SUPREME PEB
Pre Engineered Buildings



SUPREME PEB COMPANY PROFILE

INDIA'S LEADING FULL SCOPE PRE ENGINEEREDBUILDING MANUFACTURER

61000 MT/PER ANNUM PRODUCTION CAPACITY

9039068025 / 7222902029

zubairkhan@scrd.in

peb.sales@scrd.in

www.scrd.in



SUPREME PEB
Pre Engineered Buildings



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Company Profile & Overview

SUPREME PEB
Pre Engineered Buildings

ABOUT SUPREME PEB

A BRIEF STORY ABOUT THE COMPANY

Supreme PEB, is an Indore, Madhya Pradesh based company specializing in Pre-Engineered Buildings (PEB), structural steel solutions, and industrial roofing systems. The company provides integrated services covering design, engineering, manufacturing, fabrication, and erection to meet the evolving needs of industrial and commercial infrastructure.

With a customer-focused approach and an emphasis on engineering quality, operational efficiency, and dependable project execution, Supreme PEB delivers customized solutions for factories, warehouses, industrial sheds, manufacturing facilities, and other large-scale steel structures. Its commitment to quality, durability, and practical design helps clients develop efficient infrastructure suited to their operational requirements.





SUPREME PEB
Pre Engineered Buildings

MEET THE DIRECTORS

THE VISION BEHIND OUR BRAND



Our Leadership Team | SUPREME PEB

At SUPREME PEB, our directors drive excellence, innovation, and sustainable growth through strong leadership and industry expertise. Their commitment to quality and customer satisfaction inspires us to deliver reliable PEB solutions and superior steel structures.



Director
Mr. Akhtar Hussain



Director
Mr. Firoz Khan



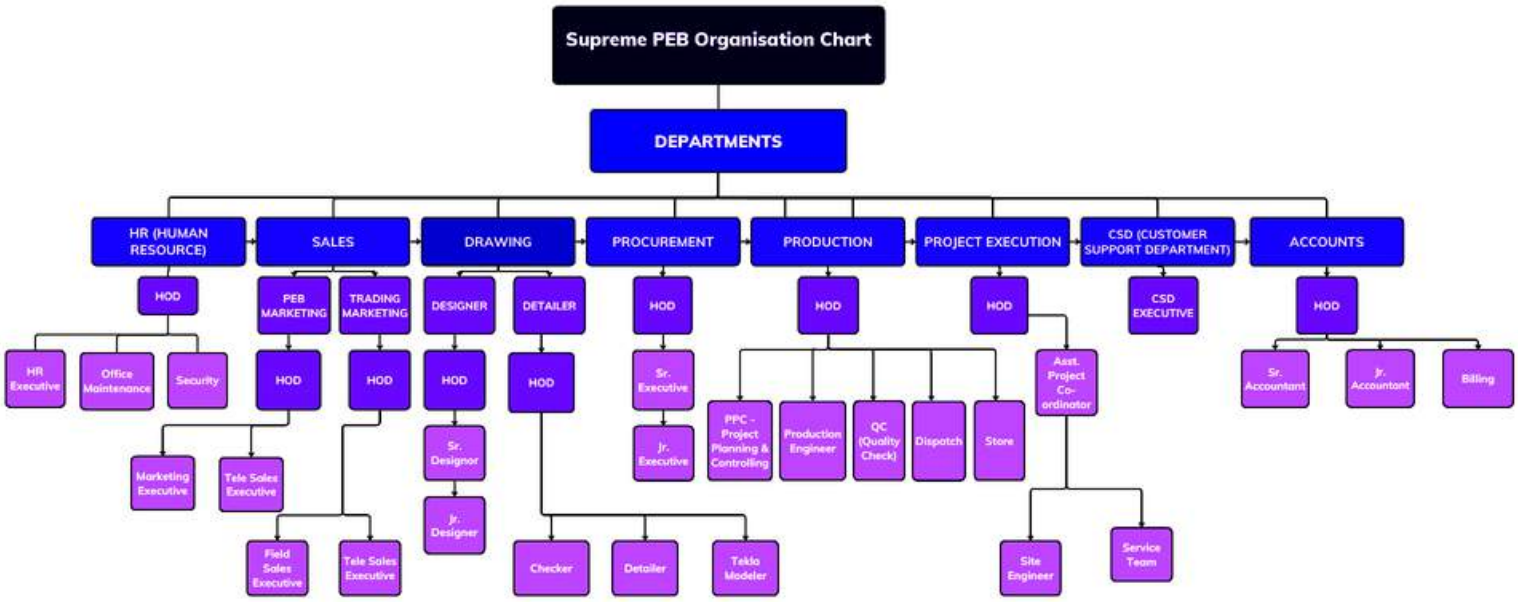
Managing Director
Mr. Zubair Khan

ORGANIZATION CHART



ORGANIZATION CHART - SUPREME PEB

Our organizational structure reflects a clear hierarchy, defined roles, and effective coordination across all departments. Guided by experienced leadership and supported by a dedicated team, our organization promotes accountability, collaboration, and operational excellence to achieve strategic objectives and sustainable growth.



SUPREME PEB
Pre Engineered Buildings





OUR COMMITMENT

At Supreme PEB, we believe that successful infrastructure combines engineering excellence, responsible execution, and long-term value. We strive to provide reliable, adaptable, and cost-effective steel building solutions that support industrial development and our customers' future growth.

CORE COMPETENCIES

01 End-to-End PEB Solutions: Design, engineering, manufacturing, fabrication, and on-site erection.

02 Industrial Infrastructure: Customized steel buildings for factories, warehouses, industrial sheds, and commercial facilities.

03 Roofing and Steel Products: Colour-coated roofing sheets, steel decking sheets, C and Z purlins, and related building components.

04 Quality and Durability: Focus on material quality, structural reliability, corrosion protection, and long-term performance.

05 Project Management: Coordinated execution with an emphasis on safety, construction efficiency, and timely delivery.

06 Customer-Centric Approach: Building solutions tailored to project specifications, site conditions, and business objectives.



SUPREME PEB

BUILT ON VISION.
DRIVEN BY EXCELLENCE.

VISION

To be a trusted and recognized name in the Pre-Engineered Building (PEB) and steel construction industry by delivering innovative, high-quality, and future-ready infrastructure solutions. We aspire to support industrial and commercial growth through strong, efficient, and adaptable steel structures that meet evolving business needs. By embracing engineering excellence, continuous improvement, and modern construction practices, we aim to contribute to the development of reliable and sustainable industrial infrastructure across India.

MISSION

At Supreme PEB, our mission is to transform our customers' construction requirements into practical, reliable, and cost-effective steel building solutions. We are committed to providing integrated services in design, engineering, manufacturing, roofing, and construction, with a strong emphasis on quality, safety, precision, and timely project execution.

We strive to understand each client's unique requirements and deliver customized solutions that maximize functionality, optimize material utilization, and support long-term operational efficiency. Through skilled professionals, effective project management, responsible resource utilization, and continuous technological improvement, we aim to maintain high standards throughout every stage of a project.

We are dedicated to building lasting relationships with our customers, employees, suppliers, and business partners through transparency, professional integrity, and dependable service. By continuously strengthening our capabilities and focusing on customer satisfaction, Supreme PEB seeks to contribute to industrial development while creating sustainable value for the businesses and communities we serve.



COMPLETE PEB SOLUTIONS WITH RELIABLE SUPPORT | SUPREME PEB

YOUR CHALLENGES. OUR EXPERTISE. ONE COMPLETE SOLUTION.

Choosing the right Pre-Engineered Building (PEB) partner can be challenging. Clients often face issues such as unclear project requirements, design changes, coordination gaps, material quality concerns, construction delays, installation challenges, and inadequate after-sales support.

At **Supreme PEB**, we understand these challenges and work to make the entire PEB journey simpler, smoother, and more reliable. From initial consultation and design to manufacturing, fabrication, erection, and project coordination, we provide comprehensive solutions under one roof.

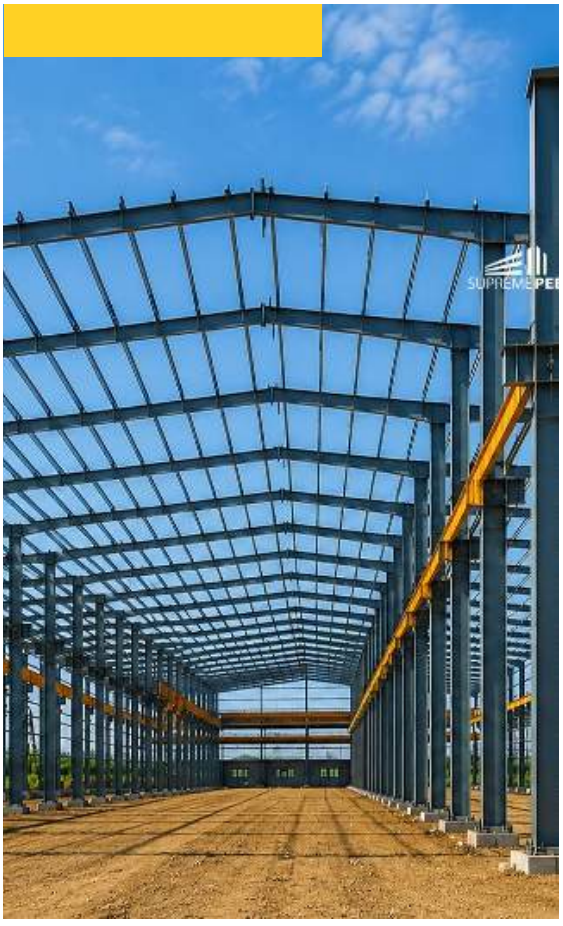
Our team focuses on understanding each client's requirements, resolving technical concerns, coordinating project activities, and providing guidance throughout the construction process. We believe that our responsibility extends beyond supplying a steel building—it includes supporting our clients at every important stage of their project.

HOW SUPREME PEB SUPPORTS ITS CLIENTS

- **Technical Guidance:** Assistance with project requirements, design coordination, and technical specifications.
- **Customized Solutions:** Building designs tailored to site conditions and client needs, future expansion plans etc.
- **Quality-Focused Manufacturing:** Attention to material specifications, fabrication quality, and structural requirements.
- **Coordinated Project Execution**: Support throughout manufacturing, delivery, and on-site erection.
- **Problem-Solving Approach:** Prompt attention to project concerns and coordination to help resolve challenges.
- **Continued Client Support:** Guidance and communication to address concerns during and after project completion, as agreed.

SWOT ANALYSIS

"SUPREME PEB — TURNING CHALLENGES INTO OPPORTUNITIES, AND VISIONS INTO REALITY."



STRENGTH

- Integrated PEB design, engineering, manufacturing, and erection.
- 2,000+ reported PEB projects.
- 40,000-ton annual capacity.
- JSW Steel distributor.
- Diverse steel roofing and structural product portfolio.
- Strategic location in Indore, serving PAN India.

WEAKNESSES

- Scope to improve digital visibility and online lead generation.
- High working-capital requirements for large projects.

OPPORTUNITIES

- Growing demand for industrial sheds, factories, and warehouses.
- Expansion into logistics parks and industrial corridors.
- Government, institutional, and infrastructure projects.
- New domestic and international markets.
- Digital marketing and strategic partnerships.

THREATS

- Steel price fluctuations and rising material costs.
- Intense competition and price-sensitive tenders.
- Delayed payments and project execution risks.
- Skilled labour shortages and supply-chain disruptions.



PRODUCT OVERVIEW

A BRIEF STORY ABOUT THE PRODUCT

Supreme PEB delivers integrated steel building solutions designed to meet the evolving needs of modern industries. Our product portfolio includes Pre-Engineered Buildings (PEB), colour-coated roofing sheets, C and Z purlins, steel decking sheets, and essential roofing accessories. Each product supports the development of durable, efficient, and cost-effective industrial and commercial infrastructure.





SUPREME PEB
FROM QUALITY STEEL TO EXTRAORDINARY STRUCTURES



By combining engineering expertise, quality-focused materials, and customized solutions, Supreme PEB helps businesses build reliable factories, warehouses, industrial sheds, and commercial structures.

Supreme PEB - Engineering Strength, Delivering Quality, Building the Future.

2,000+ PROJECTS. MULTIPLE MARKETS. ONE TRUSTED NAME - SUPREME PEB.

FROM INDORE TO INTERNATIONAL MARKETS - ENGINEERING PROGRESS EVERYWHERE.

