

BIDDING DOCUMENT

(Construction/Installation of 12 RO Plant in District QSK and Dadu Sindh-Pakistan)

PROJECT CODE: (PK-23-410-01 Tender)

Please submit Bids for Each Activity by filling the section no. II/ Attached Specification

Bid # 1: Construction/Installation 12 RO Plants (5 in district Dadu and 7 in District QSK Sindh Pakistan).

Name of Firm: _____

NTN: _____

Bank Account Details: _____

Contact#: _____

Email Address: _____

Prepared by:



Human Appeal -Pakistan

Farm House 4-4, Street 11, Chak Shahzad Farms, Islamabad, Pakistan

January 05, 2024

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Section I. Instructions to Bidders

A. General

1. Scope of Bid

1. HA-PAK invites bids for the Construction/Installation of 12 RO Plants:
 - a. **(5 RO's in Dadu within the UC's of:** 1-Town Committee, 2-Pir Mushaikh, 3-Gozo, 4-Chinni, 5-Kamal Khan)
 - b. **(7 RO's in QSK within the UC's of:** 1-Twon Committee Qty=1, 2-Monder Lakha Qty=1, 3-Kalar Qty=2 (village: Gull Buriro and Khumeso Kalhoro), 4-Mian Dad Chingni Qty=1, 5-Chakiani Qty=1, 6-Mirpur Qty=1)
2. The successful Bidder is expected to complete the services by the Intended Completion date is given in section II, with effective from the signing of the Contract.

2. Eligible Bidders

1. This Invitation for Bids is open to all NTN-holder Bidders from all over Pakistan
2. Bidders shall not be under a declaration of ineligibility for corrupt, fraudulent, and coercive practices issued by HA-PAK.
3. Bidders shall not be involved in terrorist acts/criminal activities or associated with individuals and/or entities associated with terrorist acts/criminal activities.

3. Corrupt, Fraudulent, Collusive, and Coercive Practices

1. HA-PAK requires that all; HA-PAK Staff, Bidders, Contractor, suppliers or distributors, observe the highest standard of ethics during the procurement and execution of all contracts. HA-PAK shall reject any Bids put forward by Bidders or where applicable terminate their contract, if it is determined that they have engaged in corrupt, fraudulent, criminal activities collusive or coercive practices.

4. Eligible material/Goods

1. All goods /materials/ Services to be supplied under the contract shall have their origin in an eligible source (The "origin" means the place where the goods are produced, or the related services are supplied. e.g. Not smuggling goods), and all expenditures made under the contract will be limited to such Supply/construction.

B. The Bidding Documents

1. Content of Bidding Documents

The material/goods/services required, bidding procedures, and contract terms are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents include:

- a) Instructions to Bidders (ITB)
- b) Contract for Supply/Services
- c) Schedule of Requirements
- d) Technical Specifications
- e) Selection criteria form

The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required in the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its bid.

2. Clarification of Bidding Documents

A prospective Bidder requiring any clarification of the bidding documents may notify through e-mail and given in the tender notice, indicated in the published Tender Notice. While no telephonic inquiries will be entertained.

3. Amendment of Bidding Documents

1. At any time prior to the deadline for submission of bids, HA-PAK, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the bidding documents by amendment.
2. All prospective bidders who have received the bidding documents will be notified of the amendment in writing and will be binding on them.
3. In order to allow prospective bidders reasonable time to take the amendment into account in preparing their bids, HA-PAK, at its discretion, may extend the deadline for the submission of bids (if required).

C. Preparation of Bids

1. Cost of Bidding

The bidder shall bear all costs associated with the preparation and submission of its bid, and HA-PAK will not be responsible or liable for those costs.

2. Language of Bid

The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and HA-PAK shall be written in the English language.

Supporting documents and printed literature furnished by the Bidder may be in another language provided.

3. Bid Proposal

The Bidder shall propose the Bid with complete detail and the appropriate Price Schedule, indicating the services and goods to be supplied or provided, a brief description of the goods/material, and their country of origin, quantity, quality, and prices.

4. Bid Prices

1. The Bidder shall indicate on the appropriate Price Schedule the unit prices and total bid price of the goods/services it proposes to supply under the contract.
2. Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account unless otherwise specified. A bid submitted with an adjustable price quotation will be treated as non-responsive and will be rejected.

