



काष्ठ कम्पोजिट जाँच एवं मूल्यांकन केन्द्र
Center for Testing And Evaluation of Wood Composites

भारतीय प्लाईवुड उद्योग अनुसंधान और प्रशिक्षण संस्थान
INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE

(भारत सरकार, पर्यावरण एवं वन मंत्रालय का स्वायत्त निकाय)
(Autonomous Body of the Ministry of Environment & Forests, Government of India)

पोस्ट बैग सं. 2273, तुमकूर रोड, बंगलोर - 560 022

Post Bag No. 2273, Next to CMTI, Tumkur Road Off HMT Road, Bangalore - 560 022

Ph No. : 28394231-32-33, fax : 91-80-28396361

e-mail : contactus@ipirti.gov.in, website : //www.ipirti.gov.in



NABL
ACCREDITED LABORATORY
Cert. No. : T-1578 & T-1579

TEST REPORT

Report Issued to:

M/s. Sarkar Plywood Pvt. Ltd.
302-303, "SNS" Square,
"Business Zone", Vesu Main Road,
Vesu, Surat - 395 007, Gujarat.

TEST REPORT AS PER IS: 4990-1993 (RA 2003) [WITH AMENDMENT NO(s) Nil]

REPORT NO: JD/SPPL/4202/Phy-5319/2021/Surat
Your Ref : Your letter No. Nil

DATED : 22.12.2021
Ref. Date : 18.09.2021

Date(S) of performance of test : From : 18.09.2021 To : 18.12.2021

PART - A: PARTICULARS OF THE SAMPLE SUBMITTED:

(a) Nature of Sample	:	Concrete Shuttering Plywood
(b) Grade	:	--
(c) Size of Sample	:	2440 x 1220 x 18 mm
(d) Brand Name, if any	:	--
(e) Declared Values	:	--
(f) Code No.	:	--
(g) Batch No. & Date of Mfg	:	--
(h) Quantity	:	1 No.
(i) Mode of Packing	:	--
(j) Date of Receipt	:	18.09.2021
(k) Seal / Stamp	:	--
(l) IO's Signature	:	--
(m) Any Other Information	:	--

संयुक्त निदेशक

Joint Director

भारतीय प्लाईवुड उद्योग

INDIAN PLYWOOD INDUSTRIES

अनुसंधान एवं प्रशिक्षण संस्थान

RESEARCH & TRAINING INSTITUTE

पोस्ट बैग सं. 2273, तुमकूर रोड,

Post Bag No. 2273, Tumkur Road

बंगलोर - 560 022

BANGALORE - 560 022.



काष्ठ कम्पोजिट जाँच एवं मूल्यांकन केन्द्र
Center for Testing And Evaluation of Wood Composites

भारतीय प्लाईवुड उद्योग अनुसंधान और प्रशिक्षण संस्थान
INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE

(भारत सरकार, पर्यावरण एवं वन मंत्रालय का स्वायत्त निकाय)
(Autonomous Body of the Ministry of Environment & Forests, Government of India)

पोस्ट बैग सं. 2273, तुमकूर रोड, बंगलोर - 560 022
Post Bag No. 2273, Next to CMTI, Tumkur Road Off HMT Road, Bangalore – 560 022

Ph No. : 28394231-32-33, fax : 91-80-28396361
e-mail : contactus@ipirti.gov.in, website : //www.ipirti.gov.in



NABL
ACCREDITED LABORATORY
Cert. No. : T-1578 & T-1579

REPORT NO: JD/SPPL/4202/Phy-5319/2021/Surat

DATED : 22.12.2021

PART – B: SUPPLEMENTARY INFORMATIONS:

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

PART – C: TEST RESULT:

Sl. No.	Tests	Cl No	Test Method	Requirement as per IS:710-2010	Results
1	2	3	4	5	6
1	Dimensions and Tolerance a) Length b) Width c) Thickness d) Squareness. % e) Edge Straightness. %	7	Annex C/ IS 4990 : 1993 Annex C/ IS 4990 : 1993	+ 6 mm - 0 mm + 3 mm - 0 mm ± 5% Max 0.2 % Max 0.2 %	+ 1 + 1 + 3.7 0.1 0.1
4	Workmanship and Finish	9	--	Conforms	Conforms
5	Moisture content. %	10.1.1	IS 1734-1983 (RA 2003) Part-1	5 – 15	8.4
6	<u>Glue Adhesion Strength in dry state</u> i) Glue shear strength. N a) Average b) Minimum individual	10.1.2.1	IS 1734-1983 (RA 2003) Part-4	1350 1100	2160 1840
	ii) Adhesion of plies (Knife test)	10.1.2.2	IS 1734-1983 (RA 2003) Part-5	Min. pass standard	Pass standard

सयुक्त निदेशक

Joint Director

भारतीय प्लाईवुड उद्योग

INDIAN PLYWOOD INDUSTRIES

अनुसंधान एवं प्रशिक्षण संस्थान

RESEARCH & TRAINING INSTITUTE

पोस्ट बैग सं. 2273, तुमकूर रोड,

Post Bag No. 2273, Tumkur Road

बंगलोर - 560 022

BANGALORE - 560 022.