With 2,000+ projects delivered across India and international markets, **Supreme PEB** demonstrates its commitment to engineering expertise, quality, and reliable steel building solutions. Our expanding geographical reach reflects our ambition to support industrial growth beyond borders.



INDIA	
State	Projects
Madhya Pradesh	1940
Gujarat	14
Maharashtra	22
Rajasthan	11
Chhattisgarh	7
Uttar Pradesh	6
Goa	2
Andhra Pradesh	1
West Bengal	3
Telangana	2
Assam	1

Globally	
Benin, West Africa	8
Nigeria, West Africa	6
Dubai, UAE	4
Australia	2

GLOBAL REACH. PROVEN EXPERTISE.

2,000+ PROJECTS DELIVERED

LAST 5 YEARS MONTHLY PRODUCTION

Year	B/U Section (Ton)	Cold From (Ton)	Total
2020	400	2500	2900
2021	450	2700	3150
2022	480	3000	3480
2023	650	3300	3950
2024	950	3500	4450
2025	1300	3800	5100

Main Frame	Cold Form	Total
15600 MT / Year	45600 MT / Year	61000 MT / Year



SUPREME PEB
Pre Engineered Buildings



SUPREME'S ESTEEMED PEB CLIENTS:

S. No.	CLIENT	TONNAGE (MT)	LOCATION
1	HD WIRE (P) Limited	4500	Dhule (MH)
2	NRL Refinery Limited	2900	Assam
3	Karnataka Antibiotics & Pharmaceuticals Limited	2400	Ujjain (MP)
4	Kutch Copper Limited (Adani)	2300	Kutch (Gujarat)
5	URC Construction (P) Ltd (Indore Metro)	1200	Indore (MP)
6	Shriji Polymers (India) Limited	1200	Ujjain (MP)
7	APM Terminals Limited	800	Pipavav Port (GJ)
8	Gufic Biosciences Limited	700	SIP, Pithampur (MP)
9	Microgen Healthcare Pvt . Limited	700	Vikram Udyogpuri Ujjain (MP)
10	Maharashtra Oil Extraction Pvt. Limited	650	MIDC, Dhule (MH)
11	Raaj Medisafe India Limited	600	Sector 3, Pithampur (MP)
12	Bhadora Industries Limited (Vidhut Cables)	600	Kasrawad, Nimrani (MP)
13	Aadinath Flexipack Pvt. Limited	550	Kalaria, Dhar road (MP)
14	Gajraj Agrotech Pvt. Limited	500	8 Mill, Nemawar Road Indore (MP)
15	GPS Renewables Pvt. Limited (Reliance Industries)	450	Kakinada (AP), Suratgarh (RJ), Chandauli (UP)



SUPREME'S ESTEEMED PEB CLIENTS:

S. No.	CLIENT	TONNAGE (MT)	LOCATION
16	Aegis Vopak Terminals Limited	415	Pipavav Port (GJ)
17	Larsen & Toubro Limited	400	Natrax, Pithampur (MP)
18	Pratibha Syntex Limited	400	Ujjain (MP)
19	Prashun Foods Pvt. Limited	400	Dhamnod (MP)
20	Avantee Mega Food Park Pvt. Limited (Ruchi Soya Group)	390	Indore (MP)
21	Shivarna Technofoam Pvt. Limited	350	Hatuniya, Indore (MP)
22	Taj Hotels	300	Jaipur, Amer (RJ)
23	Elixrr Industries Pvt. Limited	300	Gwalior (MP)
24	Krishaangi Agro Foods Pvt. Limited	300	Ralamandal, Indore (MP)
25	H & R Johnson Limited	300	Dewas (MP)
26	Samaria Exports Pvt. Limited	300	Paliya, Indore (MP)
27	Dalmia Bharat Sugar & Industries Limited	250	Sangli (MH)
28	Ricelake Weighing System India Limited	200	SIP, Pithampur (MP)
29	HCC-Tata Projects	200	Super Corridor Indore (MP)



SUPREME'S ESTEEMED PEB CLIENTS:

Shriji
HCC
TATA PROJECTS
कॉनकॉर CONCOR
H.D. WIRES PVT. LTD.
APM TERMINALS Lifting Global Trade
Dalmia Bharat Sugar
DILIP BUILDCON LIMITED INFRASTRUCTURE & BEYOND
PRISM JOHNSON LIMITED (FORMERLY PRISM CEMENT LIMITED)
Pratibha
NRL Numaligarh Refinery Limited
URC Building Values
LARSEN & TOUBRO
adani wilmar
रेल विकास निगम लिमिटेड Rail Vikas Nigam Limited गुणवत्ता, गति एवं पारदर्शिता (A Government of India Enterprise)
TAJ Hotels Resorts and Palaces
MAAN Aluminium Ltd
MOEL
GRIL®
RICE LAKE WEIGHING SYSTEMS
GUFIC BIOSCIENCES LIMITED
TVS
KHAITAN CHEMICALS AND FERTILIZERS GROUP
Millennium BABYCARES
SARCO PROMPT & SECURED SERVICES
gps renewables
KAP Karnataka Antibiotics and Pharmaceuticals Ltd
NIMAR MOTOR'S
duroflex MATTRESSES | PILLOWS | BED LINEN
Vidhut CABLES

SUPREME PEB Pre Engineered Buildings



OUR MACHINERY

COLD FORM

PROFILE

- 5 x 1060/1280 Roll Former
- 1x 900 Standing seam
- 1 x Klip lock
- 1 x 1090 RollFormer

PURLIN

- 2 x Z Purlin Roll Former
- 2 xZ PurlinRollFormer

SHEARING

- 1 x 6m Hydraulic Shear
- 1x 4m Press Break
- 1 x Lock-seam Machine

MAIN FRAME

CUTTING

- 1 x 6.5 m Hydraulic Shear
- 1 x CNC Profile Cutter
- 1 x Ironworker Machine
- 1 x CNC Drills

WELDING

- 2 x Fully Automated SAW Lines
- 30 x MIG Welding Machine

FINISHING

- 1 x Shot Blasting Machine
- 30 x Grinding Machine



OUR MACHINERY

- PLASMA MACHINE 105 A
- CNC DRILL MACHINE
- GICA MACHINE
- TAKING MACHINE
- TREADING MACHINE
- ARC MACHINE
- GRACO AIRLESS (PAINTING M/C
- PLASMA MACHINE 200 A
- SAW MACHINE
- SHOT BLASTING
- POWER PRESS
- MIG MACHINE
- HAND PLASMA
- MAGNATIC HAND DRILL

SUPREME PEB
Pre Engineered Buildings

CUTTING SECTION

PRECISION CUTTING & STEEL PROCESSING EXCELLENCE

The Cutting Section at Supreme PEB Company plays a vital role in ensuring precision, quality, and efficiency in pre-engineered building manufacturing. Equipped with advanced cutting machinery and operated by skilled professionals, the section ensures accurate cutting of steel components as per approved drawings and specifications. Through strict quality control, efficient material utilization, and a strong commitment to workplace safety, the team contributes to reduced material wastage, improved productivity, and timely project execution.





EXPLORE FACTORY

Grinding & Painting – Finishing and Protective Coating Excellence

At Supreme PEB Company, the Grinding and Painting section ensures superior surface finish and long-lasting corrosion protection of fabricated steel components. Through precision grinding, effective surface preparation, and quality-controlled paint application, we enhance product durability, appearance, and resistance to environmental conditions. Our commitment to quality, safety, delivery and operational excellence ensures reliable, high-quality solutions for Pre-Engineered Buildings (PEB).



Shot Blasting – Surface Preparation Excellence

At SUPREME PEB, shot blasting ensures effective removal of rust, mill scale, and surface contaminants from structural steel. This process improves paint adhesion, enhances corrosion resistance, and ensures durable, high-quality finishes for our PEB structures. Superior Surface Preparation. Lasting Protection. Supreme Quality.



EXPLORE FACTORY

Cold Forming Section- Precision Engineering Excellence

At Supreme PEB Company, the Cold Forming Section specializes in manufacturing high-quality, precision-engineered steel profiles for Pre-Engineered Buildings (PEB). Utilizing advanced roll-forming technology and stringent quality control, the section ensures dimensional accuracy, consistent product quality, and optimal material utilization. Our focus on manufacturing efficiency, structural reliability, and continuous improvement reflects Supreme PEB Company's commitment to delivering durable, cost-effective, and high-performance building solutions.







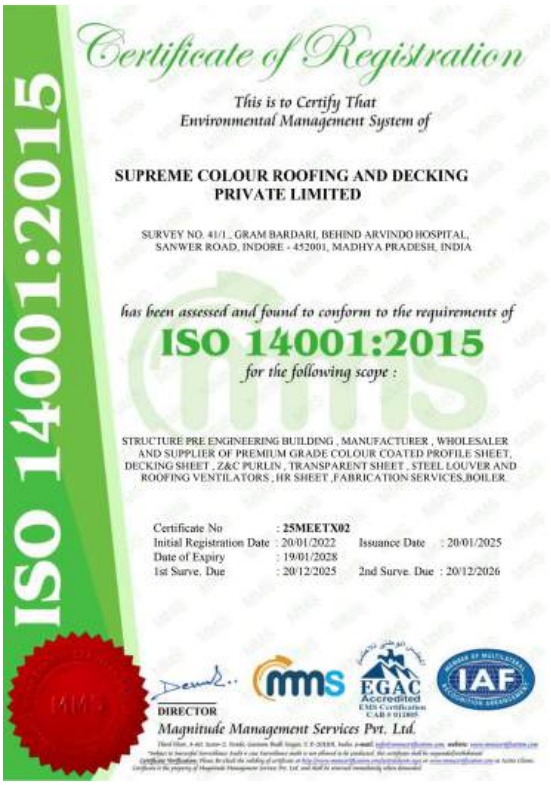


Product QUALITY, QMS & International Certifications

SUPREME PEB
Pre Engineered Buildings

CERTIFIED TO DELIVER COMMITTED TO EXCELLENCE

SUPREME PEB - CERTIFIED QUALITY, ENGINEERING EXCELLENCE & GLOBAL STANDARDS



ISO 14001:2015

Certificate of Registration

This is to Certify That
Environmental Management System of

SUPREME COLOUR ROOFING AND DECKING PRIVATE LIMITED

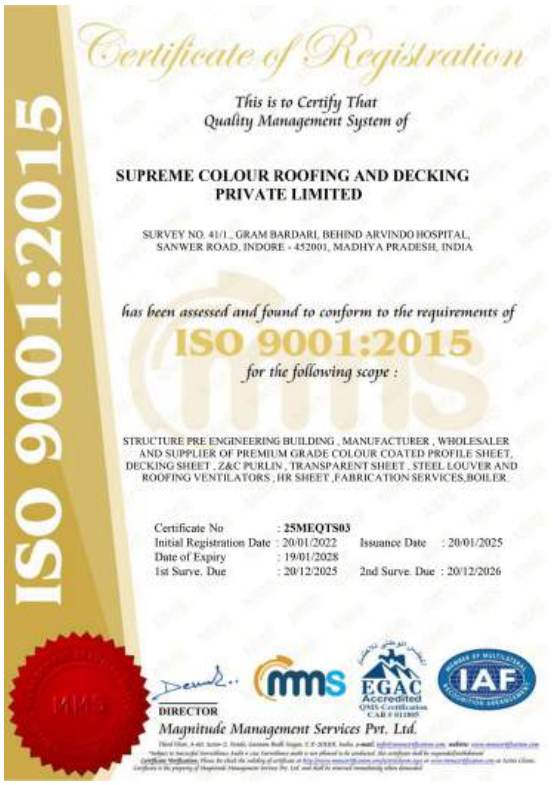
SURVEY NO. 41/1, GRAM BARDARI, BEHIND ARVINDO HOSPITAL, SANWER ROAD, INDORE - 452001, MADHYA PRADESH, INDIA

has been assessed and found to conform to the requirements of
ISO 14001:2015
for the following scope :

STRUCTURE PRE ENGINEERING BUILDING , MANUFACTURER , WHOLESALER AND SUPPLIER OF PREMIUM GRADE COLOUR COATED PROFILE SHEET, DECKING SHEET , Z&C PURLIN , TRANSPARENT SHEET , STEEL LOUVER AND ROOFING VENTILATORS , HR SHEET ,FABRICATION SERVICES,BOILER.

