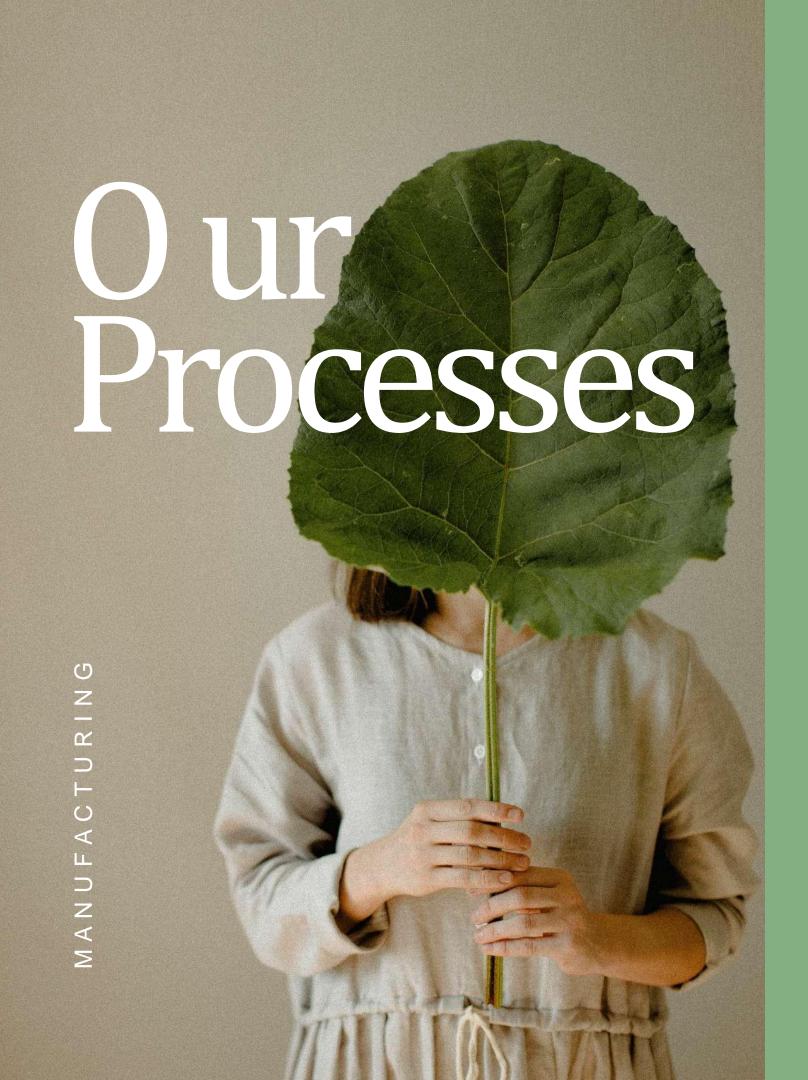


We manufacture next-gen building materials from agri-waste. We add value to waste and produce high efficiency and sustainable panels for built environment

We also help to tackle the problem of stubble burning and follow a Circular economy model

AGRIBIOPANEL

MADE FROM STRAW



STRAW

Bought locally from farmers.
Converted into bales
transported to Stracwture Eco mfg.
plant.

TO

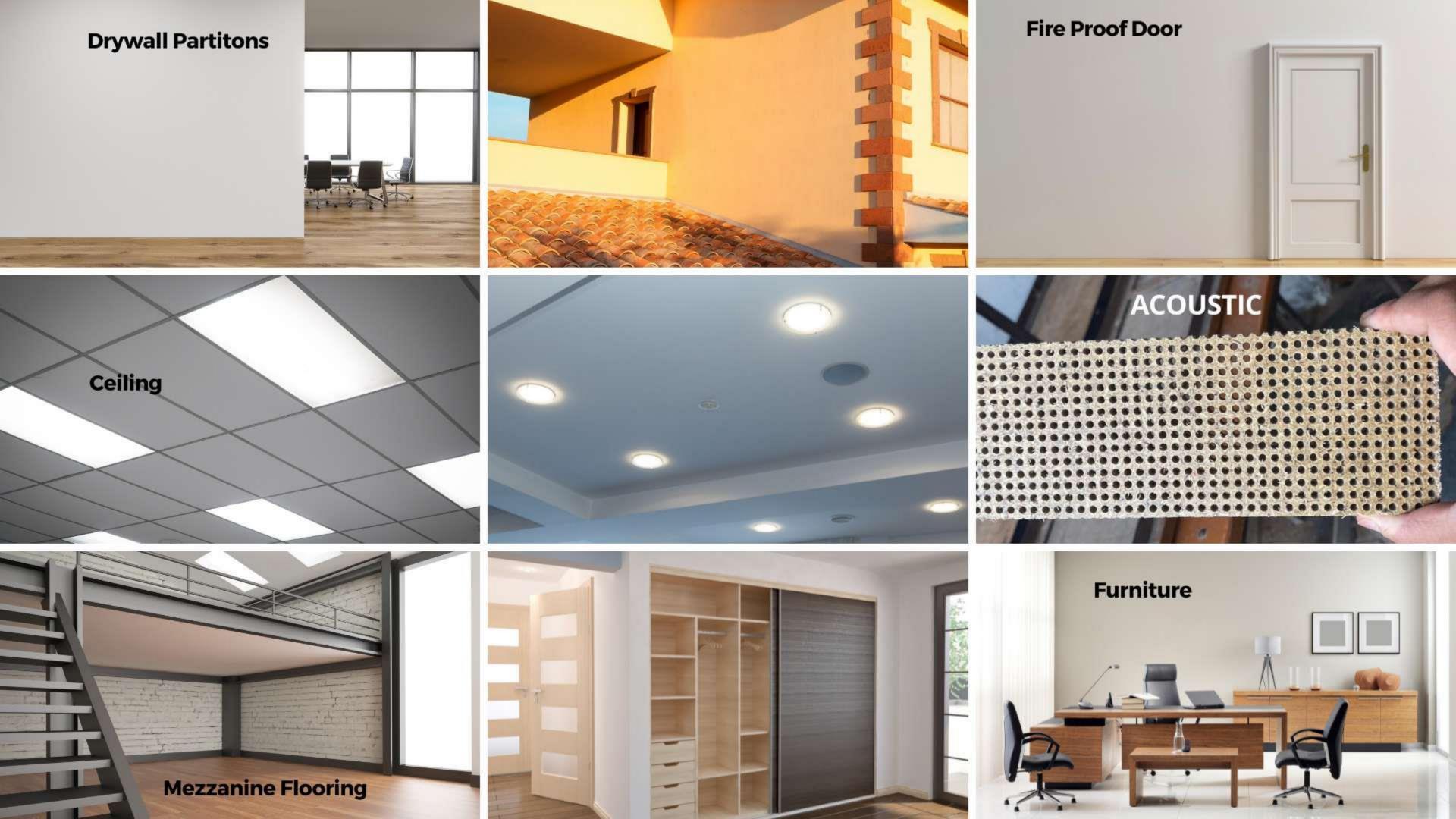
Drying to reduce moisture
Mixed with proprietary resin and
organic dyes
Multiple rounds of compression
under pressure