5. Bid Currency

Prices shall be quoted in the following currency: For services and goods/materials that the Bidder will provide/supply to HA-PAK, the prices shall be quoted in Pakistan Rupees (PKR currency).

6. Period of Validity of Bids

1. Bids shall remain valid for the period of 2 months after the date of bid opening prescribed by HA-PAK. A bid valid for a shorter period shall be rejected by HA-PAK as non-responsive.

2. In exceptional circumstances, prior to the expiry of the bid validity, HA-PAK may request that the bidders extend the period of validity for a specified additional period of not more than 30 days. The request and the bidders' responses shall be made in writing.

D. Submission of Bids

1. Sealing and Marking of Bids

The Bidder shall stamp and sign the filled document/tender and send a scanned or PDF copy of the bid, brief profile of relevant projects done/experience/registration certificates/ references, and other documents (*project name, project amount, Organization, date of completion and contact details*) in **a Zep Folder with mentioned firm Name and project Name**, via this specified e-mail at PK2341001.tender@humanappeal.org.uk

Duly marking the subject line **Project Code: (PK-23-410-01 Tender)** and **Project Location**, applied for. Final bidders will be also requested to submit their security deposit of 5% of the whole bid/proposal by courier/post or submit by hand at the country office of HA.

2. Deadline for Submission of Bids

a) Bids must be received by HA-PAK via the email box specified under instructions to bid (ITB), no later than (date and time) 21th January 2024, 5:00 PM.

b) HA-PAK may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB, in which case all rights and obligations of HA-PAK and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

3. Late Bids

Any bid received by HA-PAK after the deadline for submission of bids prescribed by HA-PAK will be rejected and will not be forwarded for the bid opening processes. The Bidder will assume the responsibility of un-possession of the bid documents.

E. Opening and Evaluation of Bids

1. Opening of Bids

The bidders, bids will be opened on 23rd January 2024 at 2:30 PM. No bid shall be rejected at bid opening, except for late bids.

Bids that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders in case of sealed bids.

2. Clarification of Bids and Contacting Bidders

During the evaluation of the bids, HA-PAK may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing or physical meeting and no change in the prices or substance of the bid shall be sought, offered, or permitted.

3. Preliminary Examination

HA-PAK will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required guarantees have been furnished/referenced, whether the documents have been properly signed, and whether the bids are generally in order.

4. Evaluation and Comparison of Bids

HA-PAK will evaluate and compare the bids, which have been determined to be substantially responsive.

HA-PAK's evaluation of a bid will exclude and not take into account:

- a) In the case of goods/material/services, sales and other similar taxes will be the responsibility of the vendor, which will be payable on the goods/services if a contract is awarded to the Bidder;
- b) In the case of goods/materials of foreign origin offered from abroad, customs duties and other similar import taxes which will be payable on the goods if the contract is awarded to the Bidder; and

HA-PAK's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with one or more of the following factors:

- a) Delivery **schedule/completion period offered in the bid;**
- b) Deviations in payment schedule from that specified in the Conditions of Contract;
- c) Other specific criteria indicated and/or in the Technical Specifications, **(Refer to selection criteria under the section I below)**

5. Clarification of Bids and Contacting HA-PAK

- a) No Bidder shall contact HA-PAK on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of HA-PAK, it should do so in writing through the given e-mail.
- b) Any effort by a Bidder to influence HA-PAK in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.

6. Post-Qualification

- a) In the absence of pre-qualification, HA-PAK will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB.
- b) The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as HA-PAK deems necessary and appropriate.
- c) Prior to award, HA-PAK shall verify and validate any documents/information submitted and if necessary shall conduct an ocular inspection of the Bidder office, plant/warehouse, and equipment.
- d) An affirmative determination will be a pre-requisite for the award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event HA-PAK will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

7. Purchaser's Right to Accept any Bid and to Reject any or All Bids

HA-PAK reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or any obligation to inform the affected Bidder or bidders of the grounds for HA-PAK's action.