Certificate No : 25MEETX02
Initial Registration Date : 20/01/2022 Issuance Date : 20/01/2025
Date of Expiry : 19/01/2028
1st Surve. Due : 20/12/2025 2nd Surve. Due : 20/12/2026

DIRECTOR
Magnitude Management Services Pvt. Ltd.



ISO 9001:2015

Certificate of Registration

This is to Certify That
Quality Management System of

SUPREME COLOUR ROOFING AND DECKING PRIVATE LIMITED

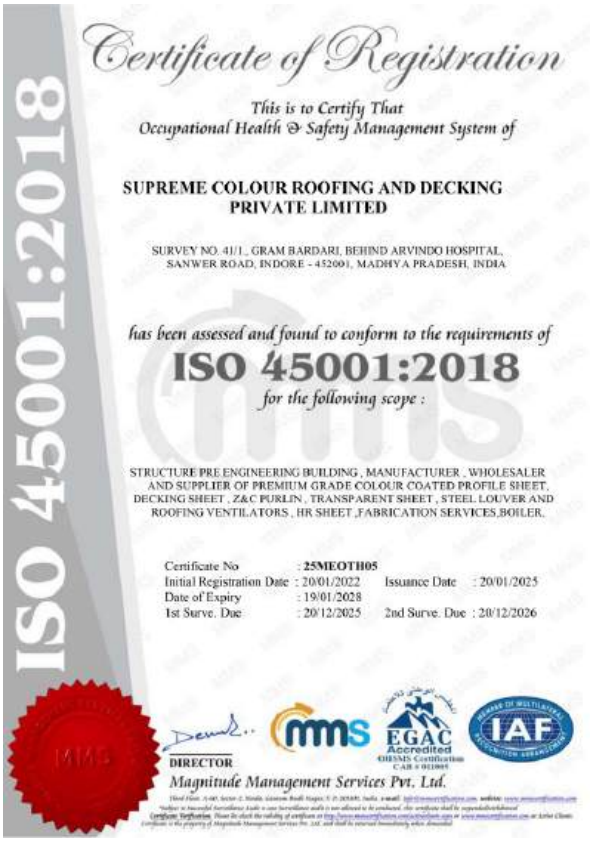
SURVEY NO. 41/1, GRAM BARDARI, BEHIND ARVINDO HOSPITAL, SANWER ROAD, INDORE - 452001, MADHYA PRADESH, INDIA

has been assessed and found to conform to the requirements of
ISO 9001:2015
for the following scope :

STRUCTURE PRE ENGINEERING BUILDING , MANUFACTURER , WHOLESALER AND SUPPLIER OF PREMIUM GRADE COLOUR COATED PROFILE SHEET, DECKING SHEET , Z&C PURLIN , TRANSPARENT SHEET , STEEL LOUVER AND ROOFING VENTILATORS , HR SHEET ,FABRICATION SERVICES,BOILER.

Certificate No : 25MEQTS03
Initial Registration Date : 20/01/2022 Issuance Date : 20/01/2025
Date of Expiry : 19/01/2028
1st Surve. Due : 20/12/2025 2nd Surve. Due : 20/12/2026

DIRECTOR
Magnitude Management Services Pvt. Ltd.



ISO 45001:2018

Certificate of Registration

This is to Certify That
Occupational Health & Safety Management System of

SUPREME COLOUR ROOFING AND DECKING PRIVATE LIMITED

SURVEY NO. 41/1, GRAM BARDARI, BEHIND ARVINDO HOSPITAL, SANWER ROAD, INDORE - 452001, MADHYA PRADESH, INDIA

has been assessed and found to conform to the requirements of
ISO 45001:2018
for the following scope :

STRUCTURE PRE ENGINEERING BUILDING , MANUFACTURER , WHOLESALER AND SUPPLIER OF PREMIUM GRADE COLOUR COATED PROFILE SHEET, DECKING SHEET , Z&C PURLIN , TRANSPARENT SHEET , STEEL LOUVER AND ROOFING VENTILATORS , HR SHEET ,FABRICATION SERVICES,BOILER.

Certificate No : 25MEOTH05
Initial Registration Date : 20/01/2022 Issuance Date : 20/01/2025
Date of Expiry : 19/01/2028
1st Surve. Due : 20/12/2025 2nd Surve. Due : 20/12/2026

DIRECTOR
Magnitude Management Services Pvt. Ltd.



SUPREME PEB
Pre Engineered Buildings



MATERIAL TEST CERTIFICATE (MTC)

IS: 277

CM/L 0001800239

STEEL COATED PRODUCTS LIMITED

(An QMS- ISO 9001, EnMS- ISO 50001, EMS- ISO 14001, OHS&S- ISO 45001 Company)
KALMESHWAR , Dist : NAGPUR
Post : 441501
Regd. Office : JSW Centre, Bandra Kurla Complex, Bandra(East), Mumbai - 400 051
CIN NO : U27100MH1985PLC037346

TEST CERTIFICATE FOR GALVANIZED STEEL SHEETS (PLAIN AND CORRUGATED)

TC NO	:	7108441941	
Truck Number	:	MP48H2611	
Sales Order No	:	402895006	
Product	:	GI Coils	
Invoice Date	:	06.09.2025	
Sales Specification	:	277_2018	

Location : KALMESHWAR
To : Pragati Steel Sales
: INDORE 334/2/4/1 PALDA
Madhya Pradesh

Ship to pary : Supreme Colour Roofing & Decking Pv

It is certified that the material described below fully conforms to IS 277:2018. Chemical composition and mechanical properties of the product, as tested in accordance with the Scheme of Testing and Inspection contained in the BIS Certification Marks Licence No. CM/L 0001800239 are as indicated below against each order no .
(PLEASE REFER TO IS 277:2018 FOR DETAIL OF SPECIFICATION REQUIREMENTS)

Test Results

Lot/Coil No.	Heat No	Quality	Surface Treat	Specifications Grade	Dimensions					Qty (MT)	Physical & Mechanical Properties							Chemical Properties						
					Thick (mm)	Width (mm)	Length (mm)	Lengh (mtr)	No Of Pieces		Bend Test	Hard HRB	Coat Grd Gsm	ECV MM	Y.S. MPa	UTS MPa	EL% (GL)	C %	Mn %	P %	S %	Si %	Al %	N %
KG2AEH2632	B046570	Prime	STL/ CR6	GP_350_CLASS_2	2.000	1,050.0	NA	643.000	NA	**10.300**	Pass	78	284 275		383	432	22.00	0.062	**1.150**	**0.020**	**0.005**	0.190	**0.041**	**0.004**
KG2AEH2631	B046570	Prime	STL/ CR6	GP_350_CLASS_2	2.000	1,050.0	NA	656.000	NA	**10.555**	Pass	78	282 275		383	432	22.00	0.062	**1.150**	**0.020**	**0.005**	0.190	**0.041**	**0.004**
									Total Quantity	20.855														

Note : The material supplied conforms to the specified dimensions and tolerances.

Remarks: We certify that the material complies with the order and specification requirement given by customer
The Material supplied conforms to specified /agreed dimension and tolerances.

Prepared By : ATISH SHENDE

Signature
ABHAY GIRHARE
HOD QA Dept.
For JSW Steel Coated products Ltd.

Page :1/1

SUPREME PEB
Pre Engineered Buildings



MATERIAL TEST CERTIFICATE (MTC)

KWALITY FORGE
(AN ISO 9001:2015 Co.)
SERVING SINCE 1980

TEST CERTIFICATE

Certificate No. KF/1309/02 Dated : 13.09.2024

Name of the Party: SUPREME COLOUR ROOFING & DECKING PVT. LTD.	INVOICE NO : G - 624
	GRADE : 8.8
Material Description: HEX BOLT & NUT,1 P/W, 1S/W	FINISH : ZP

I. CHEMICAL ANALYSIS AS PER IS 1367-PART-III & VI

		BOLT				NUT			
Description/Size		C%	S%	P%	B%	C%	S%	P%	Mn%
	Min	0.15	--	--	.....	--	--	--	0.25
	Max	0.400	0.035	0.035	0.003	0.580	0.150	0.060	....
HEX BOLT M12 X 50		0.254	0.014	0.016	0.0008	.....	.....	.....	....
HEX NUT M12		.....	.....	.....	.....	0.266	0.015	0.026	0.97

II. MECHANICAL PROPERTIES AS PER IS 1367 PART-III & VI

	BOLT				NUT	
Materials Details	QTY	Pieces Checked	Ultimate Tensile load Test In KN	Proof Load Test In KN	Hardness In HRC	Hardness In HRC	Proof Load Test In KN
	KGS	PCS	67.40 KN	48.90 KN	22 - 32	12 - 30	74.20 KN
HEX BOLT M12 X 50	500	5	75.30 - 79.24	OK	27 - 30	.....	.....
HEX NUT M12	200	5	.....	.....	.....	25 - 26	OK

III. CHEMICAL ANALYSIS AS PER IS 2062-2006

	WASHER						
Description/Size		C%	S%	P%	Mn%	Si%		
QTY : 200 KGS	Min	--	--	--	--	--		
	Max	0.230	0.045	0.045	1.500	0.400		
PLAIN WASHER M12		0.12	0.013	0.011	0.44	0.16		

IV. CHEMICAL ANALYSIS AS PER IS 4072-1975

	SPRING WASHER						
Description/Size		C%	S%	P%	Mn%	Si%		
QTY : 100 KGS	Min	0.55	--	--	0.50	0.10		
	Max	0.65	0.050	0.050	0.80	0.35		
SPRING WASHER M12		0.627	0.016	0.015	0.63	0.26		

VI. ELECTRO GALVANIZING AS PER IS 1367 PART XII

1. Coating Thickness: Tested with Elco- Meter and found coating thickness between 10 - 14 microns against requirement of 8 micron minimum , so found **Satisfactory.**

VII. VISUAL TEST

Observation: **Visual & fitment checked found ok & No Surface Discontinuities observed and found Satisfactory.**

SUPREME PEB
Pre Engineered Buildings



IN-HOUSE/THIRD-PARTY INSPECTION & TEST REPORT

Prob N Analytical Services LLP
NABL Accredited as per ISO IEC-17025 - Certificate No. TC-15674
Plot-3, Survey No. 67/2,68/2, Bardari, Tehsil Sanwer, Dist. Indore-453111
Mob. 8839727927, 9893319921, 9752740900
Email : probnlabs@gmail.com
TC-15674

TEST REPORT

Customer: M/s. GR Logistics Park (Indore) Pvt. Ltd. Multi Modal Logistics Park, Pithampur Industrial Area, Pithampur, (M.P)	Certificate No. ULR : TC150742600001734F Date : 17.02.2026 Reference No. :GRIL/IMPL/MMLP/QAQC/00130 Dated : 13.12.2025

Sample Particulars	Name of Sample : Sag Rod				
a.	No. of Sample(s)	1	h.	Lab. Code No.	PAS- 842/1
b.	Grade/Size etc.	E-250 BR, 12mm	i.	Dt. of Receipt	16.02.2026
c.	B. No. /DOM	—	j.	Dt. of completion of Test(s	16.02.2026
d.	Brand Name	RINL	k.	IO's Signature	Sealed & Signed
e.	Sample Qty.	1 No.	l.	Test(s)	Specified
f.	Sample Condition	Good	m.	Product Specification	IS 2062:2011
g.	Any other Inform.	Project: Development,operation & maintenance of multi modal logistic park(MMLP Pithampur Dist. Dhar. Structure Bonded Warehouse.			

TEST RESULTS

S. No.	Test (s)	Requirements	Results Observed
1.	**Tensile Test :** IS 1608(Pt.1):2022		
a.	Yield Stress (MPa)	Min. 250	399.16
b.	Tensile Strength (MPa)	Min. 410	527.86
c.	Elongation (%) (5.65√So)	Min. 23	37.16
2.	Bend Test (2t) IS 1599:2023	Shall not crack	Satisfactory
3.	**Chemical Analysis**		
a.	Carbon % IS 228(Pt.1) :2025	Max. 0.22	0.13
b.	Sulphur % IS 228(Pt.9) :1989	Max. 0.045	0.042
c.	Phosphorus % IS 228(Pt.3) :2024	Max. 0.045	0.027
d.	Manganese % IS 228(Pt.2) :2024	Max. 1.50	0.56
e.	Silicon % IS 228(Pt.8) :1989	Max. 0.40	0.16

Remark: 1. The above sample of Sag rod of size12mm confirms to IS 2062:2011,w.r.t above tests.
2. The above test are witnessed by Mr. SK Rai (Team Leader) RITES, Lucknow, Mr. Gulab Prajapati (Warehouse Expert), Mr. Mahinder Singh (Sr.Quality cum Metal expert), Mr. Harshvardan Singh (AQME) RITES, Mr. Mayank Kumar (Sr. Manager QC) GRIL & Mr. Ajay Sharma, Mr. Parvej Ahmad, representatives from Supreme Color Roofing & Decking Pvt. Ltd. Indore.

