



ಸಂ. /No. CFTRI /74203/20-21

ದಿನಾಂಕ / Date: 08th March, 2021

NOTICE INVITING TENDER

ಕ್ರಮ ಸಂ. Sl. No.	ನಿವಿಧಾ ಸಂದರ್ಭ Tender Reference	ವಿವರಣೆ / Description
1	CFTRI/74203/20-21	Body building for Mobile Demonstration Unit – 1No.

1. Director, CSIR-CFTRI, Mysuru invites offline tenders in two bid system (Technical and Commercial in two separate cover kept in one cover superscripted as tender for.....) for supply, installation & commissioning and satisfactory demonstration of Body building for Mobile Demonstration Unit – 1No.
2. Last date for submission of Tender **by post/courier** is 2.00 P.M. (IST) on 23 /March/ 2021
3. Bid Opening at 3.30P.M(IST) on 23/March/2021
4. EMD: Nil, Bid Security Declaration Form (As per Annexure-4 must be attached along with technical bid)
5. Bidder has to submit Non-applicability of exclusion form restrictions under Rule 144(xi) of GFR-2017 (Format enclosed with tender documents)
6. This tender is open for Purchase Preference to Make in India and MSME, Bidder must upload class I/class II self-certification Format along with Technical Bid.

Uthrauk
.. 08/03/2021

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Technical Specification

BODY BUILDING FOR MOBILE DEMONSTRATION UNIT

CSIR- Central Food Technological Research Institute, Mysuru is working on development of *Mobile Demonstration Unit for Tomato Processing* to showcase Tomato processing techniques to farmers (on-site) and encourage them to take up value addition, by converting raw materials into semi-finished or finished products, particularly during excess production. The scope of work includes body building on a vehicle Chassis with Cowl (Eicher make, PRO 3009 LAC) provided by CSIR-CFTRI for which detailed specifications are given in Annexure 1. Though the unit is mainly for handling tomato, it should be versatile enough to replace the equipments with other suitable equipments. The conceptual layout drawing is provided in Annexure-2. The mobile unit should have 3 major sections namely, Cabin, Kitchen/Lab and Equipment section.

Payload max : 4 to 6 MT

GVW : 10 MT

Overall dimension of the size should be as per Government Norms (RTO)

CHASSIS:

Chassis will be provided from CFTRI, cross section and other structural supports to be built on that chassis to withstand a payload of at least 6 MT (Equipment mounting). The overall vehicle size to be as per RTO guidelines. GI plate of suitable thickness to be provided on the top surface of support structure to the equipment section.

EQUIPMENT SECTION:

The equipment section will have different processing equipment (supplied by CFTRI) mounted on the support structure provided on chassis. The fixing arrangement should be such that equipment can be replaced with others to accommodate different processing line. However, the fixture should be firm enough to withstand all forces acting during transport or operation. As water is extensively used, provision should be, made for quick draining of water from this section. And, the floor in this section shall be non-slippery.

The sides of rear wall of equipment section to be of flip open type, top portion to have lever and hinge system open up with suitable locking systems, while the bottom portion should have support at the bottom with necessary height adjustment mechanism and collapsible railing all around (as indicated in 3D image attached, Annexure 3). The sheet provided to the wall to be strong enough to withstand the load of people standing (approx. 600 – 700kg) on them during working. The metal frame structure to be of MS, outer sheet to be aluminum and inner portion to be AISI 304. The outer sheet of walls to be compatible for graphic work and also withstand environmental condition (heat, rain, wind etc.)

Electrical conduits and wires to be provided (concealed) to all equipment points and be connected to a central panel in equipment section. Total installed load is approximately 70-80 kW (3ph). All safety features to be build in to take cover of electrical, fire emergency. All equipments to be provided with individual control switches/indicators. Fire extinguisher, first aid kit to be provided. Water line to be provided in the equipment section with water connection points/taps and line to be connected to water tank (500 L, Stainless Steel, rectangular with shorter height) to be provided on the top of the vehicle.