PANELS

Panels of sized 10x6 ft and 8x4ft are cut

Pre-lamination is done by vacuum pressing laminates over raw boards. Quality Inspection is done and then sent tirectly to project or warehouse





DRYWALL PARTITIONS

(MADE OF AGRIBIOPANEL)

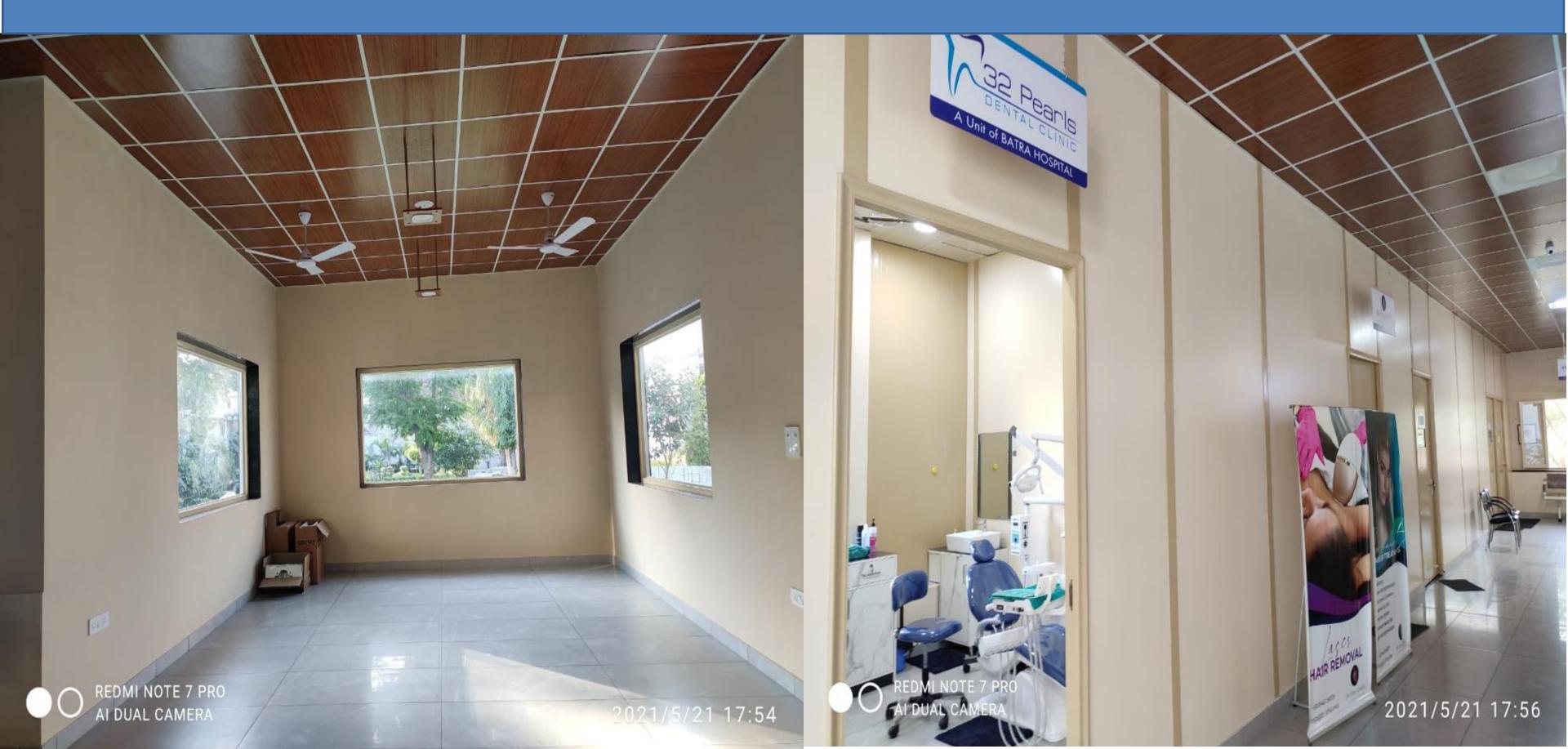
- ACOUSTIC & FIRE RATED WALLS

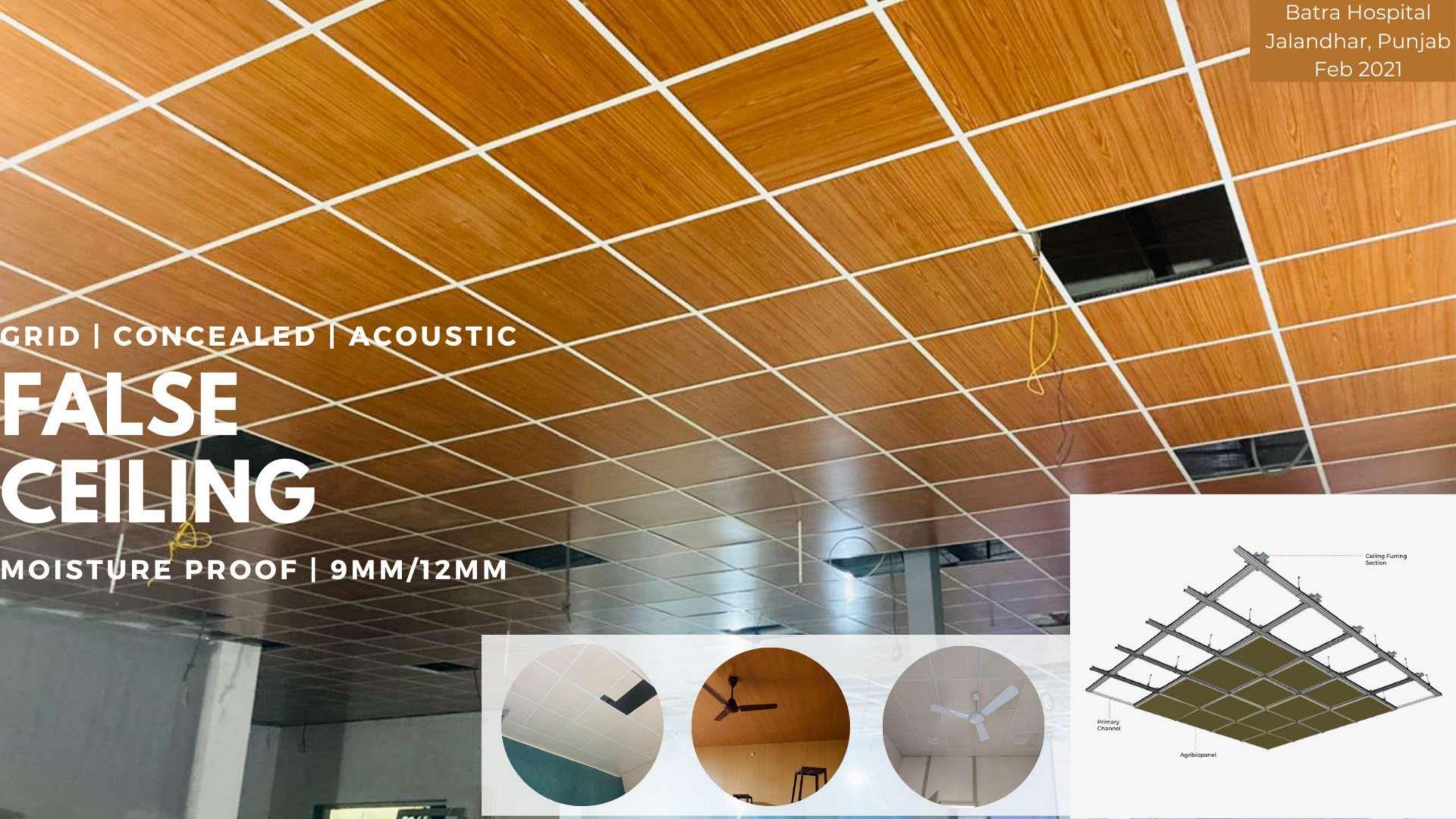
- BIGGER SIZE BOARDS PREVENTING WASTAGE OF MATERIAL