Test performed / reviewed by

Dr. B.C. Nair
(General Manager)
Authorised Signatory

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Mob. 8839727927, 9893319921, 9752740900
Email : probnlabs@gmail.com
TC-15674

TEST REPORT

Customer: M/s. GR Logistics Park (Indore) Pvt. Ltd. Multi Modal Logistics Park, Pithampur Industrial Area, Pithampur, (M.P)	Certificate No. ULR : TC150742600001735F Date : 17.02.2026 Reference No. :GRIL/IMPL/MMLP/QAQC/00130 Dated : 13.12.2025

Sample Particulars	Name of Sample : Rod Bracing				
a.	No. of Sample(s)	1	h.	Lab. Code No.	PAS- 842/2
b.	Grade/Size etc.	E-250 BR, 25 mm	i.	Dt. of Receipt	16.02.2026
c.	B. No. /DOM	—	j.	Dt. of completion of Test(s	16.02.2026
d.	Brand Name	RINL	k.	IO's Signature	Sealed & Signed
e.	Sample Qty.	1 No.	l.	Test(s)	Specified
f.	Sample Condition	Good	m.	Product Specification	IS 2062:2011
g.	Any other Inform.	Project: Development,operation & maintenance of multi modal logistic park(MMLP Pithampur Dist. Dhar. Structure Bonded Warehouse.			

TEST RESULTS

S. No.	Test (s)	Requirements	Results Observed
1.	**Tensile Test :** IS 1608(Pt.1):2022		
a.	Yield Stress (MPa)	Min. 250	273.33
b.	Tensile Strength (MPa)	Min. 410	505.42
c.	Elongation (%) (5.65√So)	Min. 23	25.86
2.	Bend Test (2t) IS 1599:2023	Shall not crack	Satisfactory
3.	**Chemical Analysis**		
a.	Carbon % IS 228(Pt.1) :2025	Max. 0.22	0.20
b.	Sulphur % IS 228(Pt.9) :1989	Max. 0.045	0.034
c.	Phosphorus % IS 228(Pt.3) :2024	Max. 0.045	0.034
d.	Manganese % IS 228(Pt.2) :2024	Max. 1.50	0.57
e.	Silicon % IS 228(Pt.8) :1989	Max. 0.40	0.22

Remark: 1. The above sample of Rod Bracing of size 25mm confirms to IS 2062:2011,w.r.t above tests.
2. The above test are witnessed by Mr. SK Rai (Team Leader) RITES, Lucknow, Mr. Gulab Prajapati (Warehouse Expert), Mr. Mahinder Singh (Sr.Quality cum Metal expert), Mr. Harshvardan Singh (AQME) RITES, Mr. Mayank Kumar (Sr. Manager QC) GRIL & Mr. Ajay Sharma, Mr. Parvej Ahmad, representatives from Supreme Color Roofing & Decking Pvt. Ltd. Indore.

Test performed / reviewed by

Dr. B.C. Nair
(General Manager)
Authorised Signatory

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TC-15674

TEST REPORT

Customer: M/s. GR Logistics Park (Indore) Pvt. Ltd. Multi Modal Logistics Park, Pithampur Industrial Area, Pithampur, (M.P)	Certificate No. ULR : TC150742600001736F Date : 17.02.2026 Reference No. :GRIL/IMPL/MMLP/QAQC/00130 Dated : 13.12.2025

Sample Particulars	Name of Sample : MS Angle				
a.	No. of Sample(s)	1	h.	Lab. Code No.	PAS- 842/3
b.	Grade/Size etc.	E-250 BR,100x100x10mm	i.	Dt. of Receipt	16.02.2026
c.	B. No. /DOM	—	j.	Dt. of completion of Test(s	16.02.2026
d.	Brand Name	SAIL	k.	IO's Signature	Sealed & Signed
e.	Sample Qty.	1 No.	l.	Test(s)	Specified
f.	Sample Condition	Good	m.	Product Specification	IS 2062:2011
g.	Any other Inform.	Project: Development,operation & maintenance of multi modal logistic park(MMLP Pithampur Dist. Dhar. Structure Bonded Warehouse.			

TEST RESULTS

S. No.	Test (s)	Requirements	Results Observed
1.	**Tensile Test :** IS 1608(Pt.1):2022		
a.	Yield Stress (MPa)	Min. 250	265.73
b.	Tensile Strength (MPa)	Min. 410	434.22
c.	Elongation (%) (5.65√So)	Min. 23	37.24
2.	Bend Test (2t) IS 1599:2023	Shall not crack	Satisfactory
3.	**Chemical Analysis**		
a.	Carbon % IS 228(Pt.1) :2025	Max. 0.22	0.10
b.	Sulphur % IS 228(Pt.9) :1989	Max. 0.045	0.035
c.	Phosphorus % IS 228(Pt.3) :2024	Max. 0.045	0.025
d.	Manganese % IS 228(Pt.2) :2024	Max. 1.50	0.47
e.	Silicon % IS 228(Pt.8) :1989	Max. 0.40	0.09

Remark: 1. The above sample of MS Angle of size100x100x10mmconfirms to IS 2062:2011,w.r.t above tests.
2. The above test are witnessed by Mr. SK Rai (Team Leader) RITES, Lucknow, Mr. Gulab Prajapati (Warehouse Expert), Mr. Mahinder Singh (Sr.Quality cum Metal expert), Mr. Harshvardan Singh (AQME) RITES, Mr. Mayank Kumar (Sr. Manager QC) GRIL & Mr. Ajay Sharma, Mr. Parvej Ahmad, representatives from Supreme Color Roofing & Decking Pvt. Ltd. Indore.

Test performed / reviewed by

Dr. B.C. Nair
(General Manager)
Authorised Signatory

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TEST REPORT

Customer: M/s. GR Logistics Park (Indore) Pvt. Ltd. Multi Modal Logistics Park, Pithampur Industrial Area, Pithampur, (M.P)	Certificate No. ULR : TC150742600001737F Date : 17.02.2026 Reference No. :GRIL/IMPL/MMLP/QAQC/00130 Dated : 13.12.2025

Sample Particulars	Name of Sample : FBC & Rake Angle				
a.	No. of Sample(s)	1	h.	Lab. Code No.	PAS- 842/4
b.	Grade/Size etc.	GP-350 Class 1, t 1.5 mm	i.	Dt. of Receipt	16.02.2026
c.	B. No. /DOM	—	j.	Dt. of completion of Test(s	16.02.2026
d.	Brand Name	JSW	k.	IO's Signature	Sealed & Signed
e.	Sample Qty.	1 No.	l.	Test(s)	Specified
f.	Sample Condition	Good	m.	Product Specification	IS 277:2018
g.	Any other Inform.	Project: Development,operation & maintenance of multi modal logistic park(MMLP Pithampur Dist. Dhar. Structure Bonded Warehouse.			

TEST RESULTS

S. No.	Test (s)	Requirements	Results Observed
1.	**Tensile Test :** IS 1608(Pt.1):2022		
a.	Yield Stress (MPa)	Min. 350	374.58
b.	Tensile Strength (MPa)	Min. 420	542.20
c.	Elongation (%) (5.65√So)	Min. 15	26.02
2.	**Chemical Analysis**		
a.	Carbon % IS 228(Pt.1) :2025	Max. 0.25	0.08
b.	Sulphur % IS 228(Pt.9) :1989	Max. 0.040	0.005
c.	Phosphorus % IS 228(Pt.3) :2024	Max. 0.050	0.016
d.	Manganese % IS 228(Pt.2) :2024	Max. 1.35	0.94
e.	Silicon % IS 228(Pt.8) :1989	—	0.07

Remark: 1. The above sample of FBC & Rake Angle confirms to IS 277:2018 ,w.r.t above tests.
2. The above test are witnessed by Mr. SK Rai (Team Leader) RITES, Lucknow, Mr. Gulab Prajapati (Warehouse Expert), Mr. Mahinder Singh (Sr.Quality cum Metal expert), Mr. Harshvardan Singh (AQME) RITES, Mr. Mayank Kumar (Sr. Manager QC) GRIL & Mr. Ajay Sharma, Mr. Parvej Ahmad, representatives from Supreme Color Roofing & Decking Pvt. Ltd. Indore.

Test performed / reviewed by

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(General Manager)
Authorised Signatory

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TEST REPORT

Customer: M/s. GR Logistics Park (Indore) Pvt. Ltd. Multi Modal Logistics Park, Pithampur Industrial Area, Pithampur, (M.P)	Certificate No. ULR : TC150742600001738F Date : 17.02.2026 Reference No. :GRIL/IMPL/MMLP/QAQC/00130 Dated : 13.12.2025

Sample Particulars	Name of Sample : Roof Sheeting				
a.	No. of Sample(s)	1	h.	Lab. Code No.	PAS- 842/5
b.	Grade/Size etc.	AZ-150, t 0.5 mm	i.	Dt. of Receipt	16.02.2026
c.	B. No. /DOM	—	j.	Dt. of completion of Test(s	16.02.2026
d.	Brand Name	JSW	k.	IO's Signature	Sealed & Signed
e.	Sample Qty.	1 No.	l.	Test(s)	Specified
f.	Sample Condition	Good	m.	Product Specification	IS 15965:2012
g.	Any other Inform.	Project: Development,operation & maintenance of multi modal logistic park(MMLP Pithampur Dist. Dhar. Structure Bonded Warehouse.			

TEST RESULTS

S. No.	Test (s)	Requirements	Results Observed
1.	**Tensile Test :** IS 1608(Pt.1):2022		
a.	Yield Stress (MPa)	Min. 350	398.60
b.	Tensile Strength (MPa)	Min. 420	556.75
c.	Elongation (%) (50 mm GL)	Min. 15	20.12
c.	Thickness (mm)	0.50	0.51
2.	**Chemical Analysis**		
a.	Carbon % IS 228(Pt.1) :2025	Max. 0.25	0.10
b.	Sulphur % IS 228(Pt.9) :1989	Max. 0.040	0.012
c.	Phosphorus % IS 228(Pt.3) :2024	Max. 0.050	0.026
d.	Manganese % IS 228(Pt.2) :2024	Max. 1.35	0.48
e.	Silicon % IS 228(Pt.8) :1989	—	0.14

Remark: 1. The above sample of Roof Sheeting confirms to IS 15965:2012,w.r.t above tests.
2. The above test are witnessed by Mr. SK Rai (Team Leader) RITES, Lucknow, Mr. Gulab Prajapati (Warehouse Expert), Mr. Mahinder Singh (Sr.Quality cum Metal expert), Mr. Harshvardan Singh (AQME) RITES, Mr. Mayank Kumar (Sr. Manager QC) GRIL & Mr. Ajay Sharma, Mr. Parvej Ahmad, representatives from Supreme Color Roofing & Decking Pvt. Ltd. Indore.

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TEST REPORT

Customer: M/s. GR Logistics Park (Indore) Pvt. Ltd. Multi Modal Logistics Park, Pithampur Industrial Area, Pithampur, (M.P)	Certificate No. ULR : TC150742600001739F Date : 17.02.2026 Reference No. :GRIL/IMPL/MMLP/QAQC/00130 Dated : 13.12.2025

Sample Particulars	Name of Sample : Cladding Sheet				
a.	No. of Sample(s)	1	h.	Lab. Code No.	PAS- 842/6
b.	Grade/Size etc.	PPGL AZ-150 SMP, t 0.5 mm	i.	Dt. of Receipt	16.02.2026
c.	B. No. /DOM	—	j.	Dt. of completion of Test(s	16.02.2026
d.	Brand Name	JSW	k.	IO's Signature	Sealed & Signed
e.	Sample Qty.	1 No.	l.	Test(s)	Specified
f.	Sample Condition	Good	m.	Product Specification	IS 15965:2012
g.	Any other Inform.	Project: Development,operation & maintenance of multi modal logistic park(MMLP Pithampur Dist. Dhar. Structure Bonded Warehouse.			

