

**Tender Fee Rs. 500**

# **TENDER DOCUMENT**

for

**Supply and Installation of Solar Pumping, Drip and Sprinkler  
Irrigation Systems in Thal Desert**

**under the Project**

**Improved Land and Water Conservation Practices to Enhance  
Waste Land Productivity in Thal Desert**

**Last Date for Submission: 31<sup>st</sup> January, 2018 (1:00 PM)**

**Pakistan Council of Research in Water Resources (PCRWR)  
Khayaban-e-Johar, Near Edhi Homes, H-8/1, Islamabad  
Ph: 051-9101273, Fax: 051-9101278**

**GENERAL INFORMATION ABOUT THE CONTRACTOR/FIRM**

Name of Firm: \_\_\_\_\_

Main Line or Business: \_\_\_\_\_

Major Accomplishments: \_\_\_\_\_

\_\_\_\_\_

Type of Organization: \_\_\_\_\_

National Tax Number: \_\_\_\_\_

General Sales Tax Number: \_\_\_\_\_

Status of Active Tax Payer: \_\_\_\_\_

Registration No. with PEC: \_\_\_\_\_

Phone No(s): \_\_\_\_\_

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

\_\_\_\_\_

Fax No. \_\_\_\_\_ Email: \_\_\_\_\_

Contact person: \_\_\_\_\_

\_\_\_\_\_  
**SIGNATURE & SEAL OF  
CONTRACTOR/FIRM**

## **TERMS AND CONDITIONS**

### **GENERAL**

The bids are required from the firms/companies registered with Income/Sales Tax departments who are on active tax payers list of FBR as well as with Pakistan Engineering Council for supply and installation of 3 solar pumping, drip and sprinkler irrigation systems in Thal desert with following terms and conditions:

- i. The bidder has to submit earnest money equal to 2% of the total amount of bid(s) in the form of demand draft/pay order in favor of the Pakistan Council of Research in Water Resources (PCRWR), Islamabad. Tenders without earnest money would be rejected outrightly. In case of alternate prices, earnest money will be based on the maximum quoted price of the same item(s). The Earnest Money will be forfeited if a bidder(s) withdraws his bid(s) during the period of his bid(s) validity. The earnest money of unsuccessful bidder(s) will be returned to them after evaluation of bids.
- ii. Conditional/incomplete tenders or those having overwriting will not be accepted.
- iii. Quoted price must be inclusive of all taxes having validity for at least 90 days from the date of tender opening.
- iv. The bidders should be authorized distributor/agent of the manufacturer having facilities for full after sale services.
- v. The successful bidder would ensure that the bid is complete in all respects including supply, installation and commissioning of the solar pumping, drip and sprinkler systems at the specified locations.
- vi. Last date of submission of offers is **January 31, 2018** by 01:00 PM. The tenders would be opened at 02:00 PM on the same day in the Committee Room of PCRWR Islamabad in the presence of bidders, who may care to attend.

### **2. SCOPE OF SUPPLY**

The bidder shall supply and install solar pumping, drip and sprinkler systems as per specifications given in **Annexure-I, II & III** at the project sites, which are in Thal desert. The bidder shall also be responsible for their commissioning and free service, if required, during warranty period of one year from the date of commissioning.

### **3. BID PRICE AND QUOTING**

The bidder shall indicate, in his offer the unit prices inclusive of supply, transportation, installation with all taxes and total bid prices of the goods. Payment of any taxes, duties etc. levied before opening of bids by the Government shall be the full responsibility of the bidder(s) subject to prevailing regulations. The prices shall be quoted in Pakistan Rupees only. The person signing the bid shall initial all the pages of the bid(s) where entries are made. Prices charged by the supplier for goods delivered and services performed under the contract shall not exceed from the prices quoted by the supplier in its bid(s). No bid received after the prescribed deadline date would be entertained and will be rejected without caring the reasons for delayed

receipt in PCRWR Head Office Islamabad even due to negligence of the bidder or the postal/courier services etc.

#### **4. PURCHASER'S RIGHTS**

Pakistan Council of Research in Water Resources, Islamabad reserves the right to reduce/increase the quantity, prior to award of contract, thereby evolving no financial liability whatsoever or any other obligation on the part of PCRWR from the side of bidders. No other sub-office (outfit) of PCRWR is authorized to collect bid(s), only PCRWR Head Office located at **Khayaban-e-Johar H-8/1, Islamabad** is authorized to do so.

#### **5. CONVERSING**

Unsolicited advice/clarification and any personal contact at any stage of evaluation of bids are strictly prohibited and may lead to disqualification. The bids will be evaluated and finalized in accordance with the valid guidelines of the PPRA and PEC.

#### **6. PERFORMANCE GUARANTEE**

The supplier will be responsible for complete installation of all the systems and for its free repair services, if required, during the performance guarantee period of one year, starting from the date of completion of training & full commissioning of the systems. The successful bidder(s) is/are required to furnish a performance guarantee, equivalent to 10% of the total contract amount within ten days of issuance of supply order/award of contract; otherwise equivalent amount will be retained from payment for performance period as compensation for any loss resulting from the supplier's failure to complete its obligation. Performance guarantee/security will be forfeited in case of failure to successfully complete the performance period of the equipment. The withheld performance security will be returned after successful completion of the guarantee period.