- 15-20 % LOWER FRAMING COST

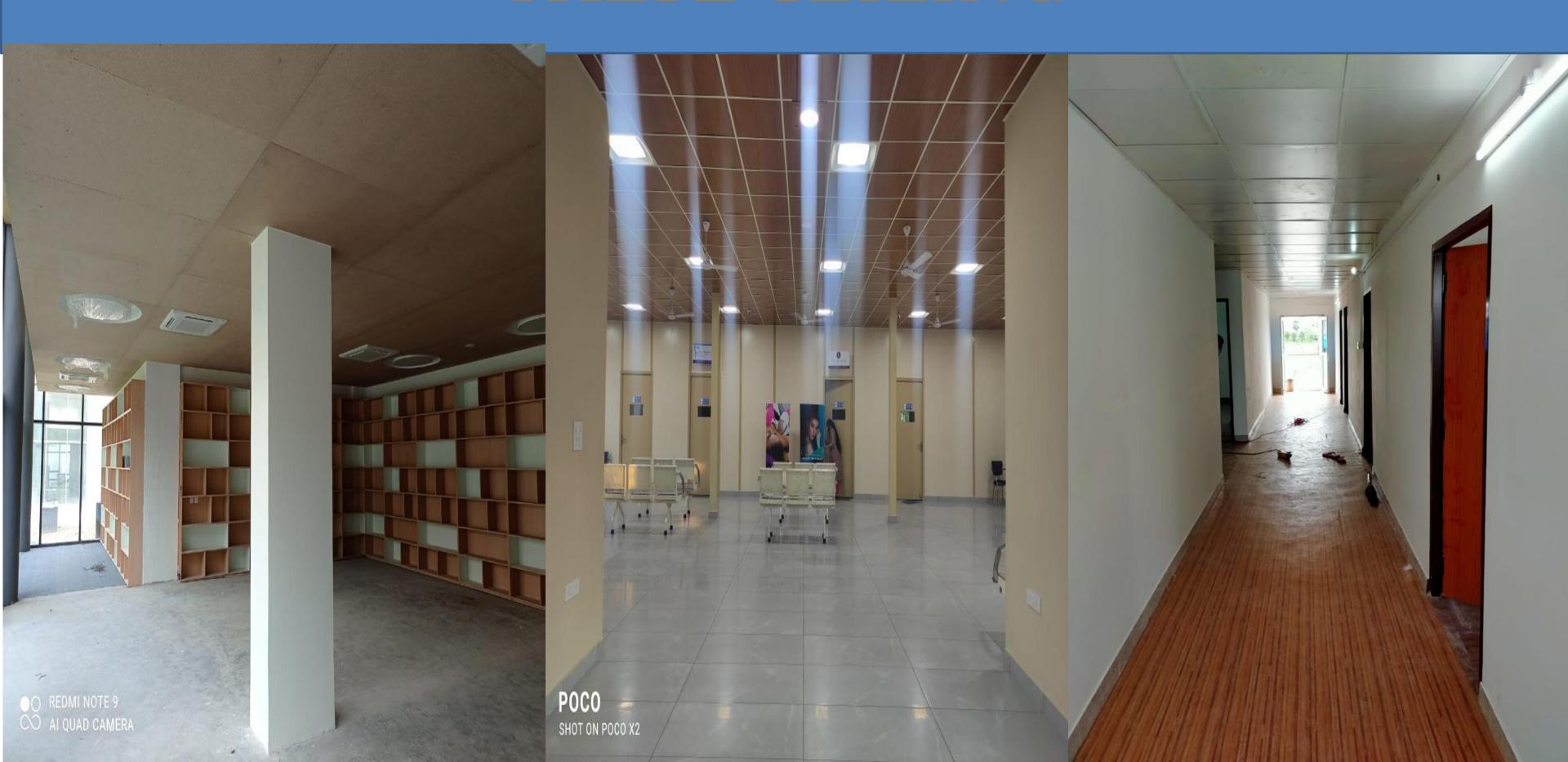


DRYWALL PARTITIONS Batra Hospital, Jalandhar, Punjab





FALSE CEILING



