

**Tender Fee: Rs. 500/-**

**GOVERNMENT OF PAKISTAN  
MINISTRY OF SCIENCE AND TECHNOLOGY  
PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES**

**Tender Document**

**Exploration of Groundwater Potential and promotion of  
Intervention for Rainwater Harvesting and Bio-Saline  
Agriculture in Thar**

**Pakistan Council of Research in Water Resources (PCRWR)  
PCRWR Regional Office, Karachi  
Phone No. 021-34028062**

## **PART - I**

### **TERMS AND CONDITIONS**

#### **1. GENERAL**

- i. The bids are required from the registered firms with earnest money equal to 2% of the total amount of bid(s) in the form of demand draft/pay order to be issued by a Pakistani scheduled Bank or branch of a Foreign Bank operating in Pakistan in favor of the Project Director. Tenders without earnest money would be rejected out-rightly. 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. The bidder must be a registered firm with FBR (as per Sale & Income Tax laws) and evidence of both should be attached with the tender documents.
- iii. Conditional/incomplete tenders or those having overwriting will not be accepted.
- iv. Quoted price must have validity for at least 90 days from the date of tender opening.
- v. Last date of submission of offers is 28<sup>th</sup> December, 2017 by 11:30 AM. The tenders would be opened at 13:30 PM on the same day in the office Regional Office PCRWR, Main University road, near KW&SB Reservoir, Behind Naseer Tower, Gulistan-e-Johar, Block-1, Karachi, who may care to attend.
- vi. The quoted prices must be inclusive of everything. The bidder should make sure that the bid is complete in all respects including consumables/non-consumables for complete execution of the task at the specified locations.
- vii. The commencement of work on site must be within 7 days after the receipt of work order. If the contractor does not commence work within the stipulated period, or leaves work un-accomplished, or willfully linger on the work due to lack of interest, the Project Director may cancel his work order after serving him two notices. His call deposit and cost of work done up to that time will be forfeited.

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

- i. The works would be carried out in Thar & Umerkot Districts.
- ii. Generally, the work would include but not limited to the following:  
Construction of New and Rehabilitation of Existing Rainwater Harvesting Pond scattered in thar, Execution of Retention Dam, Introduction of Solar energy in existing dug well etc

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

- i. The Contractor is required to quote his bid/charges for work execution at each site.
- ii. The bidder shall indicate, in his offer the unit prices inclusive of all taxes and total bid prices of the goods/services. 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. No bid received after the prescribed deadline date would be entertained and will be rejected without caring the reasons for delayed receipt in PCRWR Regional Office, Karachi due to negligence of the bidder or the postal/courier services etc.

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

The Project Director reserves the right to reduce/increase the quantum of work; 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) except PCRWR Regional Office, University road, near KW&SB Reservoir, Behind Naseer Tower, Gulistan-e-Johar, Block-1, Karachi

### **5. CONVERSING**

Unsolicited advice/clarification and any personal contact at any stage of evaluation of bids are strictly prohibited and may lead to disqualification.

### **6. PERFORMANCE GUARANTEE**

The performance period will be six months which will start from the date of completion of the task. The successful bidder(s) is/are required to furnish a performance guarantee, equivalent to 10% of the contract amount within ten days of issue 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.

### **7. COMPLETION PERIOD**

- i. The allotted work should be completed within specified period of two years after the receipt of work order. If work is not completed within the allocated time period then the contractor has to pay delay charges @ 1 percent of the total cost of the work after every 15 days.
- ii. The bidder will be responsible for complete execution of the work and for its free repair services for the period of two months.

## **8. MODE OF PAYMENT**

- a. 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 execute work 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 inspection report as per following:
- b. The payment i.e. 90% will be released on completion of the work and acceptance of inspection report. If running payment is demanded, it may be released not more than 75% of the executed work cost. Prevailing regular government taxes shall be applicable.
- c. 10% payment after completion of six months.

## **9. PRICES**

Prices charged by the bidder for goods delivered and services performed under the contract shall not exceed from the prices quoted by the supplier in its bid(s).

## **10. EVALUATION CRITERIA**

The bids would be evaluated based upon their technical soundness with the Terms and Conditions set forth in this document. The lowest quoted bid as a whole meeting technical requirements will be selected.

## **11. GUARANTEE/WARRANTY**

The warrantee period is one year, In case of failure, the same will be arranged from the security amount.

12. The procuring agency may cancel the tender as per PPRA rules. PPRA rules and other prevailing government rules shall be applicable.
13. 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.
14. The Project Director 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.
15. 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.

