



Terms of Reference

Background

ChildFund International is a non-sectarian and non-profit development organization working in more than 30 countries worldwide to improve the well-being of about 15.2 million children and families, regardless of race, creed, religion and gender. ChildFund Kenya's core intent is to help deprived, excluded and vulnerable children have the capacity to improve their lives and the opportunity to become young adults, parents and leaders who bring lasting and positive change in their communities; and societies whose individuals and institutions participate in valuing, protecting and promoting the worth and rights of children.

The MFAT funded Agriculture, Dairy and Economic Development Project (ADED) will deliver improved agriculture, diversified livelihoods and reliable and beneficial market pathways for 1,250 farming households, who are included within the 2,875 direct beneficiaries (5,750 indirect). By the end of the project, food security and incomes in Emali farming communities will be improved and Maasai and Kamba households will be more resilient to climatic and economic shocks.

ChildFund Kenya hereby requests interested individuals to express in interest and submitting their bids in supplying the following:

A) The seven months in-calf heifers should meet the following criteria:

1. The dairy breeds required are either Fleckvieh or crosses of pure Friesian and pure Sahiwal
2. Daily milk production records for the dams
3. Health record of the heifers
4. Breeding records
5. Registration records with KLBO will be an added advantage

B) 2000 litre milk cooler

Specification for Refrigerated Stainless Steel Milk Coolers

1.	Tank Capacity – 2000L
2.	Inner stainless steel being 316 grade, outer being 304 grade.
3.	Interior polish Ra 0.6µm
4.	Exterior – matt finish
5.	Air venting filter
6.	CIP facility – spray ball
7.	Contents indicator – tube type with facility for CIP

8.	Stands on 4 or more legs
9.	Insulated
10.	Outlet 400mm from ground
11.	Outlet fall to ensure bottom of tank fully drained
12.	63.5mm (2.5in) outlet, fitted with SMS female fitting.
13.	65.5mm Stainless Steel plug valve. (Also quote for a 'butterfly valve')
14.	Electricity 415V/50hz/3 phase
15.	Voltage controller for refrigeration to be provided to protect voltage fluctuation (quote separately)
16.	SS Electrical Control cabinet – capable of connecting temperature gauge to electronic data recovery unit – data recorder.
17.	Temperature data recorder
18.	Top mounted agitator, 14rpm.
19.	Temperature indicator – preferably capillary / Dial gauge.
20.	Refrigerant in use should conform to the commitment arrived at during the Montreal and Kyoto protocol
21.	Loading/off-loading stainless steel pump, 20 meter Food grade hose pipe for offloading milk from the cooler and loading milk into a milk tanker
22.	<u>Information for design being:</u>
	Milk to be cooled within 2 hours from 27°C to 2°C.
23.	Milk flow rate into and out of the tank would be 1500L per hour
24.	The design would need to cope with atmospheric temperatures of 40°C and above. These temperatures would impact upon the head pressure of the compressor. Therefore the condenser would need to be sized accordingly.
25.	There would need to be provision for a 'heat recovery' system to recover the heat from the refrigeration unit, for heating water. This is to be quoted separately.
26.	The supplier is expected to transport , install and commission the cooler and refrigeration unit. Supplier may contract local technician as agent.
27.	A 25 m food grade hose pipe to fits wel with the inlet and outlet of the 1500 l/hr pumps

