

**NL-The Hague: EDF — components for multifunctional platforms (MFP) and productive use containers (PUC)
2010/S 2-000794**

Location — Tanzania

Supply procurement notice

1. **Publication reference:**
EuropeAid/128651/D/SUP/TZ.
2. **Procedure:**
Open.
3. **Programme:**
EDF.
4. **Financing:**
Grant contract 9.ACP.RPR.49, commitment No: 12.
5. **Contracting authority:**
Humanist Institute for Co-operation with Developing Countries (HIVOS), Raamweg 16, 2596 HL The Hague, NETHERLANDS. The contracting authority's implementing partner is Tatedo, PO Box 32794, Plot 589, Off Shekilango Road, Kijitonyama, Dar es Salaam, TANZANIA.

Contract specifications

6. **Description of the contract:**
Lack of modern energy services in many rural areas is a major bottleneck for social and economic development. Without sustainable energy services, it is hard to develop local enterprises and income generating activities. Through the delivery and installation of multifunctional platforms (MFPs), consisting of a vegetable oil driven combustion engine driving an alternator/oil seed press c/w filters/maize mill/maize dehusker and/or water pump as well as productive use containers (PUCs), equipped with solar panels or battery operated and to be delivered to rural areas, social and local development will be stimulated.
7. **Number and titles of lots:**
Lot 1: stationary engines and accessories.
Lot 2: alternators and battery charger.
Lot 3: maize mills and dehusking machines.
Lot 4: water pump and accessories.
Lot 5: oil press and filters.
Lot 6: electrical installation equipment.
Lot 7: delivery of PUC — solar powered.
Lot 8: delivery of PUC — battery powered.
Lot 9: miscellaneous equipment.

Terms of participation

8. **Eligibility and rules of origin:**
Participation in tendering is open on equal terms to natural and legal persons (participating either individually or in a grouping (consortium) of tenderers) from ACP States and Member States of the European Union and international organisations as authorised by the instrument applicable to the programme under which the

contract is financed (see also item 22 below). All goods supplied under this contract must originate in these countries, except for the lot number 1 (stationary engines and accessories) for which a derogation to the rule of origin has been granted.

9. **Grounds for exclusion:**

Tenderers must submit a signed declaration, included in the tender form for a supply contract, to the effect that they are not in any of the situations listed in point 2.3.3 of the 'Practical Guide to contracts procedures for EC external actions'.

10. **Number of tenders:**

Tenderers may submit only 1 tender per lot. Tenders for parts of a lot will not be considered. Any tenderer may state in its tender that it would offer a discount in the event that its tender is accepted for more than 1 lot. Tenderers may not submit a tender for a variant solution in addition to their tender for the supplies required in the tender dossier.

11. **Tender guarantee:**

Tenderers must provide a tender guarantee of 2 % of the quoted price per lot when submitting their tender. This guarantee will be released to unsuccessful tenderers once the tender procedure has been completed and to the successful tenderer(s) upon signature of the contract by all parties. This guarantee will be called upon if the tenderer does not fulfil all obligations stated in its tender.

12. **Performance guarantee:**

The successful tenderer will be asked to provide a performance guarantee of 10 % of the amount of the contract at the signing of the contract. This guarantee must be provided together with the return of the countersigned contract no later than 30 days after the tenderer receives the contract signed by the contracting authority. If the selected tenderer fails to provide such a guarantee within this period, the contract will be void and a new contract may be drawn up and sent to the tenderer which has submitted the next cheapest compliant tender.

13. **Information meeting and/or site visit:**

No information meeting is planned.

14. **Tender validity:**

Tenders must remain valid for a period of 90 days after the deadline for submission of tenders.

15. **Period of implementation of tasks:**

Tenderer is obliged to fulfil its contract, until provisional acceptance, within 150 days from contract signature.

Selection and award criteria

16. **Selection criteria:**

To be eligible for participation in this tender procedure, tenderers must prove to the satisfaction of the contracting authority that they comply with the necessary legal, technical and financial requirements and have the wherewithal to carry out the contract effectively.