F. Award of Contract

1. Award Criteria

HA-PAK will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

2. Purchaser's Right to Vary Quantities at Time of Award

HA-PAK reserves the right at the time of contract award to increase or decrease, by the percentage indicated [+/- 50%], the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

3. Notification of Award

- a) Prior to the expiration of the period of bid validity, HA-PAK will notify the successful Bidder in writing, that its bid has been accepted
- b) The notification of award will constitute the formation of the Contract.

4. Signing of Contract

At the same time as HA-PAK notifies the successful Bidder that its bid has been accepted/selected, HA-PAK and successful Bidder will sign agreements.

G. Other Associated Conditions

- 1) All material/items/services must be 100% according to the specifications, quantity and quality as required
- 2) Bids should be included Carriage and Transportation/Delivery charges
- 3) Payment will be made after completion of services/delivery on the provision of bills and GRN/work completion report.
- 4) Payment will be through a cross cheque.
- 5) All applicable taxes are applied and will be deducted
- 6) Previous experience letter/pos for work (At least four)
- 7) Kindly enclose evidence of your experience with other organizations, NGOs or INGOs
- 8) The bidders will be responsible for submitting a **Bank Guarantee/Call deposit equivalent to Rs. 5%** of the total bid price in the name of the **"Human Appeal"** and attached PDF copy of the call deposit along with your bid/quotation.

H. Penalty on Delay in Project Completion

Sl No	Total Delay	% To be deducted from the contract value
1.	First 10 days	1.00%
2.	From 11 to 20 days	2.00%
3.	From 21 to 30 days	3.00 %
4.	Above 30 days:	Up to 10% As per discretion of the Procurement committee of HA

I. Modern Slavery

The Supplier shall comply with all applicable anti-slavery and human trafficking laws, statutes, regulations from time to time in force including but not limited to the Modern Slavery..., and have and maintain throughout the term of this Agreement its own policies and procedures to ensure its compliance.

- i. **Selection Criteria of Bids/proposal** Up to 10% As per discretion of Procurement committee of HA
INSTRUCTIONS – Bidders are required to complete all sections of the below table and mention the attached documents as an annexure 1,2,3.....so on in the comments and attachments column

SELECTION CRITERIA			
Items	Question/indicators	Bidder's Response	
		Yes/No	Comments /and Attachments of Proofs
A	ESSENTIAL CRITERIA (General)		
1	Bidder accepts Human Appeal's Terms and Conditions and complies with all RFP/RFQ mandatory requirements /information on the same tender format.		
2	The bidder confirms they are not a prohibited party under applicable sanctions laws or anti-terrorism laws. (Local and international)		
3	Suppliers/Vendors are not any prohibited parties or on Government debar/ Blacklisting by any organization.		
4	Have a valid NTN certificate/ GST certificate		
5	Valid PEC Certificate		
6	Utility bill offices as physical evidence		
	CAPABILITY & SUSTAINABILITY QUESTIONS		
B	Company Experience and References (Point 12) (4 for Each)		
1	Experience of a company on similar projects (Minimum 4) 04 projects experiences = 4 03 projects experiences = 3 02 projects experiences = 2 01 projects experiences = 1		
2	working experiences in relevant Area or Regional Experience (previous) if yes= 4 If Nearby = 3 If No =1		
3	Quality of Reference Check If up to mark 4 If Moderate 2 If a Negative Response 0		
C	Financial Health of Company (Points 16)		
1	Project Implemented Worth of Similar projects (Highest valued work orders) if average of 4 project values is above the total of HA Budget = 10 80 % of total budget=8 50 % of total =5 Below the 50% of Budget = 2		
2	Latest Bank Maintenance Certificate if yes= 3 If No =0		
3	The latest Financial Audit report of Frim if yes= 3 If No =0		