TEST RESULTS

S. No.	Test (s)	Requirements	Results Observed
1.	**Tensile Test :** IS 1608(Pt.1):2022		
a.	Yield Stress (MPa)	Min. 350	432.35
b.	Tensile Strength (MPa)	Min. 420	602.91
c.	Thickness (mm)	Nomi. 0.50	0.51
2.	**Chemical Analysis**		
a.	Carbon % IS 228(Pt.1) :2025	Max. 0.25	0.12
b.	Sulphur % IS 228(Pt.9) :1989	Max. 0.040	0.008
c.	Phosphorus % IS 228(Pt.3) :2024	Max. 0.050	0.018
d.	Manganese % IS 228(Pt.2) :2024	Max. 1.35	0.29
e.	Silicon % IS 228(Pt.8) :1989	—	0.02

Remark: 1. The above sample of Cladding Sheet of 0.5mm confirms to IS 15965:2012,w.r.t above tests.
2. The above test are witnessed by Mr. SK Rai (Team Leader) RITES, Lucknow, Mr. Gulab Prajapati (Warehouse Expert), Mr. Mahinder Singh (Sr.Quality cum Metal expert), Mr. Harshvardan Singh (AQME) RITES, Mr. Mayank Kumar (Sr. Manager QC) GRIL & Mr. Ajay Sharma, Mr. Parvej Ahmad, representatives from Supreme Color Roofing & Decking Pvt. Ltd. Indore.

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SUPREME PEB
Pre Engineered Buildings



DRY FILM THICKNESS (DFT) PAINT CHECK REPORT

Supreme Colour Roofing & Decking PVT. Ltd.
BARDARI DIST: INDORE (M.P.)

Doc no:SCRD/202 6/QC/005
Effective Date:20/07/2026
Rev No: 0

Project: 2234 Rep date 0

PAINT SHOP QC REPORT

STANDARD- SSPA-PA2

Surface Prepairation		Painting Specification						
Degree of cleaning: SA 2.5	Abrasive:Copper Slag	Make	Berger	Batch No	0	RAL-7001	Expiry Date	2

S.NO	PART MARK	QTY	Project requerment:-> FINISHING S1	FINISHING S2	SA 2.5 SHORT BLASTING	50-60µ 1st Coat	120-200µ 2nd coat	50-70µ 3rd COAT	Project AVG DFT	Inspected by	2234 Inspe Date	Remark
1	ANA1	4	OK	OK	OK	61.2	120	70.9	252.1			
2	CL1	64	OK	OK	OK	68.2	150	65.8	283.1			
3	COL1	1	OK	OK	OK	59.2	140	67.8	263.0			
4	COL2	1	OK	OK	OK	49.4	149	67.9	231			
5	HB1	3	OK	OK	OK	61.2	139	68.2	259			
6	HB2	1	OK	OK	OK	62.1	152	59.2	261			
7	HPB1	1	OK	OK	OK	62.2	162	75.2	263			
8	MB1	1	OK	OK	OK	69.3	132	52.1	253			
9	MB2	1	OK	OK	OK	67.4	143	53.1	260			
10	MB3	1	OK	OK	OK	58.5	149	61.9	261			
11	SR1	60										
12	SR2	60										
13	SR3	3										
14	SR4	12										
15	SR5	48										
16	SR6	6										
17	SR7	3										

Remarked are all Nos Galvenized

18	STP1	1	OK	OK	OK	59	130	50	233			
19	STP1	2	OK	OK	OK	61.2	120	70.	252			
20	STP1	14	OK	OK	OK	68.2	150	68.1	283			
21	STP2	1	OK	OK	OK	59	140	64	263			
22	TB1	2	OK	OK	OK	49	149.	67	259			
23	TB2	2	OK	OK	OK	58.5	149	61.9	261			
24	TB3	2	OK	OK	OK	53.9	130	60	243			
25	TB4	2	OK	OK	OK	68.	150	68	252			
26	TB5	2	OK	OK	OK	49	140	60	249			
27	TB6	2	OK	OK	OK	59.8	140	60	253			
28	TR1	1	OK	OK	OK	62.73	150	60	283			
29	TR2	1	OK	OK	OK	60	149	73.	282			
30	TR3	1	OK	OK	OK	53.9	130	61.	243			
31	TR4	1	OK	OK	OK	53	140	72	262			
32	TR5	1	OK	OK	OK	61	141	61.2	282			
33	TR6	1	OK	OK	OK	62.8	142	62.2	239			
34	TR7	1	OK	OK	OK	63.8	143	63.4	232			
35	ECL:01	48	OK	OK	OK	62.7	142	69.9	291			
36	SR:01	48										
37	SR:02	12										
38	C:01	4	OK	OK	OK	53.2	140	57.1	2504			
39	C:02	4	OK	OK	OK	61.2	130	56	248			
40	C:03	4	OK	OK	OK	68.2	150	56.2	262			
41	ECL:01	6	OK	OK	OK	59.2	140	57	262.8			
42	LA:01	4	OK	OK	OK	49.3	129	58	278.1			
43	LA:02	4	OK	OK	OK	53.1	142	69	269			
44	SR:01	8										

45	SR:02	4								NILL		
46	ECL:01	8	OK	OK	OK	52.1	140	56.2	248.3			
47	ECL:03	1	OK	OK	OK	53	160	66.2	286			
48	ECL:04	12	OK	OK	OK	61.2	136	61.2	267			
49	ECL:06	8	OK	OK	OK	65.1	149	53.2	267			
50	ECL:07	12	OK	OK	OK	49.2	136	49.2	234			
51	ECL:08	12	OK	OK	OK	61.2	153	53.9	260			
52	ECL:09	8	OK	OK	OK	63.4	160	49.1	275			
53	COL1	1	OK	OK	OK	66.1	168	48.2	260			
54	COL2	1	OK	OK	OK	68.2	162	53.2	230			
55	COL3	1	OK	OK	OK	49.2	163	54.6	249			
56	COL4	1	OK	OK	OK	53.2	158	54.1	273			
57	COL5	1	OK	OK	OK	54.2	159	56.2	273			
58	COL6	1	OK	OK	OK	54.2	161	61.2	261			
59	COL7	1	OK	OK	OK	56.2	162	63.2	289			
60	COL8	1	OK	OK	OK	61.2	139	68.1	260			
61	RF1	1	OK	OK	OK	63.1	142	71.1	290			
62	RF2	1	OK	OK	OK	64.2	143	56.2	263			
63	RF3	1	OK	OK	OK	66.2	148	63.1	291			
64	RP1	2	OK	OK	OK	68.2	153	62.1	282			
65	RP2	2	OK	OK	OK	68.2	156	62.1	283			
66	RP3	2	OK	OK	OK	65.2	156	63.9	289			
67	SR1	2										
68	SR2	12										
69	SR3	2										
70	SR4	8										
71	SR5	10										

72	SR6	2										
73	SR7	2										
74	SR8	2										
75	SR9	2								NIL		
76	SR10	2										
77	SR11	8										

QC ENGINEER / INSPECTOR

HOD QA & QC

SUPREME PEB
Pre Engineered Buildings

QUALITY CONTROL

Quality You Can Trust, Precision You can See

TESTING EQUIPMENT :



- Phased Array UT Testing Machine (third-party verified)



- Weld Gauge for precise Weld Size Checks

SUPREME PEB
Pre Engineered Buildings

QUALITY CONTROL

Quality You Can Trust, Precision You Can See

Welding Excellence:

- Welding procedures follow AWS D 1.1 standards and approved Weld Maps.
- 100% Certified Welders on all projects.

Process-Driven Quality:

- Process Quality drives Product Quality.
- Statistical Process Controls to eliminate process variations.
- Dimensional accuracy ensured as per standards.

Expert Inspections:

- Dye Penetration Tests for weld inspections.
- QA is headed by NDT-Level-2 AST professionals.
- QC overseen by qualified engineers and ASME-6G position inspectors.

Superior Painting Quality (as per SSPC standards):

- Painting Inspectors: Skilled & Trained Team in the Ship Industry.
- Painting Supervisor: Professionally trained for consistent finishing.





PRECISION. EFFICIENCY. RESPONSIBILITY

TAKING RESPONSIBILITY FOR QUALITY

- While we operate under AWS D1.1 guidelines, we go the extra mile.
- Non-Destructive Testing (NDT), RT/UT tests performed where essential (though not mandatory).
- Quality Assurance Plan (QAP), Includes Witness and inspection thorough material.
- Accountability: We take ultimate responsibility for delivering unmatched quality and excellence.

WHAT WE DO NOT ENCOURAGE

- At Supreme PEB, we follow ethical practices and maintain transparency while safeguarding our processes.
- Clients satisfaction, delivery schedule, execution schedule
- Revealing our proprietary drawings and designs.
- Making inroads into competitors' territory.
- Submitting all our quality documents unnecessarily.





Innovation, TECHNOLOGY & Engineering Excellence at Supreme PEB, Indore



INNOVATION, TECHNOLOGY & ENGINEERING EXCELLENCE AT SUPREME PEB, INDORE

SUPREME PEB

TECHNICAL INFORMATION SHEET

Innovation & Technology Adoption in Pre-Engineered Buildings

ENGINEERING • FABRICATION • QUALITY • DIGITALIZATION

1. Technology & Application Matrix

A structured overview of technology areas that can support reliable, traceable and efficient PEB project delivery.

TECHNICAL AREA	TECHNOLOGY / APPLICATION
Design & Engineering	CAD-based detailing, structural analysis, drawing revision control and approved-for-fabrication drawing management.
Material Planning	Material Take-Off (MTO), Bill of Materials (BOM), and grade-/thickness-wise material tracking.
Fabrication	Precision cutting, drilling and welding, supported by dimensional checks and process controls.
Production Control	Project-wise production schedules, work-in-progress monitoring and dispatch status tracking.
Quality Assurance	Inspection checklists, weld inspection, material traceability and paint/coating quality checks.
Digital Transformation	Potential adoption of BIM integration, QR/barcode tracking and digital inspection records.

Important note: This document presents a proposed technical framework. Confirm actual plant machinery, software, inspection methods and certifications before describing them as existing Supreme PEB capabilities.

2. Innovation Roadmap

A phased approach allows standardization first, followed by practical digital adoption and advanced integration.

PHASE 1	PHASE 2	PHASE 3
Process Standardization	**Digital Manufacturing**	**Advanced Technology**
Drawing revision control, standardized MTO/BOM, consistent inspection records and project-wise production tracking.	Evaluate CNC data integration, digital job cards, component identification and electronic QC records.	Explore BIM-to-fabrication workflows, QR-based traceability and data-driven production monitoring.

3. Expected Operational Benefits

Better control	Clearer drawing, material and production status across projects.
Improved quality	More consistent inspections, records and traceability.
Higher visibility	Faster identification of bottlenecks, pending operations and dispatch risks.
Scalable digitalization	A practical foundation for future automation and data-led decisions.

SUPREME PEB
Pre Engineered Buildings



HEALTH & SAFETY

(HSE) Practices at Plant





FIRE & SAFTEY AUDIT REPORT

APPENDIX-L

FORM 'S'

[See Rule 87 (5)]

Fire Audit Report

Year 2025

To,
Supreme Colour Roofing and decking Pvt. Ltd.
Gram Bardari, Sanwer Rd, Limboda Gari, Indore, (M.P.)

Sir,
Sub: Submission of fire audit report of building name Supreme Colour Roofing and decking Pvt. Ltd. Gram Bardari, Sanwer Rd, Limboda Gari, Indore, (M.P.)

I Subhashis Choudhary, B.E. (Fire Technology), Authorized fire engineer by urban development department, Bhopal Madhya Pradesh have inspected your building premises on and checked all fire equipment's/ installations and have completed the fire audit of the said building/ premises for which fire NOC Required dated Required issued by Fire Authority.