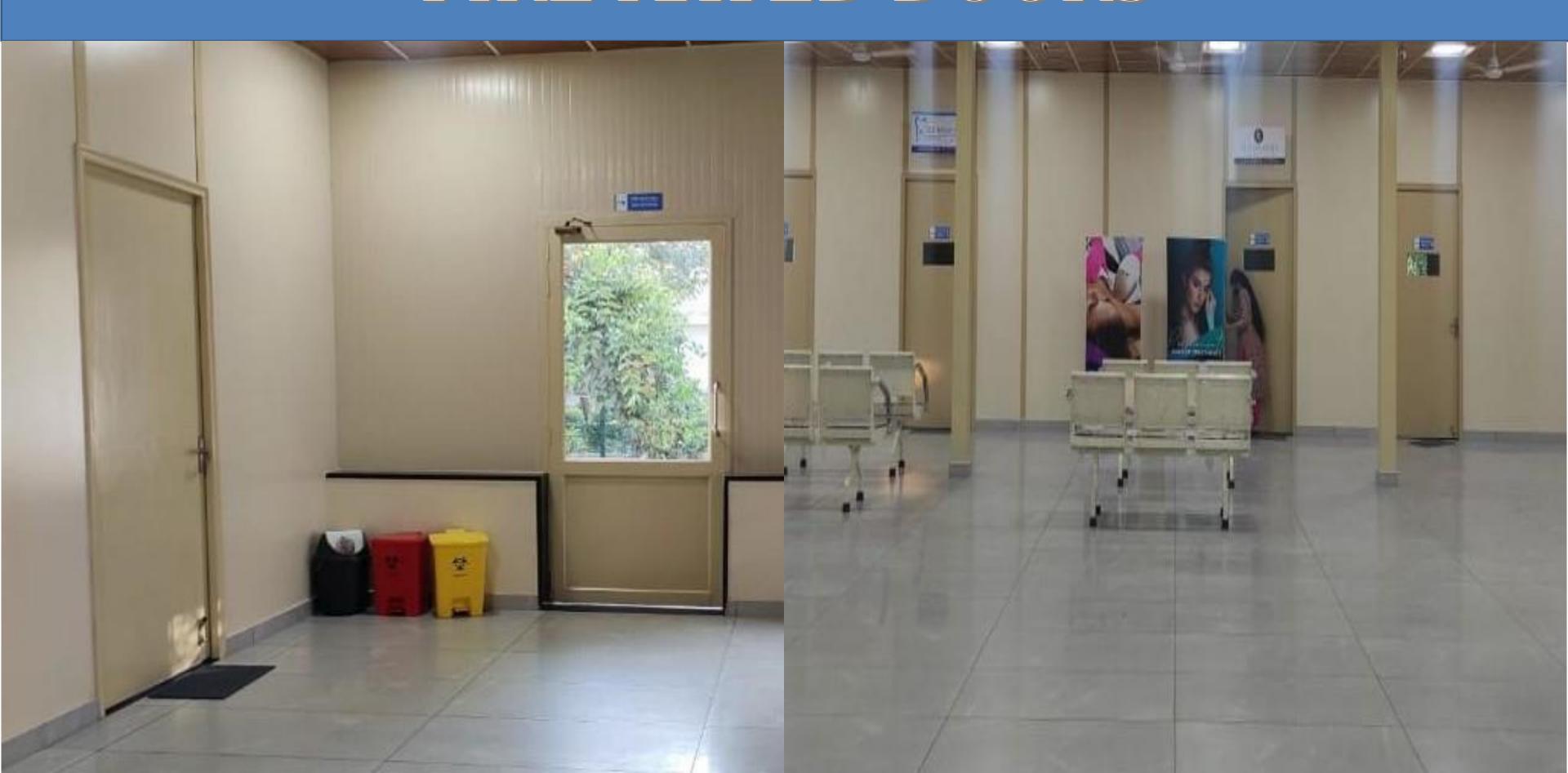
DOORS

FIRE RATED DOORS

Excellent Fire rating (120 mins+)
Noise Barrier
Solid Core, 35 mm thickness
Minimum maintenance reqd.

