



RUBBER RESEARCH INSTITUTE OF INDIA
Rubber Board
(Ministry of Commerce & Industry, Government of India)
Kottayam – 686009, Kerala, India
Phones: +91 481 2353311 (10 lines)
Email: rrii@rubberboard.org.in

Ref. No: 9/DR/RES/2021

07 January 2021

Shri. Ambar Koiri
Managing Director
Bholanth Precision Engineering
11 Kembros Industrial Estate
Bhandup (W), Mumbai – 400078

Sir,

This has reference to your email dated 07.01.2021 seeking clarification regarding organization that has mandate for testing and certifying machinery used in rubber plantations.

Rubber Board functioning under the Department of Commerce, Ministry of Commerce & Industry, Govt. of India, was established after the Rubber Act (1947). As per this Act of the Parliament, Rubber Board is mandated to promote development of the rubber industry by such measures as it thinks fit, undertake, assist and encourage scientific, technical and economic research, provide technical advice to growers, provide better working conditions to workers etc. As far as we know, there is no other agency in India that has got the above mandate or expertise to take up these functions.

Rubber Research Institute of India (RRII) was started in 1955 as the R&D Department of Rubber Board and since then it has been conducting R&D on all aspects of rubber cultivation, including, latex harvesting (tapping), post-harvest processing of latex and rubber products manufacturing. Testing and certifying of farm implements used in rubber plantations is routinely done by RRII following statistically valid methodology. Thus RRII tested the motorised rubber tapping machine supplied by you for one year and we found that this machine's performance was satisfactory in terms of latex yield. Moreover, this machine is also easy to use by anyone who is not a skilled tapper.

Rubber plantation sector is facing serious scarcity of skilled tappers. Tapping done by unskilled persons will invariably result in injury to the bark of the rubber tree and lead to excess consumption of the bark. We found that these serious problems do not occur when your machine is used for tapping and therefore using this machine will help to sustain latex yield and prolong the economic life of rubber plantations.

Thanking you,
Yours faithfully,

07/01/2021

Director (Research)

**COMMERCIAL TEST REPORT
(INITIAL)**

Test Report No.: HT-174/198/2023

Month: May 2023

Validity up to 31th May 2030



**BHOLANATH BH-RT-2000 RUBBER TAPPING MACHINE
(BATTERY OPERATED)**



**Farm Machinery Testing Centre,
Kelappaji College of Agricultural Engineering and Technology
Kerala Agricultural University,
Tavanur, 679573 Kerala**

(This institution is an approved testing center by Department of Agriculture & Co-Operation, Ministry of Agriculture, Govt. of India vide letter No. 8-1/2004-My (I&P) dated September 12, 2010 and Subsequent letters)

Website: <http://fmtc.kau.in>
E-mail: fmtctvr@kau.in

Telephone No. 0494-2687214

Fax No. 0494-2686009

HT-
174/198/2023

**BHOLANATH BH-RT-2000 RUBBER TAPPING
MACHINE
(BATTERY OPERATED)**

**COMMERCIAL
(ICT)**

Manufacturer : M/s. Bholanath Precision Engineering Pvt. Ltd.,
1002,Opal Square, S.G Barve Road, Opp Old
Passport office, Wagle Estate, MIDC Thane
west-400604, Ph-22-69181700
Email: support@bholanath.in

Applicant : The Manufacturer

**BHOLANATH BH-RT-2000 RUBBER TAPPING MACHINE
(BATTERY OPERATED)**

Report No. : HT-174/198/2023

Month: May

Year: 2023



सत्यमेव जयते



**Farm Machinery Testing Centre,
Kelappaji College of Agricultural Engineering and Technology
Kerala Agricultural University,
Tavanur, 679573 Kerala**

Website: <http://fmtc.kau.in>
E-mail: fmtctvr@kau.in

Telephone No. 0494-2687214

Fax No.0494-2686009

HT- 174/198/2023	BHOLANATH BH-RT-2000 RUBBER TAPPING MACHINE (BATTERY OPERATED)	COMMERCIAL (ICT)
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Type of test : INITIAL COMMERCIAL TEST