The following selection criteria will be applied to tenderers. In the case of tenders submitted by a consortium, these selection criteria will be applied to the consortium as a whole:

- 1) Economic and financial capacity of tenderer (based on i.e. item 3 of the tender form for a supply contract):
 - (a) the average annual turnover of the tenderer must exceed the financial proposal of the tender.
- 2) Professional capacity of tenderer (based on i.e. items 4 and 5 of the tender form for a supply contract):
 - (a) for lot 1, has a manufacturer's authorisation to quote for the engines required;
 - (b) for the other lots, except lot 9, that at least 2 staff currently work for the tenderer in fields related to these lots.
- 3) Technical capacity of tenderer (based on i.a. items 5 and 6 of the tender form for a supply contract):

(a) the tenderer has worked successfully on at least 1 project with a budget of at least that of this contract in fields related to this contract in the past 3 years.

An economic operator may, where appropriate and for a particular contract, rely on the capacities of other entities, regardless of the legal nature of the links which it has with them. It must in that case prove to the contracting authority that it will have at its disposal the resources necessary for performance of the contract, for example by producing an undertaking on the part of those entities to place those resources at its disposal. Such entities, for instance the parent company of the economic operator, must respect the same rules of eligibility and notably that of nationality, as the economic operator.

17. **Award criteria:**

The sole award criterion shall be price. The contract will be awarded to the lowest compliant tender.

Tendering

18. **How to obtain the tender dossier:**

The tender dossier is available from the following Internet address: <https://webgate.ec.europa.eu/europeaid/online-services/index.cfm?do=publi.welcome>

The tender dossier is also available from the contracting authority (Hivos, the Netherlands) or its partner (Tatedo, Tanzania). Tenders must be submitted using the standard tender form for a supply contract included in the tender dossier, whose format and instructions must be strictly observed.

Tenderers with questions regarding this tender should send them in writing to:

Humanist Institute for Co-operation with Developing Countries (HIVOS), attention: Mr Harrie Dijkstra, Raamweg 16, 2596 HL The Hague, NETHERLANDS. Tel. +31 703765500. E-mail: hdijkstra@hivos.nl

(mentioning the publication reference shown in item 1) at least 21 days before the deadline for submission of tenders given in item 19. The contracting authority must reply to all tenderers' questions at least 11 days before the deadline for submission of tenders. Eventual clarifications or minor changes to the tender dossier shall be published at the latest 11 days before the submission deadline on the EuropeAid website at <https://webgate.ec.europa.eu/europeaid/online-services/index.cfm?do=publi.welcome>

19. **Deadline for submission of tenders:**

15.3.2010 (14:00), Tanzanian time.

Any tender received after this deadline will not be considered.

20. **Tender opening session:**

15.3.2010 (14:30) at the following location: TaTEDO, Plot 589, Off Shekilango Road (near Institute of Social Work), Kijitonyama, Dar es Salaam, TANZANIA.

21. **Language of the procedure:**

All written communications for this tender procedure and contract must be in English.

22. **Legal basis:**

ACP-EC Partnership Agreement signed at Cotonou on 23.6.2000 as amended on 25.6.2005 and in 2008 (Annex IV).

CORRIGENDUM |TO SUPPLY PROCUREMENT NOTICE

Components for Multi Functional Platforms (MPF) and Productive Use Containers (PUC)

Publication reference: EuropeAid/128651/D/SUP/TZ

19 Deadline for submission of tenders

29 March 2010 at 14.00 hrs Tanzanian time

Any tender received after this deadline will not be considered.

20 Tender opening session

on the 29 March 2010 at 14.30 hrs at the following location:

TaTEDO,

Plot 589, Off Shekilango Road (near Institute of Social Work)

Kijitonyama

Dar es Salaam

Tanzania

All other elements of the original procurement notice remain unchanged.

Question 1;

Item no. 6s - 1,000mtr of cable including earth rods. How many earth rods do you want to go with the cable.

Answer to Question 1:

As Item no 6r is specifying the earth rod in the quantity 150 pieces (see financial offer) the including of earth rods in item no 6s was done by accident. This requirement for earth rod under 6s needs to be removed

Question 2; Art. 16.3(a) Selection Criteria – Supply procurement Notice

The above-mentioned article requires:

“ (a) The tenderer has worked successfully on at least 1 project with a budget of at least that of this contract in fields related to this contract in the past 3 years” Please confirm that for Lot 7 the manufacturer’s specific experience is acceptable to satisfy the abovementioned qualification.

