINEER'S/PROCURING AGENCY'S REPRESENTATIVES**

### **3.1 Authorized Person**

The Procuring Agency shall appoint a duly authorized person to act for him and on his behalf for the purposes of this Contract. Such authorized person shall be duly identified in the Contract Data or otherwise notified in writing to the Contractor as soon as he is so appointed. In either case the Procuring Agency shall notify the Contractor, in writing, the precise scope of the authority of such authorized person at the time of his appointment.

### **3.2 Engineer's/Procuring Agency's Representative**

The name and address of Engineer's/Procuring Agency's Representative is given in Contract Data. However the Contractor shall be notified by the Engineer/Procuring Agency, the delegated duties and authority before the Commencement of works.

## **4. THE CONTRACTOR**

### **4.1 General Obligations**

The Contractor shall carry out the works properly and in accordance with the

Contract. The Contractor shall provide all supervision, labor, Materials, Plant and Contractor's Equipment which may be required

#### **4.2 Contractor's Representative**

The Contractor shall appoint a representative at site on full time basis to supervise the execution of work and to receive instructions on behalf of the Contractor but only after obtaining the consent of the Procuring Agency for such appointment which consent shall not be withheld without plausible reason(s) by the Procuring Agency. Such authorized representative may be substituted/ replaced by the Contractor at any time during the Contract Period but only after obtaining the consent of the Procuring Agency as aforesaid.

#### **4.3 Subcontracting**

The Contractor shall not subcontract the whole of the works. The Contractor shall not subcontract any part of the works without the consent of the Procuring Agency.

#### **4.4 Performance Security**

The Contractor shall furnish to the Procuring Agency within fourteen (14) days after receipt of Letter of Acceptance a Performance Security 10% of the contract value at the option of the bidder, in the form of Payee's order /Bank Draft or Bank Guarantee from scheduled bank for the amount and validity specified in Contract Data.

### **5. DESIGN BY CONTRACTOR**

#### **5.1 Contractor's Design**

The Contractor shall carry out design to the extent specified, as referred to in the Contract Data. The Contractor shall promptly submit to the Engineer/Procuring Agency all designs prepared by him, within fourteen (14) days of receipt the Engineer/Procuring Agency shall notify any comments or, if the design submitted is not in accordance with the Contract, shall reject it stating the reasons. The Contractor shall not construct any element of the works designed by him within fourteen (14) days after the design has been submitted to the Engineer/Procuring Agency or which has been rejected. Design that has been rejected shall be promptly amended and resubmitted. The Contractor shall resubmit all designs commented on taking these comments into account as necessary.

#### **5.2 Responsibility for Design**

The Contractor shall remain responsible for his bided design and the design under this Clause, both of which shall be fit for the intended purposes defined in the Contract and he shall also remain responsible for any infringement of any patent or copyright in respect of the same. The Engineer/Procuring Agency shall be responsible for the Specifications and Drawings.

### **6. PROCURING AGENCY'S RISKS**

#### **6.1 The Procuring Agency's Risks**

The Procuring Agency's Risks are:-

a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies, within the Country ;

b) rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war, within the Country ;

c) riot, commotion or disorder by persons other than the Contractor's personnel and other employees including the personnel and employees of Sub-Contractors, affecting the Site and/or the Works ;

d) ionising radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component of such an assembly, except to the extent to which the Contractor/Sub-Contractors may be responsible for the use of any radio-active material ;

e) Pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds ;

f) use or occupation by the Procuring Agency of any part of the Works, except as may be specified in the Contract ;

~~g) late handing over of sites, anomalies in drawings, late delivery of designs and drawings of any part of the Works by the Procuring Agency's personnel or by others for whom the Procuring Agency is responsible;~~

h) a suspension under Sub-Clause 2.3 unless it is attributable to the Contractor's failure; and

i) physical obstructions or physical conditions other than climatic conditions, encountered on the Site during the performance of the Works, for which the Contractor immediately notified to the Procuring Agency and accepted by the Procuring Agency.

## **7. TIME FOR COMPLETION**

### **7.1 Execution of the Works**

The Contractor shall commence the Works on the Commencement Date and shall proceed expeditiously and without delay and shall complete the Works, subject to Sub-Clause 7.3 below, within the Time for Completion.

### **7.2 Programme**

~~Within the time stated in the Contract Data, the Contractor shall submit to the Engineer/Procuring Agency a programme for the Works in the form stated in the Contract Data.~~

### **7.3 Extension of Time**

The Contractor shall, within such time as may be reasonable under the circumstances,



notify the Procuring Agency/Engineer of any event(s) falling within the scope of Sub-Clause 6.1 or 10.3 of these Conditions of Contract and request the Procuring Agency/Engineer for a reasonable extension in the time for the completion of works. Subject to the aforesaid, the Procuring Agency/Engineer shall determine such reasonable extension in the time for the completion of works as may be justified in the light of the details/particulars supplied by the Contractor in connection with the such determination by the Procuring Agency/Engineer within such period as may be prescribed by the Procuring Agency/Engineer for the same; and the Procuring Agency may extend the time for completion as determined.

#### **7.4 Late Completion**

If the Contractor fails to complete the Works within the Time for Completion, the Contractor's only liability to the Procuring Agency for such failure shall be to pay the amount as **liquidity damages** stated in the Contract Data for each day for which he fails to complete the Works.

### **8. TAKING-OVER**

#### **8.1 Completion**

The Contractor may notify the Engineer/Procuring Agency when he considers that the Works are complete.

#### **8.2 Taking-Over Notice**

Within fourteen (14) days of the receipt of the said notice of completion from the Contractor the Procuring Agency/Engineer shall either takeover the completed works and issue a Certificate of Completion to that effect or shall notify the Contractor his reasons for not taking-over the works. While issuing the Certificate of Completion as aforesaid, the Procuring Agency/Engineer may identify any outstanding items of work which the Contractor shall undertake during the Maintenances Period.

