

## COMMERCIAL TEST REPORT

No.	: PH-294/503/2024
Month	: December, 2024
Valid till	: 03 December, 2031



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**M/s. BOSS MACHINERY WORKS**  
**Coconut Dehusker - 2 hp**

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**FARM MACHINERY AND POST- HARVEST MACHINERY & EQUIPMENT TESTING CENTRE**  
**REGIONAL STATION**

**ICAR - CENTRAL INSTITUTE OF AGRICULTURAL ENGINEERING**  
**COIMBATORE - 641 007, TAMIL NADU**

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PH-294/503/2024	M/s. Boss Machinery Works Coconut Dehusker - 2 hp	Commercial [ICT]
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**MANUFACTURER**

: M/s. Boss Machinery Works,  
1/8-Vaiyapuri Nagar, Valiampalayam,  
Sathy Road, Saravanampatty Post,  
Coimbatore - 641 035, Tamil Nadu.

**APPLICANT**

: M/s. Boss Machinery Works,  
1/8-Vaiyapuri Nagar, Valiampalayam,  
Sathy Road, Saravanampatty Post,  
Coimbatore - 641 035, Tamil Nadu.

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Machine dimension (L × W × H), mm	:	1795 × 840 × 955
Machine capacity, nuts/h	:	800 - 900 (as specified by manufacturer)
Weight of the Machine, kg	:	240
Colour of the machine	:	White

#### **4.2 POWER UNIT**

Provision & Type	:	Electrically/ Power/ Motor operated & Belt pulley
Type of prime mover	:	Electrically operated 2 hp ISI AC induction motor with capacitor starter
Motor power, hp	:	2
Motor phase	:	Single phase
Type of drive	:	Gear and chain drive with gear box through shaft

#### **4.3 MAIN PARTS OF COCONUT DEHUSKER - 2 hp**

##### **4.3.1 Inlet and outlet**

Feed inlet height, mm	:	300
Feed inlet width, mm	:	283
Coconut discharge Length, mm	:	275
Coconut discharge height, mm	:	340
Husk discharge Length, mm	:	275
Husk discharge width, mm	:	340
Thickness of sheet	:	1.2
Construction details	:	The feed inlet is made by fixing two MS sheet of (1.2 mm thickness) with the machine cover sheet. The husk discharges of dehusked coconuts with crown.

