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— • T H E   N O   N O N S E N S E   P L Y • —

## FIRE REACTION TEST REPORT DIN EN 13501-1:2010



काष्ठ विज्ञान एवं प्रौद्योगिकी संस्थान  
INSTITUTE OF WOOD SCIENCE AND TECHNOLOGY

(भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद्)

(Indian Council of Forestry Research and Education)

(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, की एक स्वायत्त निकाय)  
(An Autonomous Body of Ministry of Environment, Forest and Climate Change, Govt. of India)  
<http://iwst.icfre.gov.in>



सं./SC/CTO/105/FSK-6100-6102/GIL/2024/Tamilnadu

दि./Dated: 27.06.2024

सेवा में/To

M/s. Greenlam Industries Ltd.  
Panchalam Village, Melpettai Post  
Villupuran Dist, Tindivanam - 604307  
Tamilnadu

आदरणीय महाशय,

Dear Sir,

विषय : नमूना की परीक्षण रिपोर्ट

Sub : Test Report for Formaldehyde Emission as per JIS A 1460:2015

संदर्भ : आपका पत्रांक दिनांक

Ref : Your e\_mail Dated 10.04.2024

(Sample received on 15.04.2024)

उपरोक्त उल्लिखित संदर्भ में आपके द्वारा दिए गए नमूनों को संलग्न प्रतिवेदन में उल्लिखित मानकों के अनुसार, आईडब्ल्यूएसटी (भूतपूर्व इपिटी) के संबंधित प्रभाग से परीक्षण किया गया।

Samples submitted by you vide above cited reference has been tested by the relevant Division of IWST (erstwhile IPIRTI) as per the standards mentioned in the attached report.

आपकी सेवा करने का यह अवसर सराहनीय है। यह सौभाग्य भविष्य में पाने की उम्मीद है।

The opportunity to serve you is highly appreciated. Hoping to have the same privilege in future.

भवदीय,

Yours faithfully,

संलग्नक: क/क

Encl: a/a

*Shalini P R*

**Shalini P Rao**

**Chief Technical Officer**

**Institute of Wood Science and Technology**

**IPIRTI Campus, Bengaluru - 560 022**

Head Office: ICFRE- Institute of Wood Science and Technology, Malleswaram Campus : 18th Cross, Malleswaram P.O., Bangalore – 560 003

Website: <http://iwst.icfre.gov.in> email: [dir\\_iwst@icfre.org](mailto:dir_iwst@icfre.org) Phone: 080- 23341731/ 080-23340529 / 080- 2219 0100(Dir)

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[samplecell@ipirti.gov.in](mailto:samplecell@ipirti.gov.in)/[samplecelliwst@gmail.com](mailto:samplecelliwst@gmail.com)/[samplecell.ipirti@gmail.com](mailto:samplecell.ipirti@gmail.com)

Field Station: ICFRE- Institute of Wood Science and Technology  
2/2, Biren Roy Road(West), Sarsuna, Kolkata- 700 061  
033-24983120 / [samplecellfsk@icfre.org](mailto:samplecellfsk@icfre.org) / [icfsk@icfre.org](mailto:icfsk@icfre.org)

As per Govt. MoEF&CC, Order No. F.No. 16-1/2022-RT dated 22.10.2022, Indian Plywood Industries Research and Training Institute (IPIRTI), has been merged with Institute of Wood Science and Technology (IWST), Bengaluru



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**TC1019524000001183P**

**TEST REPORT**

M/s. Greenlam Industries Ltd.  
Panchalam Village, Melpettai Post  
Villupuran Dist, Tindivanam - 604307  
Tamilnadu

REPORT सं./SC/CTO/105/FSK-6100/GIL/2024/Tamilnadu

दि./Dated: 27.06.2024

Ref: Your e\_mail Dated 10.04.2024

Date of performance of test: 03-06-2024 to 10.06.2024

**PART – A: PARTICULARS OF THE SAMPLE SUBMITTED:**

(a) Nature of Sample	:	Plywood
(b) Grade/Variety/Type/Class/Size etc.	:	1 ft x 1 ft
(c) Declared Values, if any	:	--
(d) Code No.	:	--
(e) Batch No. & Date of Manufacture	:	--
(f) Quantity	:	1No
(g) Date of Receipt	:	15.04.2024
(h) Seal	:	--
(i) IO's Signature	:	--
(j) Any Other Information	:	Brand Name- Mikasa Ply Sapphire

*Shalini P Rao*

**Shalini P Rao**

Chief Technical Officer  
Institute of Wood Science and Technology  
IPIRTI Campus, Bengaluru - 560 022

Head Office: ICFRE- Institute of Wood Science and Technology, Malleswaram Campus : 18th Cross, Malleswaram P.O., Bangalore – 560 003