### **9. REMEDYING DEFECTS**

#### **9.1 Remedying Defects**

The Contractor shall for a period stated in the Contract Data from the date of issue of the Certificate of Completion carry out, at no cost to the Procuring Agency, repair and rectification work which is necessitated by the earlier execution of poor quality of work or use of below specifications material in the execution of Works and which is so identified by the Procuring Agency/Engineer in writing within the said period. Upon expiry of the said period, and subject to the Contractor's faithfully performing his aforesaid obligations, the Procuring Agency/Engineer shall issue a Maintenance Certificate whereupon all obligations of the Contractor under this Contract shall come to an end.

Failure to remedy any such defects or complete outstanding work within a reasonable time shall entitle the Procuring Agency to carry out all necessary works at the Contractor's cost. However, the cost of remedying defects not attributable to the Contractor shall be valued as a Variation.

#### **9.2 Uncovering and Testing**



The Engineer/Procuring Agency may give instruction as to the uncovering and/or testing of any work. Unless as a result of an uncovering and/or testing it is established that the Contractor's design, materials, plant or workmanship are not in accordance with the Contract, the Contractor shall be paid for such uncovering and/or testing as a Variation in accordance with Sub-Clause 10.2.

## **10. VARIATIONS AND CLAIMS**

### **10.1 Right to Vary**

The Procuring Agency / Engineer may issue Variation Order(s) in writing. Where for any reason it has not been possible for the Procuring Agency/Engineer to issue such Variations Order(s), the Contractor may confirm any verbal orders given by the Procuring Agency/Engineer in writing and if the same are not refuted/denied by the Procuring Agency/Engineer within ten (10) days of the receipt of such confirmation the same shall be deemed to be a Variation Orders for the purposes of this Sub-Clause.

### **10.2 Valuation of Variations**

Variations shall be valued as follows:

- a) at a lump sum price agreed between the Parties, or
- b) where appropriate, at rates in the Contract, or
- c) in the absence of appropriate rates, the rates in the Contract shall be used as the basis for valuation, or failing which
- d) at appropriate new rates, as may be agreed or which the Engineer/Procuring Agency considers appropriate, or
- e) if the Engineer/Procuring Agency so instructs, at day work rates set out in the Contract Data for which the Contractor shall keep records of hours of labour and Contractor's Equipment, and of Materials, used.

### **10.3 Changes in the Quantities.**

- a) If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 1 percent of the Initial Contract Price, the Procuring Agency/Engineer shall adjust the rate to allow for the change and will be valued as per sub clause 10.2.
- b) The Engineer shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 15 percent, except with the prior approval of the Procuring Agency.
- c) If requested by the Engineer, the contractor shall provide the Engineer with a detailed cost breakdown of any rate in the Bill of Quantities.

#### **10.4 Early Warning**

The Contractor shall notify the Engineer/Procuring Agency in writing as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment.

To the extent of the Contractor's failure to notify, which results to the Engineer/Procuring Agency being unable to keep all relevant records or not taking steps to minimise any delay, disruption, or Cost, or the value of any Variation, the Contractor's entitlement to extension of the Time for Completion or additional payment shall be reduced/rejected.

#### **10.5 Valuation of Claims**

If the Contractor incurs Cost as a result of any of the Procuring Agency's Risks, the Contractor shall be entitled to the amount of such Cost. If as a result of any Procuring Agency's Risk, it is necessary to change the Works, this shall be dealt with as a Variation subject to Contractor's notification for intention of claim to the Engineer/Procuring Agency within fourteen (14) days of the occurrence of cause.

#### **10.6 Variation and Claim Procedure**

The Contractor shall submit to the Engineer/Procuring Agency an itemized detailed breakdown of the value of variations and claims within twenty eight (28) days of the instruction or of the event giving rise to the claim. The Engineer/Procuring Agency shall check and if possible agree the value. In the absence of agreement, the Procuring Agency shall determine the value.

### **11. CONTRACT PRICE AND PAYMENT**

#### **11.1 (a) Terms of Payments**

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract, shall , subject to Clause 11.3, be paid by the Procuring Agency to the Contractor within 30 days after such Interim Payment Certificate has been jointly verified by Procuring Agency and Contractor, or, in the case of the Final Certificate referred to in Sub Clause 11.5, within 60days after such Final Payment Certificate has been jointly verified by Procuring Agency and Contractor;

Provided that the Interim Payment shall be caused in thirty (30) days and Final Payment in 60 days in case of foreign funded project. In the event of the failure of the Procuring Agency to make payment within 90 days then Procuring Agency shall pay to the Contractor compensation at the 28 days rate of KIBOR+2% per annum in local currency and LIBOR+1% for foreign currency, upon all sums unpaid from the date by which the same should have been paid.

#### **(b) Valuation of the Works**

The Works shall be valued as provided for in the Contract Data, subject to Clause 10.

#### **11.2 Monthly Statements**

The Contractor shall be entitled to be paid at monthly intervals:

- a) the value of the Works executed less to the cumulative amount paid previously; and
- b) value of secured advance on the materials and valuation of variations (if any).

The Contractor shall submit each month to the Engineer/Procuring Agency a statement showing the amounts to which he considers himself entitled.

### **11.3 Interim Payments**

Within a period not exceeding seven (07) days from the date of submission of a statement for interim payment by the Contractor, the Engineer shall verify the same and within a period not exceeding thirty (30/60) days from the said date of submission by the Contractor, the Procuring Agency shall pay to the Contractor the sum subject to adjustment for deduction of the advance payments and retention money.

### **11.4 Retention**

Retention money shall be paid by the Procuring Agency to the Contractor within fourteen (14) days after either the expiry of the period stated in the Contract Data, or the remedying of notified defects, or the completion of outstanding work, all as referred to in Sub-Clause 9.1, whichever is the later.

