



Food and Agriculture Organization of the United Nations
FAO Representation South Sudan

REQUIRED TECHNICAL SPECIFICATIONS			OFFERED TECHNICAL SPECIFICATIONS (See Notes 1 – 6 below)				
Treadle pumping sets; Pressure Pumps Set = (1) Pump + (2) Discharge and suction pipe assemblies + (3) Frame, treadle and handle, (4) Accessories + (5) Spares; as defined in this Technical Specification Sheet	Quantity Required	Total Quantity Required	Unit	Quantity Offered	Make offered	Model offered	Country of Origin
Item Code: (OSRO/SUD/ /)	40 sets	40	Set				
Technical Information: General							
Site conditions: Southern Sudan Water to be used for irrigation purposes Water to be pumped from shallow wells or open surface water							
Note that the delivery schedule to final location is a crucially important selection criteria – see page 3.							
All sets must be supplied through one supplier.							
The sets must include all parts necessary for complete installation, start-up and full operation.							
Pump should be adjustable for use by heavy-weight and light-weight operators, either by the operator moving their position along the treadle, or by moving the pivot point, or the point at which the treadles are attached to the pistons: Please specify which applies to the model you are offering.							
Weight of whole unit: Maximum 25 kg							
<ol style="list-style-type: none"> In the spaces on the right-hand side of these sheets that are not shaded, you <u>must</u> provide the specifications of the equipment being offered, in relation to the specifications being requested. Any deviations should be noted. If there is not enough space in the form then these notes should be clearly numbered and continued at the end of these tables. Quantities and prices should also be specified where requested. All costs must be quoted in US DOLLARS Together with your bid, please submit full documentation, including manufacturer’s brochures in English, where these are available. These should enable the tender evaluators to verify the correct selection of all the main components of the sets. No modifications to specifications in the left-hand column are permitted. Failure to comply with any of the above requirements will result in rejection of the bid. The specifications offered by the supplier will be part of the contract between FAO and the selected supplier, and will be used by the inspection company to verify compliance on delivery. 							



REQUIRED TECHNICAL SPECIFICATIONS		OFFERED TECHNICAL SPECIFICATIONS
1.0	Technical Specifications: Pump	
1.1	Treadle pump – Pressure type	
1.2	Maximum Suction Head: Greater than 6 m	
1.3	Maximum Total Pressure Head: Greater than 12 m	
1.4	Discharge Rate: Greater than 1 litres/second at a total head of 5 metres	
1.5	Number of pumping cylinders: 2	
1.6	Cylinder diameter: 100 to 125 mm	
1.7	Cylinder stroke: Greater than 70 mm	
1.8	Cylinder wall thickness: Minimum of 2 mm	
1.9	Cylinder material: Mild steel	
1.10	Material of piston cup: Leather, or moulded or extruded rubber	
1.11	If leather, then thickness of leather cup: 3 to 5 mm	
1.12	Valve type: Vertical flap valves	
1.13	Number of vertical flap valves: 4	
1.14	Material of pressure bushes: Extruded HDPE or equivalent	
1.15	Pistons and cups must be easily removable from cylinders without the use of specialised tools	
1.16	All components made of steel must be galvanised when exposed to corrosion	
2.0	Technical Specifications: Suction and Discharge assemblies	
2.1	Suction inlet with threaded end for suction pipe attachment	
2.2	Suction pipe diameter: Minimum 32 mm	
2.3	Suction pipe length: 7 m	
2.4	Suction pipe material: HDPE, UV inhibited	
2.5	Spring loaded foot valve attached to suction hose	
2.6	Coarse filter/strainer attached to suction hose	
2.7	Discharge assembly containing non-return valve:	
2.8	Threaded discharge pipe	



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2.9	Discharge pipe diameter: Minimum of 25 mm	
2.10	Discharge pipe length: 36 m	
2.11	Discharge pipe material: PVC garden hose, UV inhibited	
2.12	Discharge pipe fitted with an adjustable spray nozzle	
2.13	All components must be made of steal and galvanised when exposed to corrosion	
3.0	Technical Specifications: Frame, Treadle and Handle	
3.1	Treadle spacing: 175 to 200 mm approximately	
3.2	Treadle height from ground: Maximum of 400 mm	
3.3	Treadle material: All steel	
3.4	Handle diameter: Minimum of 20 mm	
3.5	Handle material: Steel pipe, galvanised	
3.6	All components must be made of steal and galvanised when exposed to corrosion	
3.7	Pump base must have screw or bolt holes for attachment to large stable wooden base.	
4.0	Accessories:	
4.1	Basic tool kit for undertaking routine maintenance, one for each pump set.	
5.0	Spare Parts:	
5.1	Spare parts, for those components that may wear out within the first two years of operation must be supplied, including piston cups (at least two sets), valves, bushes, rocker/wheel bearings, etc. The list must be individually itemised, costed and submitted with your bid. The spare parts must be individually packed with each pump.	
Warranty:		
A full warranty statement covering each complete set must be submitted with your bid detailing the terms and conditions that are being offered.		
Manuals:		
Provide an Operators Manual, one for each unit		
The cost of all manuals must be included in the DDU price		



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Certification:			
A copy of the last certificate awarded confirming the quality of the brand name and model of the pumps offered should be attached to your bid.			
Quantities:	Qty Required	Qty Offered	
Complete sets of pressure treadle pumps as specified in this tender	40		
Delivery:	Delivery time offered after placement of order NOTE THAT THIS WILL BE A DECIDING CRITERIA IN THE AWARD OF THE TENDER		
Required delivery to final destination: 1 month from the order			
Delivery point: Warehouse of the FAO Coordination Office in Juba, South Sudan			
Summary of costs to final destinations:		COST US\$	All costs <u>must</u> be quoted in US DOLLARS
Ex-works unit cost of one set			
Total ex-works cost of all sets (A)			Please attach a separate list of costs, breaking these down into the major categories listed in these specifications, i.e. pump, discharge and suction assemblies, frame, etc.
Total ex-works cost of Spare Parts (B)			Please attach a separate individually itemised and costed list of spares.
Total freight cost to final destinations (C)			
Total DDU cost to final destinations. (A+B+C)			



Appendix III (A): FINANCIAL OFFER - QUANTITY OF GOODS DELIVERED WITHIN THE REQUESTED DELIVERY TIME
(31st January 2018)

S #	Item description (as per offered specifications in Appendix II)	Unit Of Measure	Qty requested	Qty Offered (Set)	Unit Price FCA (in US\$*)	Total Cost FCA (in US\$*)	Freight Cost including unloading charges / Unit (in US\$*)	Total Freight Cost including unloading charges (in US\$*)	Insurance Cost (in US\$*)	Total Cost DAT up to FAO's WAREHOUSE in JUBA, S. SUDAN] (in US\$*)	Delivery Time (specify in calendar days or weeks)	Delivery
				-1	-2	(3) = (1) x (2)	-4	(5) = (1) x (4)	-6	(7) = (3) + (5) + (6)		
1	Treadle Pumps	Pieces	535									
TOTAL												

* If the quote is in a different currency than specified here, FAO will convert prices for the commercial evaluation to a single currency using the official UN exchange rate corresponding to the date of the offer.

NOTE regarding arithmetical errors and discrepancies:

- If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the total price will be corrected, unless in the opinion of evaluators, there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted will govern and the unit price will be corrected.
- If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals will prevail and the total will be corrected.

In case of discrepancy between a word and figures, the amount in words will prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures will prevail subject to the note above