Answer to Question 2:

The functionality of the PUC depends on the delivery of the solar components for the lot 7. We expect the manufacturer’s specific experience is in the field of solar energy and the description of the requested 1 project is in this area..

Question 3; ITT Art. 11 – Part 1 Technical Offer

Please kindly specify if we have to quote the Costs for Training (covering Lot 1 only):

- a) as separate item included in the Total of offer, or
- b) included in the cost of item.

Answers to Question 3:

- a) As per ITT 11 part 1 sub 2, the technical proposal should include details on the operational and maintenance training in Dar es Slaam;
- b) As per ITT 11 part 2, the financial offer should include the financial proposal for the operational and maintenance training in Dar es Salaam..

Question 4; Lot 2, Item 2B

- a) Please indicate the value in “Ampxh of the batteries to recharge.
- b) Please indicate the battery type to recharge.
- c) Please confirm if the indicated Current value of 75A min is related to the battery charger.

Answers to Question 4:

- a) Average battery size is 50 Ampere-hours, Ah. Charging ten batteries at once means a total of 500 Ah.
- b) Battery type: automotive batteries, lead acid, wet cells and maintenance free gel.
- c) Yes, Current 75A is related to the battery charger.

Question 5; Lot 5, Item 5a

Which kind of seeds will be pressed?

Answers to Question 5:

The machine will be used to press jatropha seeds.

Question 6; Lot 7, Item 7g

- a) Please clarify if the provision should include supply of containers completely installed with all the items or just the delivery of the various items in the quantities described, by transporting them in different containers (not installed on it).
- b) Please tell us how many container you request for each destination.

Answers to Question 6:

- a) Supply of the containers and the items in quantities described only, should not include installation of the items

b) Number of containers per each destination is as follows:

CONTAINERS DISTRIBUTION QUANTITIES AND DESTIINATIONS																		
LOT Number and description	Item	Description	Units	Total	Destinations											Total		
					Moshi	Mwanza	Mwanga	Hai	Siha	Meru	Monduli	Karatu	Muheza	Lushoto	Kahama		Misungwi	Geita
Lot 7: PUC Solar	7a-7d	Complete PUC solar powered i.e two	Units	50	0	0	5	4	4	5	5	4	4	4	5	5	5	
			Containers	100	0	0	10	8	8	10	10	8	8	8	10	10	10	10
Lot 8: PUC MFP powered	8a-8o	PUC without solar panels i.e items 8a to 8o	Units	25	0	0	3	0	3	2	2	2	3	2	3	2	3	
			Containers	50	0	0	6	0	6	4	4	4	6	4	6	4	6	6
Total Number of Containers					0	0	16	8	14	14	14	12	14	12	16	14	16	150

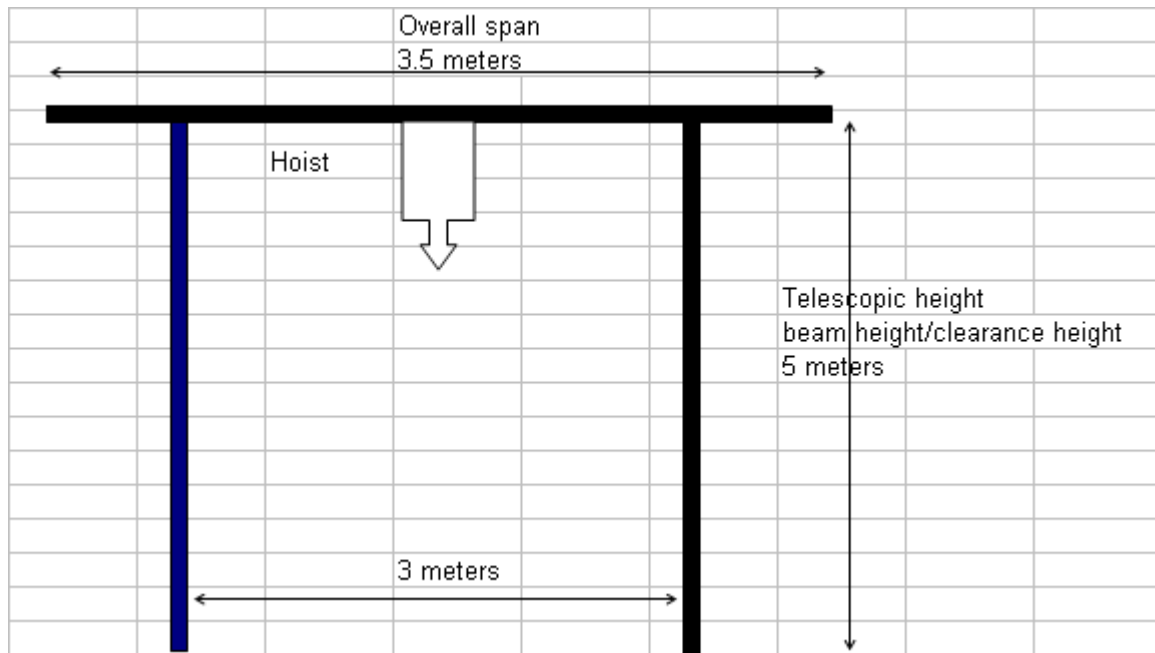
Note: One Unit is equivalent to 2 containers