### **11.5 Final Payment**

Within twenty one (21) days from the date of issuance of the Maintenance Certificate the Contractor shall submit a final account to the Engineer to verify and the Engineer shall verify the same within fourteen (14) days from the date of submission and forward the same to the Procuring Agency together with any documentation reasonably required to enable the Procuring Agency to ascertain the final contract value.

Within sixty (60) days from the date of receipt of the verified final account from the Engineer, the Procuring Agency shall pay to the Contractor any amount due to the Contractor. While making such payment the Procuring Agency may, for reasons to be given to the Contractor in writing, withhold any part or parts of the verified amount.

### **11.6 Currency**

Payment shall be in the currency stated in the Contract Data.

## **12. DEFAULT**

### **12.1 Defaults by Contractor**

If the Contractor abandons the Works, refuses or fails to comply with a valid instruction of the Engineer/Procuring Agency or fails to proceed expeditiously and without delay, or is, despite a written complaint, in breach of the Contract, the Procuring Agency may give notice referring to this Sub-Clause and stating the default.

If the Contractor has not taken all practicable steps to remedy the default within fourteen (14) days after receipt of the Procuring Agency's notice, the Procuring Agency may by a second notice given within a further twenty one (21) days, terminate the Contract. The Contractor shall then demobilize from the Site leaving behind any Contractor's Equipment which the Procuring Agency instructs, in the second notice, to be used for the completion of the Works at the risk and cost of the Contractor.

### **12.2 Defaults by Procuring Agency**

If the Procuring Agency fails to pay in accordance with the Contract, or is, despite a written complaint, in breach of the Contract, the Contractor may give notice referring to this Sub-Clause and stating the default. If the default is not remedied within fourteen (14) days after the Procuring Agency's receipt of this notice, the Contractor may suspend the execution of all or parts of the Works.

If the default is not remedied within twenty eight(28) days after the Procuring Agency's receipt of the Contractor's notice, the Contractor may by a second notice given within a further twenty one (21) days, terminate the Contract. The Contractor shall then demobilise from the Site.

### **12.3 Insolvency**

If a Party is declared insolvent under any applicable law, the other Party may by notice terminate the Contract immediately. The Contractor shall then demobilize from the site leaving behind, in the case of the Contractor's insolvency, any Contractor's Equipment which the Procuring Agency instructs in the notice is to be used for the completion of the Works.

### **12.4 Payment upon Termination**

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the works executed and of the Materials and Plant reasonably delivered to the site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) any sums to which the Procuring Agency is entitled,
- c) if the Procuring Agency has terminated under Sub-Clause 12.1 or 12.3, the Procuring Agency shall be entitled to a sum equivalent to twenty percent(20%) of the value of parts of the Works not executed at the date of the termination, and
- d) if the Contractor has terminated under Sub-Clause 12.2 or 12.3, the Contractor shall be entitled to the cost of his demobilization together with a sum equivalent to ten percent (10%) of the value of parts of the works not executed at the date of termination.

The net balance due shall be paid or repaid within twenty eight (28) days of the notice of termination.

## **13. RISKS AND RESPONSIBILITIES**

### **13.1 Contractor's Care of the Works**

Subject to Sub-Clause 9.1, the Contractor shall take full responsibility for the care of the Works from the Commencement Date until the date of the Procuring Agency's/Engineer's issuance of Certificate of Completion under Sub-Clause 8.2. Responsibility shall then pass to the Procuring Agency. If any loss or damage happens to the Works during the above period, the Contractor shall rectify such loss or damage so that the Works conform with the Contract.

Unless the loss or damage happens as a result of any of the Procuring Agency's Risks, the Contractor shall indemnify the Procuring Agency, or his agents against all claims loss, damage and expense arising out of the Works.

### **13.2 Force Majeure**

If Force Majeure occurs, the Contractor shall notify the Engineer/Procuring Agency immediately. If necessary, the Contractor may suspend the execution of the Works and, to the extent agreed with the Procuring Agency demobilize the Contractor's Equipment.

If the event continues for a period of eighty four (84) days, either Party may then give notice of termination which shall take effect twenty eight (28) days after the giving of the notice.

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) the cost of his demobilization, and
- c) less any sums to which the Procuring Agency is entitled.

The net balance due shall be paid or repaid within thirty five (35) days of the notice of termination.

## **14. INSURANCE**

### **14.1 Arrangements**

The Contractor shall, prior to commencing the Works, effect insurances of the types, in the amounts and naming as insured the persons stipulated in the Contract Data except for items (a) to (e) and (i) of the Procuring Agency's Risks under Sub-Clause 6.1. The policies shall be issued by insurers and in terms approved by the Procuring Agency. The Contractor shall provide the Engineer/Procuring Agency with evidence that any required policy is in force and that the premiums have been paid.

### **14.2 Default**

If the Contractor fails to effect or keep in force any of the insurances referred to in the previous Sub-Clause, or fails to provide satisfactory evidence, policies or receipts, the Procuring Agency may, without prejudice to any other right or remedy, effect insurance for the cover relevant to such as a default and pay the premiums due and recover the same plus a sum in percentage given in Contractor Data from any other amounts due to the Contractor.



## **15. RESOLUTION OF DISPUTES**

### **15.1 Engineer's Decision**

If a dispute of any kind whatsoever arises between the Procuring Agency and the Contractor in connection with the works, the matter in dispute shall, in the first place, be referred in writing to the Engineer, with a copy to the other party. Such reference shall state that it is made pursuant to this Clause. No later than the twenty eight (28) days after the day on which he received such reference, the Engineer shall give notice of his decision to the Procuring Agency (Superintending Engineer) and the Contractor.

Unless the Contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the work with all due diligence, and the Contractor and the Procuring Agency (Superintending Engineer) shall give effect forthwith to every such decision of the Engineer unless and until the same shall be revised, as hereinafter provided in an arbitral award.