D	Quality of Bid/Proposal and Lead time. (Points 06)		
1	Proposed completion time for this projects (3-7 Months) if 3 Months or below = 6 if within 5 Months = 3 if within 7 Months = 2 if the above 7 months = 0		
E	Environmental, Social, Health, and Safety Impact (Points 06)		
1	The bidder demonstrates activities OR has processes in place within their organization. (e.g., paperless offices, green technology in offices, policies, training programs, community outreach programs, etc.) If Yes = 3 If No = 0		
2	Availability of in-house personnel dedicated person to ESHS issues(Please attached Profile of Personnel) If Yes =03 If No = 0		
F	Financial proposal/Bid offered (Points 60)		
1	Overall project costs Lowest bidder =40 2nd Lowest Bidder =35 3rd Lowest Bidder=30 4th Lowest bidder=20 5 lowest Bidder = 10 above then 5th =05		
2	The Supplier provides bid security /Pay order / a bank guarantee relevant to the project If Yes =10 If No =05		
3	The Supplier asks to be paid advance payment in case selected for the project: If 0% advance=10 If 10% advance=07 If 20% advance=04 If 30% advance=01		
Note: Please attach all Scanned or PDF documents along with the bid/ offer/quotation in one zip folder with your organization and project names and send via the given email			Total Points=100

Section II. Schedule of Requirements

BILL OF QUANTITIES (For RO Plant House Construction)												
S. #	Work Type	Description	Specification	Unit	No s.	Measurements (Feet)			Quantity(Units)		Rate	Amount (PKR)
						L	B/W	H/D				
A		RO Plant House										
A-1	Civil Work	Earth Filling with compaction of soil including all Labor & carriage	N/A	cft	1	20.00	20.00	5.00	2,000.00	2,000.00		-
A-2		Excavation for foundation, all kind of soil including rock and removing all vegetation along with their roots and back filling selected excavated material in foundation.	N/A	cft	1	76.50	2.00	2.50	382.50	382.50		-
A-3		Providing & laying of P.C.C (1:3:6 (1 cement 3 sand and 6 crush) cement concrete using graded crush 0.5 inch and down gauge in foundation including levelling, compacting and curing, etc (including material+Labor+carriage etc.)	Cement (DG,Lucky, or ISO certified 9001:2008 & ISO 14001:2004)crush from local made and sand from local but free of clay	cft	1	76.50	2.00	0.50	76.50	76.50		-
A-4		Providing & laying of local first class solid burnt brick masonry set in cement mortar 1:5 in straight or curved 18",13.5", 9" inches and less in thickness including scaffolding, raking, out joints and curing, etc(including material+Labor+carriage)	first class brick(9"x4.5"x3")Cement (DG. Lucky or ISO certified 9001:2008 & ISO 14001:2004) sand local but free of clay	cft	1	75.50	1.50	1.00	113.25	722.75		
A-5				cft	1	74.50	1.25	1.50	139.69			
				cft	1	55.25	0.75	10.50	435.09			
				cft	5	12.50	1.13	0.50	35.16			
A-6				cft	2	10.00	0.75	2.50	37.50			
			Deduction of doors and windows		cft	1	4.50	0.75	6.50	37.94	N/A	N/A
					cft	1	4.00	0.75	4.00			

			cft	4	1.00	1.00	1.00	4.00			
A-7	RCC work including all labour and materials except the cost of steel reinforcement and its labour for bending and binding, which will be paid separately. This rate also includes all kinds of forms, moulds, lifting, shuttering, curing, rendering and finishing the exposed surface including screening and washing of shingle. RCC work in roof, slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position in all respects ratio 1:2:4	Cement (DG or ISO certified 9001:2008 & ISO 14001:2004)crush from sargodha and sand from chiniot	cft	2	76.50	0.75	0.75	86.06	141.75		-
A-8	CC work for top roof 1:2:4(including material+Labor+carriage)			1	16.50	13.50	0.25	55.69	55.69		-
A-9	Providing & installation of iron guarder 2500 gram pr fit with two coat paint and all respect.	Mughal or ittehad, or equal steel	rft.	1	13.50	-	-	-	13.50		-
A-10	Providing & installation of iron T-R 800 gram pr fit with two coat paint and all respect.		rft.	10	16.50	-	-	-	165.00		-
A-11	Providing & laying of first class brunt bricks tile size 12"*6"*1" for Roofing(including material+Labor+carriage)	Local	sft.	1	222.75	-	-	-	222.75		-
A-12	Door (Double leaf) Size 3.5'*6' (20SWG sheet, with 2.5" and 16 SWG Chokhet)	3.5'x7' iron door with fixing 16SWG chokhat iron and using of 20SWG iron sheet and 2 coat final painting	sft.	1	4.50	-	-	6.50	29.25		-
A-13	Steel Window(4'x4')(including material+Labor+carriage)	Window Size 4'x4' 22 SWG leaf sheet with 2" angle pati, 16 SWG chokhat	sft.	1	4.00	-	-	4.00	16.00		-
A-14	Ventilator(1'x1')(including material+Labor+carriage)	First class tile made by cement and sand local Market	job	4	-	-	-	-	4.00		-