Question 7; Lot 9 (our ref 10.964), item 9b

- Please indicate the crane scope of work.
- What kind of containers should be handled (20ft, 40ft or both);
- Which is the requested max load of the hoist?
- FEM class of structures and mechanisms or, alternatively, the average work cycle.
- Will be the crane installed indoor or outdoor?
- What do you mean with "Overall Span"?
- You have indicated with 5m: the minimum height, the height of the beam and the height free, please specify (the best thing should be to fill the blank windows in the annexed drawing – Annex 1).
- We assume that we don't have to do any civil work, please confirm.
- Do you require our supervision at your assembly work or we have to mount all the frame in order to install the crane?

Answers to Question 7:

- Crane scope of work: Cranes will be used in Transport: to lift containers in loading and offloading trucks at the destinations (the district headquarters on the table above) and at final destinations, i.e. in the villages. Furthermore, the cranes will be used in Installation of the equipment lifting and positioning the containers. Cranes should be mobile i.e. can be dismantled and transported to various places on a small truck, 3.5 tones capacity.
- Only the 20ft containers to be handled
- Maximum load of the hoist: 4,000 kg (tare weight of container 2,250 kg plus weight of transported materials, lot 7 and 8, at most 1,500 kg)
- Average work cycle: estimated 2 days per unit of PUC. i.e. lot 7 and 8, daily use for the first 6 months.
- The crane will be used outdoors.
- Overall span: width of the crane, outer distance along the length of the beam
- Specifications as drawn below



- h) Yes, no civil work to be involved
- i) For ease of transport, it should come dismantled. Mounting can be done at the site.

Question 8; Art. 1.1 of Instructions to tenderers

The above-mentioned article requires delivery DDU Named Destination. Please kindly confirm that, according to Incoterms 2000, DDU Named Destination doesn't include unloading of the goods at final destination. Please kindly confirm, otherwise clarify.

Answer to Question 8:

Incoterms 2000 is specifying as per DDU terms, seller's obligations, A4, "The seller must place the goods at the disposal of the buyer (Contracting Authority)....., on any arriving means of transport not unloaded, at the named place of destination on the date or within the period agreed for delivery.

Question 9; Lot 9 (our ref 10.964), item 9a

In art. 1.1 of the Instructions to tenderers, Item 9a is subdivided in 5 sub-items and for each sub-item it is required a specific quantity (i.e. 200pcs, 800pcs, 300pcs, 600pcs & 50pcs). In Annex II+III Technical Specifications, Item 9a is subdivided in sub-items but the quantity required is different, that is 4 pieces, 16 pieces, 6 pieces & 16 pieces. Moreover, in Annex IV - Budget Breakdown (Model financial offer), item 9a is not subdivided in sub-items and it is required a quantity of 50 sets. Consequently, please kindly specify:

- a) the correct quantity required for item 9a (in particular for sub-item "foundation anchors" for which it is required 50 sets - 16 pieces and 600 pcs)
- b) if, in the Financial Offer, we have to indicate or not the cost subdivide for each sub-item.

Answer to Question 9:

Item 9a is a set and each set is consisting of: 4 pieces I-Beam of 4 mtrs, 16 pieces I-Beam of 1 mtr, 6 pcs flat bar, 16 pieces of foundation anchors and 1 length of min. 5.8 mtrs pipe. Annex IV is specifying that 50 of these sets are required.