### **15.2 Notice of Dissatisfaction**

If a Party is dissatisfied with the decision of the Engineer of consultant or if no decision is given within the time set out in Sub-Clause 15.1 here above, the Party may give notice of dissatisfaction referring to this Sub-Clause within fourteen (14) days of receipt of the decision or the expiry of the time for the decision. If no notice of dissatisfaction is given within the specified time, the decision shall be final and binding on the Parties. If notice of dissatisfaction is given within the specified time, the decision shall be binding on the Parties who shall give effect to it without delay unless and until the decision of the Engineer is revised by an arbitrator.

If a contractor is dissatisfied with the decision of the Engineer of the department or decision is not given in time then he can approach Superintending Engineer within 14 days, in case of dissatisfaction with decision of Superintending Engineer or not decided within 28 days, then arbitration process would be adopted as per clause 15.3.

### **15.3 Arbitration**

A dispute which has been the subject of a notice of dissatisfaction shall be finally settled as per provisions of Arbitration Act 1940 (Act No. X of 1940) and Rules made there under and any statutory modifications thereto. Any hearing shall be held at the place specified in the Contract Data and in the language referred to in Sub-Clause 1.5.

## **16 INTEGRITY PACT**

16.1 If the Contractor or any of his Sub-Contractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Schedule-F to his Bid, then the Procuring Agency shall be entitled to:

(a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Sub-



Contractors, agents or servants;

(b) terminate the Contract; and

(c) recover from the Contractor any loss or damage to the Procuring Agency as a result of such termination or of any other corrupt business practices of the Contractor or any of his Sub-Contractors, agents or servants.

On termination of the Contract under Sub-Para (b) of this Sub-Clause, the Contractor shall demobilize from the site leaving behind Contractor's Equipment which the Procuring Agency instructs, in the termination notice, to be used for the completion of the works at the risk and cost of the Contractor. Payment upon such termination shall be made under Sub-Clause 12.4, in accordance with Sub-Para (c) thereof, after having deducted the amounts due to the Procuring Agency under Sub-Para (a) and (c) of this Sub-Clause.

## **CONTRACT DATA**

### **Sub-Clauses of Conditions of Contract**

#### **1.1.4 The Procuring Agency means**

\_\_\_\_\_, Director, Alternative Energy, Directorate of Alternative Energy,  
Energy Department, Government of Sindh

#### **1.1.5 The Contractor means**

\_\_\_\_\_  
\_\_\_\_\_

**1.1.7 Commencement Date** means the date of issue of Engineer's Notice to Commence which shall be issued within fourteen (14) days of the signing of the Contract Agreement.

#### **1.1.9 Time for Completion:**

\_\_\_\_\_ days of supply & installation, and \_\_\_\_\_ years of operation & maintenance services including warrantee period (\_\_\_\_\_ years )

#### **1.3 Documents forming the Contract listed in the order of priority:**

- (a) The Contract Agreement
- (b) Letter of Acceptance
- (c) The completed Form of Bid
- (d) Contract Data
- (e) Conditions of Contract
- (f) The completed Schedules to Bid including Schedule of Prices including Corrigendum and Addendum
- (g) The Drawings, if any (provided by the contractor)
- (h) The Specifications

#### **2.1 Provision of Site:** On the Commencement Date

**3.1 Authorized person:** \_\_\_\_\_, Director, Directorate of Alternative Energy, Government of Sindh

#### **3.2 Name and address of Engineer's/Procuring Agency's representative**

Mr. \_\_\_\_\_ Director, Directorate of Alternative Energy,  
Government of Sindh

#### **4.4 Performance Security:**

Amount Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only)  
Validity \_\_\_\_\_ years (\_\_\_\_\_ years)

#### **7.2 Programme:**

**Time for submission:** Within fourteen (14) days\* of the Commencement Date.

**Form of programme:** Bar Chart/CPM/PERT

7.4 Amount payable due to failure to complete shall be 0.075% per day up to a maximum of (10%) of sum stated in the Letter of Acceptance (Usually the liquidated damages are set between 0.05 percent and 0.10 percent per day.)

#### 7.5 **Early Completion**

In case of earlier completion of the Work, the Contractor is entitled to be paid bonus up-to limit and at a rate equivalent to 50% of the relevant limit and rate of liquidated damages stated in the contract data.

#### 9.1 **Period for remedying defects**

Two Months (2 months)

#### 11.1 **Terms of Payments**

##### **a) Mobilization Advance**

(1) Mobilization Advance up to 10 % of the Contract Price stated in the Letter of Acceptance shall be paid by the Procuring Agency to the Contractor on the works costing Rs.2.5 million or above on following conditions:

- (i) on submission by the Contractor of a Mobilization Advance Guarantee for the full amount of the Advance in the specified form from a Scheduled Bank in Pakistan to the Procuring Agency;
- (ii) Contractor will pay interest on the mobilization advance at the rate of 10% per annum on the advance; and
- (iii) This Advance including the interest shall be recovered in 5 equal installments from the five (05) R.A bills and in case the number of bills is less than five (05) then 1/5 th of the advance **inclusive of the interest** thereon shall be recovered from each bill and the balance together with interest be recovered from the final bill. It may be insured that there is sufficient amount in the final bill to enable recovery of the Mobilization Advance.

OR

##### **2) Secured Advance on Materials**

(a) The Contractor shall be entitled to receive from the Procuring Agency Secured Advance against an INDENTURE BOND in P W Account Form No. 31(Fin. R. Form No. 2 acceptable to the Procuring Agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the Site but not yet incorporated in the Permanent Works provided that:

- (i) The materials are in accordance with the Specifications for the Permanent Works;
- (ii) Such materials have been delivered to the Site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer but at the risk and cost of the Contractor;
- (iii) The Contractor's records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;
- (iv) The Contractor shall submit with his monthly statement the estimated value of the materials on Site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore;

(v) Ownership of such materials shall be deemed to vest in the Procuring Agency and these materials shall not be removed from the Site or otherwise disposed of without written permission of the Procuring Agency;

(vi) The sum payable for such materials on Site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or

(iii) market price of stands other materials;

(vii) Secured Advance should not be allowed unless & until the previous advance, if any, fully recovered;

(viii) Detailed account of advances must be kept in part II of running account bill; and

(ix) Secured Advance may be permitted only against materials/quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and definitely not for full quantities of materials for the entire work/contract

(b) Recovery of Secured Advance:

(i) Secured Advance paid to the Contractor under the above provisions shall be effected from the monthly payments on actual consumption basis, but not later than period specified in the rules not more than three months (even if unutilized); other conditions.

