

Scope & Special terms and conditions

Design, Fabrication, Supply, Installation, Commissioning and Warranty of Vermicomposting plant for 100kg capacity per day of Kitchen waste and Garden waste at BRIT, Vashi Complex, Navi Mumbai as per annexure-A, B & C.

Place of installation: BRIT, BRIT-BARC Vashi Complex, Sector-20, Vashi, Navi Mumbai-400703

Party will have to commission the entire facility within 25 sq.m plot available.

01. Facility Features

1. Shed:

- A) While designing the industrial shed, adequate pathways has to be left around the beds for easy movement of the labourers attending to the filling and harvesting the beds and designed should be for prevent wetting of beds due to rain on a windy days.
- B) Design of the facility consisting of the OWC (organic waste crushing) machine and the industrial grade pits as per site for the garden waste and the canteen waste. For site limitations please refer annexure –C. Layout also shows the tentative positions of the OWC machine and the pits. For protection of the facility, fabricator shall design the industrial grade shed. Shed shall be as per attached photograph.
- C) Industrial Shed on site for bio-composting pits should be corrosive resistant, should have adequate electrification such as power supply, light, power point, panel etc (as per required)

2. Fencing and Roads/Paths:

- A) The site area (~25sq.m) for the vermicomposting plant needs development for construction of structures and development of roads and pathways for easy movement of hand-drawn trolleys/wheel barrows for conveying the raw material and the finished products to and from the vermisheds. The entire area should to be fenced to prevent trespass by animals and other unwanted elements.
- B) Shed should be well ventilated & covered with perforated fence for protect of culture media, such as worm etc.

3. Plinth:

Facility should have one metre height of plinth. Fabricator shall design the facility as per requirement & site condition.

4. Vermi-beds:

- A) The beds should be designed as per propose reference layout design in annexure-C. Bidder has to design layout as per his own proposal. The beds should have provision for drainage of excess water.
- B) As the beds have to be kept moist always with about 40%-50% moisture content, there is a need to plan for a water source, lifting mechanism and a system of conveying and applying the water to the vermi-beds.

5. Protection from Pests:

The earthworms must be protected from pests like rats, termites, birds, ants, etc.

- 6. Approval of the design from the indenter required prior to fabrication, installation & commissioning of the facility.
- 7. Party has to submit primary layout along with the bid with maximum technical details.
- 8. Fabrication and Supply of OWC machine (used for reduction of wet waste volume).