Question 10; Lot 9 (our ref 10.964), Item 9a -

It is not so clear what do you mean with the piece "Foundation anchors", could you please send us more specification? Is it a normal "L-Beam" or not? Analyzing the dimensions and weight we don't understand well which kind of piece you require, can you confirm the following:

- Width:25x25 mm;
- Weight: 21.20 kg/mtr;
- Length: 200 mm;

Answer to Question 10:

The foundation anchors specified in lot 9a are L-shaped beams with 25mm height, 25mm width, 4mm thick and 200mm length per piece. The quantities of the anchors remain as indicated in lot 9a in the 'Instruction to tenderers' document. In the financial offer, prices have to be indicated in each sub-item

Question 11; quantity required

What is the quantity required for Item Number: 7a-7i on Lot 7 and Item Number: 8a-8i on Lot 8.

Answer to Question 11:

Please check Annex IV for the required quantities.

Question 12; Lot 2 - Meters

- do you want electromechanical or Electronic (solid state)
- what is the nominal & maximum current
- do you require 3 phase 4 wires or 3 phase 3 wires
- what is the pulse output and the tariff inputs
- is a communication interface required.

Answers to Question 12: Lot 2

- Meters mentioned in the lot are electromechanical, three phase type
- The maximum current of these metres should be 50 Amperes
- The metres should be of 3 phase 4 wire type (220/415 Volts AC)
- The pulse output is watt-hours
- Communication interface is not required

Question 13; Lot 4 - Water Pumps

- what is the flow rate pressure
- size of suction head and discharge head
- what is the electricity supply
- do you want self priming or not

Answer to Question 13:

- a) Inlet size is given as 2,5inch. The required water conduits should be connected to the pump so the outlet size is 100 mm
- b) Electric power is 220V/50Hz
- c) The pumps needed are centrifugal ones, not self priming

Question 14 & 15; Lot 7 & 8 - Containers and contents

- the container delivery table quantities add up to a total of 50 containers, which is exactly what is requested.
- you state 2 containers are to be loaded with the equipment as stated in 7a to 7l, are these two containers part of the 50 or are they an extra two.
- if they are part of the 50, which destination will they be going to.
- if they are extra containers, also which destination will they be going to, and do you want to purchase these containers.
- items 7b to 7d and 7h to 7l, what are the quantities of these items, are we to assume that there are 50 of each as per the containers.
- if the two containers are to be loaded with all the items from 7a to 7l, what about 7g, this is stated as a 20ft container, is there any significance in this

Answer to Question 14 & 15:

The number of destinations as given in the delivery tables are adding up to 50 for Lot 7 and 25 for Lot 8. Each destination requires 2 containers.

Question 16; Lot 9 - Structures

what grade steel is required

Answer to Question 16:

Required grade is general construction steel S235JR / EN20025

Question 17; Lot 9 - Cranes

- what tonnage or safe working load is required
- are the measurements correct, the manufacturer's state that a 3mt height for a 20ft container is really too small

Answer to Question 17:

See answer to question 6

Question 18; Lot 1

We would like to know if the engines (lot 1) the goods should even original from China

Answer to Question 18:

As per ITT sub 4.1, it is indicated that for lot 1, a derogation of the rule of origin has been granted. As a consequence, there are no restrictions to the origin of the goods for lot 1.

Question 19;

Will there be any training required for the oil press, milling machine and de-husker ?

Answer to Question 19:

No

Question 20;

Item no. 6k - What Amp is required ?

Answer to Question 20:

The switch should be able to meet the output of the alternator as specified under 2a

Question 22;

Excluding the containers loaded with Lot 7 and Lot 8 are the 50 and the 25 containers to be delivered to the end destinations empty

Answer to Question 22:

As per Article 29 sub 2, the containers as mentioned under lot 7 item "g" and Lot 8 item "e" are to be used as packing material for the equipment indicated in the respective lots. The containers are to be "shippers owned" containers and become property of the contracting authority. Whether all equipment is loaded into one or two containers is as per tenderers option.