(ii) As recoveries are made the outstanding accounts of the items concerned in Part II should be reduced by making deduction entries in the column; deduct quantity utilized in work measured since previous bill, equivalent to the quantities of materials used by the contractor on items of work shown as executed in part I of the bill.

(c) Interim payments: The Contractor shall submit to the Engineer monthly statements of the estimated value of the work completed less the cumulative amount certified previously.

(i) The value of work completed comprises the value of the quantities of the items in the Bill of Quantities completed.

(ii) value of secured advance on the materials and valuation of variations (if any).

(iii) Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

(v) Retention money and other advances are to be recovered from the bill submitted by contractor.

**11.2 (a) Valuation of the Works:**

i) Lump sum price with schedules of rates Rs. \_\_\_\_\_/- (details), or

ii) Lump sum price with bill of quantities Rs. \_\_\_\_\_/- (details),

**11.3 Percentage of retention:** Performance Security in the shape of \_\_\_\_\_ an amount of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) i.e. 5% of offered bid price

**11.6 Currency of payment:** Pak. Rupees

**15.3 Arbitration**

Place of Arbitration: Karachi

**Product Liability**

*(Following conditions may vary subject to any addition or change in agreed conditions and will be finalized before award of contract)*

1. The Seller shall be liable for any lack of conformity in goods.
2. The Seller shall be liable to take data of inverters, batteries and solar panels at least one time in month for a period of one year.

3. The Seller declares that the goods during warranty period from the date of collection by the Buyer will remain fit for the purposes for which the goods would ordinarily be used or during this period will retain specified qualities (hereinafter referred to as the "Warranty Period").
4. If the Buyer discovers any defect during the Warranty Period, the Buyer shall give written notice of the defect to the Seller and not later than within 15 days after such defect had been detected.
5. In the written notice specifying the defect, Seller shall have the following options.
  - a) Replace the defective goods by new one/repair it under warrantee period as stated in warranty document.
  - b) Replace/Repair the defective goods if the defects are repairable which is entirely upon the discretion of the Buyer beyond warrantee period. If repair of goods require more time, then the Seller should provide the alternate solution on temporary basis.
6. The Seller upon receipt a notice from the Buyer stating the defect promptly shall give a written statement and reply whether he accepts the claim for defects or not.

## STANDARD FORMS

*(Note: Standard Forms provided in this document for securities are to be issued by a bank. In case the bidder chooses to issue a bond for accompanying his bid or performance of contract or receipt of advance, the relevant format shall be tailored accordingly without changing the spirit of the Forms of securities).*



**FORM OF BID SECURITY (Bank Guarantee)**

Guarantee No. \_\_\_\_\_

Executed on \_\_\_\_\_

( Letter by the Guarantor to the Procuring Agency)

Name of Guarantor (Scheduled Bank in Pakistan) with  
address: \_\_\_\_\_

Name of Principal (Bidder) with

address: \_\_\_\_\_

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 Procuring Agency ) 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 Procuring Agency; and

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

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

(2) that in the event of;

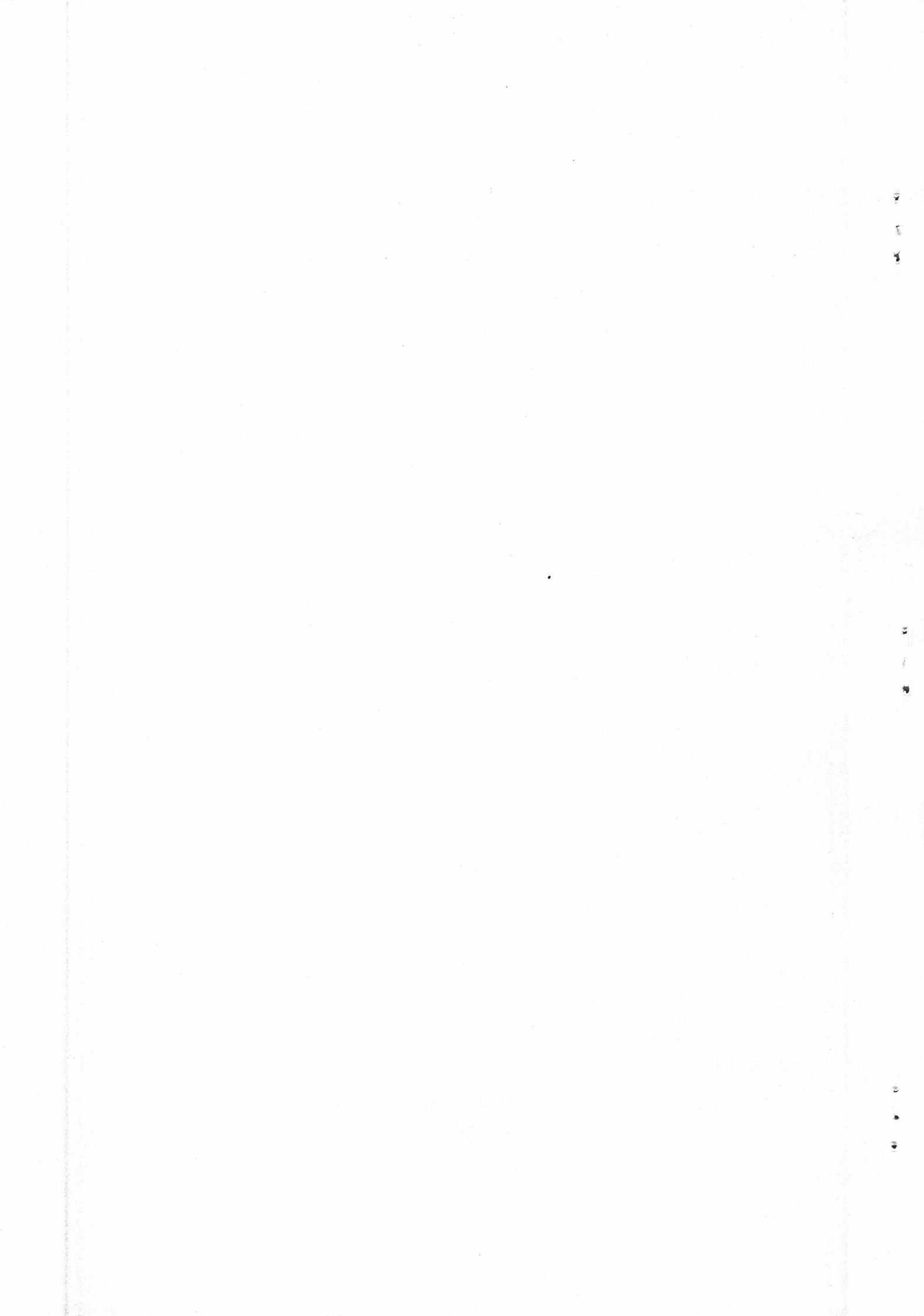
- (a) the Principal withdraws his Bid during the period of validity of Bid, or
- (b) the Principal does not accept the correction of his Bid Price, pursuant to Sub-Clause 16.4 (b) of Instructions to Bidders, or
- (c) failure of the successful bidder to