**PART –II**

**GENERAL INFORMATION ABOUT THE CONTRACTOR/FIRM**

- 1- Name of the Firm: \_\_\_\_\_
- 2- Main Line or Business: \_\_\_\_\_
- 3- Type of Organization: \_\_\_\_\_
- 4- Phone No(s) \_\_\_\_\_
- 5- Mailing Address: \_\_\_\_\_
- 6- Fax No. \_\_\_\_\_
- 7- E-mail \_\_\_\_\_
- 8- Contact Person: \_\_\_\_\_
- 9- Income tax and sales tax numbers-----

**SIGNATURE & SEAL OF CONTRACTOR/FIRM**

**PART –III**

**Schedule “B”**

**Exploration of Groundwater Potential and promotion of Intervention for Rainwater Harvesting and Bio-Saline Agriculture in Thar**

**RAINWATER HARVESTING POND (200 x 200 x 20) FEET WITH SIDE SLOPE (1:2)**

S. No.	Particulars	Quantity	Unit	Rate Amount Rs
1	Excavation of main pond, silt trap, water channel etc.	538347	Cft	Composite of all items / work are required. As Rs.-- ----per Rain harvesting pond
2	Cement concrete (1:4:8) laying and compaction on bed of silt trap and animal watering reservoir (A.W.R)	139	Cft	
3	Brick masonry works (1:4)	890	Cft	
4	Cement concrete (1:2:4) under stair bed, (slab), pillars, silt trap bed, animal watering reservoir and R.C.C pillars (90 Nos).	305	Cft	
5	Providing and fitting of reinforcement bars ½” dia in slab and pillars	875	Kg	
6	R.C.C Pipe. i) 12 inch dia ii) 6 inch dia.	24 12	Rft Rft	
7	Cement plaster (1: 4) ½” thick.	1894	Sft	
8	Providing and laying of polyethylene sheet on the main pond.	14400	Sft	
9	Providing and laying 1.5” thick plaster of slag mortar mixture of clay, quick lime, wheat straw and OPL cement with prescribed procedure.	28800	Sft	
10	Providing, laying and compacting clay layer of 3” (7.5 cm) thick on the bed of main pond over the spread polyethylene sheet, boundary wall and around the channel and silt trap.	12601	Cft	
11	Providing and fixing of steel main Gate	1	No	
12	Providing and fixing of water depth Measurement gauge.	1	No	
13	Providing and fixing of signboard	1	No	

## **SCHEDULE -B**

### **Case (b): Excavation and Construction of Pond (CC Bed) (200x200x15) feet with Side Slope (1:2)**

<b>S. No.</b>	<b>Particulars</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate Amount (Rs.)</b>
1	Excavation of main pond, silt trap, water channel etc.	452227	Cft	Composite rates are Required As Rs.----- Per excavation and pond construction
2	Cement concrete (1:4:8) laying and compaction on bed of silt trap and animal watering reservoir	139	Cft	
3	Brick masonry works (1:4)	890	Cft	
4	Cement concrete (1:2:4) i) Under stair bed, (slab), pillars, silt trap bed, animal watering reservoir and R.C.C pillars (90 Nos). ii) R.C.C Bed iii) 4 Sides upto 5 ft Total	305   4900 750 <b><u>5955</u></b>	Cft	
5	Providing and fitting of i) Reinforcement bars ½” dia in slab and pillars ii) Reinforcement bars ¼ in dia in Bed of Main Pond Total	875   1733 <b><u>2608</u></b>	Kg	
6	R.C.C Pipe. i) 12 inch dia ii) 6 inch dia.	24 12	Rft Rft	
7	Cement plaster (1: 4) ½” thick.	1894	Sft	
8	Providing and laying of polyethylene sheet on the main pond.	14400	Sft	
9	Providing, laying and compacting clay layer of 3” (7.5 cm) thick over the spread polyethylene sheet, R.C.C. Pillar boundary and around the channel and silt trap.	12601	Cft	
10	Providing and fixing of steel main gate (as per drawings)	1	No	
11	Providing and fixing of water depth measurement gauge.(20 ft long G I pipe 1.5 inch dia with colored marks on each foot)	1	No	
12	Providing and fixing of signboard (as per drawings with write up)	1	No	