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As per GoI, MoEF&CC, Order No. F.No. 16-1/2022-RT dated 22.10.2022, Indian Plywood Industries Research and Training Institute (IPIRTI), has been merged with Institute of Wood Science and Technology (IWST), Bengaluru



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दि./Dated: 27.06.2024

PART – B: SUPPLEMENTARY INFORMATIONS:

- (a) Reference to the sampling procedure, wherever applicable : N.A.  
(b) Supporting documents for the measurement taken : N.A.  
and results derived like graphs, tables, sketches  
and/or photographs as appropriate to the test report  
if any (To be attached)  
(c) Deviations from test methods as prescribed in : N.A.  
relevant ISS/Work Instructions, if any

PART – C: TEST RESULT:

**I. CHEMICAL TESTING**

1. Wood & Wood Products (a). Plyboard

**Determination of formaldehyde emission by Desiccator method” as per JIS A 1460:2015.**

- |  |   |
|--|---|
| 1. Name and Address of the laboratory                                    | : Tested at IWST Field Station Kolkata Chemistry Laboratory |
| 2. Type of board as received   | : Plywood   |
| 3. Thickness, mm   | : 18.25   |
| 4. Density, kg/m <sup>3</sup>  | : 870   |
| 5. Moisture Content, %   | : 7.62  |
| 6. Surface treatment   | : Surface treatment was not provided on the sample          |
| 7. Details of edge treatment   | : No edge treatment   |
| 8. Cut off location  | : 5cm away from all sides of the board                      |
| 9. No of test specimens  | : 08  |
| 10. Conditioning of test samples   | : @20°C 65%RH   |
| 11. Temperature & Humidity of test environment:                          | 20.3°C  |
| 12. Date of the test report  | : 13.06.2024  |
| 13. Background formaldehyde level in the test environment, if determined | : 0.0021 mg/L   |
| 14. Formaldehyde emission in mg/L  | : 0.414 mg/L  |
| 15. Formaldehyde emission in ppm   | : 0.414 ppm   |

**Remarks: The emission limit as per JIS A5905 & JIS A5908 for F\*\*\* is  $> 0.4 \leq 0.7$  mg/L for wood particle board. The formaldehyde emission value obtained is 0.414 mg/L. Hence, the sample conforms to the requirement of F\*\*\* as per JIS A5905 & JIS A5908 and as per Japanese Agricultural Standard (JAS) Formaldehyde emission for plywood.**

Note:

- (1) The test report is relevant to the sample received for testing.  
(2) Remnants of tested material if any will be retained for a period of 6 months only

*Shalini P Rao*

**Shalini P Rao**

**Chief Technical Officer**

Head Office: ICFRE- Institute of Wood Science and Technology, Malleswaram Campus : 18th Cross, Malleswaram P.O., Bangalore - 560 003  
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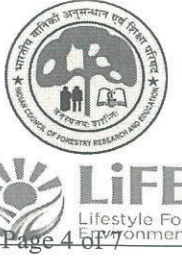


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**TC1019524000001184P**

**TEST REPORT**

M/s. Greenlam Industries Ltd.  
Panchalam Village, Melpettai Post  
Villupuran Dist, Tindivanam - 604307  
Tamilnadu

REPORT सं./SC/CTO/105/FSK-6101/GIL/2024/Tamilnadu

दि./Dated: 27.06.2024

Ref: Your e\_mail Dated 10.04.2024

Date of performance of test: 03-06-2024 to 10.06.2024

**PART – A: PARTICULARS OF THE SAMPLE SUBMITTED:**

(a) Nature of Sample	:	Plywood
(b) Grade/Variety/Type/Class/Size etc.	:	1ft x 1ft
(c) Declared Values, if any	:	--
(d) Code No.	:	--
(e) Batch No. & Date of Manufacture	:	--
(f) Quantity	:	1No
(g) Date of Receipt	:	15.04.2024
(h) Seal	:	--
(i) IO's Signature	:	--
(j) Any Other Information	:	Brand Name- Mikasa Ply Marine Blue

*Shalini P B*

**Shalini P Rao**

Chief Technical Officer  
Institute of Wood Science and Technology  
IPIRTI Campus, Bengaluru - 560 022

Head Office: ICFRE- Institute of Wood Science and Technology, Malleswaram Campus : 18th Cross, Malleswaram P.O., Bangalore – 560 003

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PART – B: SUPPLEMENTARY INFORMATIONS:

- (a) Reference to the sampling procedure, wherever applicable : N.A.  
(b) Supporting documents for the measurement taken : N.A.  
and results derived like graphs, tables, sketches  
and/or photographs as appropriate to the test report  
if any (To be attached)\  
(c) Deviations from test methods as prescribed in : N.A.  
relevant ISS/Work Instructions, if any