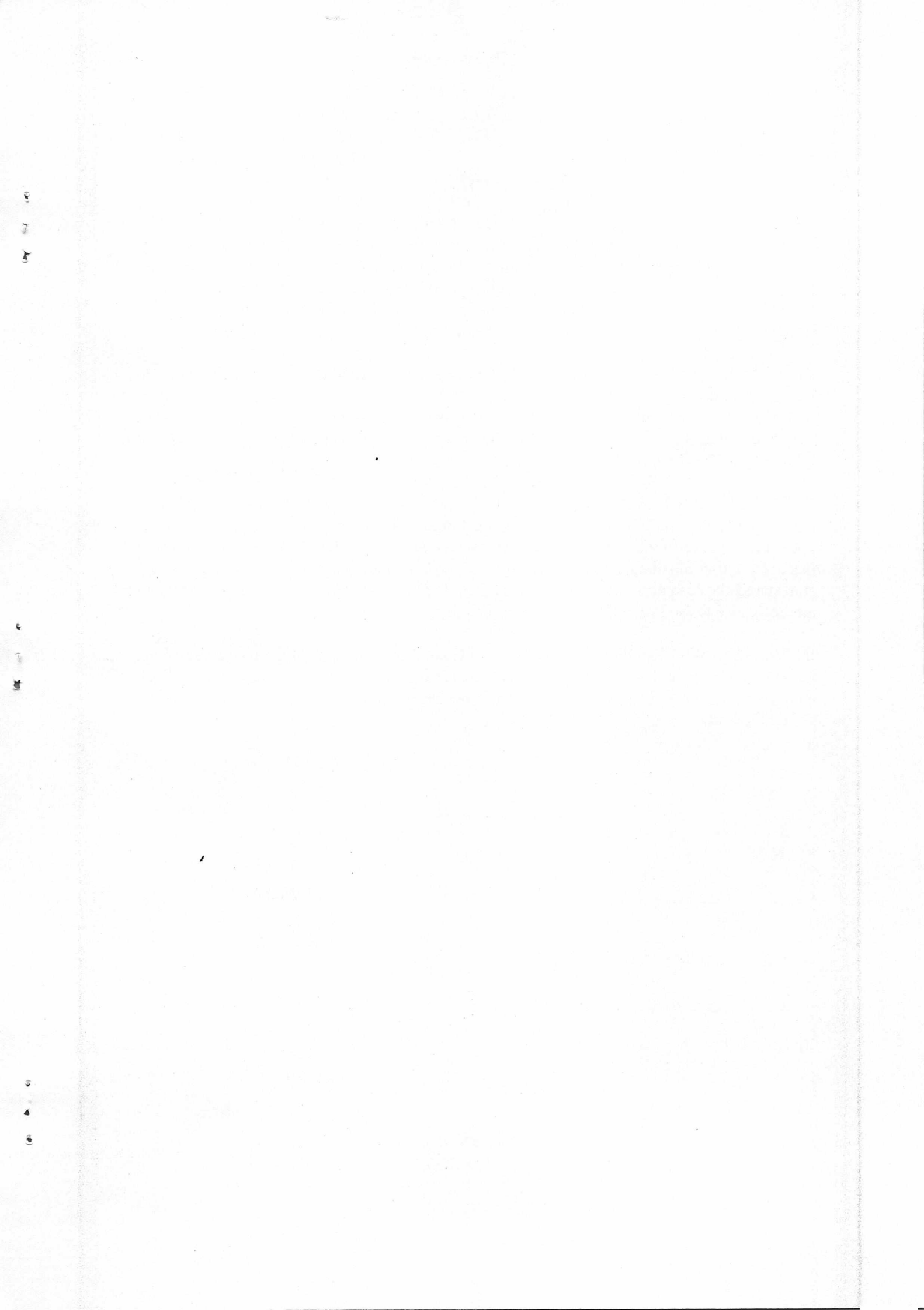
(i) furnish the required Performance Security, in accordance with Sub-Clause IB-21 . 1 of Instructions to Bidders, or

(ii) sign the proposed Contract Agreement, in accordance with Sub-Clauses IB-20.2 & 20.3 of Instructions to Bidders,

the entire sum be paid immediately to the said Procuring Agency for delayed completion and not as penalty for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefore, on





the prescribed form presented to him for signature enter into a formal Contract Agreement with the said Procuring Agency in accordance with his Bid as accepted and furnish within fourteen (14) days of receipt of Letter of Acceptance, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Procuring Agency for the faithful performance and proper fulfillment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified 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 Procuring Agency the said sum stated above upon first written demand of the Procuring Agency without cavil or argument and without requiring the Procuring Agency to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Procuring Agency by registered post duly addressed to the Guarantor at its address given above.