## **SCHEDULE -B**

**Case © : Excavation and Construction of Pond (CC Bed +Brick soling Sides)  
(200x200x15) feet with Side Slope (1:2)**

<b>S. No.</b>	<b>Particulars</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate Amount (Rs.)</b>
1	Excavation of main pond, silt trap, water channel etc.	452227	Cft	Composite rates are Required As Rs.----- Per excavation and pond construction
2	Cement concrete (1:4:8) laying and compaction on bed of silt trap and animal watering reservoir (A.W.R)	139	Cft	
3	Brick masonry works (1:4)	890	Cft	
4	Brick soling (4 Sides)	28800	Sft	
5	Cement concrete (1:2:4) i) Under stair bed, (slab), pillars, silt trap bed, animal watering reservoir and R.C.C pillars (90 Nos). ii) R.C.C Bed <span style="float: right;">Total</span>	305  <u>4900</u> <b><u>5295</u></b>	Cft	
5	Providing and fitting of i) Reinforcement bars ½” dia in slab and pillars ii) Reinforcement bars ¼ in dia in Main Bed of Pond <span style="float: right;">Total</span>	875  <u>1511</u> <b><u>2386</u></b>	Kg	
6	R.C.C Pipe. i) 12 inch dia ii) 6 inch dia.	24 12	Rft Rft	
7	Cement plaster (1: 4) ½” thick.	1894	Sft	
8	Providing and laying of polyethylene sheet on the main pond.	14400	Sft	
9	Providing, laying and compacting clay layer of 3” (7.5 cm) thick on the bed of main pond over the spread polyethylene sheet, R.C.C. Pillar boundary and around the channel and silt trap.	12601	Cft	
10	Providing and fixing of steel main gate (as per drawings)	1	No	
11	Providing and fixing of water depth measurement gauge.(20 ft long G I pipe 1.5 inch dia with colored marks on each foot)	1	No	
12	Providing and fixing of signboard (as per drawings with write up)	1	No	



## **SCHEDULE -B**

**Case (d) : Excavation and Construction of Pond (Brick soling Bed +Sides)  
(200x200x15) feet with Side Slope (1:2)**

<b>S. No.</b>	<b>Particulars</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate Amount (Rs.)</b>
1	Excavation of main pond, silt trap, water channel etc.	452227	Cft	Composite rates are Required As Rs.----- Per excavation and pond construction
2	Cement concrete (1:4:8) laying and compaction on bed of silt trap and animal watering reservoir (A.W.R)	139	Cft	
3	Brick masonry works (1:4)	890	Cft	
4	Brick Soling (Bed +4 Sides)	48400	Sft	
5	Cement concrete (1:2:4) under stair bed, (slab), pillars, silt trap bed, animal watering reservoir and R.C.C pillars (90 Nos).	305	Cft	
6	Providing and fitting of reinforcement bars ½” dia in slab and pillars	875	Kg	
7	R.C.C Pipe. i) 12 inch dia ii) 6 inch dia.	24 12	Rft Rft	
8	Cement plaster (1: 4) ½” thick.	1894	Sft	
9	Providing and laying of polyethylene sheet on the main pond.	14400	Sft	
10	Providing, laying and compacting clay layer of 3” (7.5 cm) thick on the bed of main pond over the spread polyethylene sheet, R.C.C. Pillar boundary and around the channel and silt trap.	12601	Cft	
11	Providing and fixing of steel main gate (as per drawings)	1	No	
12	Providing and fixing of water depth measurement gauge.(20 ft long G I pipe 1.5 inch dia with colored marks on each foot)	1	No	
13	Providing and fixing of signboard (as per drawings with write up)	1	No	

### RETENTION DAM /CHECK STRUCTURES

Sr. No	Description	Qty	Unit	Rate Amount (Rs in Million)
1	Preparation of site (Jungle Clearance/ De-vegetation)	12510	Sft.	Composite rates are Required As Rs.-----Per Retention Dam / check structure
2	Excavation/Desilting	41050	Cft.	
3	Polyethylene Sheet (0.005 inch thick)	3800	Sft.	
4	Filling with Stone Ballast	10050	Cft.	
5	Stone Pitching (1:3)	9090	Cft.	
6	R.C.C Wall (1:2:4) (50' x 7' x 2')	700	Cft.	
7	Reinforcement in wall	6000	Kgs.	
8	Installation of observation wells (1-1 ½" ) pvc pipe complete set depth upto 50ft	4	Nos	
9	Providing and fixing of signboard	1	No	

### FARM/FIELD /OFFICE EQUIPMENTS

S.#	Item	Quantity Nos.	Unit Cost	Total (Rs in Million)
1	Soil augers and sampling material	3		
2	Portable EC meter (branded)	1		
3	Portable pH meter (branded)	1		
5	Computer i7 series with printer other accessories (branded new)	1 set		
	R & M of two vehicles (pajro and Single Cab pickup Toyota)	2 Nos		

# RAIN WATER HARVESTING POND (200'X200'X20')