Question 23;

Under lot 7a, it is mentioned: "Modules per container: 5 pieces of 130 Wp each, or at most 6 pieces if modules smaller than 130Wp are supplied but providing similar output of, 650Wp". As two containers are grouped together in pairs to form one PUC, do you require 5 modules per PUC or $2 \times 5 = 10$ modules per PUC?

Answer to Question 23:

The requirement is 5 modules per PUC.

Question 24; Lot 5

Can Item 5a and 5b be provided together? A single machine that first presses oil seeds and then filters the oil. If this is the case, is a total price for both items 5a and 5b accepted?

Answer to Question 24

Machines mentioned in Lot 5, item 5a and 5b must be supplied separately.

Question 25; Guarantees

Is it possible to submit a tender guarantee unique for all lots or if it is mandatory to include a tender guarantee for each lot (9 guarantees)?

Answer to Question 25:

It is possible to include unique tender guarantees for each lot quoted for.

Question 26; Lot 6

- a) Item 6b: Single core or 2 core? And is this ABC (Aerial Bundled Cable), what length roll is required to determine easy to handle?
- b) Item 6c: Is this ABC (Aerial Bundled Cable)?
- c) Item 6d: Are these Piercing insulating clamps, dead-end clamps or suspension clamps?
- d) Item 6e : We understand that this is a bar of metal of 2m long, with 2 holes in the lower part and 2 holes in the upper part, do you have a drawing? What provisions are required ?
- e) Item 6h : Is the Curve B or Curve C ? Do you require a protection cover and screws ?
- f) Item 6i: What are the dimensions of the D-Iron? What length is the 16mm dia bolt ? We understand that the shackles mentioned in Item 6i are not to be supplied as part of this Item and is only stated as a reference to the shackles supplied under item 6j. Please confirm?
- g) Item 6k : What Amp is required? Is this the non qualification type?
- h) Item 6p : Please explain Pin adaptor, do you mean bayonette fitting?
- i) Item 6r : Are these copper bonded steel rods ? For which Cable ?
- j) Item 6t : What is the diameter of the Guy Wire ? Number of strands ? What type of clamp ? Are complete stay rod assemblies required, i.e. thimbles, dead-end grips, wire, stays, rods, etc etc) Do they have to be adjustable ? How many clamps/assemblies are required?

Answer to Question 26:

- a) Cables specified in item 6b are low voltage (600-1000 volts) aerial bundled cables. The rolls must be wooden drum package or plastic drum packages of up to 1.5 meters in diameter.
- b) Yes, the cables specified in item 6b are aerial bundled cables.
- c) The clamps mentioned in item 6d are steel connection clamps, for connecting two pieces of conductors e.g. two pieces of aluminium/copper cables
- d) The required amount is 1000 pieces
- e) Curve B is preferred; protection cover and screws are also needed
- f) Dimensions of D iron and the 16 mm bolt depend on the size of the shackles. Shackles stated in item 6i were for reference but need to be supplied differently, in item 6j
- g) The maximum current required for the switches is 100 amperes, the switch is mend to be used with item 2a
- h) The pin adaptor mentioned under item 6p is a bayonette which holds a light bulb
- i) Earth rods are made of copper-plated steel. Earth rods will be connected to earth wire (see item 6s on technical offer
- j) Diameter of the guy wire: 10 mm² (or 3/8 inches), high tensile material number of strands 7, type of clamps: parallel groove type, no need for adjustable stays – no need for stay rod, one clamp per set (50 clamps)

Question 27; Lot 8

Item 8f - Refrigerator - Solar Type - is this correct as a 'Solar' type the same as in Lot 7?

Answer to Question 27:

YES, the refrigerator of item 8f is the same as item 7h

Question 28; Lot 7

Item 7g: 20 ft pre-used container. The required quantity is 50 as indicated in Instruction to tenderers- Section 1, or 50x2 as indicated in Annex IV – Model Financial Offer?

Answer to Question 28:

The requirement is for 50 PUC's and each PUC requires 2 x 20ft container.

Question 29; Lot 8

Item 8e: 20 ft pre-used container. The required quantity is 25 as indicated in Instruction to tenderers- Section 1, or 25x2 as indicated in Annex IV – Model Financial Offer?

Answer to Question 29:

The requirement is for 25 PUC's and each PUC requires 2 x 20ft container.