PART – C: TEST RESULT:

**I. CHEMICAL TESTING**

1. Wood & Wood Products (a). Plyboard

**Determination of formaldehyde emission by Desiccator method” as per JIS A 1460:2015.**

1. Name and Address of the laboratory : Tested at IWST Field Station Kolkata Chemistry Laboratory  
2. Type of board as received : Plywood  
3. Thickness, mm : 18.28  
4. Density, kg/m<sup>3</sup> : 908  
5. Moisture Content, % : 7.02  
6. Surface treatment : Surface treatment was not provided on the sample  
7. Details of edge treatment : No edge treatment  
8. Cut off location : 5cm away from all sides of the board  
9. No of test specimens : 08  
10. Conditioning of test samples : @20°C 65%RH  
11. Temperature & Humidity of test environment: 20.3°C  
12. Date of the test report : 13.06.2024  
13. Background formaldehyde level in the test environment, if determined : 0.0021 mg/L  
14. Formaldehyde emission in mg/L : 0.490 mg/L  
15. Formaldehyde emission in ppm : 0.490 ppm

**Remarks: The emission limit as per JIS A5905 & JIS A5908 for F\*\*\* is  $> 0.4 \leq 0.7$  mg/L for wood particle board. The formaldehyde emission value obtained is 0.490 mg/L. Hence, the sample conforms to the requirement of F\*\*\* as per JIS A5905 & JIS A5908 and as per Japanese Agricultural Standard (JAS) Formaldehyde emission for plywood.**

Note:

- (1) The test report is relevant to the sample received for testing.  
(2) Remnants of tested material if any will be retained for a period of 6 months only

*Shalini P R*

**Shalini P Rao**

Head Office: ICFRE- Institute of Wood Science and Technology, Malleswaram Campus : 18th Cross, Malleswaram P.O., Bangalore - 560003

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दि./Dated: 27.06.2024

Ref: Your e\_mail Dated 10.04.2024

Date of performance of test: 03-06-2024 to 10.06.2024

**PART – A: PARTICULARS OF THE SAMPLE SUBMITTED:**

(a) Nature of Sample	:	Plywood
(b) Grade/Variety/Type/Class/Size etc.	:	1 ft x 1 ft
(c) Declared Values, if any	:	--
(d) Code No.	:	--
(e) Batch No. & Date of Manufacture	:	--
(f) Quantity	:	1No
(g) Date of Receipt	:	15.04.2024
(h) Seal	:	--
(i) IO's Signature	:	--
(j) Any Other Information	:	Brand Name- Mikasa Ply Marine

*Shalini P R*

**Shalini P Rao**

Chief Technical Officer  
Institute of Wood Science and Technology  
IPIRTI Campus, Bengaluru - 560 022

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दि./Dated: 27.06.2024

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- (a) Reference to the sampling procedure, wherever applicable : N.A.  
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if any (To be attached)  
(c) Deviations from test methods as prescribed in : N.A.  
relevant ISS/Work Instructions, if any

**PART – C: TEST RESULT:**

**I. CHEMICAL TESTING**

1. Wood & Wood Products (a). Plyboard

**Determination of formaldehyde emission by Desiccator method” as per JIS A 1460:2015.**

1. Name and Address of the laboratory : Tested at IWST Field Station Kolkata Chemistry Laboratory  
2. Type of board as received : Plywood  
3. Thickness, mm : 18.26  
4. Density, kg/m<sup>3</sup> : 897  
5. Moisture Content, % : 6.82  
6. Surface treatment : Surface treatment was not provided on the sample  
7. Details of edge treatment : No edge treatment  
8. Cut off location : 5cm away from all sides of the board  
9. No of test specimens : 08  
10. Conditioning of test samples : @20°C 65%RH  
11. Temperature & Humidity of test environment: 20.3°C  
12. Date of the test report : 13.06.2024  
13. Background formaldehyde level in the test : 0.0021 mg/L  
environment, if determined  
14. Formaldehyde emission in mg/L : 0.746 mg/L  
15. Formaldehyde emission in ppm : 0.746 ppm

**Remarks: The emission limit as per JIS A5905 & JIS A5908 for F\*\* is  $> 0.7 \leq 2.1$  mg/L for wood particle board. The formaldehyde emission value obtained is 0.746 mg/L. Hence, the sample conforms to the requirement of F\*\* as per JIS A5905 & JIS A5908 and as per Japanese Agricultural Standard (JAS) Formaldehyde emission for plywood.**

Note:

- (1) The test report is relevant to the sample received for testing.  
(2) Remnants of tested material if any will be retained for a period of 6 months only

*Shalini P R*

**Shalini P Rao**  
Chief Technical Officer

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