A-15	Interior Plaster (1:4, 0.75" thick)(including material+Labor+carriage)	Cement (DG or ISO certified 9001:2008 & ISO 14001:2004) sand from chiniot	sft.	4	12.00	-	10.00	480.00	1,248.00		-
A-16	Exterior Plaster (1:4, 0.75" thick)(including material+Labor+carriage)		sft.	4	16.00	-	12.00	768.00			
A-17	Stone Soiling(including material+Labor+carriage)	Soling for flooring using round stone or brick bats as easily available for proper compaction	cft	1	16.00	14.00	0.50	112.00	112.00		-
A-18	Flooring PCC (1:2:4)(including material+Labor+carriage)	Cement (DG or ISO certified 9001:2008 & ISO 14001:2004)crush from sargodha and sand from chiniot	cft	1	17.00	15.00	0.25	63.75	63.75		-
A-19	Fabrication of mild steel reinforcement (40+20 Grade) including curing position making joints and fastening including cost of binding wire also includes removal of rust from bars.	Mughal or ittefaq steel	kg.	8	100.00	-	-	800.00	244.00		-
A-20	two coat Interior paint work(including material+Labor+carriage)	Berger plastic emulsion	sft.	4	12.00	-	10.00	480.00	1,248.00		-
A-21	two coat exterior paint work(including material+Labor+carriage)	Berger weather shield	sft.	4	16.00	-	12.00	768.00			
A-22	Flooring & front wall Tile work(including material+Labor+carriage)	Master tile	sft.	2	13.50	-	6.00	162.00	162.00		-
A-23	Electrification Complete work with all Respects	Wiring for main with 7/29 & 7/36 wire PVC insulated in 20 MM PVC Conduct with all respect breaker, main board, light plug, power plug, energy savers etc.	job	20	-	-	-	-	20.00		-

A-24	Front iron grill (including material+Labor+carriage)	Steel with 1 cm bars	sft.	1	19.00	-	6.00	114.00	114.00	-
A-25	S/F Long Bib cock of crystal head with C.P Head 1/2" dia.	Master	No.	6	-	-	-	6.00	6.00	-
A-26	S/F Frame base area for RO Plant Equipment in consultation with RO Plant vendor	18 Gauge angled iron steel framework	No.	1	5.00	3.00	4.00	1.00	1.00	-

Total Unit Cost of RO House Construction

Note: The cost must include all labour, transportation, carriage, fitting & installations. The Specifications of any single input may vary depending upon the site. Hence the proposed cost must also consider +/- 10% variations in given measurements (L/W/H/D) and payment will be made on actual basis

BILL OF QUANTITIES Water Well

S. #	Work Type	Description	Specification	Unit	Nos.	Measurements (Feet)			Quantity(Units)	Rate	Amount (PKR)
						L	B/W	H/D			
"B"		Deep Water Well									
B-1	Well Work	Digging of well 6" dia	Dadu and QSK soil formation	rft.	1	120.00	-	1.00	120.00	120.00	-
B-2		PVC Casing pipe C class 5" dia	Adam Jee or equivalent	rft.	1	120.00	-	1.00	120.00	120.00	-
B-3		Outlet delivery (HDPE) pipe 1.25" dia	Adam Jee or equivalent	rft.	1	150.00	-	1.00	150.00	150.00	-
B-4		Water pump(submersible pump 3hp) with control box	Submersible pump JD or equivalent 3 phase	No.	1	1.00	-	-	1.00	1.00	-
B-5		Electric Cable	3 core 3 phase submersible coper wire 6mm with groundings, 150 Feet lenth	No.	1	150.00	-	-	150.00	150.00	-
Total Unit cost of Water Well											

Note: The cost must include all labour, transportation, carriage, fitting & installations. The Specifications of any single input may vary depending upon the site. Hence the proposed cost must also consider +/- 10% variations in given measurements (L/W/H/D) and payment will be made on actual basis