Question 30; Lot 2, item 2a

- a) Please clarify whether you require a two-bearing alternator, or whether the alternator will be directly coupled to an engine.
- b) If the alternator is to be directly coupled to an engine, presumably this will be to the 2 different types of engine requested on Lot 1. What is your preferred size of SAE adaptor and coupling disc.
- c) The majority of alternator manufacturers offer products rated to IP45. Would this be acceptable?
- d) We assume that the "Electronic Load Controller" will be the automatic voltage regulator. Please confirm.

Answer to Question 30:

- a) The alternator will NOT be directly coupled to an engine. It will be driven by means of V-belts. Regarding the bearings, please see the technical specifications of Lot 2.
- b) No
- c) yes it will be acceptable
- d) An electronic load controller is an automatic voltage regulator

Question 31; Lot 4, item 4a

- a) Please advise the end use of the water pumps. Are they to pump clean or dirty water. Is the water for drinking, irrigation, drainage, waste water or for use in the processing of maize?
- b) Are the water pumps powered by Lot 1 item 1a or Lot 1 item 1b?

Answer to Question 31:

- a) The pump is being used to pump surface / river water which is used for both drinking and irrigation.
- b) No decided yet, could be either / or.

Question 32; Lot 7, item 7h

- a) The specification "high efficiency, solar type, Voltage: 220-230VAC" is inconsistent, please confirm if fridge required is [a] solar or [b] a standard mains powered fridge.
- b) Please confirm if Fridge is to be used with Inverter (item 7c), and batteries (item 7d)
- c) Please confirm required internal temperature of fridge and intended usage i.e., food storage, vaccine storage etc.
- d) Can we offer a complete solar refrigeration system to WHO standards that operates directly from DC supply? This option will be significantly cheaper and more efficient than using an inverter + AC220V refrigerator?

Answer to Question 32:

- a) The fridge required is a unit operating at 220 – 230 VAC which will be provided by the solar installation.

- b) Yes, confirmed
- c) Fridge will be used for food storage, no vaccine
- d) No.

Question 33; Lot 8, item 8f

- a) The specification "high efficiency, solar type, Voltage: 220-230VAC" is inconsistent, please confirm if fridge required is [a] solar or [b] a standard mains powered fridge.
- b) Please confirm if Fridge is to be used with Inverter (item 8a) and batteries (item 8b).
- c) Please confirm required internal temperature of fridge and intended usage i.e., food storage, vaccine storage etc.
- d) Can we offer a complete solar refrigeration system to WHO standards that operates directly from DC supply? This option will be significantly cheaper and more efficient than using an inverter + AC220V refrigerator.

Answer to Question 33:

- a) The fridge required is a unit operating at 220 – 230 VAC which will be provided by the solar installation.
- b) Yes, confirmed
- c) Fridge will be used for food storage, no vaccine
- d) No.

Question 34; Lot 7, item 7g

Quantities suggested on Annex IV suggests that you require $50 \times 2 = 100$ containers – this quantity does not makes sense with other item quantities you have requested. Please clarify as we think that you may have meant to say - 50 x 20ft containers.

Answer to Question 34:

Your suggestion is correct.

Question 35; Lot 2, item 2a

- a) Please confirm that you require power from the alternator for lighting or general power uses at the same time as the engines are being used to drive the other mechanical equipment.
- b) The specification states that that the alternator has to withstand up to 180% of nominal speed (1500rpm) – this is 2700rpm. Standard alternators are rated up to 2250rpm without mechanical damage if 2700rpm is essential this would be a 'special' alternator. Please confirm if 2250rpm acceptable.
- c) The specification mentions an AVR or electronic voltage control. This system is a closed loop control system where it checks the voltage output and then adjusts the excitation to maintain that output, whatever load is added to it. The downside of this is that it will continue to excite even if the speed is down to 1200rpm (and load is connected). In this situation the amps needed to maintain the voltage are abnormally high and you risk the alternator failing due to heat in the rotor! There is a protection circuit on our AVR's which reduce the output voltage when speed goes down to around 48Hz or 1440rpm. This protects the alternator, but you do lose the load (motors stop, lights dim and extinguish etc). The AVR resets when speed picks up. So, at the slower speed of 1200rpm, you will not get a useable voltage or frequency with a conventional AVR controlled machine! It is important to know WHEN the power is required and if at the full operating speed of the engine or not! Please confirm your exact proposed operating program with engines, flour mills, de-husking machines, oil seed presses and oil filters and water pumps

Answer to Question 35:

- a) That will not always be the case.
- b) Please to confirm that 2250 rpm is sufficient
- c) The given specification should be 1500rpm, please consider only this specification

Question 36; Lot 9, item 9b

What is the safe working load required for the container crane?

