



**KALA Environmental Solutions**

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**kirloskar**  
Oil Engines

**To,  
Choice Group,  
Tingarenagar, Pune 411032**

**Kind Attention: Mr. Ajinkya.**

**Subject: Micro-Organism based 24 Hrs Fully Automatic Kirloskar i land (Organic Waste Solution)  
KI-250 250kgs per Day**

Respected Sir,

This is with reference to your inquiry regarding purchase of 250kg Kirloskar i Land Organic Waste Solution.

Firstly, we would like to extend our gratitude for your evincing interest shown on our products. We are hereby delighted to submit our proposal for the subject product.

Kirloskar Oil Engines Limited is India's leading manufacturer of diesel engines and generating sets. It has a State of Art manufacturing facilities located at Kagal, Nashik and Rajkot (India).

Kirloskar Care is the biggest service network in the country for Genset and Industrial Engines. Over 6000+ service personnel available on call for 24X7 response.

We, **KALA Genset** are an authorized dealer of Kirloskar i Land in India.

Efficiency Integrated is the essence of our core and Kirloskar iLand continues the same, by offering efficient product

With this endeavor, we look forward to build a long-lasting relationship with your esteemed organization.

We are pleased to offer you the most competitive proposal that is best in town.

We look forward to your valuable feedback. For any clarification, kindly get in touch with us.

Thanking you,

Yours faithfully,  
Nikhil Barhalikar  
9545556214



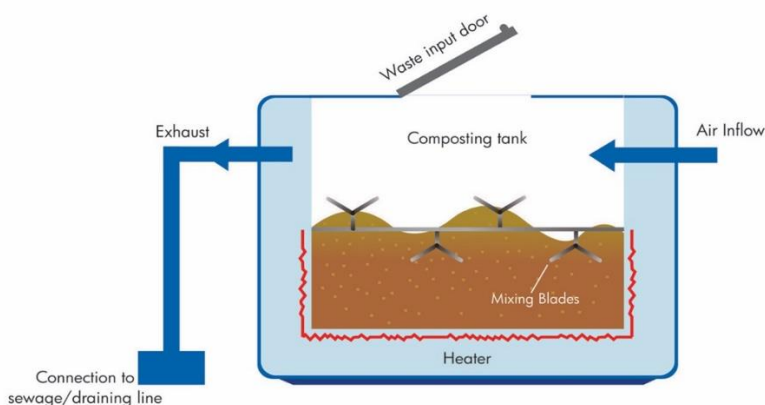
## INDEX

	Page No.
Annexure 1: Working of Kirloskar <i>i</i> Land	01
Annexure 2: <i>i</i> am the change	02
Annexure 3: Features of Kirloskar <i>i</i> Land Machine	03
Annexure 4: Technical Specifications	04
Annexure 5: Civil Work & Site Preparation	05
Annexure 6: Commercial Terms & Conditions	06

## Annexure: 1

### ■ Working of Kirloskar iLand

- The 24 Hrs Composting Process in India, is pioneered and developed having a great combination of Bio-Technology and Engineering.
- The process is completely natural and biological which is achieved by in-vessel composting wherein perfect mixing, heating and ventilation cycle is achieved. This perfect mixing, heating and ventilation is achieved by PLC having proprietary software.
- Highly compact design with sensors monitoring temperature, humidity and aeration thus creating most favourable conditions for consortium of four different types of thermophilic bacteria.
- These Thermophilic bacteria break down and decompose all kinds of organic waste into compost within 24 hrs with volume reduction of 85-90 %.
- Perfect compost is produced when a good input organic waste is added into the machine. As we are not using any chemicals it is a completely natural and biological process.
- Kirloskar iLand consists of rotating blades connected to the shaft, which homogeneously mix the organic waste. Blades rotate at 2 rpm (2 revolutions per minute). As there is no crushing or grinding the machine is completely noiseless .
- When Organic Waste is added to the machine, the moisture in the organic waste is sensed by the humidity sensor and the machine goes into power mode. In the power mode, the PLC gives a signal to the geared motor for rotating clockwise and anticlockwise. Simultaneously the PLC gives signal to the heater, due to which heater turns ON and the composting tank gets heated. Due to this, the excess water content in the organic waste is evaporated and passed away in the form of water vapour through the exhaust system.
- As any waste contains 70-80% water content, we achieve 70-80% volume reduction at this stage. At the same time our thermophilic microorganisms decompose the organic waste into compost within 24 hours. This is how we achieve 85-90% volume reduction.



