

TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

NAME OF THE ITEM	QUANTITY
BIOMASS SHREDDER	1
BRIQUETTE MACHINE	1

1. **INSTALLATION, COMMISSIONING AND TRAINING**

- 1.1. The ordered goods are required to be installed within 15 days of receipt of goods at final destination. Installation should be carried out only by expert engineers of Supplier / Manufacturer. During the course of installation, necessary training on operation and maintenance of the goods shall be imparted to Institute's Scientist / Engineers/Technicians.

2. **WARRANTY**

- 2.1. Comprehensive on-site warranty for **one year** must be provided to be effective from the date of completion of installation and commissioning and/or final acceptance of the items / equipment at the final destination

NOTE : THE LOWEST EVALUATED RESPONSIVE BIDDER SHALL BE DETERMINED ON OVERALL LOWEST LANDED PRICE BASIS FOR ALL THE ITEMS

## Annexure-I

### **Supply, Installation, Testing, Commissioning and Trial run of (a) Biomass shredder, and (b) Briquette Machine at Community Development Action and Reflection, Tuirial Airfield, Zemabawk, Aizawl, Mizoram-796017**

#### **1 End user:**

The Biomass shredder and Briquette machine will be installed at Community Development Action and Reflection, Tuirial Airfield, Zemabawk, Aizawl, Mizoram-796017. The farmers of Mizoram will be utilizing the facility for production of briquettes from locally available biomass which will be used in solar-biomass hybrid dryer for post-harvest processing of fish. The operation and maintenance of the equipment items will be done by Community Development Action and Reflection, a local NGO of Mizoram. This is in-line with the deliverable proposed in the DST funded project on "Development of Solar-Biomass Hybrid Self-sustaining Fish Processing Unit for Livelihood Upliftment of Economically Disadvantaged People of Mizoram".

#### **2 Detailed specification:**

##### **a) Biomass shredder**

Input material: Agro waste (Dry leaves, wood, paddy straw etc.) with maximum dia. 3 inch

Capacity: 100-150 kg/h

Motor: 7.5 hp, 3  $\Phi$  with DOL starter

Drum diameter (minimum): 300 mm

Working width (minimum): 400 mm

Shredding size: < 5 mm

Blade: 2 set (extra)

##### **b) Briquette machine**

Input material: Shredded agro waste (Dry leaves, wood, paddy straw etc.) with maximum size 5 mm

Binder material: Cow dung/ Paper pulp etc.

Production capacity: 50-60 kg/h

Motor: 3 hp, 3  $\Phi$  with DOL starter with gearbox of Gear Ratio-1:6

Finished Good Diameter: 25-40 mm ( $\pm$  20%)

Finished Good Shape: Cylindrical

Finished Briquette Length: 100-250 mm (adjustable)

Sensor system to safeguard the machine from any mechanical failure

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16/10/2019

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16-10-2019

**Annexure-I**

**3 Scope of supply & incidental services:**

- a) Biomass shredder, and
- b) Briquette machine.

Detailed specification as Provided in Section 2 above

The supplier shall be required to perform the following services:

- a) Installation & Commissioning, Supervision and Demonstration of the goods;
- b) Providing required jigs and tools for assembly required for the completion of the installation;
- c) Onsite training to Scientists/ Technicians/ Staff is to be provided by Supplier for operation and maintenance of the equipment to the complete satisfaction of the user department;
- d) All safety requirements are to be incorporated.

**4 Inspection and Acceptance Tests required:**

Trial run and full load test will be conducted for 2 days to the complete satisfaction of the end user in the presence of Scientists/Technical Officers from CSIR-CMERI.

**5 Minimum Pre-Qualification Criteria:**

None

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