

## TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

SI No.	Description of items	Quantity
PUR/101/ERT/MP/E/2020-21		
1	<b>SUPPLY &amp; INSTALLATION OF ROTARY TROMMEL</b>  a) 150 – 200 kg/h, and b) 250 – 300 kg/h	3 Nos.  1 No.

### 1. INSTALLATION, COMMISSIONING AND TRAINING

- 1.1. The ordered goods are to be installed within 15 days of receipt of goods at CCDU, PHED, (Opp. To CBI Office), Govt. of Manipur, Lamphelpat, Imphal West, Manipur- 795004. Installation should be carried out only by expert engineers of Supplier / Manufacturer at Free of Cost basis. During the course of installation, necessary training on operation and maintenance of the goods shall be imparted to Institutes Scientist / Engineers/Technicians.

### 2. WARRANTY

- 2.1. Comprehensive on-site warranty for a period of one year must be provided to be effective from the date of successful Installation, Commissioning and Training and final acceptance of the items / equipment at the user's laboratory / Institute.

### 3. PERFORMANCE SECURITY

- 3.1 10 % of the Invoice Value.
4. OEM must be an ISO 9001 : 2015 certified organization. A copy of the ISO certificate to be enclosed with the bid. Bidders [OEM or their authorized agents] shall be disqualified in case they fail to furnish the relevant ISO certificate.
5. GST Concessional Certificate will not be issued by this Institute.

### Specification

a) Rotary Trommel, Capacity: 150-200 kg/h, Qty.: 03 Nos.

Sl. No.	Description	Specification
1	Material to be screened	Compost
2	Capacity	150-200 kg/h
3	Screen RPM	45 - 60 RPM
4	Separation	Oversized & Undersized
5	Screen size	Dia.: Ø4 mm; Wire thickness: 1.0 mm
6	Screen material	Stainless Steel Net
7	No. of feed points	1 No.
8	Feeding Point (Elevation)	1.20 m (+GL)
9	Delivery Point	0.75 m (+GL)
10	Discharge hoppers	One side along the length
11	Dimension of Trommel	Dia. 600 mm × 2500 mm
12	Inclination	5 degree
13	Shaft	Pipe Dia.: Ø50 mm (min), Thickness: 2.0 mm; Length: 2700 mm (min), MOC: MS
14	Bearing	Roller Bearing; Make: SKF/NTN
15	Motor	2 hp, Single phase, 230V, 50 Hz, 1440 RPM; Protection: IP55 with DOL starter, Make: Crompton/ABB/BBL
16	Gear Box	1:10; Helical; Make: PBL/ELECON/STANDARD
17	Structure	Fabricated from ISMC (80×40×5 mm), ISA (50×50×6 mm)
18	Chute (Inlet & Outlet chute)	Fabricated from 2.5 mm thick MS Sheet
19	Inclined roller conveyor (Feeding Conveyor)	Length → 2000 mm Belt width → 300 mm Type of belt → Canvas/Rubber coated Thickness of belt → 5.0 mm Start of conveyor → +300 mm from Ground level Delivery of conveyor → +1500 mm from Ground level Angle of Inclination → 35-40 degree Spacing of bucket → 300 mm (AISI304) Dimension of bucket → 250 mm×200 mm (AISI304) Side guard → 250 mm Motor → 1 hp, 1 phase and 1:25 Gear Box Structural Frame → Hollow Square Pipe (50 mm × 3 mm)

