

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

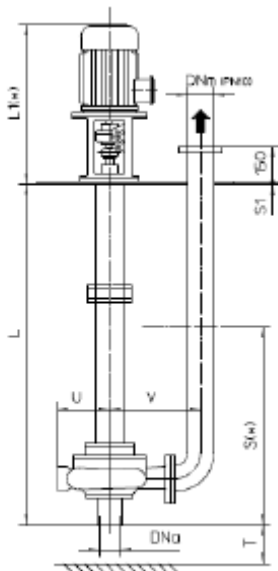
We are still a little confused with regards to how many containers are required. The specification and the delivery tables indicate that 50 containers are required for the Solar part of this tender, and 25 containers for the other part. In the tender document the model financial offer format it says 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.