BILL OF QUANTITIES Solar Work

S. #	Work Type	Description	Specification	Unit	Nos.	Measurements (Feet)			Quantity(Units)	Rate	Amount (PKR)
						L	B/W	H/D			
"D"											
Solar Work of Water Well and RO Plant											
D-1	Solar Work	Providing & fixing of Solar PV Module - Polycrystalline - 550 Watts each (Preferably Italian/German, China or equivalent with 18+% efficiency & min 15 years warranty. Job includes complete installation with all respect). Note: The required watts & number of modules may vary as per needs.	The PV Panel must have clear anodized aluminum frame with Anti-reflective, hydrophobic, low-iron Tempered cover glass. The Solar Modules shall meet the following valid IEC Standards or latest: IEC 61215-1, IEC 61215-1-1, IEC 61215-2 ;2016 (Design Qualification) IEC 61730-1:2016 (Safety - Requirements for construction)	watts	6600	-	-	-	6,600.00	6,600.00	-
D-2		Providing and fixing of VFD three phase with DB box with Required items i-e A-C & D-C Breaker & converter from motor to RO and all complete etc. VFD= 7-11 KW for 3 to 5 HP 3 phase Pump & 1000 LPH RO	Providing and fixing of 7KW-11 KW VFD 3 phase with DB box Required Input volt, min. 640V max 780V & output min. 320V max. 380V. the inverter must be ISO 9001, ISO 14001 and CE Certified.. Job includes Complete fixing and instalation for both RO and water well in all respect).	job	1	-	-	-	1.00	1.00	0
D-3		Providing and fixing of 2 KW inverter single phase with DB box and required batteries and Brakers etc with all complete accessories etc. (for 1 phase running items)	Providing and fixing of 2 KW inverter 1 phase with DB box Required Job complete fixing and instalation for both RO items and water well in all respect).	job	1	-	-	-	-	-	-
D-4		Providing and fixing of Manual Tracker Solar structure with Blue color 5 feet height & 2x2x4 feet in foundation Frame & 1 feet upto ground level with 1:2:4 concrete filling rust protected strong enough to withstand high speed wind with all accessaries. Must have a minimum uselife of 20+ years. (Total No. of polls are 2 or as per Required)	2'X2'x4' foundation depth & 1' up to ground level with concrete filling (1:2:4). Heavy SWG G.I Pipe pole 4" dia and 5' height. As per required angle strong SWG for fixing of solar panel with all accessories.	job	1	-	-	-	1.00	1.00	0
Total Unit Cost of Solar Work											-

Note: The cost must include all labour, transportation, carriage, fitting & installations. The Specifications of any single input may vary depending upon the site. Hence the proposed cost must also consider +/- 10% variations in given measurements (L/W/H/D) and payment will be made on actual basis

BILL OF QUANTITIES RO Plant										
S. #	Work Type	Description	Specification	Unit	Nos.	Measurements (Feet)			Quantity (Units)	
						L	B/W	H/D		
"C"		REVERSE OSMOSIS Plant	Specification /Size							
C-1	Complete Installation of REVERSE OSMOSIS Plant of 1000 LPH	RAW WATER PUMP (Too feed the dual media filter pressure more than 2.0 bars which is min. operating pressure for filter.) (a) MOC:CI (b) TYPE: Horizontal Centrifugal (c) Flow Rate: 4000 liters per hour (d) Head: 35 M. (e) Power Required: 0.75 KW (1 HP) (f) Electrical: 220 V (g) Make: CRI / Krilosker	3 hp	No.	1	1	-	-	1	1
C-2		DUAL MEDIA FILTER (To Remove the total suspended solids, dirt iron and reduce silt density index, which can foul the membranes) Vessel: (a) Make: Pentair. (b) Material of construction: FRP (c) Diameter:13 inch (d) Hight:54 inch (e) Testing pressure:6kg/cm2 (f) Opening: Top only Valve: (a) Make: UKL (b) Material of construction: High Strength PP (c) Type: Multiport (d) Size: 1 inch (e) Maximum flow Rate: 6,000 LPH (f) Working Pressure: 2-4 bar Media: Mixed bed sand media consisting of the following:- Pebbles, Quartz sand, Anthracite average porosity 50 micron particulate size.	16*65	No.	1	1	-	-	1	1