##### **4.3.2 Spike Tooth Assembly**

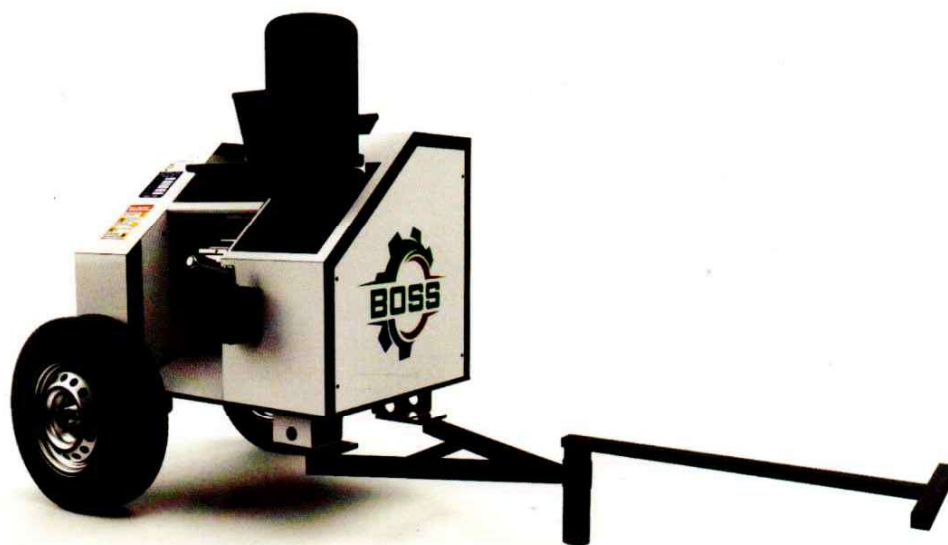
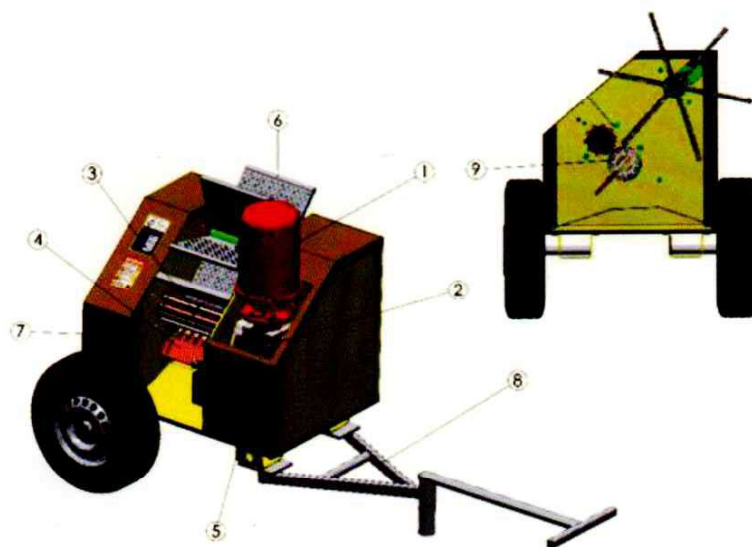
No. of spike tooth	:	8
Teeth thickness, mm	:	8
Teeth length, mm	:	37.3
Teeth Width, mm	:	16
Teeth assemble overall (L × W), mm	:	280 × 100
Construction details, mm	:	Spike tooth is made up of mild steel bar of (8 thickness) which is sharpened at one end. It helps in holding the husk coming out from coconuts and prevent husk going inside the shafts again. L angle (50 × 50) of 5 mm thickness is welded to spike tooth assembly.

##### **4.3.3 Shafts**

###### **4.3.3.1 Paddle Shaft**

No. of rotating paddles	:	6
Length of single rubber flap, mm	:	256

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**6. MACHINEDRAWING****Fig.1. Coconut Dehusker - 2 hp**

1. Motor; 2. Primary knife bar; 3. Sprocket teeth; 4. Secondary knife bar; 5. Coconut roller;  
6. Paddle shaft; 7. Machine frame; 8. Tow bar; 9. Spike tooth

**Fig.2. Exploded view of Coconut Dehusker - 2 hp**

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## TESTING AUTHORITY

Dr. Sadvatha. R.H.	Scientist & Test Engineer	 <b>Dr. Sadvatha R.H.</b> Scientist & Test Engineer (PHTC) Farm Machinery and Post Harvest Machinery & Equipment Testing Centre Regional Station, ICAR - CIAE Coimbatore - 641 007, Tamil Nadu.
Dr. Ravindra Naik	Principal Scientist & Senior Test Engineer	 <b>Dr. Ravindra Naik</b> Principal Scientist & Senior Test Engineer Farm Machinery and Post Harvest Machinery & Equipment Testing Centre Regional Station, ICAR - CIAE Coimbatore - 641 007, Tamil Nadu.
Dr.T. Senthilkumar	Principal Scientist & Testing Authority	 <b>Dr. T. Senthilkumar</b> Principal Scientist & Incharge Farm Machinery and Post Harvest Machinery & Equipment Testing Centre Regional Station, ICAR - CIAE Coimbatore - 641 007, Tamil Nadu.
Dr. Ravindra Naik	Head (I/c), Regional Station, ICAR - CIAE, Coimbatore.	 <b>Dr. RAVINDRA NAIK</b> Head ICAR-Central Institute of Agricultural Engineering Regional Station Coimbatore-641 007.

## 12. APPLICANT'S COMMENTS

Satisfied with the report.

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