



सीएसआईआर-केंद्रीय खाद्य प्रौद्योगिक अनुसंधान संस्थान  
CSIR- CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE  
मैसूरु / MYSURU-570 020, भारत / INDIA

(Constituent Laboratory of CSIR, New Delhi (Ministry of Science & Technology)  
An ISO 9001:2008, ISO 14001:2004 & ISO 17025:2005, NABL Accredited Laboratory

**Corrigendum: Tender for Body Building for Mobile Demonstration Unit**

**Corrigendum Title: Revised Technical Specification based on PBC**

**Tender Ref: A3/74203/20-21 Date: 12-01-2021**

**Tender ID: 2021\_CSIR\_66881\_1**

The revised final specification based on the discussion in Pre Bid Conference held on 20-01-2021 @ 10.30A.M. at Purchase Committee Room, CSIR-CFTRI Mysuru through Video Conference enabling equal opportunity to all OEMs has been incorporated and given below as revised specification to the original tender specification. All bidders are requested to take cognizance of the revised specification and submit their bids accordingly on or before 02.00 p.m. on 09/February/2021.

The Firms who has already submitted their offer may resubmit their offer as per our revised final technical specification.

# Revised 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.

The equipment section to be illuminated with LED bulbs and additional 4-6 electrical power points (15A, 5A) to connect gadgets like computer, LED monitors, Freezer, etc. to be provided. All joints to be sealed to prevent accumulation of food particles, dust and growth of microbes.

**Detachable universal mounting brackets for placing different type of equipments in two rows (~250-300 kg load on bracket) to be provided in the equipment area.**

#### CABIN:

The cabin to be built with premier quality material in standard way with driver/ co-passenger seat and sleeper berth facility. Sliding door and wide viewing window to view kitchen and equipment area is to be provided. It should have all other general facilities like audio system, storage boxes, etc. Door to be provided for movement between kitchen and cabin

#### KITCHEN/LAB AREA:

All the inner surface of Kitchen/ Lab area should be built with stainless steel and flip open type side wall as in the 'equipment's area' is to be provided. Door between cabin and equipment area is to be provided. The dimensions of the door between cabin and kitchen should be sufficient for movement of people, but the door between equipment area and Kitchen should be big enough to move coolers/freezers etc. Proper fittings should be provided to place the kitchen items and laboratory apparatus. Kitchen/ Lab area must have AC facility with separate control for turning AC On/Off. Power for AC as to be provided from Engine. To be provided with SS tables, sink and wall mounted storage box. Fixed with LED bulbs for illumination. Fitted with chimney/hood to take out exhaust. Provided with electrical points/ switches (6-7 nos. 15A and 5A) for connecting induction heater/ microwave oven/ mixer/ grinder/ instruments, etc.

**Approval for the detailed design drawings and 3D views of mobile unit as well as individual sections to be taken from CSIR-CFTRI before commencing fabrication work.**

# Annexure 1

(Vehicle Readily Available at CSIR – CFTRI)

## CHASSIS SPECIFICATIONS

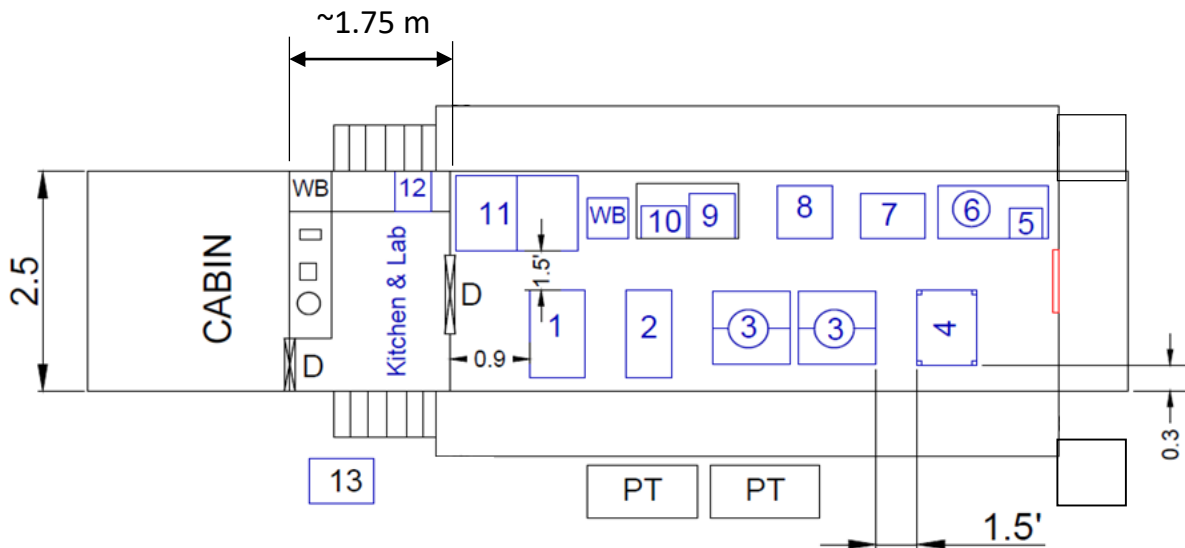
Company	: EICHER
Model	: Skyline Pro 3009 L
GVW	: 10000 kg
Kerb Weight	: 2660 kg
Wheelbase (mm)(inch)	: 5260 (207")
Front Overhang (mm)	: 2001
Rear Overhang (mm)	: 3134 (60%)
Overall Length (mm)	: 10395
Overall width (mm)	: 2345
Overall Height (mm)	: 2863
Engine Make	: E494 CRS BS IV (direct drive AC)
Displacement in cc	: 3770
Power	: 134HP@ 2600rpm
Torque	: 440Nm @ 1400- 1600rpm
Clutch	: 310 mm dia with clutch booster
Transmission Make	: ET40S6
Type	: 5 speed synchromesh
Chassis Dimension (L X W X H)	: 180X65X5 (mm)
Brakes	: Dual Circuit 'S' cam full air brakes
Tyres	: 235/75R17.5-14 PR Tubeless
Suspension	: Parabolic



