



REPUBLIC OF KENYA



**MINISTRY OF AGRICULTURE, LIVESTOCK, FISHERIES AND IRRIGATION
STATE DEPARTMENT FOR LIVESTOCK
SMALLHOLDER DAIRY COMMERCIALIZATION PROGRAMME (SDCP)**

**TENDER FOR SUPPLY AND DELIVERY OF TWO TRUCKS FITTED WITH
CRYOGENIC TANKS (2000-2500 LITRES) TO TRANSPORT LIQUID
NITROGEN**

TENDER NUMBER: MOALF&I/SDCP/IFAD/ICB/02/2018-2019

CLARIFICATION

Tank Dimensions:

Because there is the option to have a 2-3m³ tank submitted as part of our bid, the manufacturer has warned that this will have an impact on the dimensions of the tank and have therefore asked if the specifications could be changed to have a range of mm/kg sizes as opposed to approx. or definite levels.

We would ask that the specification be changed from:

Empty tank weight, approx.: 1,500Kg to Empty Tank Weight: 1500 - 2500Kg Length, approx.: 3,200mm to Length: 3000-4000mm Diameter, approx.: 1,000mm to

Diameter: 1000-1500mm

Total Length of tank/attachments: 4,000mm to Total length of tank/attachments: 3750 - 4500mm

Please also confirm that:

- The weight of the empty tank stated above does not include a frame or any attachments (such as valves box) - if not the weight will need to be revised to 2500 - 3500 Kg
- The diameter of the tank stated is just the tank section and does not include any frame or rails on the tank. The height of the total structure needs to be around 1000-1700mm.

Truck:

- 1) **Engine size** - if the engine still produces compliant torque and kW/HP, would you accept a reduced size of as little as 2998cc (so 3L)?
- 2) **Batteries** - would you accept 1 12V battery instead of two x 12V - the manufacturer advises that one is enough
- 3) **Tank:**
 - a) Rails - you say the rails size is approx. so we assume we can have a slight difference here, but the spacing is specific at 400mm. Is there any room for manoeuvre there? Can we consider it approx.?
 - b) Securing to truck - there does not seem to be a specification for how the project wants the tank secured to the truck bed. Do you want the tank secured? And if so how do you envision this, just with basic straps or some more secure form of locking system?

RESPONSE

1. **The dimensions/sizes** can be changed as these depend on manufacturer including the rail size. Designer can quote his size
2. **Battery**- we need 2 batteries in the truck not one as this is not a small vehicle. one battery will not be effective nor last long.
3. **Securing tank** – the tank should have strong, secure and safe method of securing it to the truck not simple straps. Let manufacturer provide his design which must be strong and fit for purpose, not to endanger life and property.
4. **Engine capacity** –having a small engine say 3000cc is not recommended because structurally it will not last long due to the weaker and less material taking up forces and stresses during operation. It means concentration of forces on the engine is higher compared to a bigger engine with bigger pistons, bigger conrods, arms, rings, bearings, bore etc hence wear and tear will be much higher hence not comparable to a bigger sized engine