The solar pumping, drip and sprinkler systems must have a warrantee of at least 10 years. The warrantee should be provided on the proper legally recognized document. In case of malfunctioning of the components systems during the period, the company would be asked to correct or replace the faulty components. Failure to respond and correct the fault accordingly may lead to blacklisting of the company as per the rules and regulations inforce by the Governemnt of Pakistan.

#### **7. DELIVERY AND INSTALLATION**

- i. The bidder shall complete the installation and commissioning within one and half months from the date of issuance of work order by the Pakistan Council of Research in Water Resources, Islamabad. A penalty @ 0.01% of the quoted price per day may be charged after expiry of delivery/installation/ commissioning period till the supply of equipment/item and its installation. Supply order can be canceled after an extended period of **30 days** from the expiry of first supply order and earnest money will be forfeited.

- ii. The systems have to be installed at farmers' fields (5-8 acres) on the addresses to be given in work order.

## **8. MODE OF PAYMENT**

No advance payment will be made to any firm against any supply order in any case. No such demand will be entertained and failure to supply of items against supply order will lead to forfeiture of the earnest money. Payment shall be made in the form of cross-cheque, which shall be issued, after receipt of equipment/items, inspection, installation, commissioning and training of the beneficiaries. Due documentation of the procedures and photographs with date and GPS coordinates will be responsibility of the bidder. The mode of payment will be as under:

- i. 90% payment on successful installation/commissioning of the systems and training of the beneficiaries for proper operation and maintenance
- ii. 10% payment after completion of one year.

## **9. TRAINING**

Supplier will arrange on-site necessary operation and maintenance training to the beneficiaries. The training package should be included as a part of bid.

## **10. PCRWR RESPONSIBILITY**

Coordinate and collaborate with the firm about all the technical aspects of the project components.

## **11. EVALUATION CRITERIA**

- The bids would be evaluated based upon their technical soundness with the Terms and Conditions set forth in this document. The technically qualified lowest bid will be selected.
- The procuring agency may cancel the tender as per PPRA Rule No. 33(1).
- The representative of PCRWR, or his designated Field Engineer, may examine any item, equipment, material, supplies and/or services to be provided under this contract, at any time prior to expiry of this contract. He may reject or require alteration thereto or replacements thereof as a condition of acceptance and its findings shall be conclusive except in regard to defects or fraud which may appear later.
- The Project Director, PCRWR may, at any time, make changes in the specifications of the structure. It may also increase or decrease the number of work items or their quantity. Any claim by the contractor relating to adjustments under this paragraph shall be asserted by the contractor within 10 days of receipt by him of notification of change. Also no claim for adjustment shall be receivable after the date of final payment under this contract.
- Accomplishment and/or execution of each item of work (total or a part thereof) shall be considered subject to the verification of Field Engineer designated by the PCRWR for work accomplishment.

## SOLAR PUMPING SYSTEM

Sr. No.	Items Description	Unit	Unit Rate (Rs.)
1	Solar Panel with following specifications	No.	
	Manufacturing company		
	Model		
	Manufactured in (country)		
	Warranty Period		
	Cell Type		
	Module Efficiency		
	Open Circuit Voltage		
	Short Circuit Voltage		
	Voltage at Maximum Power Point(V)		
	Current at maximum Power Point (I)		
	Temperature Coefficient (Isc)		
	Temperature Coefficient (VoC)		
	Temperature Coefficient (P <sub>max</sub> )		
	Maximum System Voltage		
	Maximum Rated Current of Diode		
Over Current Protection Rating			
2	Solar Submersible Pump (AC 5.5 HP) with following specifications	No.	
	Company		
	Manufactured in (country)		
	Pump efficiency		
3	Solar Submersible Pump (AC 7.5 HP) with following specifications	No.	
	Company		
	Manufactured in (country)		
	Pump efficiency		
4	Solar Pump Invertor/VFD (5.5 HP) with following specifications	No.	
	Model		
	Manufacturing company		

Sr. No.	Items Description	Unit	Unit Rate (Rs.)
	Manufactured in (country)		
	Breakers/Distribution Box (PV disconnect		
5	Solar Pump Invertor (7.5 HP) with following specificastions	No.	
	Model		
	Manufacturing company		
	Manufactured in (country)		
	Breakers/Distribution Box (PV disconnect		
6	Frame/Trackler (Iron) with accessories	No.	
7	Wire 3-core	Meter	
8	Wire 1-core	Meter	
9	Casing Pipe/Screen (6")	Meter	
10	Casing Pipe/Screen (8")	Meter	
11	Discharge Pipe (2")	Meter	
12	Boring Charges (8")	Meter	
13	Boring Charges (10")	Meter	
14	Other items required (if any)		
15	Installation Charges for Solar Pumping System	Lumpsum (Rs.)	
<b>Total Unit Cost (Rs.)</b>			

I/We hereby undertake that we have read and well understood the terms of the conditions of the tender and agree to abide those.