Answer to Question 36:

Please see answer 7c

Question 37; Lot 1, item 1a and 1b

Please confirm which engines (air cooled or water cooled) will be used with which machines in Lots 3, 4 and 5

Answer to Question 37:

This selection has not been made yet and should not influence your offer.

Question 38; Lot7 + Lot 8

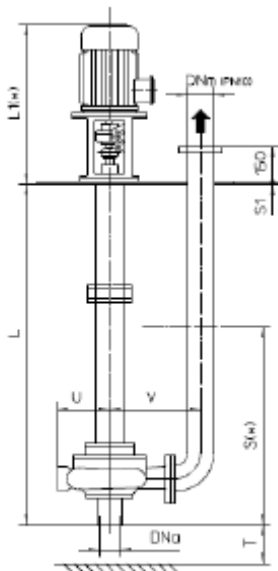
We are still a little confused with regards to how many containers are required. The specification and the delivery tables indicate that 50 containers are required for the Solar part of this tender, and 25 containers for the other part. In the tender document the model financial offer format it says 50 x 2 in lot 7 and 25 x 2 in lot 8. It also state that all lot 7 to be loaded into 2 containers ? is this correct, and the same for lot 8. Manufactures of the solar products have indicated it will take at least double that quantity of containers, so where do the extra containers come from.

Answer to Question 38:

Regarding the number of containers, please see our response on question 28 & 29. Regarding the logistics, you are free to implement this as you feel is most convenient as long as it is in line with the requirements of the tender dossier.

Question 39; Lot 4, item 4a

A centrifugal pump with vertical alignment is required. Can you please specify where this pump has to be installed (inside a tank or outside)? Is it used for irrigation? In the case that this pump has to be installed inside a tank with the electric motor on the top cover of the tank, can you specify how long has the connecting pipe to be (length L in the attached picture)?



Answer to Question 39:

These pumps are for pumping surface water/water from shallow wells and to be driven by stationery engines specified under items 1a or 1b

Question 40;

Do we have to include also installation cost in our offer or only the supply of the equipment is required?

Answer to Question 40:

Installation cost has not to be included into your offer.

Question 41; Item 5a

Oil seed press. Can you tell me which kind of oil seed are going to be pressed?

Answer to Question 41:

The presses will be used for jatropha seeds

Question 42; Item 2b

Battery charger. Minimum 75 Amp are required. Do you mean 75 Amp for each battery to be charged (total 750 Amp) or 75 Amp for all the 10 batteries (7.5 Amp for each battery)?

Answer to Question 42:

75 Amperes for all batteries.

Question 43; Item 7b

Solar charge controller. Type MPPT is required but not necessary to work with the required system since output of solar modules is 12V. Can we provide another type of solar charge controller, more suitable to work with the requested solar modules?

Answer to Question 43:

Another type can be offered separately as an alternative.

Question 44; Lot 8

Can you specify if the required system is a power supply network system or a photovoltaic system? In other words, the inverter charger has to be connected to existing (not required for this lot) solar modules or not?

Answer to Question 44:

The inverter is not to be connected to existing solar panels.

Question 45; Lot 9, Item 9b:

- a) Can you specify the carrying capacity of the required crane? It is supposed to be for 20ft containers of lots 7 and 8. Anyway these containers are going to be moved empty or not?
- b) Is a spreader required or not? If not which kind of system for lifting the container do you prefer to use?
- c) Is the crane for lifting fixed or sliding (in the middle of the upper beam and at the bottom of the column)? In other words steel casters have to be collocated in the middle of the upper beam to move the crane from one side to the other or at the bottom of the column to move the system back and forward?
- d) How many hours a day is the crane required to work?

Answer to Question 45:

- a) Please see answer to question 7c
- b) Spreader is not required,
- c) See drawing at question 7
- d) Use of the crane is job related, not number of hours per day. It will be used at irregular intervals at various project sites.