PROVIDED ALSO THAT the Procuring Agency 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 Procuring Agency forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above bounded 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. Signature

1. \_\_\_\_\_

2. Name \_\_\_\_\_

3. Title \_\_\_\_\_

Corporate Secretary (Seal)

2. \_\_\_\_\_

(Name, Title & Address)

Corporate Guarantor (Seal)

**FORM OF PERFORMANCE SECURITY (Bank Guarantee)**

Guarantee No. \_\_\_\_\_  
Executed on \_\_\_\_\_

Expiry Date \_\_\_\_\_

(Letter by the Guarantor to the Procuring Agency)

Name of Guarantor (Scheduled Bank in Pakistan) with  
address: \_\_\_\_\_

Name of Principal (Contractor) with  
address: \_\_\_\_\_

Penal Sum of Security (express in words and  
figures) \_\_\_\_\_

Letter of Acceptance No. \_\_\_\_\_ Dated \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the \_\_\_\_\_ (hereinafter called the Procuring Agency) in the penal sum of the amount stated above, for the payment of which sum well and truly to be made to the said Procuring Agency, 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 accepted the Procuring Agency's above said Letter of Acceptance for \_\_\_\_\_  
\_\_\_\_\_ (Name of Contract) for the \_\_\_\_\_  
\_\_\_\_\_ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Procuring Agency, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of the said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 9, Remedying Defects, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, \_\_\_\_\_ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the

Procuring Agency without delay upon the Procuring Agency's first written demand without cavil or arguments and without requiring the Procuring Agency to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Procuring Agency's written declaration that the Principal has refused or failed to perform the obligations under the Contract, for which payment will be effected by the Guarantor to Procuring Agency's designated Bank & Account Number.

PROVIDED ALSO THAT the Procuring Agency shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Procuring Agency forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above bounded Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate 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. \_\_\_\_\_

1. Signature \_\_\_\_\_

\_\_\_\_\_  
Corporate Secretary (Seal)

2. Name \_\_\_\_\_

3. Title \_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_  
(Name, Title & Address)

\_\_\_\_\_  
Corporate Guarantor (Seal)



## **FORM OF CONTRACT AGREEMENT**

THIS CONTRACT AGREEMENT (hereinafter called the Agreement ) made on the \_\_\_\_ day of June, 2014 between \_\_\_\_\_, Director, Directorate of Alternative Energy, Energy Department, Government of Sindh (hereinafter called the Procuring Agency ) of the one part and \_\_\_\_\_(add contractor's name, address and phone numbers \_\_\_\_\_(hereinafter called the Contractor ) of the other part.

WHEREAS the Procuring Agency is desirous that certain Works, viz "Supply and Installation of Solar PV Powered LED Street Lights, at Gadap Town, Malir, Karachi" should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any except those parts relating to Instructions to Bidders, shall be deemed to form and be read and construed as part of this Agreement, viz:
  - (a) The Letter of Acceptance;
  - (b) The completed Form of Bid along with Schedules to Bid;
  - (c) Conditions of Contract & Contract Data;
  - (d) The priced Schedule of Prices/Bill of quantities (BoQ);
  - (e) The Specifications; and
  - (f) The Drawings
3. In consideration of the payments to be made by the Procuring Agency to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Procuring Agency to execute and complete the Works and remedy defects therein in conformity and in all respects within the provisions of the Contract.
4. The Procuring Agency hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Contract Agreement to be executed on the day , month and year first before written in accordance with their respective laws.

\_\_\_\_\_  
Signature of the Contactor

(Seal)

\_\_\_\_\_  
Signature of the Procuring Agency

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

(Name, Title and Address)

Witness:

(Name, Title and Address)

**MOBILIZATION ADVANCE GUARANTEE**

Guarantee No. \_\_\_\_\_  
Executed on \_\_\_\_\_

(Letter by the Guarantor to the Procuring Agency)

WHEREAS the \_\_\_\_\_ (hereinafter called the Procuring Agency) has entered into a Contract for

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (Particulars of Contract), with  
\_\_\_\_\_ (hereinafter called the Contractor).

AND WHEREAS the Procuring Agency has agreed to advance to the Contractor, at the Contractor's request, an amount of Rs. \_\_\_\_\_ Rupees \_\_\_\_\_) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS the Procuring Agency has asked the Contractor to furnish Guarantee to secure the advance payment for the performance of his obligations under the said Contract.

AND WHEREAS \_\_\_\_\_ (Scheduled Bank) (hereinafter called the Guarantor) at the request of the Contractor and in consideration of the Procuring Agency agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW THEREFORE the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails, and commits default in fulfillment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the Procuring Agency for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the Procuring Agency shall be the sole and final judge, as aforesaid, on the part of the Contractor, shall be given by the Procuring Agency to the Guarantor, and on such first written demand payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall come into force as soon as the advance payment has been credited to the account of the Contractor.

This Guarantee shall expire not later than \_\_\_\_\_ by which date we must have received any claims by registered letter, telegram, telex or telefax.

It is understood that you will return this Guarantee to us on expiry or after settlement of the total amount to be claimed hereunder.

