



INSTITUTE OF WOOD SCIENCE & TECHNOLOGY

(Indian Council of Forestry Research & Education)

(An autonomous Council under the Ministry of Environment & Forests, Govt. of India)

18th Cross, Malleswaram, Bangalore – 5600 003.



Ref. No.: 13-1/2016-17/IWST/CFP/Tech Expert/ 4412

Date: 16.03.2018

To,

Office of the Divisional Manager,
Mattupetti Road, Munnar-685 612.

Sir,

Sub: Sandal wood oil sample analysis-Reg
Ref: DM/MNR/SF/17-18 dated :05.03.2018

The oil sample received from Kerala Forest Development Corporation Ltd, Munnar, Kerala, was analyzed using Gas Liquid Chromatography (GC) for comparison with standard sandalwood oil. The details of the test report are as per IS.329 :2004 is as follows:-

TEST REPORT

Sl.No	Characteristics	Results	Specification IS 329:2004
1	Colour and appearance	Conforms Golden Yellow viscous oily liquid	Nearly colourless to golden yellow, somewhat viscous oily liquid
2	Odour	Conforms Pleasant, sweet woody odour	Pleasant, sweet, woody and persistent
3	Relative density at 29°C	0.9646	0.9635 to 0.9775
4	Refractive Index at 29°C	1.5020	1.5000 to 1.5070
5.	Solubility	Passes Clearly soluble in 1: 4 Volumes	Soluble in FIVE volumes of 70% Ethyl Alcohol
6.	Major chemical constituents by GLC analysis		
	Cis-Alpha Santalol %	56.373	41 to 55
	Cis-Beta Santalol %	26.433	16 to 24


Head

Chemistry of Forest Products Division

V.S. Shettapanavar, IFS
Head, CFP Division