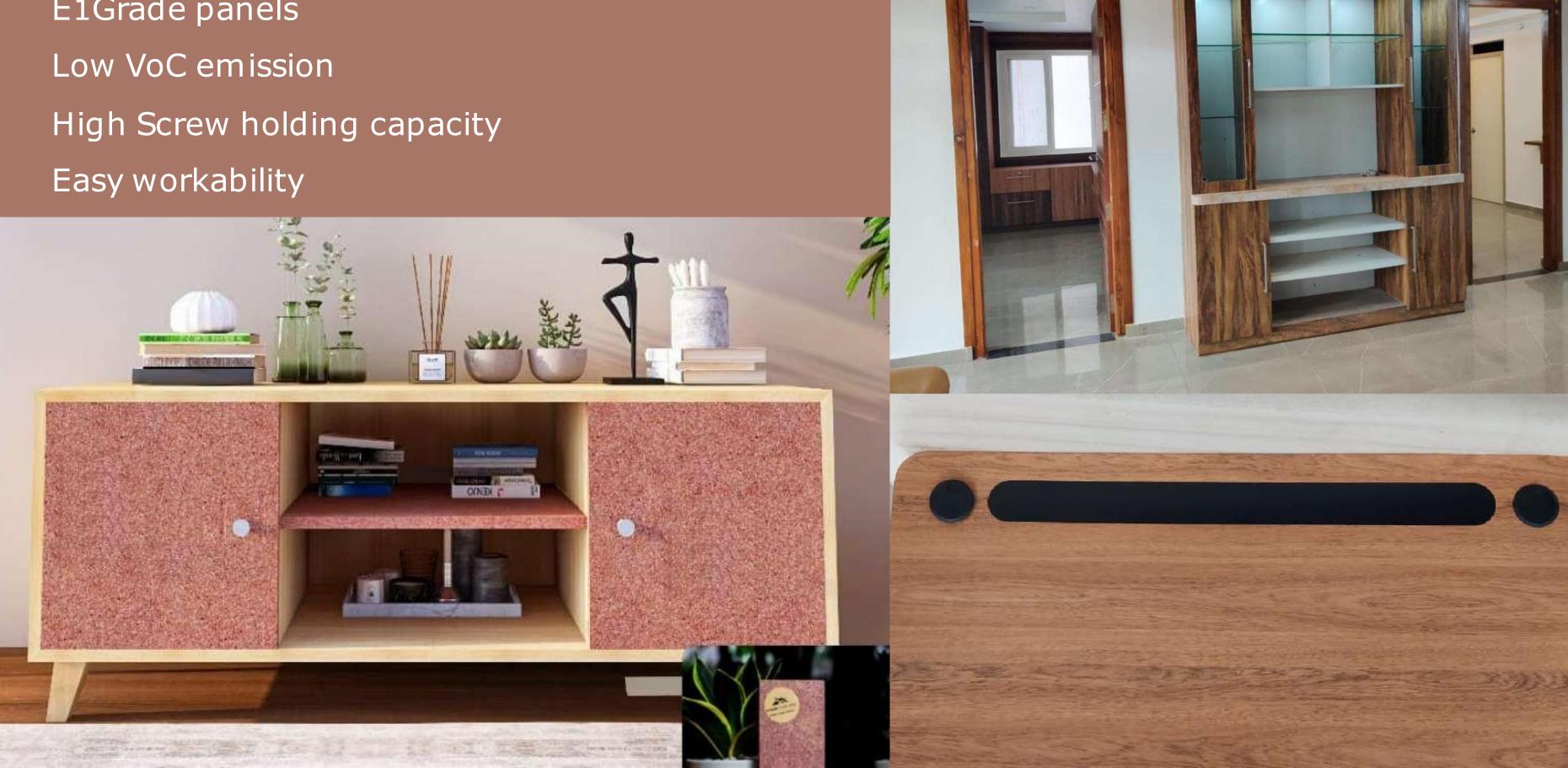


FIRE RATED DOORS

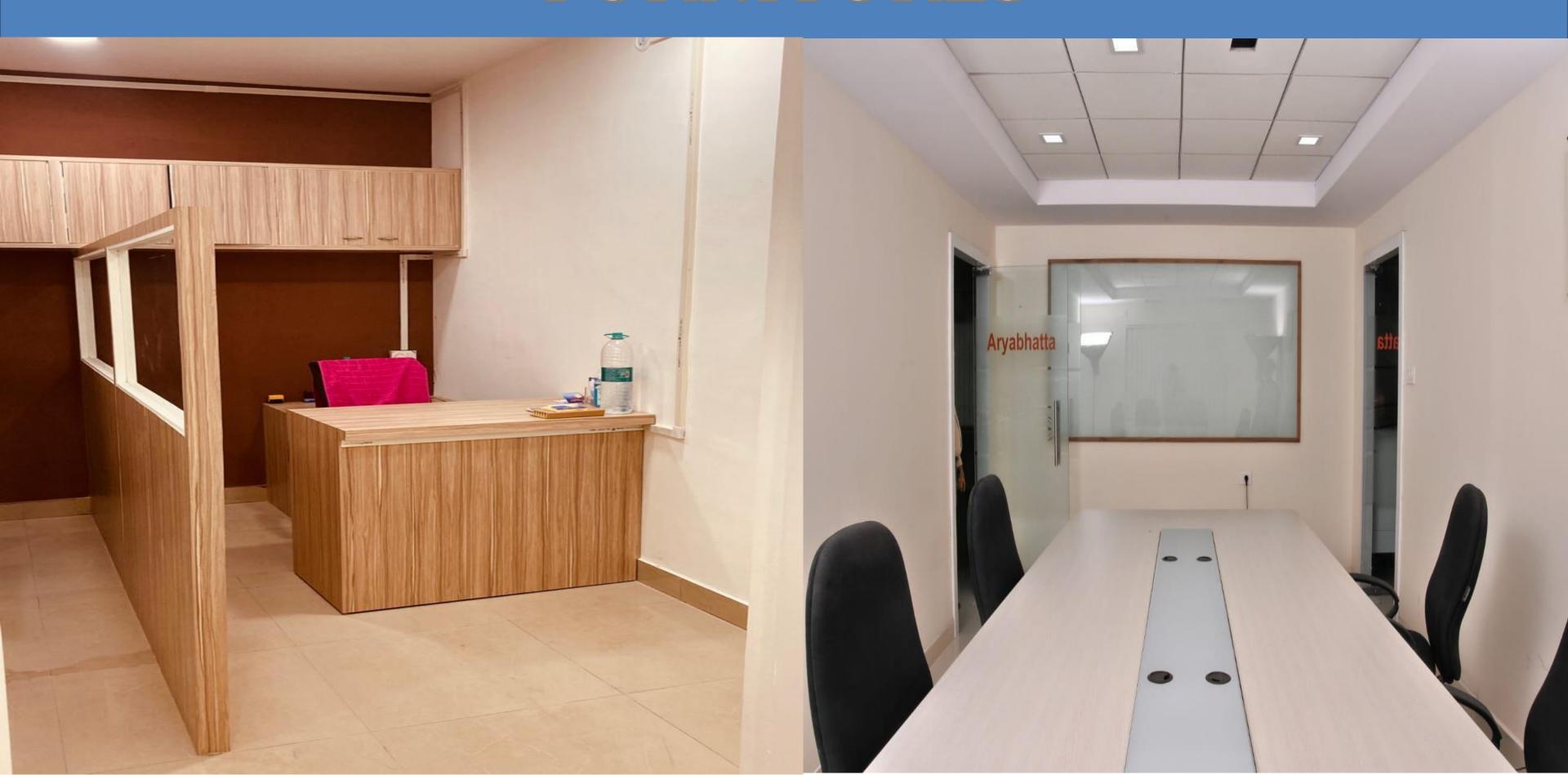




E1Grade panels



FURNITURES



FURNITURES



FURNITURES





What makes AgriBioPanels a superior, sustainable alternative for interiors and furniture?

		1
Description		
AgriBioPanel is a engineered Panel made of annually renewable agri-fiber and a binding agent.		
96% Agri fiber (Bagasse waste)		
Test Value	Product Description	Test Method
	42mm AmibiaDanal with Day Air	
0.0195 W/m-k	Sandiwch of 48 mm	ASTM C518
1.74kg/cm2	12mm AgribioPanel with Dry-Air Sandiwch of 48 mm	ASTM D695
	Testing Lab	
Toxicity Index	IPIRTI	
0.361	IPIRTI	
0	IPIRTI	
0	IPIRTI	
0.024	IPIRTI	
0.038	IPIRTI	
0	IPIRTI	
0.096	IPIRTI	
0.519 for 100gm Sample.		
4.79	Should be Less then or equal to 8	
maldehyde Class E-1 of IS 3087-1985		1
	AgriBioPanel is a engineered Panel made of annually renewable agri-fiber and a binding agent. 96% Agri fiber (Bagasse waste) Test Value 0.0195 W/m-k 1.74kg/cm2 Toxicity Index 0.361 0 0 0.024 0.038 0 0.096	AgnBioPanel is a engineered Panel made of annually renewable agri-fiber and a binding agent. 96% Agri fiber (Bagasse waste) Test Value Product Description 12mm AgribioPanel with Dry-Air Sandiwch of 48 mm 12mm AgribioPanel with Dry-Air Sandi



काष्ठ कम्पोज़िट जाँच एवं मूल्यांकन केन्द्र

Center for Testing And Evaluation of Wood Composites भारतीय प्लाईवुड उद्योग अनुसंधान एवं प्रशिक्षण संस्थान