N.B.: Please refer Figure-1 as conceptual model

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09/08/2020

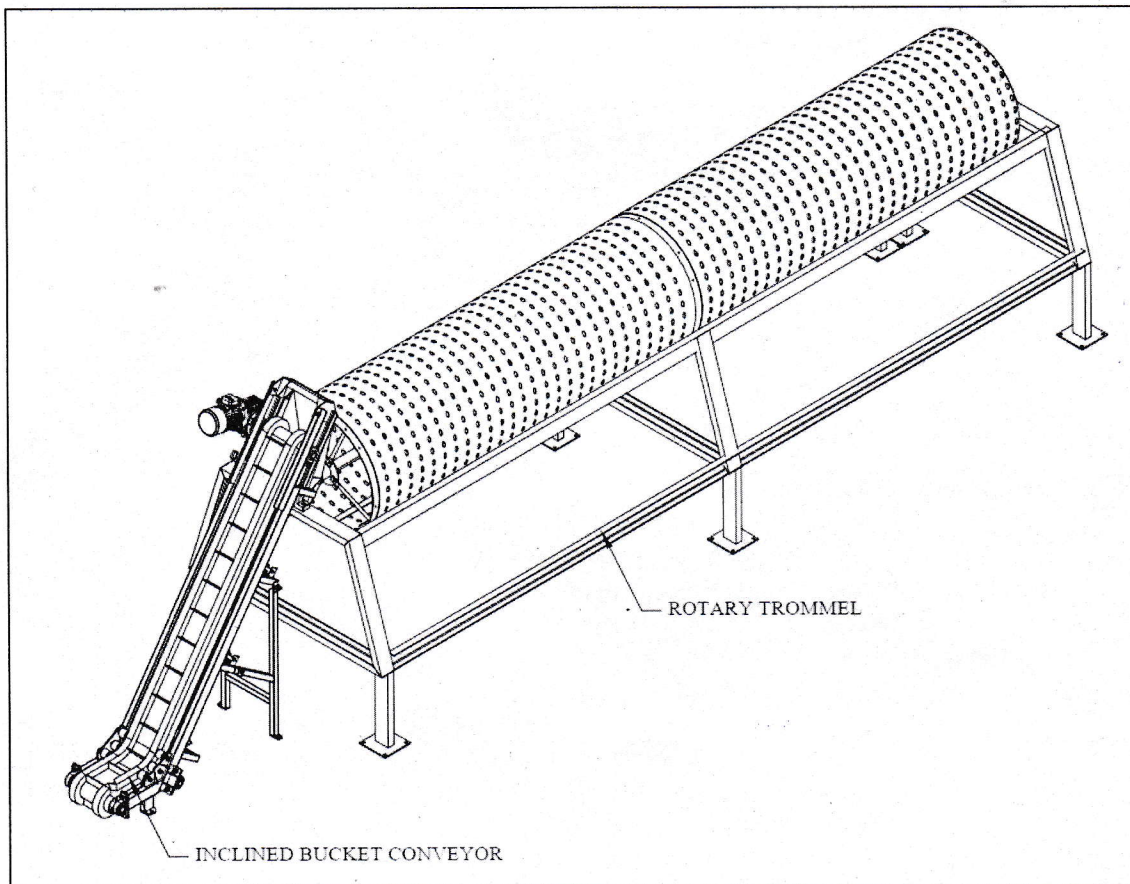


Fig-1: Rotary Trommel with Inclined Conveyor

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09/08/2020



**b) Rotary Trommel, Capacity: 250-300 kg/h, Qty.: 01 No.**

Sl. No.	Description	Specification
1	Material to be screened	Compost
2	Capacity	250-300 kg/h
3	Screen RPM	45 - 60 RPM
4	Separation	Oversized & Undersized
5	Screen size	Dia.: Ø4 mm, Wire thickness: 1.0 mm
6	Screen material	Stainless Steel Net
7	No. of feed points	1 No.
8	Feeding Point (Elevation)	1.20 m (+GL)
9	Delivery Point	0.75 m (+GL)
10	Discharge hoppers	One side along the length
11	Dimension of Trommel	Dia. 600 mm × 3000 mm
12	Inclination	5 degree
13	Shaft	Pipe Dia.: Ø50 mm (min.), Thickness: 2.0 mm; Length: 3200 mm (min), MOC: MS
14	Bearing	Roller Bearing; Make: SKF/NTN
15	Motor	3 hp, Single phase, 230V, 50 Hz, 1440 RPM; Protection: IP55 with DOL starter, Make: Crompton/ABB/BBL
16	Gear Box	1:10; Helical; Make: PBL/ELECON/STANDARD
17	Structure	Fabricated from ISMC (80×40×5 mm), ISA (50×50×6 mm)
18	Chute (Inlet & Outlet chute)	Fabricated from 2.5 mm thick MS Sheet
19	Inclined roller conveyor (Feeding Conveyor)	Length → 2000 mm Belt width → 300 mm Type of belt → Canvas/Rubber coated Thickness of belt → 5.0 mm Start of conveyor → +300 mm from Ground level Delivery of conveyor → +1500 mm from Ground level Angle of Inclination → 35-40 degree Spacing of bucket → 300 mm (AISI304) Dimension of bucket → 250 mm×200 mm (AISI304) Side guard → 250 mm Motor → 2 hp, 1 phase and 1:25 Gear Box Structural Frame → Hollow Square Pipe (50 mm × 3 mm)