Rs. \_\_\_\_\_ Amount in words (Rupees) \_\_\_\_\_

\_\_\_\_\_

Place :- \_\_\_\_\_ Date :- \_\_\_\_\_

Sign & Seal of the Tenderer

**DRIP IRRIGATION SYSTEM**

<b>Sr. No.</b>	<b>Items Description</b>	<b>Unit</b>	<b>Unit Rate (Rs.)</b>
<b>I.</b>	<b>Drip Tubing/Lines</b>		
1.	16mm poly tube wt 1.2 mm	Meter	
2.	16mm Gromet take off with Rubber	No.	
3.	16mm barbed tee	No.	
4.	16mm Rartchit clip	No.	
5.	16mm end plug figure 8	No.	
6.	Drip emitters 8-20 lph	No.	
7.	16mm Joiner	No.	
<b>II.</b>	<b>uPVC Pipe Works</b>		
8.	1" uPVC pipe Class E	Meter	
9.	1 ½" uPVC pipe Class D	Meter	
10.	2" uPVC pipe Class D	Meter	
11.	3" uPVC pipe Class D	Meter	
<b>III.</b>	<b>uPVC Pipe Fittings</b>		
12.	1½ x 1" uPVC reducer	No.	
13.	2x1½" uPVC reducer	No.	
14.	3x2" uPVC reducer	No.	
15.	1½ " uPVC 90 deg. Elbow	No.	
16.	2 " uPVC 90 deg. Elbow	No.	
17.	3 " uPVC 90 deg. Elbow	No.	
18.	1½ " uPVC equal tee	No.	
19.	2 " uPVC equal tee	No.	
20.	3 " uPVC equal tee	No.	
21.	1" uPVC socket	No.	
22.	1½" uPVC socket	No.	
23.	2" uPVC socket	No.	
24.	3" uPVC socket	No.	
25.	1" Flush valve	No.	

26.	1½" Flush valve	No.	
27.	2" Flush valve	No.	
28.	3" Flush valve	No.	
29.	PVC cement/solution	Liter	
<b>IV.</b>	<b>Others</b>		
30.	1½" uPVC double union ball valve	No.	
31.	2" uPVC double union ball valve	No.	
32.	3" uPVC double union ball valve	No.	
33.	1" Handle Valve	No.	
34.	2" Handle Valve	No.	
35.	3" Handle Valve	No.	
36.	1" Pressure Release Valve	No.	
37.	Pressure Guage 1-10 Bar	No.	
38.	2" Flow Meter	No.	
39.	1" Air valve	No.	
<b>V.</b>	<b>Filtration System</b>		
40.	Disc Filter 15-25 m <sup>3</sup>	No.	
41.	Hydro Cyclon Filter 15-25 m <sup>3</sup>	No.	
<b>VI.</b>	<b>Fertigation System</b>		
42.	1" Ventury Injector	No.	
<b>VI</b>	<b>Other items required (if any)</b>		
<b>VIII.</b>	<b>Installation charges</b>	Per Acre	
<b>Total Unit Cost (Rs.)</b>			

I/We hereby undertake that we have read and well understood the terms of the conditions of the tender and agree to abide those.

Rs. \_\_\_\_\_ Amount in words (Rupees) \_\_\_\_\_

\_\_\_\_\_

Place :- \_\_\_\_\_ Date :- \_\_\_\_\_

Sign & Seal of the Tenderer

**SPRINKLER IRRIGATION SYSTEM**

<b>Sr. No.</b>	<b>Items Description</b>	<b>Unit</b>	<b>Unit Rate (Rs.)</b>
<b>I.</b>	<b>Sprinkler System</b>		
1.	Komet Raingun, R163 (Radius 50-100 feet)	No.	
2.	Raingun Trolley or Stand	No.	
3.	GI Hydrant complete incl. Brass gate valve 1", Light Grade L2 GI with fittings	No.	
4.	GI Hydrant complete incl. Brass gate valve 1.5", Light Grade L2 GI with fittings	No.	
5.	Rubber Pipe Ø 2",	No.	
<b>II.</b>	<b>Civil Work</b>		
6.	Trenching & Backfilling	Meter	
7.	Head Unit Foundation (3.5X1.5X0.48m)	No.	
8.	Sprinkler Hydrant Concreting (1x1x3ft)	No.	
9.	Sign Board (Urdu)	Lumpsum	
<b>III</b>	<b>Other items required (if any)</b>		
<b>IV</b>	<b>Installation charges</b>	Per acre	
<b>Total Unit Cost (Rs.)</b>			

I/We hereby undertake that we have read and well understood the terms of the conditions of the tender and agree to abide those.

Rs. \_\_\_\_\_ Amount in words (Rupees) \_\_\_\_\_

Place :- \_\_\_\_\_ Date :- \_\_\_\_\_

Sign & Seal of the Tenderer