2. Details of fire system installed are as below:-

S. No.	Particulars	Available/ Installed or not installed as per requirement (given comment)	Comments for working of system (attached details, if needed)
1	Access	Available/ Installed	working
2	Wet riser	Not installed as per requirement	Not working
3	Down comer	Not Required	Not Required
4	Hose reel	Not installed as per requirement	Not working
5	Automatic sprinkler system	Not Required	Not Required
6	Yard hydrant	Not Required	Not Required
7	Underground tank with draw off connection	Not Required	Not Required
8	Terrace tanks	Not installed as per requirement	Not working Required 20000 Litres
9	Fire pump	Not Required	Not Required
10	Terrace pump	Not installed as per requirement	Required 1 pump 450 LPM
11	First aid fire fighting appliances	Available/ Installed	working
12	Pressurization system	Not Required	Not Required
13	Auto detection system	Not Required	Not Required
14	Manual operated electrical fire alarm system	Not installed as per requirement	Not working
15	P.A. system with talk back	Not installed as per	Not working

	facility	requirement	
16	Emergency light	Not installed as per requirement	Not working
17	Auto D.G. set	Not installed as per requirement	Not working
18	Illuminated exit signage's	Not installed as per requirement	Not working
19	Means of escape	Available/ Installed	working
20	Compartmentation	Not Required	Not Required
21	MCB/ELCB	Available/ Installed	working
22	Fireman switch in lift	Not Required	Not Required
23	Hose boxes with delivery hose and branch	Not installed as per requirement	Not working
24	Refuge area	Not Required	Not Required
25	Any other installation	Not installed as per requirement	Not working

It is certified that the installed Fire system as given above in working condition and safe

Date: 18/11/2025

Signature
SUBHASHIS CHOUDHARY
Fire And Safety Engineer
M: 9425353355, 9926499290
subhashischoudhary@gmail.com
Lic. No.: 17/BFB/2021

Name

L. No.:

Add.:

Enclosed:-
1. Instruction Information.
2. Affidavit
3. Order of State govt. and Fire Authority.
4. Table 7 of NBC-2016

ऑडिट रिपोर्ट ऑक्युपेंसी जो कि नेशनल बिल्डिंग कोड ऑफ इंडिया पार्ट 4 फायर एंड लाइफ सेफ्टी के अंतर्गत आती है को दर्शाती है तथा निर्देशित व अनुमोदन की गई तथा मौके पर पाए गए असमानता आती है । ऑक्युपेंसी को नेशनल बिल्डिंग कोड पार्ट 4 के अनुसार नियम अंतर्गत विभिन्न अग्निशमन ऑओं जिनका उल्लेख तालिका 7 में किया गया है का पालन करना होगा। यह ऑडिट रिपोर्ट किसी भी तरह फायर सेफ्टी सर्टिफिकेट/ फायर प्लान अप्रूवल का अनुमोदन नहीं है। यह फायर ऑडिट रिपोर्ट नेशनल बिल्डिंग कोड ऑफ इंडिया पार्ट 4 फायर एंड सेफ्टी के द्वारा मानक अग्निशमन व्यवस्थाओं का अनुमोदन करती है। किसी भी स्थिति में यह ऑडिट रिपोर्ट स्थल पर पाय जानी वाली अव्यवस्थाओं या नियमों का पालन न करने पर निरस्त मानी जावेगी तथा इसे किसी भी प्रकार से फायर अनापत्ति अनापत्ति प्रमाण पत्र ना समझा जाए। किसी भी ग्राम पंचायत, निकाय, नगर पंचायत, नगर निगम, नगर परिषद एवं अन्य निकायों के अंतर्गत दी गई भवन अनुज्ञा को ही अंतिम रूप से मार्जिनल ओपन स्पेस (एम ओ एस), बिल्ट अप एरिया के अनुसार के अनुसार देखा व पढ़ा जाए किसी भी स्थिति में निकायों के द्वारा दी गई भवन अनुज्ञा के विरुद्ध निर्माण तथा अतिक्रमण स्वतः फायर ऑडिट में मान्य नहीं किया गया है। अतः संबंधित ग्राम पंचायतों, नगर निगम, नगर परिषद व अन्य निकायों के द्वारा उपयुक्त दिशा निर्देशों का पालन करने पर तथा तथा कोई भी अनियमितता पाए जाने पर उसे उपयुक्त निकाय की अनुशंसा पर पालन किया जाएगा जिसके अंतर्गत मार्जिनल ओपन स्पेस (एम ओ एस), फ्लोर एरिया रेशो, बिल्ट अप एरिया, इमरजेंसी एग्जिट, प्रेशराइजेशन सिस्टम, वेंटीलेशन, इमरजेंसी स्टेयरकेस, मींस ऑफ एस्केप एवं अन्य लाइफ सेफ्टी से जुड़े तथ्य संदर्भित होते हैं जो भवन निर्माण के प्रथम चरण में भवन अनुज्ञा के साथ अनुमोदित की जाती है। किसी भी स्थिति में इन विषयों पर आपत्ति होने पर नियम अनुसार अनुसार निकायों तथा ग्राम पंचायतों के माध्यम से निस्तारण या समाधान आवश्यक है।

दिनांक 18/11/2025

इंजीनियर
SUBHASHIS CHOUDHARY
Fire And Safety Engineer
M: 9425353355, 9926499290
subhashischoudhary@gmail.com
Lic. No.: 17/BFB/2021

Supreme Colour Roofing and decking Pvt. Ltd.

डायरेक्टर/अर्धराइज अधिकारी
(Stamp and Signature)

फायर सेफ्टी वचन पत्र

मैं शपथ पूर्वक वचन करता हूं कि Supreme Colour Roofing and decking Pvt. Ltd.

मैं शपथ पूर्वक वचन करता हूं कि Supreme Colour Roofing and decking Pvt. Ltd.

ऊंचाई 9 (मीटर) में इंस्टीट्यूशनल भवन अग्नि सुरक्षा की दृष्टि से भूमि विकास नियम नेशनल बिल्डिंग कोड पार्ट 4 तथा भारतीय मानक संहिता के आधार पर समस्त भवन में फर्स्ट एड फायर फाइटिंग व्यवस्था की स्थापना विधिवत रूप से नियमानुसार की जाएगी/कराई जाएगी एवं भविष्य में उसके संचालन रखरखाव हेतु उचित व्यवस्था संबंधित विभाग द्वारा समय-समय पर दिए गए निर्देशों मार्गदर्शन का पालन आवश्यक रूप से करेंगे।

- मैं शपथ पूर्वक वचन करता हूं कि भवन की सुरक्षा दृष्टिगत रखते हुए भवन में स्थापित फायर फाइटिंग उपकरणों और इंस्टॉलेशन के संचालन हेतु सभी कर्मियों को सभी सुरक्षाकर्मियों को ट्रेनिंग दी जावेगी एवं भवन में स्थापित समस्त फायर उपकरणों को ऑपरेशनल स्थिति में एवं उनका रखरखाव नियमानुसार समय-समय पर किया जावेगा।
- मैं शपथ पूर्वक भवन में गुड हाउसकीपिंग का पालन विधिवत रूप से नियमानुसार की जाएगी/कराई जाएगी भवन के नियम अनुसार ओपन स्पेस को भविष्य में निर्बाध रूप से खुला रखूंगा ओपन स्पेस में कोई वाहन पार्किंग भी नहीं की जाएगी।
- मैं शपथ पूर्वक वचन करता हूं कि भवन को आसमानी बिजली से बचाव हेतु सहित चालक कंट्रोलिंग व्यवस्था की गई है भवन की अग्नि सुरक्षा व्यवस्था हेतु विभाग द्वारा दिए गए निर्देशों का पालन किया जावेगा।
- मैं शपथ पूर्वक वचन करता हूं कि सभी दिशानिर्देशों का पालन करूंगा एवं उसके अनुरूप फायर फाइटिंग उसके अनुरूप ही फायर फाइटिंग व्यवस्था का प्रबंध करूंगा।
- मैं शपथ पूर्वक वचन करता हूं कि भवन में स्थापित अग्निशमन उपकरणों के संचालन हेतु मॉक ड्रिल भवन में कार्यरत अधिकारी/ कर्मचारियों/रहवासियों को प्रशिक्षण कार्यक्रम एवं फर्स्ट एड फायर फाइटिंग एवं फिक्स्ड फायर फाइटिंग इंस्टॉलेशन आदि की ट्रेनिंग तथा व्यवस्था समय-समय पर करी जाएगी।
- यह की मेरे द्वारा दिए गए सभी साक्ष्य, दस्तावेज (खसरा, नगर निगम/ निकाय भवन अनुज्ञप्ति प्रमाण पत्र एवं नक्शा, रजिस्ट्री, डायवर्जन, नगर तथा ग्राम निवेश पत्र एवं नक्शा, लीज डीड एमपीआईडीसी के द्वारा दिया गया लैंड एलॉटमेंट लेटर, एमपीआईडीसी के द्वारा दिया गया भवन अनुज्ञा प्रमाण पत्र एवं नक्शा, ऑटोकेड की ड्राईंग्स ग्राम पंचायत की भवन अनुज्ञा पत्र एवं नक्शा, विकास प्राधिकरण के द्वारा अनुमोदन लेटर, नगर निगम/ निकाय कार्य पूर्णता प्रमाण पत्र, नगर निगम/ निकाय प्लिंथ सर्टिफिकेट, नगर निगम/ निकाय ऑक्युपेंसी सर्टिफिकेट), जानकारियां सत्य है एवं किसी भी प्रकार से न्यायालय, विधि, आपसधिक, विवाद नहीं है कोई और अनापत्ति जो कि वैधानिक है गलत नहीं है मेरे द्वारा फायर कंसलटेंट को सभी दस्तावेजों को उपलब्ध कराया गया है एवं भविष्य में किसी भी तरह की कार्यवाही में दस्तावेजों से संबंधित उत्तरदायित्व पूर्ण रूप से मेरा होगा एवं फायर कंसलटेंट किसी भी प्रकार से उत्तरदाई नहीं होगा।
- मेरे द्वारा नेशनल बिल्डिंग कोड ऑफ इंडिया एवं मध्य प्रदेश भूमि विकास नियम 2012 के अंतर्गत अग्निशमन से जुड़े सभी नियम जो कि मेरी संपत्ति पर प्रभावी होंगे एवं फायर कंसलटेंट द्वारा मुझे अवगत करा दिए गए हैं।
- यह कि मेरे द्वारा अग्निशमन का कार्य अग्निशमन फायर फाइटिंग इंस्टॉलेशन का कार्य नियम के अनुसार होगा।

Supreme Colour Roofing and decking Pvt. Ltd.

डायरेक्टर/अर्धराइज अधिकारी
(Stamp and Signature)

SUPREME PEB
Pre Engineered Buildings



VENDOR MANAGEMENT





VENDOR LIST

Sr. No.	Material Category	Material / Item Description	Manufacturer / Supplier Name	Supplier Type	Approval Status
1	Steel	HR Coil / Structural Steel	JSW Steel	Manufacturer	Approved
2	Colour-Coated Coil	PPGI / PPGL Coil	Tata BlueScope/jsw	Manufacturer	Approved
3	Insulation	Glass Wool	up twinga/good will insulation	Manufacturer	Approved
4	Insulation	PUF Panel	alfa peb/jindal kingspan	Manufacturer	Approved
5	Hardware	Hex Bolt, Nut & Washer	oxford	Manufacturer / Supplier	Approved
6	Hardware	Anchor Bolt & Foundation Bolt	oxford	Manufacturer / Supplier	Approved
7	Hardware	Self-Drilling Screws	skylight /hp/coroshiled	Manufacturer / Supplier	Approved
8	Hardware	High Tensile Bolt & Nut	aggar udyog	Manufacturer / Supplier	Approved
9	Hardware	Threaded Rod	aggar udyog	Manufacturer / Supplier	Approved
10	Hardware	Plain Washer & Spring Washer	aggar udyog	Manufacturer / Supplier	Approved
11	Hardware	Cleat, Bracket & Connection	aggar udyog	Manufacturer / Supplier	Approved
12	Welding Consumables	MIG Wire, SAW Wire & Flux	suraj welding/bhagwati/steller mig /ador /strong /primer	Manufacturer / Supplier	Approved
13	Paint & Coating	Epoxy DTM Paint	Berger / asian approved brand	Manufacturer	Approved
14	Roofing Accessories	Ridge, Flashing & Trims	supreme colour	Manufacturer / Supplier	Approved
15	Electrical	Electrical Spares & Consumables	cs enterprises/versha enterprises	Manufacturer / Supplier	Approved



CSR & SOCIAL Impact





A CSR Initiative for Community Well-being

COMMUNITY HEALTHCARE INITIATIVE AT SUPREME PEB

Supreme PEB is committed to building a healthier community through its CSR initiatives. This initiative promotes health awareness, encourages preventive healthcare, and reflects the organization's dedication to social well-being and a healthier future for all.