**N.B.:** Please refer Figure-2 as conceptual model

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*09/08/2020*

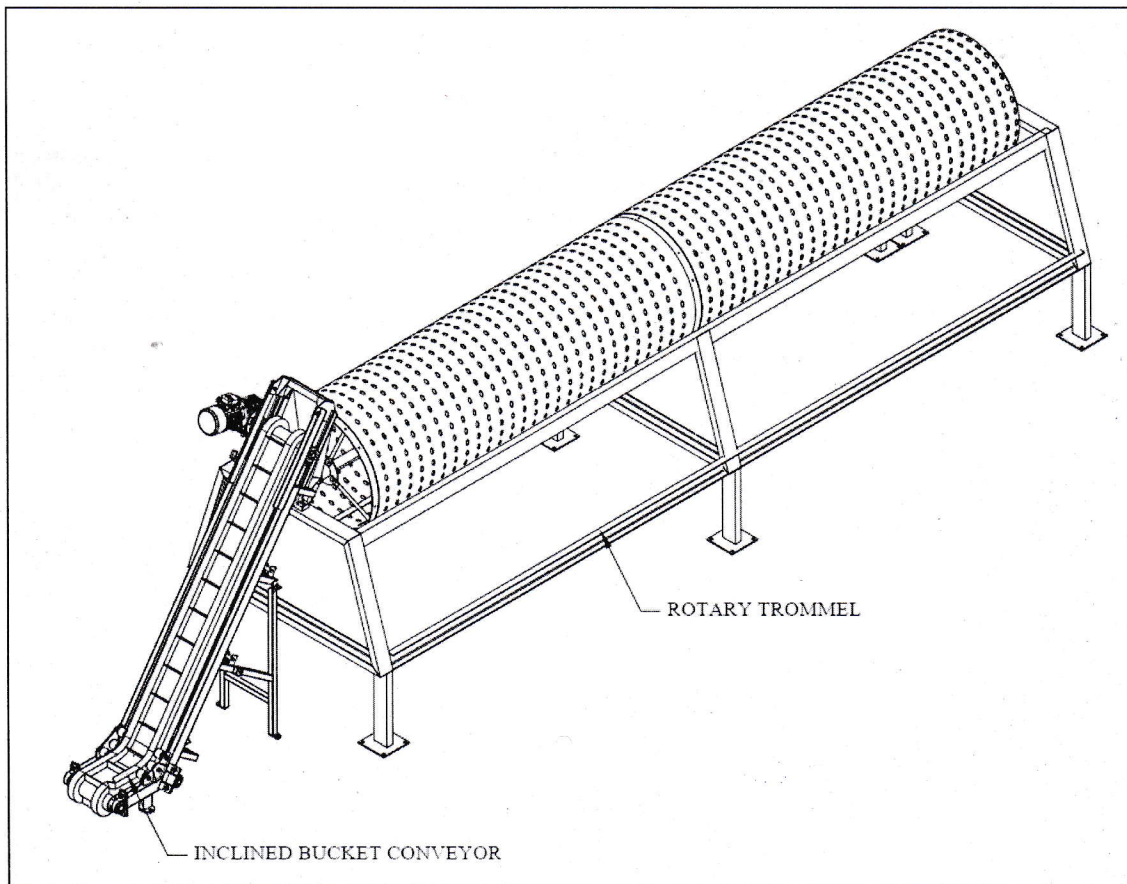


Fig-2: Rotary Trommel with Inclined Conveyor

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09/08/2020