Steering	: Power steering, tilt and telescopic
Battery	: 12V, 130Ah (2 nos)
Alternator	: 24V, 75 Amps + 120 Amps(2 nos)
Fuel Tank Capacity:	160 Ltrs
Others	: AC-Eberspacer 31 kw/8.86 T
Load on Front Axle	: 3700 kg
Load on Rear Axle	: 6300 kg

## Annexure 2

# Draft Layout



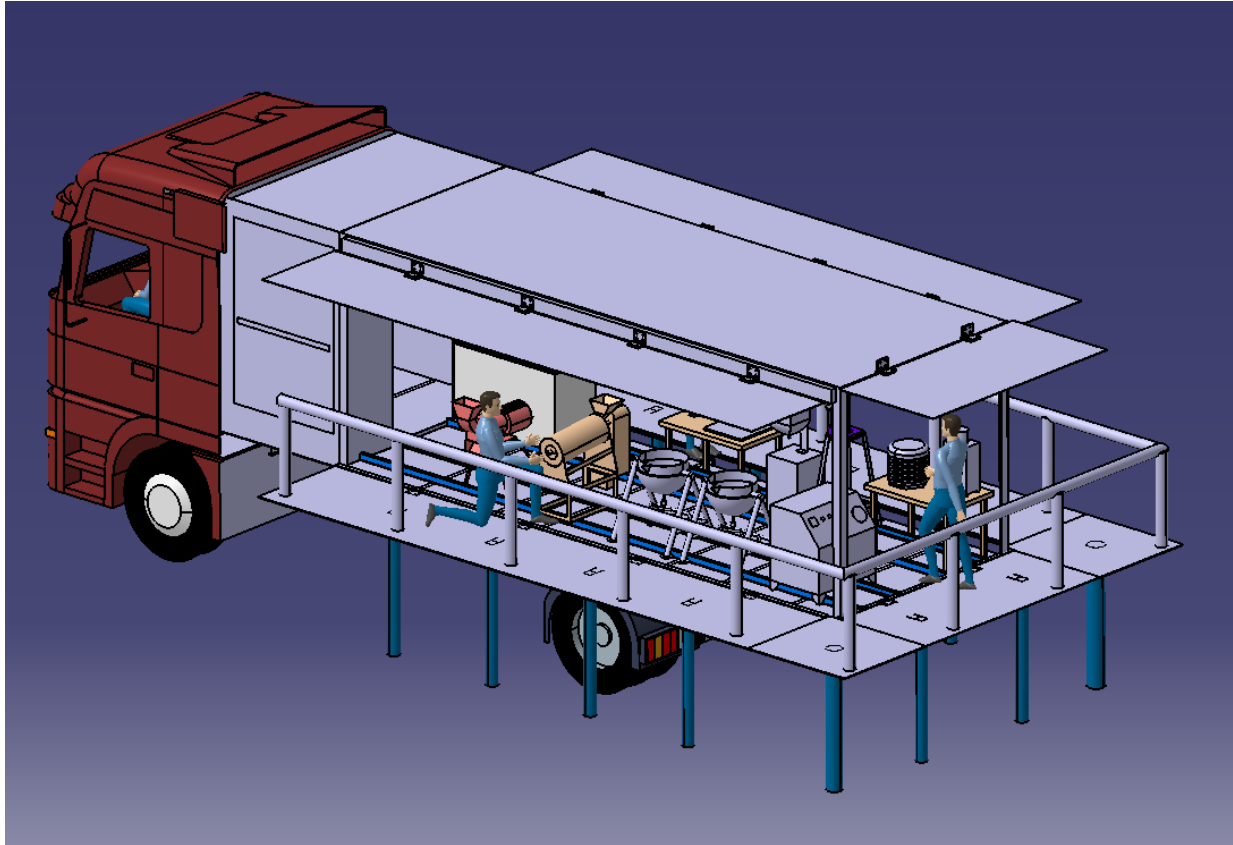
1-13 Equipments (Not in firm's scope supply)

### Note:

- Control panel should be provided to connect to the external power source/DG set.
- Electrical Boards at equipment places should be provided.
- Power for Fridge, Cooler, AC and light has to be provided from engine.

## Annexure 3

### Mobile Demonstration Unit



Signature

For CSIR-CFTRI, Mysuru

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Date: 29/01/2021