NDIAN PLYWOOD INDUSTRIES RESEARCH & TRAINING INSTITUTE

(भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय का स्वायत्त संस्थान) (Autonomous Body of the Ministry of Environment, Forests & Climate Change, Govt. of India) पोस्ट बैग. सं. 2273, तुमकुर रोड, बेंगलूर - 560 022

e-mail: samplecell@ipirti.gov.in, Websites: http://www.ipirti.gov.in; http://www.bamboocomposites.com

Post Bag No. 2273, Turnkur Road, Bangalore-560 022 बनरल/General: +91-80-2839 4231/32/33, 3053 4000-4001; कैम्स/Fax: +91-80-3053 4008; ला/Grams : IPIRTI

TC9178210000000247F

#./No. JD/EIL/0125/Chem-247F/2021/Pune

Date: 23.04.2021

Table 1: Toxicity index of . ___e board (Eco Board) sample

Gases	Concentration in pptn For mass of 1.04 gms C _i (ppm)	Concentration of gas considered fatal to man for a 30 minute exposure time C ₁ (ppm)	Toxicity index
Carbon monoxide (CO)	(Correction factor 0)	4000	0.361
Ammonia (NH ₃)	0	750	0.000
Hydrogen chloride (HCI)	0	500	0.000
Sulphur dioxide (SO ₂)	0.1	400	0.024
Nitrous oxide (NO ₂)	0.1 (Correction factor 0)	250	0.038
Hydrogen cyanide (HCN)	0	150	0.000
Hydrogen fluoride (HF)	1.0	100	0.096
TOTAL TOXICITY INDEX for 7 gases listed above for 100 gms sample		-	0.519

Result: The texicity index of the material for 7 gases enlisted by client is found to be 0.519 for 100 gm sample.

OBSERVATIONS: During the test period or burn time for 120 seconds, it was observed that the flame spread was very low and no fumes were observed. Within 120 seconds the flame on the sample also arrested. No burning observed in the sample beyond 120 seconds. Charring of the sample with complete ash formation was noticed. Dripping of material or erratic burning was not observed. The entire mass was charred during the test duration.

Note: The test report is relevant to be sample received for testing.



urface, (kg/cm²)

Thickness Swelling After 2 hr, (%)



99, Badli Industrial Area, Phase-2, New Delhi 110042 +91 11 49491400

E-mail: mail@sigmatest.org

IS: 2380 (P-17) 1977

I5: 4020 (P-5) 1998

TESTING OF FOOD | WATER | CHEMICALS | PETROLEUM PRODUCTS | BUILDING MATERIAL | ENVIRONMENT

TEST CERTIFICATE

Sample: Wood Prelaminated 18mm HDUMR Pane	Report No	Page : 1/1 .: 21003798
Sample Description : Wood Prelaminated 18mm H	DUMR Panel	3.3
Customer Ref : Nil	Report Issu	e Date: 12/02/2021
Customer Name & Address :	Job Code	STRC/21003798
Strawcture Eco Pvt. Ltd.	Sample Received On	01/02/2021
52, Hari Om Nagar Colony, Phase-2, Civil Lines,	Date of Testing	01/02/2021-12/02/2021
Bichhiya, Gorakhpur, Uttar Pradesh - 273001	Sample Quantity	4 Pcs.
	V	
S. No. Test Parameters	Test Result	Test Method
1 Tensile Strength Perpendicular to	33.7	IS: 2380 (0.5) 1077

No Defects Such as

Cracking, Tearing or Delamination has found



99, Badli Industrial Area. Phase-2, New Delhi 110042

web : www.sigmatest.org

TESTING OF FOOD | WATER | CHEMICALS | PETROLEUM PRODUCTS | BUILDING MATERIAL | ENVIRONMENT

TEST CERTIFICATE

Sample : Wood Raw 18mm HDUMR Panels		Report No. : 21003797		
Sample Description: Wood Raw 18mm HDUMR Par	nels			
Customer Ref : Nil	Report Issu	re Date: 23/02/2021		
Customer Name & Address :	Job Code	STRC/21003797		
Strawcture Eco Pvt. Ltd.	Sample Received On	01/02/2021		
52. Hari Om Nagar Colony, Phase-2, Civil Lines, Bichhiya, Gorakhpur, Uttar Pradesh - 273001	Date of Testing	01/02/2021-22/02/2021		
	Sample Quantity	4 Pcs.		
	Sample Condition: Paci	ed properly		

S. No.	Test Parameters	Test Result	Test Method
1.	Density , (kg/m³)	733	IS: 2380 (P-3) 1977
	Variation from mean density, %	6.0	The second secon
2.	Moisture Content, (%)	9.8	IS: 2380 (P-3) 1977
400.50	Variation from mean moisture, %	No variation	The second secon
3,	Water Absorption, (%)		IS: 2380 (P-16) 1977
	(a) After 2 h soaking	15.8	4
100	(b) After 24 h soaking	43.0	Eller and the second
4.	Modulus of Rupture, (N/mm²)	7774	IS: 2380 (P-4) 1977
A	Average	17.82	V
- 4	Minimum Individual	16.70	V-70 + X
5.	Modulus of Elasticity, (N/mm²)	The law (IS: 2380 (P-4) 1977
	Average	1508	A
-	Minimum Individual	1407	COL YAI KON
6.	Internal Bond, (N/mm²)	m	IS: 2380 (P-5) 1977.
A	Average	1.15	A THE RESERVE AND A SECOND ASSESSMENT OF THE PERSON AND A SECOND ASSESSMENT OF THE PERSON ASSESS
	Minimum Individual	1.12	A VI III III III
7	Internal Bond, (N/mm²), (a) After Cyclic Test	V - V	IS: 2380 (P-5) 1977 & IS: 2380 (P-19) 1977
	Average	0.77	A CONTRACTOR OF THE PARTY OF TH
1000	Individual	0.74	
8.	Internal Bond, (N/mm²), (B) After accelerated water resistance test		IS: 2380 (P-5) 1977 & IS: 2380 (P-20) 1977
	Average	0.60	Q-10 X 5
Ma	Individual	0.59	200
9.	Screw Withdrawal Strength, (N)	-	I5: 2380 (P-14) 1977
1 1 1 1 1	(a) Face	1212	