\_\_\_\_\_  
Guarantor (Scheduled Bank)

Witness:

1. \_\_\_\_\_

1. Signature \_\_\_\_\_

\_\_\_\_\_  
Corporate Secretary (Seal)

2. Name \_\_\_\_\_

3. Title \_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_  
(Name, Title & Address)

\_\_\_\_\_  
Corporate Guarantor (Seal)

## INDENTURE FOR SECURED ADVANCES

(For use in cases in which is contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time ).

This INDENTURE made the ..... day of .....  
----- -197--" BETWEEN (hereinafter called "the Contractor" which expression shall where the context so admits or implied be deemed to include his heirs, executors, administrators and assigns) of the one part and THE GOVERNOR OF SINDH (hereinafter called "the Government" of the other part).

WHEREAS by an agreement, dated ( hereinafter called the said agreement, the contractor has agreed to perform the under-mentioned works (hereinafter referred to as the said work):-  
(Here enter (the description of the works).

AND WHEREAS the contractor has applied to the .....  
— ..... for an advance to him of Rupees -----  
(Rs. .... ) on the security of materials absolutely belonging to him and brought by him to the site of the said works the subject of the said agreement f or use in the construction of such of the said works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charge) AND WHEREAS the Government has agreed to advance to the Contractor the sum of Rupees, (Rs. .... ) on the security of materials the quantities and other particulars of which are detailed in Part II of Running Account Bill (E). the said works signed by the contractor Fin R.Form.17.Aon -----  
..... — and on such covenants and conditions as are hereinafter contained and the Government has reserved to itself the option of marking any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

NOW THIS INDENTURE WTTNESSETH that in pursuance of the said — ..... agreement and in consideration of the sum of Rupees ..... - ..... (Rs. -----  
..... ----- ) on or before the execution of these presents paid to the Contractor by the Government (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid (all of which advances are hereinafter collectively referred to as the said amount) the Contractor doth hereby assign unto the Government the said materials by way of security for the said amount And doth hereby covenant and agree with the Government and declare as follows:

(1) That the said sum of Rupees ..... - ..... (Rs. -----  
----- ) so advanced by the Government to the Contractor as aforesaid and all or any further sum or sums which may be advanced aforesaid shall be employed by the contractor in or towards expending the execution of the said works and for no other purpose whatsoever.

(2) That the materials detailed in the said Running Account Bill (B) which have been (Fin R Form No. 17-A)Offered to and accepted by (he Government as security for the said amount are absolutely by the Contractors own property free from encumbrances of any kind and the Contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the contractor hereby agrees, at all times, to indemnify and save harmless the Government against all claims whatsoever to any materials in respect of which an advance has been made to him as aforesaid.

(3) That the said materials detailed in the said Running Account Bill (B) and all other (F i n . R . F

or m No. 17-A)

Materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Divisional Officer -----  
----- (hereinafter called the Divisional Officer) and in the terms of the said agreement.

(4) That the Contractor shall make at his own cost all necessary and adequate arrangement for the proper watch, safe custody and protection against all risks of the said material and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and at his own risk and on his own responsibility and shall at all times be open to inspection by (he Divisional Officer or any officer authorized by him. In the event of the said materials of any part (hereof being stolen, destroyed or damaged or becoming deteriorated in a grater degree than is due to reasonable use and wear thereof Contractor will forthwith replace the same with other materials of like qualify or repair and make good the same as required by the Divisional Officer and the materials so brought to replace the said materials so repaired and made good shall also be considered as security for the said amount.

(5) 'Hurt the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional Officer or an officer authorized by him in that behalf

(6) That the said amount shall be payable in full when or before the Contractor receives payment, from the Government of the price payable to him f or the said works under the terms and provisions of the said agreement PROVIDED THAT if any inter mediate payments are made to the contractor on account of work done then on the occasion of each such payment the Government will be at liberty to make a recovery from the Contractor s Bill for such payment by deducting there from in the value of the said materials (hen actually used in the construction and in respect of which recovery has not been made previously the value f or this purpose being determined in respect of each description of material at (he rates at which the amount of the advances made under these presents were calculated.

(7) That if the Contractor shall at any time make any default in the performance or observation in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Government shall immediately on the happening of such default be repayable by the Contractor to the Government together with interest thereon at twelve percent per annum from the date or respective dates of such advance or advances to the date or repayment and with all costs, charges, damages and expenses incurred by the Government in or for the recovery thereof or the enforcement of this security or otherwise by reason of (he default of the Contractor and any moneys so becoming due and

payable shall constitute a debt due from the Contractor to the Government and the Contractor hereby covenants and agrees with the Government to repay and the same respectively to it accordingly.

(8) That the Contractor hereby charges all the said materials with the repayment to the Government of the said sum of Rupees ..... - .....  
(Rs. ....) and any further sum or sums which may be advanced as aforesaid and all costs charges damages and expenses payable under these present PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said



agreement and without prejudice to the powers contained therein if and whether the covenant for payment and repayment hereinbefore contained shall become enforceable and the money owing shall not be paid to accordingly. Once there with the Government may at any time thereafter adopt all or any of following courses as it may deem best :-

(a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay the same to the Government on demand.

(b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable to the Government under these presents and pay over the surplus (if any) to the Contractor.

(c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.

(9) That except as is expressly provided by the presents interest on the aid advance shall not be payable.

(10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been hereinbefore expressly provided for the same shall be referred to the Superintending Engineer ..... Circle whose..... decision shall be final and the provisions of the Indian Arbitration Act for the time being in force so far as they are applicable shall apply to any such reference.

In witnesses whereof the\* ----- - — \_\_\_\_\_ on behalf of the Governor of Sindh and the said ..... — ..... - ..... --have hereunto set their respective hands and seals the day and first above written.

Signed, sealed and delivered by\* In the presence of

Seal

1st witness 2<sup>nd</sup> witness

Signed, sealed and delivered by\* In the presence of

Seal

1st Witness witnessed