SASHI HOSPITAL & RESEARCH CENTER
Multi Super Speciality Hospital

प्रार्थना पत्र

115

सेवा में,

सुप्रीम कलर रुफिंग एंड डेकिंग प्र.ली.

सर्वे नं 41/1, ग्राम बरदरी, सांवेर रोड, इंदौर

विषय: शशि हॉस्पिटल द्वारा निःशुल्क स्वास्थ्य शिविर (कैंप) लगाने हेतु अनुमति प्रदान करने के संबंध में।

महोदय/महोदया,

सविनय निवेदन है कि शशि हॉस्पिटल, 2, रघुवंशी कॉलोनी इंदौर द्वारा जनहित में एक स्वास्थ्य जाँच शिविर का आयोजन किया जाना प्रस्तावित है। इस शिविर का उद्देश्य आम जनता को स्वास्थ्य संबंधी परामर्श, जाँच एवं आवश्यक जानकारी प्रदान करना है।

प्रस्तावित शिविर का विवरण निम्नलिखित है:

दिनांक: 17/12/2025

समय: 12:00 बजे से 04:00 बजे तक

स्थान: सप्रीम कलर रुफिंग एंड डेकिंग प्र.ली सर्वे नं 41/1, ग्राम बरदरी, सांवेर रोड, इंदौर

कैंप का प्रकार: स्वास्थ्य जाँच / परामर्श शिविर

अतः आपसे विनम्र अनुरोध है कि उपरोक्त स्वास्थ्य शिविर के आयोजन हेतु हमें अनुमति प्रदान करने की कृपा करें, ताकि जनहित में यह कार्य सफलतापूर्वक किया जा सके।

आपकी अति कृपा होगी।

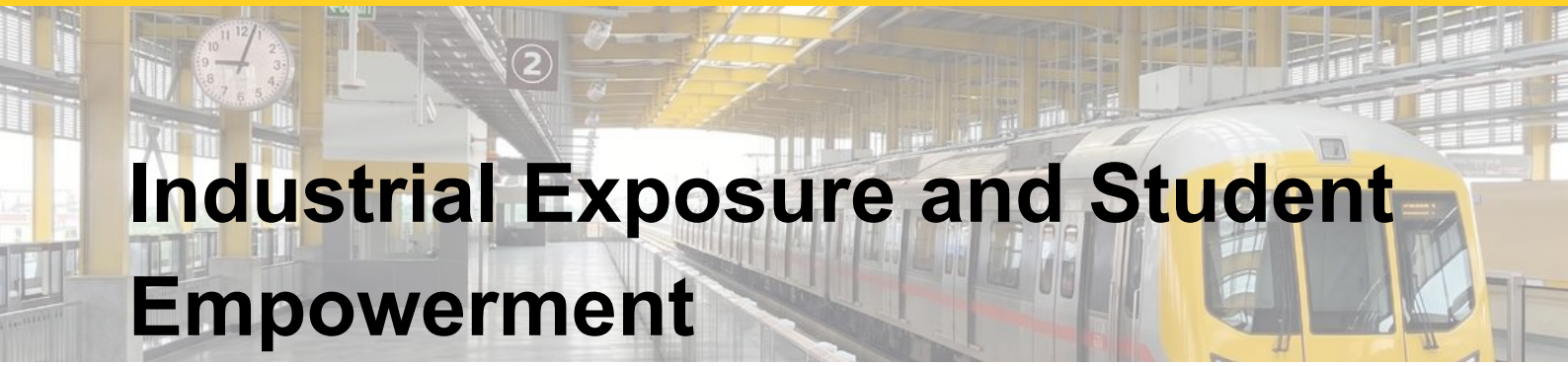
धन्यवाद।

For SASHI HOSPITAL PARTNER

For SASHI HOSPITAL PARTNER

भवदीय,

2, Raghuvanshi Colony, VIP Road, Indore (M.P.)
sashihospitalindore@gmail.com ☎ 07313515268, 3515269, 3515270



Industrial Exposure and Student Empowerment

CSR INITIATIVE | R.P. GOGATE COLLEGE OF ARTS & SCIENCE AND R.V. JOGALEKAR COLLEGE OF COMMERCE, RATNAGIRI

Supreme PEB promotes industry - academia collaboration by providing students with valuable industrial exposure. The initiative helps bridge the gap between theoretical knowledge and practical learning, empowering young minds with industry insights and preparing them for future professional success.

R. E. Society's
R. P. GOGATE COLLEGE OF ARTS & SCIENCE AND
R. V. JOGALEKAR COLLEGE OF COMMERCE, RATNAGIRI. (AUTONOMOUS)
Ratnagiri-415 612. (Maharashtra-India)
PRINCIPAL Dr. MAKARAND RAGHUNATH SAKHALKAR (M.Com., L.L.B., SET, ACMA, Ph.D)

Re-accredited by NAAC (India) (A Grade) "Best College" of University of Mumbai 2007-2008. College with Potential for Excellence (CEP)

Date:-

To,
The Director,
Supreme Colour Roofing And Decking Pvt. Ltd.
Indore (MP)

Subject : Thanking You for Permission for Industrial Visit

Sir,

We sincerely thank you for granting permission for our students and faculty members to visit your esteemed organization. The industrial visit planned for the students of B.B.A., M.B.A., and B.M.S. courses in February 2026 will be highly beneficial in providing practical exposure and industry insight.

We truly appreciate your kind support and cooperation.

Thanking you.

Yours faithfully,
Principal
Principal
R.P.Gogate College of Arts & Science and
R.V.Jogalekar College of Commerce
(Autonomous),Ratnagiri

RATNAGIRI

(O) (02352) 221311, 222999 (R) 221880 Fax : (02352) 221353 E-mail : gjcrtn@gmail.com Web Site : https://gjcrtn.ac.in/



Industrial Exposure and Student Empowerment

CSR INITIATIVE | MALWA GROUP OF INSTITUTES, INDORE

Supreme PEB promotes industry - academia collaboration by providing students with valuable industrial exposure. The initiative helps bridge the gap between theoretical knowledge and practical learning, empowering young minds with industry insights and preparing them for future professional success.

MALWA INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE
Icon Of The Future

MALWA GROUP OF INSTITUTES
Icon Of The Future
SANWER ROAD, INDORE

Date: 05/12/2025

Appreciation Message

Dear Supreme Colour Roofing And Decking Pvt.Ltd

On behalf of Malwa Group of Institutes, we sincerely thank you for allowing our students to visit your esteemed industry. The industrial visit was highly informative and provided our students with valuable insights into real-world industrial processes, production techniques, and modern operational practices.

Your team's warm hospitality, detailed explanations, and patience in addressing the students' queries made the experience truly enriching. Such exposure plays a crucial role in enhancing their practical understanding and overall learning.

We deeply appreciate your support and look forward to future collaborations.

Thank you once again for your valuable time and efforts.

Warm regards,
Malwa Group of Institutes

CAMPUS : Village Limbodagari, Behind Aurobindo Hospital, Post Palia, Via Hatod, Indore Dist. 453 111
Tel : +91 731 6 777-777, 6 777 788, E-mail : info@mistindore.com, Website : www.mistindore.com
CITY OFFICE : FF-33, Scheme No. 54, Vijay Nagar, Indore (M.P.), Tel.: +91 731 4089333

PEWS

SUPREME PEB
Pre Engineered Buildings



PROJECT

Gallery

SUPREME PEB
Pre Engineered Buildings

MISSION CRITICAL STRUCTURES

MISSION-CRITICAL STRUCTURES – ENGINEERING EXCELLENCE & RELIABILITY

At Supreme PEB Company, we are committed to delivering high-performance, mission-critical structures engineered for strength, precision, and reliability. Through robust structural design, quality-driven manufacturing, and adherence to applicable engineering standards, we support infrastructure where safety, durability, and operational continuity are paramount. Our focus on engineering excellence, stringent quality assurance, and timely project execution reflects our commitment to providing dependable structural solutions for critical industrial and infrastructure applications.









SUPREME PEB
Pre Engineered Buildings



Bio Sciences Ltd.



SUPREME PEB
Pre Engineered Buildings



MICROGEN
Healthcare Pvt. Ltd.





SHREEJI MEDICAL Device



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CASE NEW HOLLAND



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Pre Engineered Buildings



HCC TATA PROJECT



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Pre Engineered Buildings



RICE LAKE

Weighing System Tndia Ltd.





BHADORA
Industries



SUPREME PEB
Pre Engineered Buildings



Awards, RECOGNITIONS & Client Testimonials



PROUDLY PARTNERING WITH JSW STEEL

As Official Distributors of JSW Steel, Supreme PEB ensures access to premium-quality steel products that meet global standards. This partnership strengthens our ability to deliver durable, reliable, and innovative pre-engineered solutions to our clients.



JSW Steel Coated Products Limited
JSW Centre,
Bandra Kurla Complex,
Bandra (E) Mumbai 400051
Tel: 022-42863000

21/07/2026

M/s. Supreme Colour Roofing Pvt ltd ,
Survey No. 41/1, Gram Bardari, Sanwer Road, Indore , Madhya Pradesh
Mobile- 9039068025

Dear Mr. Zubair Khan,

This is to confirm that M/s. **Supreme Colour Roofing Pvt ltd** , our JSW Distributor franchise has been given the additional proposed locations for marketing of Products mentioned herein. With this the total products/area being served by the distributor will be as mentioned below.

PRODUCT:

COLOUR COATED SHEETS / COILS (Brand: Colouron+ / Pragati+/JSW +)

GL SHEETS / COILS (Brand: Silveron / Silveron +/ JSW)

GC SHEETS / COILS (Brand: Vishwas)

CLUSTER: Indore / Bhopal / Jabalpur
DISTRICT: All MP

We hope that this new interface of JSW Distributor may further reinforce our relationship and result in creating a strong bond of trust and reliability with the customer and value addition to your business.

We welcome you to JSW family and wish you all the best in your new endeavour.

Yours truly,

Nirmal Uday
National Retail Sales Head



GETTING FEATURED FOR GUFIC BIOSCIENCES IN THE MAGAZINE

Supreme: Maintaining the Integrity of PEBs Post Construction

Supreme PEB, a leading player in the Pre-Engineered Buildings (PEB) sector in India, is delivering innovative and sustainable construction solutions, avers Zubair Khan, Managing Director, Supreme Colour Roofing and Decking.

Supreme specializes in designing, manufacturing, and installing high-quality PEBs that cater to diverse sectors like manufacturing, warehousing, commercial spaces, etc. Our state-of-the-art manufacturing facility employs advanced technology and rigorous quality control measures, ensuring that every project meets the highest standards of durability and performance. We work closely with clients to understand their unique requirements and deliver customized solutions that align with their vision. Our team of experienced professionals provide efficient service, from project inception through to its completion, ensuring timely delivery and execution. We are utilizing eco-friendly materials and practices that reduce environmental impact.

Post-construction maintenance is a critical phase that ensures the longevity and performance of a newly built structure. At Supreme, this process involves a comprehensive range of activities like routine inspections of the building's systems—such as HVAC, plumbing, and electrical—to ensure they are functioning optimally.

Additionally, we focus on preventive maintenance tasks, like checking for signs of wear and tear, ensuring proper drainage, and performing necessary repairs to roofing and exterior finishes. Our team also emphasizes the importance of keeping landscapes well-maintained to prevent erosion and manage stormwater effectively. Moreover, we provide guidance on warranty management, helping clients navigate the complexities of coverage and claims.

By offering tailored maintenance plans, we aim to enhance the building's durability and efficiency while minimizing long-term costs. This proactive approach not only protects the initial investment but also ensures a safe, comfortable environment for occupants. We are committed to supporting our clients at every step of the way, providing expert advice and services to maintain the integrity of their properties long after construction is complete.



PEB Project by Supreme for GUFIC



The skyline of Pithampur, a bustling city in central India, is transformed by a remarkable project: a G+3 pre-engineered building set to become a landmark. Designed with precision, the structure features an elegant façade wrapped in modern wall cladding, a harmonious blend of aesthetics and engineering.

Atop this innovative building, a one-meter column rises, symbolising strength and resilience. This rooftop space, with its sweeping views, is envisioned as a gathering spot for creativity and collaboration, reflecting the spirit of the community it serves.