MECHANICAL PROPERTIES



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TESTING OF FOOD | WATER | CHEMICALS | PETROLEUM PRODUCTS | BUILDING MATERIAL | ENVIRONMENT

TEST CERTIFICATE

Sample : Wood Raw 18mm HDUMR Panels		Report No	Report No. : 21003797		
ample	Description : Wood Raw 18mm HDUM	R Panels			
ustome	er Ref : Nil	Report Issu	e Date: 23/02/2021		
S. No.	Test Parameters	Test Result	Test Method		
-	(b) Edge	750	A		
10.	Dimensional Stability Test, (%)	0.11	IS: 2380 (P-18) 1977		





Phase-2, New Delhi 110042 : +91 11 49491400 E-mail: mail@sigmatest.org web : www.sigmatest.org



G OF FOOD | WATER | CHEMICALS | PETROLEUM PRODUCTS | BUILDING MATERIAL | ENVIRONMEN

Sample: High Density Moisture Resistant Biopanel 25 mm Thick Sample Description: High Density Moisture Resistant Biopanel 25 mm Thick

Ref. No.: Nil Issued To: STRAWCTURE ECO PVT. LTD. 52, Hari Om Nagar Colony, Phase-2, Civil Lines, Bichhiya, Gorakhpur, Uttar Pradesh-273001.

Report No: 21004289 Report Issue Date: 13/05/2021 Job Code: STRC/21004289 Date of testing: 26/04/2021-13/05/2021 Sample Received On: 26/04/2021 Sample Qty.: 12 Pcs. Page I of 3

Client: SELCO FOUNDATION, 690, 15TH Cross, 2nd Phase, J.P.Nagar, Bangalore-560078.

S. No.	Test Parameter(s)		Result	Test- Method
<u>A.</u>	Fire Resistance Properties	/		1//
A1.	Fire Rating	376 3	Class B1	DIN 4102-1 & DIN 4102-16
A2.	Flammability Test	// X	* // × x	UL 94
A2.1	Classification	94HB	94V-0	0.2/
A2.2	Rate of Burning, (inch/min)	0.09	Do not start to burn within 10 seconds.	14-1
A3.	Fire Proof	Combustibility Property		AS 1530.1-1994
<u>B.</u>	Physical Properties			
Bl.	Breaking Load, (MPa)	\ - /		IS:2542 (Part-2/Sec-4)-1981
B1.1	Transverse	3730		n n
B1.2	Longitudinal	771-3-37	-Ann // \	1

A1. Test Required: Determination of Fir

Test Method: DIN 4102-1 & DIN 4102-16

Testing Period: 26.84.2021 to 13.05.2021

Water Street	Vertical		lap.	Horizontal		
Flame Application	Trail 1	Trail 2	Trail 3	Trail 1	Trail 2	Trail 3
Ignition Time, (s)	55:25	54.98	56.25	62.34	61.98	62.18
Maximum flame height in 20s, (mm)	2.14	2.08	2.02	1.92	1.98	1:96
Fire ceased after, (s)	46.23	46.15	46.58	73.25	72.56	72.15

Result: The Fire Designation as per DIN 4102-1 is ClassB1 (Self-Extinguishable

A2. Test Required: Determination of Flammability Tes

Test Method: UL 94

Testing Period: 26.04.2021 to 13.05.2021

Temperature Conditions: Dry the sample at 105°C for six hours

Dimensions of the Specimen: 305mm*50mm*25mm

Mass per unit Area: 19.4kg/m2

	Flammability Test		
S. No.	A2.1 Classification	A2.2 Rate of Burning, (inch/min)	
1,	94HB	0.09	
2.	94V-0	Do not start to burn within 10 seconds.	



(AN ISO 9001-2015 CERTIFIED LABORATORY)

AN ISO/IEC-17025:2017 [NABL] ACCREDITED LABORATORY Celestral Building, Plot. No. 59, Road No. 12, Ground Floor, TSRC Tech Park, ICIA Nacharam, Hyderabad-500076, Telangana Email : kelvnlabs@gmail.com, www.kelvnlabs.com

TEST REPORT

Issued to: M/S Ecoboard Industries Ltd, 65/1-A,Akarshak Beilding,Opp Nal Stop, Report No: KL/055/2020-21 Date: 18.06.2020

Karve Road, Pune, Maharashtra, 411004

Work Order No: Nil. Tests required Sample Particulars compression Strength and Thornal Conductivity EcoBoard & Dry Air Sandwich of 48mm. Sample Quantity Date of receipt of samples 01 No. 12.06.2020. Date of starting of analysis Date of completion of analysis 14.06.2020 18.06.2020. Samples Conditioning Testing Room Condition 23x2°C,50x5% RI TEST RESULTS

S.No.	Test Parameter	Test Method	Test Result
1.	Thermal Conductivity	ASTM C518	0.0195 W/m-k
2.	Compression Strength @10% Deflection	ASTM D695	1.74 Kg/cm ²

Samples condition at receipt: Found ok.

Test Method: As agreed with the customer

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THERMAL INSULATION