काष्ठ कम्पोजिट जाँच एवं मूल्यांकन केन्द्र
Center for Testing And Evaluation of Wood Composites

भारतीय प्लाईवुड उद्योग अनुसंधान और प्रशिक्षण संस्थान
INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE

(भारत सरकार, पर्यावरण एवं वन मंत्रालय का स्वायत्त निकाय)
(Autonomous Body of the Ministry of Environment & Forests, Government of India)

पोस्ट बैग सं. 2273, तुमकूर रोड, बंगलोर - 560 022
Post Bag No. 2273, Next to CMTI, Tumkur Road Off HMT Road, Bangalore - 560 022

Ph No. : 28394231-32-33, fax : 91-80-28396361
e-mail : contactus@ipirti.gov.in, website : //www.ipirti.gov.in



NABL
ACCREDITED LABORATORY
Cert. No. : T-1578 & T-1579

REPORT NO: JD/SPPL/4202/Phy-5319/2021/Surat

DATED : 22.12.2021

Sl. No.	Tests	Cl No	Test Method	Requirement as per IS: IS:710-2010	Results
1	2	3	4	5	6
7	Resistance to water (After 72 hrs boiling)	10.1.3			
	i) Glue shear strength. N a) Average b) Minimum individual	10.1.3.1	IS 1734-1983 (RA 2003) Part-4 and Part-6	1000 800	1063 970
	ii) Adhesion of plies (Knife test)	10.1.3.2	IS 1734-1983 (RA 2003) Part-5 and Part-6	Min. pass standard	Pass standard
8	Resistance to microorganisms (Mycological Test)	10.1.7			
	i) Glue shear strength. N a) Average b) Minimum individual	10.1.3.1	IS 1734-1983 (RA 2003) Part-4 and Part-7	1000 800	1119 980
	ii) Adhesion of plies (Knife test)	10.1.3.2	IS 1734-1983 (RA 2003) Part-5 and Part-7	(a) No sign of separation at the edges. (b) Min. pass standard	No separation at edges Pass standard
9	Tensile strength. N/mm ² i) Parallel to the face grain ii) Perpendicular to the face grain iii) Sum of the tensile strength (i + ii)	10.1.6	IS 1734-1983 (RA 2003) Part-9	Min. 32.5 Min. 22.5 Min. 60.0	28.5 33.5 61.9
	Static Bending Strength Modulus of elasticity. N/mm ² i) Parallel to the face grain a) Average b) Minimum individual	10.1.8	IS 1734-1983 (RA 2003)Part-11	Min. 7500 Min. 6700	5511 4768
	ii) Perpendicular to the face grain a) Average b) Minimum individual			Min. 4000 Min. 3600	5084 3999

संयुक्त निदेशक

Joint Director

भारतीय प्लाईवुड उद्योग

INDIAN PLYWOOD INDUSTRIES

अनुसंधान एवं प्रशिक्षण संस्थान

RESEARCH & TRAINING INSTITUTE

पोस्ट बैग सं. 2273, तुमकूर रोड,

Post Bag No. 2273, Tumkur Road,

बंगलोर - 560 022

BANGALORE - 560 022.



काष्ठ कम्पोजिट जाँच एवं मूल्यांकन केन्द्र
Center for Testing And Evaluation of Wood Composites

भारतीय प्लाईवुड उद्योग अनुसंधान और प्रशिक्षण संस्थान
INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE

(भारत सरकार, पर्यावरण एवं वन मंत्रालय का स्वायत्त निकाय)
(Autonomous Body of the Ministry of Environment & Forests, Government of India)

पोस्ट बैग सं. 2273, तुमकूर रोड, बंगलोर - 560 022

Post Bag No. 2273, Next to CMTI, Tumkur Road Off HMT Road, Bangalore - 560 022

Ph No. : 28394231-32-33, fax : 91-80-28396361

e-mail : contactus@ipirti.gov.in, website : //www.ipirti.gov.in



NABL

ACCREDITED LABORATORY
Cert. No. : T-1578 & T-1579

REPORT NO: JD/SPPL/4202/Phy-5319/2021/Surat

DATED : 22.12.2021

I. No.	Tests	CI No	Test Method	Requirement as per IS: IS:710-2010	Results
1	2	3	4	5	6
11	Static Bending Strength Modulus of rupture, N/mm ² i) Parallel to the face grain a) Average b) Minimum individual ii) Perpendicular to the face grain a) Average b) Minimum individual	10.1.8	IS 1734-1983 (RA 2003) Part-11	Min. 50 Min. 45 Min. 30 Min. 27	38.3 34.7 50.6 42.0

PART - D: REMARKS:

1. Test specimens were conditioned at 65±5% RH and at 27±2°C for mechanical tests.
2. Test results are relevant only to the material received for testing.
3. Remnant of tested material if any will be retained for a period of 6 months only, from the date of issue of test report.

संयुक्त निदेशक

Joint Director

भारतीय प्लाईवुड उद्योग

INDIAN PLYWOOD INDUSTRIES

अनुसंधान एवं प्रशिक्षण संस्थान

RESEARCH & TRAINING INSTITUTE

पोस्ट बैग सं. 2273, तुमकूर रोड,

Post Bag No. 2273, Tumkur Road,

बंगलोर - 560 022

BANGALORE - 560 022.