C-3	<p>ACTIVATED CARBON FILTER (To remove the total color, small, odor, from the water) Vessel: (a) Make: Pantair (b) Material of Construction :FRP (c) Diameter :13 Inch (d) Height: 54 inch (e) Testing pressure: 6kg/cm2 (f) Opening: Top Only Valve: (a) Make: UKL (b) Material of construction: High strength PP (c) Type: Multiport (d) Size: 1 inch (e) Maximum flow Rate: (f) Working pressure:2-4 bar Media Mixed bed sand media consisting of the following gravel, Pebbles, and activated carbon of 800 iodine value Pipelines & Accessories: Pipe of PVC 10 Bar Tested pressure, Testing cock & Pressure gauges at inlet-outlet of system.</p>	16*65	No.	1	1	-	-	1	1
C-4	<p>DOSING SYSTEM (To dose antiscalant chemical to protect the scaling formation on RO Membranes) (a) MOC:PP (b) Capacity: 5 LPH (c) Pressure : 7 Bar (d) Make : E-DOSE</p>	1"	No.	2	2	-	-	2	2
C-5	HOUSING+CARTRIDGE PPF (J-20"-5)	J-20"-5	No.	1	1	-	-	1	1
C-6	HOUSING+CARTRIDGE PPY (J-20"-1)	J-20"-1	No.	1	1	-	-	1	1
C-7	REVERSE OSMOSIS FRAME SS	SS	No.	1	1	-	-	1	1
C-8	HIGH PRESSURE PUMP AND MOTOR (CRN-4-12) 3-4 HP	CRN-4-12	No.	1	1	-	-	1	1
C-9	REVERSE OSMOSIS ASME APPROVED HOUSINGS (8*40 [S1])	8*40 [S1]	No.	1	1	-	-	1	1
C-10	<p>REVERSE OSMOSIS MEMBRANE (To Remove the major part of TDS up to 98% by Reverse Osmosis Membrane arranged and designed to give adequate flow and recovery) (a) Type: Spiral Wounded (b) Diameter of membrane: 4.0 Inch (c) Length of membrane: 1 mt. (d) Make: Dow, CSM, Vontron (e) System Recovery: 50%</p>	Flimtec USA 8*40	No.	1	1	-	-	1	1

C-11	<p>MICRON FILTER (To remove the fine particles up to 5 micron and reduce silt density index levels to acceptable level.) Cartridge filter & Housing Housing: (a) Make: Filtrate /Eqv (b) MOC of housing: ABS (c) Length: 20" (d) Diamete:4" Cartridge : (a) Make: Filtration (b) Cartridge MOC: Polypropylene (c) Length: 20"(d) Diameter: 4" (e) Micron rating: 05 Micron</p>	S.S	No.	1	1	-	-	1	1
C-12	<p>REVERSE OSMOSIS PRESSURE TUBE (To pack Reverse Osmosis Membrane and operate at high pressure up to 400 psi.) (a) MOC: FRP Composite (b) Diameter of Pressure Tube:4 inch (c) Length of Pressure Tube: 2.2.m (d) No. of Membrane per Tube: 2 (e) Make: UKL/Eqv (f) Positive: Horizontal, Series (g) Arrays: 1 No</p>	2.5"	No.	1	1	-	-	1	1
C-13	ONLINE FLOWMETER	10 GPM	No.	1	1	-	-	1	1
C-14	ONLINE TDS METER	China	No.	1	1	-	-	1	1
C-15	ONLINE DOSING PUMP	Etatron	No.	1	2	-	-	2	2
C-16	ONLINE FLUSHING SYSTEM	SOV ¾"	No.	1	1	-	-	1	1
C-17	CONTROL PANEL	Local	No.	1	1	-	-	1	1
C-18	ULTRA VIOLET LAMPS + PANEL	33" Philips	No.	1	1	-	-	1	1
C-19	Complete FITTING UPVC with outline Bibcock	Era	No.	1	1	-	-	1	1