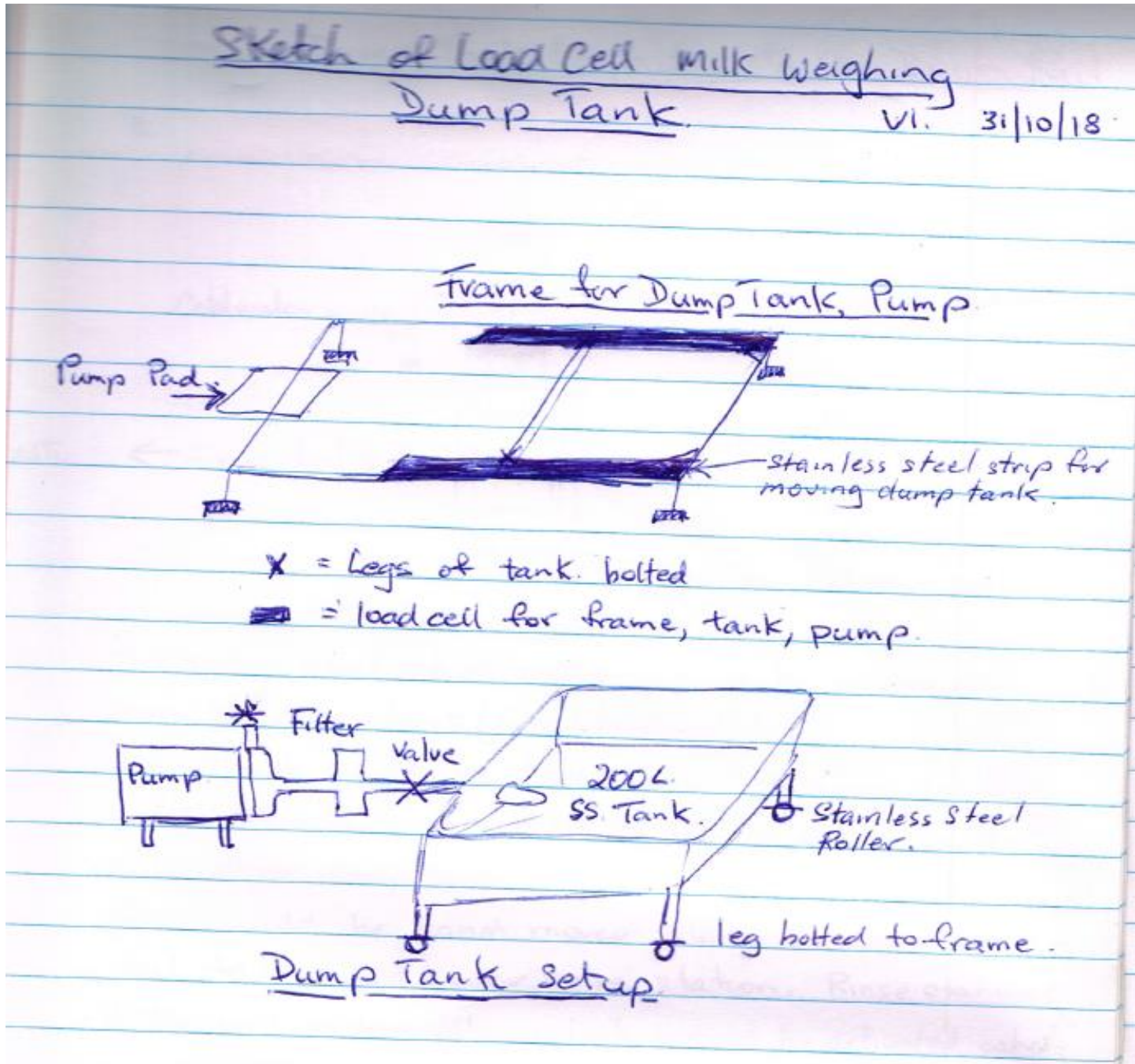
C) Dairy Laboratory Equipment and Reagents

1. pH meters
2. Alcohol guns
3. Measuring cylinders for standardizing alcohol
4. Peroxide strips
5. Calibrated lactometers and 5 of them should be of the gerber type
6. Brushes for cleaning laboratory equipment
7. Ethanol of 98% and above in concentration
8. Five lactoscans

D) 100 aluminium or stainless steel milk cans with each being of 50 litre capacity

E) Milk Dump Tank

Specifications (see drawing here below



- F)** Proposed construction of Oldonyio-Lenkai Irrigation Development Project at in Kenyewa-Poka location, Kajiado East-Sub County, Kajiado County.
- G)** Proposed construction of Simba ECD Irrigation Development Project at in Kenyewa-Poka location, Kajiado East-Sub County, Kajiado County
- H)** Two 30 KVA generators complete with canopies (sound proof), automatic transfer switch.
- I)** 500 litre Solar water heaters

Interested firms may download further instructions and detailed terms of references from the link:
<https://emalidca.org/current-tenders>

Tender documents should be dropped in our tender box at the guards' room next the main gate of ChildFund Kenya Office, on Waiyaki way, near Park Inn hotel by Radisson, Westlands, Nairobi by 5.00 pm on or before 28th February 2019.