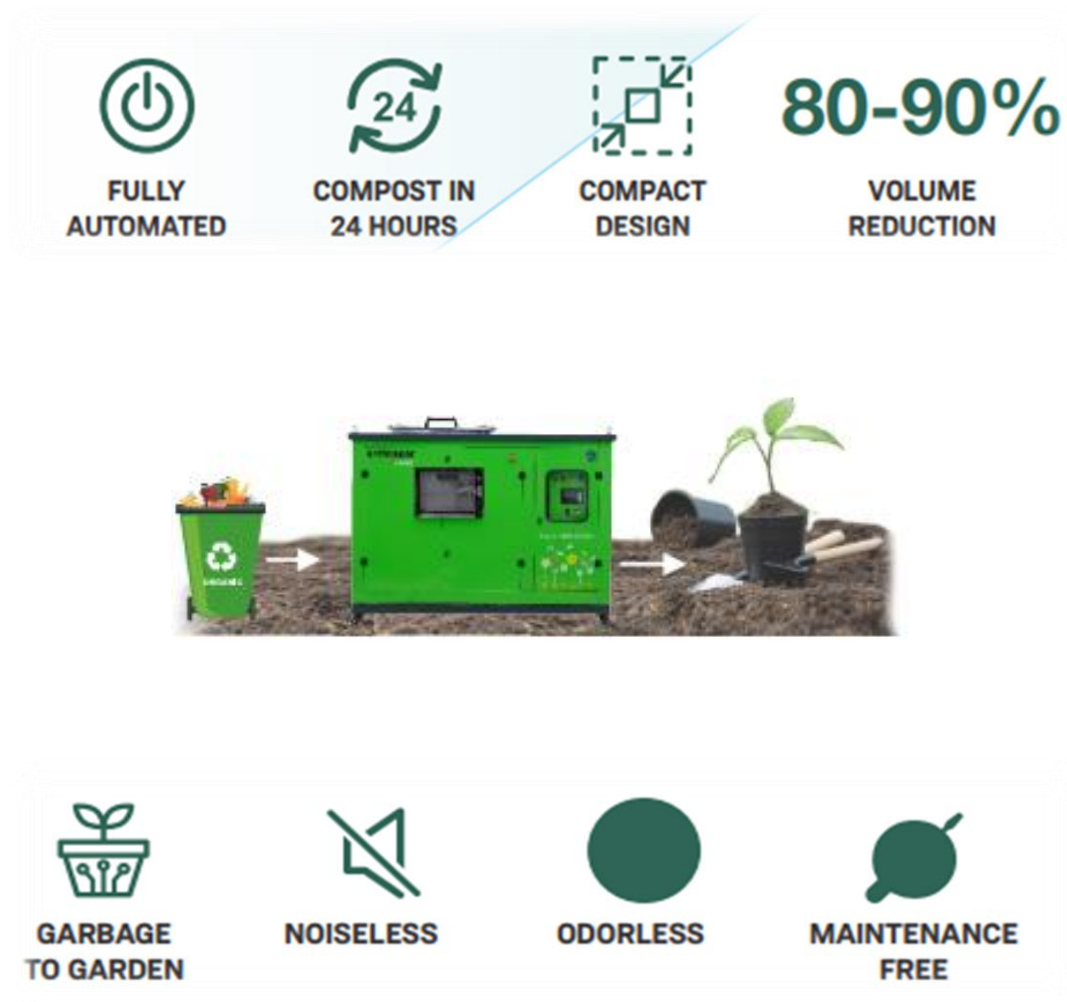
## Annexure: 2

### ▪ 'i am the Change' CONTRIBUTION TO ENVIRONMENT



### Annexure: 3

#### ■ Features OF Kirloskar iLand Machine



**Annexure: 4****■ TECHNICAL SPECIFICATIONS OF KIRLOSKAR iLand MACHINE 250 KGS PER DAY**

DESCRIPTION	KI-250
Description of Machine	An intelligent organic waste Composting Machine, which converts any organic waste into compost within 24 hours
Per day waste processing capacity (In Kgs)	<b>200 - 300</b>
Machine Dimensions (l x b x h) in ft.	8.5 x 4.5 x 6
Machine Weight (in Kgs)	1400
Machine Volume (in Ltrs)	1700
Processing Time	24 Hours
Waste Input	Segregated Organic Waste
Output of Product	Dry Organic Compost
Volume reduction	80-90 % of total input waste
Compost Generated (per day)	10-20% of total input waste
Shaft & Blades	High Quality (SS) Shaft with superior quality mixing
Machine MOC (Machine Outer Cover/Canopy)	Comprising of CRCA Powder Coated enclosure
Safety Measures	Motor & Blower OLR, Emergency stop switches.
Machine inner Tank, waste input door, Compost removal door	High quality Stainless Steel (SS)
Geared Motor (Geared Motor with reputed make)	1.5 KW
Heaters (Ceramic Heaters with heating element)	9 KW
Blower (Centrifugal exhaust Blower)	0.37 KW
Overall Power Rating of Machine	11 KW
Control Panel with built-in PLC, Switch gears	PLC based with touch screen HMI



MCB	High quality MCB of reputed make
Input Power Supply & Frequency	3 Phase (415-440 Volts) / 50 Hz
Bearing	High quality Bearings of reputed make

**Annexure: 5****■ Civil Work & Site Preparation:**

Sr. No.	Requirements for Installation	KI-250
1	Power Rating	11 KW
2	MCB	25 A, 4 Pole
3	Wire : Copper flexible cable	Size 6 sq.mm x 4 core
4	Voltage	415 - 440V
5	PCC Dimension	18 x 13.5 x 0.5 Ft
6	Machine Dimension	8.5 x 4.5 x 6.0 Ft
7	Exhaust Pipe	4 inch PVC
8	Floor Area	250 Sq Ft
9	Roof Shed Dimension	18 x 13.5 x 10 Ft

**■ Compost Usage**

- The quality of compost depends on the quality and mix of organic waste. If the input organic waste is imbalanced, then the output compost will also be imbalanced. The Kirloskar iLand itself does not produce any nutrients/parameters of the compost and the machine is like an incubator, creating perfect conditions for the microorganisms to grow, which decompose the organic waste and convert it into compost. Therefore, for good quality compost as per SWM Rules 2016, it is imperative to have balanced organic waste.
