

Financial Offer

Requisition # 4310972

Brackish Water RO Plant (20 m³/day) in Hadal Public Health Unit - Port Sudan

Supplier Name: _____

Address: _____

Contact #: _____

Email: _____

Date: _____

BoQ

All specifications and attached with this tender

Fill out the table below:

Item No.	Description with Notes	Unit	Qty	Unit Rate	Total
1	Civil Works				
1.1	Site clearance, levelling, and compaction (remove vegetation, debris, and level to ± 10 mm).	m2	35		
1.2	Reinforced concrete foundations (400*400*500 mm) , C25/30 concrete, with T12@10 both way one layer steel bar), for RO unit Container room.	m3	0.5		
1.3	RO plant room (6 × 2.4 x 2.4 m) Container with adequate ventilation fans, waterproof coating, and service trench, painted with WV visibility outside	lump sum	1		
1.4	Water Tank Base (3 x 3 x 1 m) - concrete bricks walls filled with compacted soil covered by 10 cm plain concrete C15 (include plastering works for walls, and non-slip coating for concrete layer)	lump sum	1		
1.5	2 x 1 m Steel Sign board with WV Visibility and project details	lump sum	1		
1.6	Drilling raw water well intake (depth to be select in site -the average depth is 10 meters-, install 4" UPVC casing and screen, gravel pack and sanitary seal) complies with AWWA A100-97, including pumping test for 4 hours	lump sum	1		
1.7	Drilling reject water well (depth to be select in site -the average depth is 10 meters-, install 4" UPVC casing and screen, gravel pack and sanitary seal) complies with AWWA A100-97	lump sum	1		
2	Mechanical & Process Equipment				

2.1	Raw Water Feed Pump (Motor) – Capacity 6 m ³ /h @ 6 bar, IP55, TEFC; includes suction strainer, flexible coupling, non-return and isolation valves. Complies with ISO 5199 / API 610 for pump design. Includes installation, alignment, and testing of water depth to avoid cavitation	No.	1		
2.2	High-Pressure Pump for RO – Horizontal multistage SS 316, capacity 3 m ³ /h @ 18 bar; motor 3-phase IP55, TEFC, cartridge mechanical seal, with stainless baseplate and flexible coupling guard. Complies with API 610. (Grundfos or Lowara brands only)	No.	1		
2.3	Multimedia Filtration Unit – FRP pressure vessel, 16" Dia, 65" height, max pressure 10 bar; media: graded silica quartz + anthracite 39" height; manual multiport valve, sch.80 PVC piping; complies with AWWA B100. Includes media filling, testing, and flushing with 12 M ³ /h for backwash	No.	1		
2.4	Activated carbon filter – FRP vessel, 16" Dia × 65" height, coconut shell carbon, iodine number > 1000 mg/g. NSF/ANSI 61 certified. Includes full carbon filling, backwash, and commissioning.	No.	1		
2.5	Cartridge Filter Housing – 5-round, 5-micron PP cartridges, rated 10 bar, quick-clamp closure, drain & vent ports; ASME BPVC compliant. Includes initial set of cartridges.	No.	1		
2.6	RO membrane housing – FRP, 4" × 40" size, suitable for brackish water, 1 element in series.	No.	4		
2.7	RO membranes – BW30 4040 (or equivalent), salt rejection ≥ 99%, with performance certificate from authorized seller	No.	4		
2.8	Automatic Chlorination dosing pump – diaphragm type, 0–5 L/h @ 5 bar, PVDF head, with 50 L chemical tank.	set	1		
2.9	Antiscalant dosing pump – diaphragm type, 0–5 L/h @ 5 bar, PVDF head, with 50 L chemical tank.	set	1		
2.10	Chemical consumption for two months (NaOCl, CaCO ₃ , Antiscalant)	set	1		
3	Plumbing & Piping Works				
3.1	Raw water pipeline – HDPE, 2" Dia, with unions, elbows, tees, and valves.	set	1		
3.2	Raw water storage tank – 10 m ³ , food-grade, UV-protected, top manhole, fixed in tank base	No.	1		
3.3	Permeate line – HDPE PN10, 1" Dia, complete with fittings.	m	30		
3.4	Brine rejects line – HDPE PN16, 1" Dia, complete with fittings & connected to brine water well	m	12		

3.5	Stainless steel flexible connectors – SS316, various sizes for pumps and filters.	set	1		
4	Instrumentation & Control				
4.1	Pressure gauges – glycerin filled, ranges: 0–20 bar	No.	2		
4.2	Flow meters – rotameter type, acrylic tube, 0–5 m³/h and 0–1 m³/h ranges, (±5% accuracy)	No.	2		
4.3	TDS/conductivity – inline type, digital display, 0–10,000 ppm range with Auto temperature compensation of reading	No.	1		
4.4	Control panel – IP55, powder-coated steel enclosure, PLC-based, alarms, surge protection, auto-shutdown for faults & manual override mode.	No.	1		
5	Testing, Training & Commissioning				
5.1	Operator training – minimum 3 days, covering O&M, troubleshooting, and safety.	lump sum	1		
5.2	Maintenance/cleaning tools to individuals managing the plant (Screwdriver Set, Pliers, Wire Strippers, Adjustable Wrench, Allen Wrench Set, Socket Set, Flashlight, Safety Goggles, Gloves, Overall, Cleaning Supplies: Besom, Broom, Gloves, Brush, Mob, Squeegee, Wire Brush, Bucket (Other consumables)	lump sum	1		
5.3	Clean in Place Chemicals for three clean cycles (Citric acid, NaOH)	lump sum	1		
Sup-Total					
VAT 17%					
Grand Total					

Total in words: (.....)

Currency

Offer Validity (days)

Delivery Time:

Delivery location:

Payment terms:

Name: _____

Signature: _____

Stamp

Note: Please attached the Performa Invoice