C-20	MANUAL FILLING WASHING STATION	Stainless Steel	No.	1	1	-	-	1	1
C-21	CHEMICAL TANKY 80 Ltr.	PVC	No.	1	2	-	-	2	2
C-22	SAND MEDIA	LOCAL	No.	1	1	-	-	1	1
C-23	CARBON	CHINA/Holand	No.	1	1	-	-	1	1
C-24	JUMBO HOUSING	TAIWAN	No.	1	1	-	-	1	1
C-25	500 GALLON STORAGE TANK	Double-Ply & food grade PE	No.	2	2	-	-	2	2
C-26	Ultra filtration Membarane	4" x40" Multyply	No.	1	1	-	-	1	1
Total unit cost of RO Plant (Rate Lumpsum)									
<p>Note: The cost must include all labour, transportation, carriage, fitting & installations. The Specifications of any single input may vary depending upon the site. Hence the proposed cost must also consider +/- 10% variations in given measurements and payment will be made on actual basis</p>									

Note: After issued PO, if any change needs in design, must be taken written approval form HA-Pak

Abstract of Costs RO Plant Project Dadu Sindh 2024

Sr. No	Component	Quantity	Unit Cost	Total Cost
1	RO Plant House Construction	5		
2	Deep Water Well Installation	5		
3	Solar Work of Water Well and RO Plant	5		
4	REVERSE OSMOSIS Plant (RO Plant)	5		
Total Cost of Project District Dadu (A)				

Abstract of Costs RO Plant Project QSK Sindh 2024

Sr. No	Component	Quantity	Unit Cost	Total Cost
1	RO Plant House Construction	7		
2	Deep Water Well Installation	7		
3	Solar Work of Water Well and RO Plant	7		
4	REVERSE OSMOSIS Plant (RO Plant)	7		
Total Cost of Project District Dadu (B)				
Grand Total Project (Dadu and QSK) (A+B)				

Note: Offered Completion period for Project

Proposed Completion Time	3 Month	5 Month	7 Month
If other than above please specify here...			

Note: Asking for advance payment in case of selection (lease tick one only)

0% Advance payment	10% Advance payment	20% Advance payment	30% Advance payment

Section III needs to be filled with complete information

Section III. Questionnaire/Contact Form

1. Bidders Questionnaire/Contact Form

While the bid documents can be downloaded from the website www.humanappeal.org.pk (<https://humanappeal.org.pk/work/tender.php>) and <https://www.iapg.org.uk/tenders/> bidder has to submit back the evidence/proof documents along with filled tender document/bids with completed information and documents in Scanned/PDF format in **a one zip folder with the name of your organization and Tender cord (PK-23-410-01 Tender) and submit bids via e-mail : PK2341001.tender@humanappeal.org.uk**

HA-PAK

Bidders Questionnaire/Contact Form

1) Organizational Information

Organization Name		
Legal Status of Organization	1- Public Limited	<input type="checkbox"/>
	2-Private Limited Company	<input type="checkbox"/>
	3-Partnership	<input type="checkbox"/>
	4-Sole Trader	<input type="checkbox"/>
	5-Other(Please specify)_____	
NTN Number		
Postal Address		

2) Contact Information:

	Main Contact (Executive head)	Focal Person
Name		
Designation		
Telephone (with city code)		
Mobile Phone		

Please share the Latest and relevant work experience details				
	Project-1	Project-2	Project-3	Project-4
Name of Organization				
Contact name and phone , number, Email				
Description of items/services delivered				
Project implementation Area/Location:				
Quantity				
Date contract awarded				
Date contract Completed				
Value of Contract in PKR Please share your Maximum value P.O details				
Bidders are requested to attach PO's/ or agreements of the above details as evidence (Documents shared via Google Drive are not acceptable/accessible)				

UNDERTAKING BY BIDDER:

I hereby undertake that the above information is correct and if found incorrect, the firm shall be liable for disqualification/ legal action. I acknowledge the terms and conditions along with right of Human Appeal Pakistan to accept/reject the application without assigning any reason, which shall not be challenged in any court of law.

Name	Date	Stamp	Signature
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Bid Document Issued By: (for HA-PAK Staff)

OPERATION DEPARTMENT
HUMAN APPEAL PAKISTAN
+92 51 8899199 / 8446750