- The compost is a soil additive and provides nutrients to the plants just like any other manure/fertilizer. The proportion of compost from Kirloskar iLand should be in apt quantity. It is highly recommended to use the compost after storing it for 3 weeks+, as it further matures.
- For using the compost immediately after removal, please add small quantity. While adding remove the top soil, and add in the ratio of 1:5 or 1:10 in proportion to the top soil. Mix well with the top soil and spread evenly around the plant.
- Sodium Bicarbonate (SBC) is recommended to be added once in a 6-7 days (depending upon season or type of waste) in Kirloskar iLand specifically for maintaining pH and electrical conductivity of output compost within permissible limits. For all other parameters of compost to be within range, no additives or stabilizers are required to be added in Kirloskar iLand.
- Dosage of pH stabilizer Sodium Bicarbonate for Kirloskar iLand:

Kirloskar iLand	Kirloskar iLand	Amount of SBC (in Kg)
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Machine Model	per day processing capacity	required every 7 days
KI-250	250 Kg	20

**Annexure: 6**

▪ **Price :**

Unit Price **KI-250** (Capacity-250 Kg/Day) : Rs. **8,35,000/-**

▪ **Terms & Conditions :**

1. GST: EXTRA (Current applicable rates are 12%)
2. Transportation : included
3. Crane & Unloading Charges : client scope
4. Payment : 50% Advance, 40 % before dispatch & Balance 10 % after delivery
5. Delivery Term : 4-6 weeks from the date of receipt of PO & advance payment
6. Warranty Terms : 1 Year from date of Installation & Commissioning
7. Commissioning : Included
8. Validity of Quote : 30 days





## ▪ BANK DETAILS

### ▪ PREPARE ADVANCE ON THE FOLLOWING DETAILS:

- NAME OF ORGANISATION : KALA GENSET PVT LTD
- ADDRESS : GAT NO 392/1,  
MAHALUNGE INGLE CHAKAN TALEGAON ROAD TAL - KHED PUNE- 410501
- PAN NO : AAACK6784C
- GST TIN : 27AAACK6784C1ZH
- BANK NAME : STATE BANK OF INDIA
- BRANCH : INDUSTRIAL FINANCE BRANCH PIMPRI
- ACCOUNT NO : 30089015513
- IFSC CODE : SBIN0004523

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