Name of machine : Rubber Tapping Machine

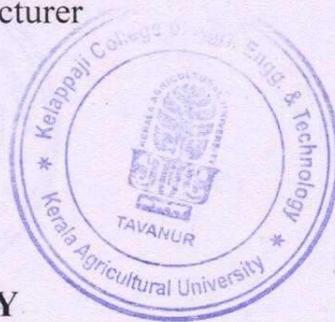
Make : BHOLANATH

Model : BH-RT-2000

Type : Battery Operated

Manufactured by : M/s. Bholanath Precision Engineering Pvt. Ltd.,
1002, Opal Square, S.G Barve Road, Opp Old
Passport office, Wagle Estate, MIDC Thane west-
400604, Ph-22-69181700
Email: support@bholanath.in

Applicant : The Manufacturer



TESTED BY

**Farm Machinery Testing Centre,
Kelappaji College of Agricultural Engineering and Technology
Kerala Agricultural University,
Tavanur, 679 573 Kerala**

HT- 174/198/2023	BHOLANATH BH-RT-2000 RUBBER TAPPING MACHINE (BATTERY OPERATED)	COMMERCIAL (ICT)
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8.1 Rate of Work

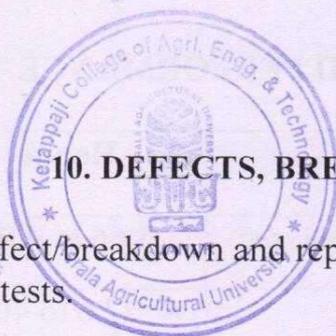
- Average No of tree tapped in hour was recorded as 258 to 280 at the Cutting speed of blade 4.1 to 5.02 cm/sec.
- Average Time taken for taping a tree was recorded as 5.66 to 9.02 Sec.

8.2 Quality of work

- Average depth of cut was recorded as 7.09 to 9.21 mm.
- Average Thickness of cut was recorded as 1.31 to 2.46 mm.

9. EASE OF OPERATION & ADJUSTMENTS

No difficulty was observed during the operation and adjustment of the rubber tapping machine.



10. DEFECTS, BREAKDOWNS AND REPAIRS

No defect/breakdown and repair was occurred during entire period of field & lab tests.

HT- 174/198/2023	BHOLANATH BH-RT-2000 RUBBER TAPPING MACHINE (BATTERY OPERATED)	COMMERCIAL (ICT)
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ANNEXURE- I

FIELD DATA

Location: Naduvattom, Edappal, Malappuram dist.

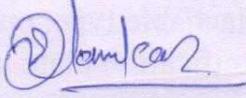
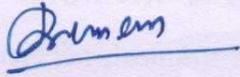
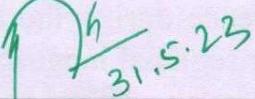
Variety of crop-RRII 105 (Rubber tree)

Sl. No.	Parameters	Test Trials				
		I	II	III	IV	V
1	Date of test	21.03.2023	22.03.2023	23.03.2023	24.03.2023	25.03.2023
2	Duration of test	1	1	1	1	1
3	Time taken for tapping a tree, sec	9.02	5.66	7.96	6.95	7.63
4	Length of cut, cm	37	27.6	40	34.1	35.4
5	Cutting speed of blade cm/sec	4.1	4.87	5.02	4.9	4.6
6	Thickness of cut, mm	1.31	1.63	1.47	2.46	1.33
7	Depth of cut, mm	7.09	8.93	7.34	9.21	8.38
8	No. of trees tapped in one hour	258	267	272	262	280
7	Battery Capacity	439 Trees	700 Trees	497 Trees	570 Trees	519 Trees



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TESTING AUTHORITY:

Er. Dipraj Ilamkar Test Engineer- FMTC KCAET, KAU, Tavanur	
Dr. Preman P S Head- FMTC (i/c) & Associate Professor KCAET, Tavanur	
Dr. Jayan P R Professor & Head – Dept of FMPE KCAET, Tavanur	

The test report is compiled by Er.Dipraj Ilamkar, Test Engineer, Er. Vishnu Prasad, Assistant Engineer, FMTC, KAU, KCAET, Tavanur.

12. APPLICANT'S COMMENTS

Sl. No.	Our reference	Applicant's comments
1	11.1	We will try to implement the same
2	11.2	We will Provide the same
3	11.3	We will print the manual in Hindi and other regional language where this machine will be used in Kannada, Assamese etc.