Adjacent to the main building is a boiler shed, measuring 51.525 meters in length and 20.9 meters in width, with an impressive clear height of 13.5 meters. Its design includes continuous louvers, providing ventilation while maintaining the structure's sleek appearance.

A mezzanine constructed above, is dedicated to housing essential equipment to support the building's operations. Underground, a UG tank building ensures a reliable water supply for the entire complex. Close by, a panel room, measuring 15 meters wide and 40 meters long, has perforated sheets that allow for efficient airflow, blending practicality with aesthetics.

The first building, the General Block Unit, commands attention with its dimensions: 127.240 meters in length and 66.740 meters in width, featuring a clear height of 4.6 meters. Full-height brick walls contribute to its imposing presence, while a security shed provides safety and oversight, measuring 33.3 meters wide and 11.8 meters long, and a clear height of 3.4 meters.

What truly sets this project apart is its façade – the largest PEB façade in central India. This magnificent structure not just houses activities but sets high architectural standards in the region. Its innovative design and robust construction embody the future of PEBs in the area. Designed to be a hub of innovation and community engagement, it is a blend of modern design and practical functionality.



Zubair Khan

As construction progressed, the façade emerged with impressive diagonal lines spanning 127 meters, reaching heights of 20 meters. Horizontal and vertical runners add depth to the design, while circular columns provide both strength and elegance. Above, a standing seam roof of high durability, is designed to withstand natural climatic elements.



Our Director, Mr. Zubair Khan, has been recognised for the commendable work of this Pharma Project.

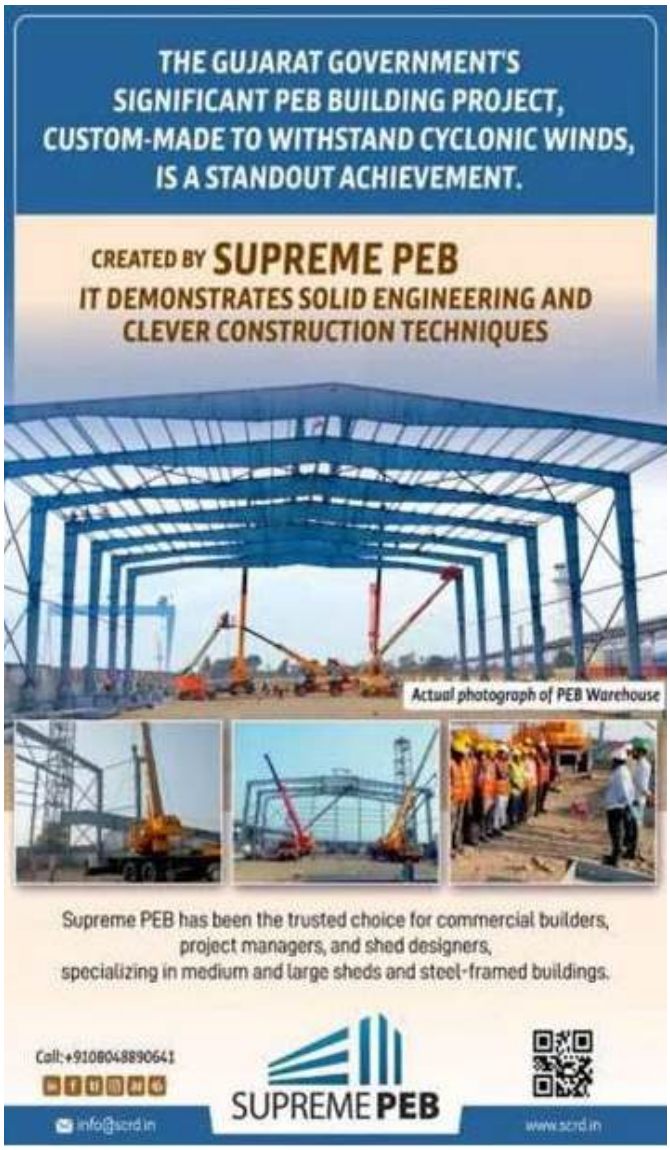
SUPREME PEB
Pre Engineered Buildings



CELEBRATING PARTNERSHIP WITH TATA BLUESCOPE STEEL

Supreme PEB: Engineering Strength Behind Landmark Project







Compliance. Quality. Excellence.

SUPREME PEB maintains applicable compliance certificates, demonstrating its commitment to quality, safety, regulatory standards, and reliable PEB solutions.

Compliance Certificates | SUPREME PEB



BHADORA INDUSTRIES LIMITED

Work Completion Certificate

Date: - 09/10/2026

To,

M/s. Supreme Colour Roofing & Decking Pvt. Ltd.
Survey No. 41/1, Gram Bardari,
Sanwer Road, Indore, Madhya Pradesh – 452001.

Subject: Project Completion and Appreciation Certificate – SUP-2210

This is to certify that **M/s. Supreme Colour Roofing & Decking Pvt. Ltd (Supreme PEB)** , has successfully completed the Pre-Engineered Building (PEB) work for our project as per the approved drawings and agreed project requirements.

Project Details

- **Project Name:** SUP-2210 – Bhadora Industries Limited
- **Order No.** - BIL/NIM/2025-26/IND-001(R-2)
- **Project Location:** Survey No. 188/1, Panwa, Tehsil Kasrawad, District Khargone, Madhya Pradesh – 451660
- **Consultant:** Sanjay Chhajed & Associates
- **Building Weight:** 574 MT
- **Building Area:** 11650 Sq. M.

We would like to express our sincere appreciation to M/s. Supreme Colour Roofing & Decking Pvt. Ltd. for their valuable contribution to the successful execution and completion of our industrial shed project.

The company has demonstrated professionalism, technical expertise, commitment to quality, and effective coordination throughout the project. The completed structure meets our expectations and the applicable project requirements, in accordance with the approved drawings and agreed scope of work.

We appreciate the team's dedication, cooperation, and efforts in ensuring the successful completion of the project. Their professional approach and commitment have contributed positively to the overall execution of the work.

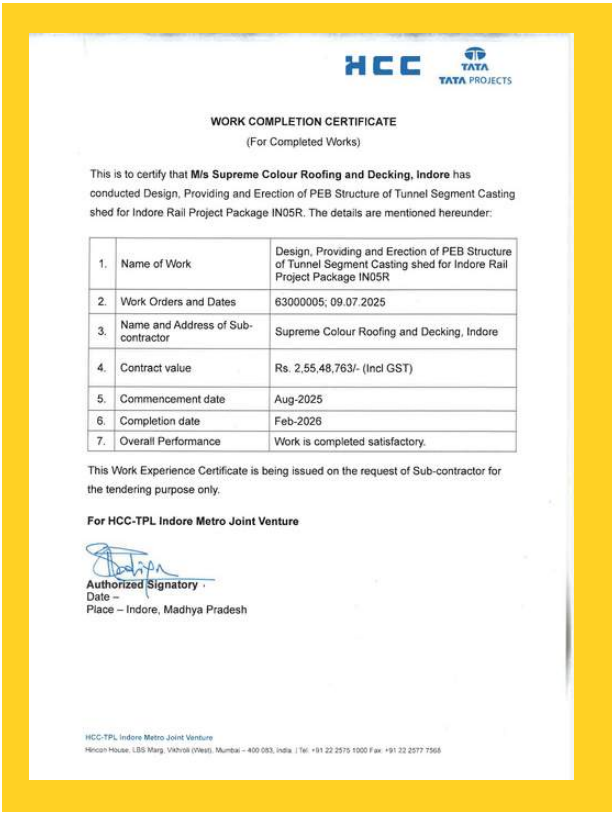
We are pleased with the completed project and appreciate the services provided by M/s. Supreme Colour Roofing & Decking Pvt. Ltd. We look forward to the opportunity to work together on future projects and wish the company continued success and growth in its future endeavors.

For Bhadora Industries Limited

Authorized Signatory

CIN No. L31300MP2013PLC030767

07683-242420 | info@vidhutcables.com | www.vidhutcables.com
Regd. Office: 903, Clifton Corporate, AB Road, Vijaynagar, Indore, MP - 452010
Plant: P1: 4, S.U. Industrial Estate Dhonga, Tikamgarh, MP - 472001 P2: Survey No.188/1, Panwa, Tehsil Kasrawat, Khargone, MP - 451660



HCC TATA PROJECTS

WORK COMPLETION CERTIFICATE

(For Completed Works)

This is to certify that **M/s Supreme Colour Roofing and Decking, Indore** has conducted Design, Providing and Erection of PEB Structure of Tunnel Segment Casting shed for Indore Rail Project Package IN05R. The details are mentioned hereunder:

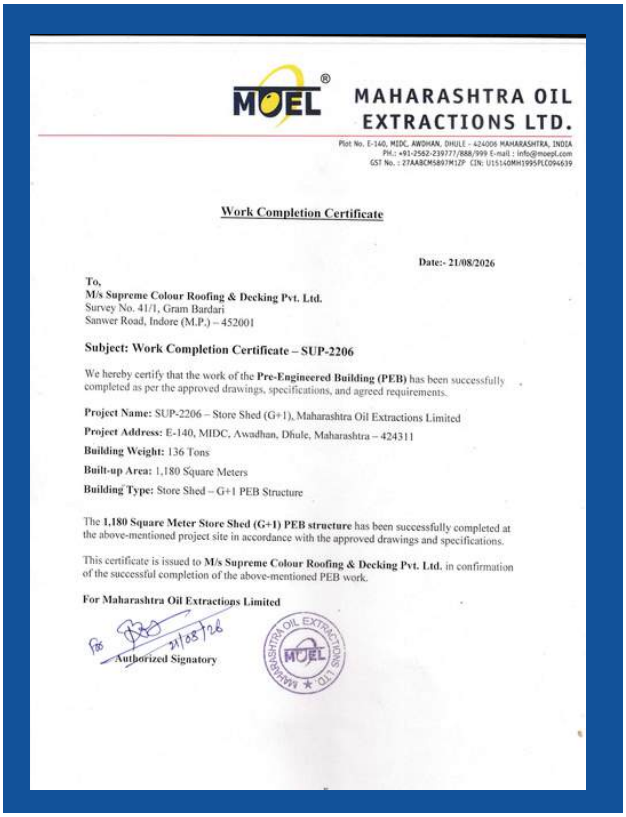
1.	Name of Work	Design, Providing and Erection of PEB Structure of Tunnel Segment Casting shed for Indore Rail Project Package IN05R
2.	Work Orders and Dates	63000005; 09.07.2025
3.	Name and Address of Sub-contractor	Supreme Colour Roofing and Decking, Indore
4.	Contract value	Rs. 2,55,48,763/- (Incl GST)
5.	Commencement date	Aug-2025
6.	Completion date	Feb-2026
7.	Overall Performance	Work is completed satisfactory.

This Work Experience Certificate is being issued on the request of Sub-contractor for the tendering purpose only.

For HCC-TPL Indore Metro Joint Venture

Authorized Signatory
Date –
Place – Indore, Madhya Pradesh

HCC-TPL Indore Metro Joint Venture
Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400 083, India. | Tel: +91 22 2575 1000 Fax: +91 22 2577 7565



MOEL MAHARASHTRA OIL EXTRACTIONS LTD.

Plot No. E-140, MIDC, AWADHAN, DHULE – 424006 MAHARASHTRA, INDIA
PH.: +91-2562-219777/888/999 E-mail : info@moepl.com
GST No. : 27AABCM5897M1ZP CIN: U15140MH1995PLC094639

Work Completion Certificate

Date:- 21/08/2026

To,
M/s Supreme Colour Roofing & Decking Pvt. Ltd.
Survey No. 41/1, Gram Bardari
Sanwer Road, Indore (M.P.) – 452001

Subject: Work Completion Certificate – SUP-2206

We hereby certify that the work of the **Pre-Engineered Building (PEB)** has been successfully completed as per the approved drawings, specifications, and agreed requirements.

Project Name: SUP-2206 – Store Shed (G+1), Maharashtra Oil Extractions Limited
Project Address: E-140, MIDC, Awadhan, Dhule, Maharashtra – 424311
Building Weight: 136 Tons
Built-up Area: 1,180 Square Meters
Building Type: Store Shed – G+1 PEB Structure

The **1,180 Square Meter Store Shed (G+1) PEB structure** has been successfully completed at the above-mentioned project site in accordance with the approved drawings and specifications.

This certificate is issued to **M/s Supreme Colour Roofing & Decking Pvt. Ltd.** in confirmation of the successful completion of the above-mentioned PEB work.

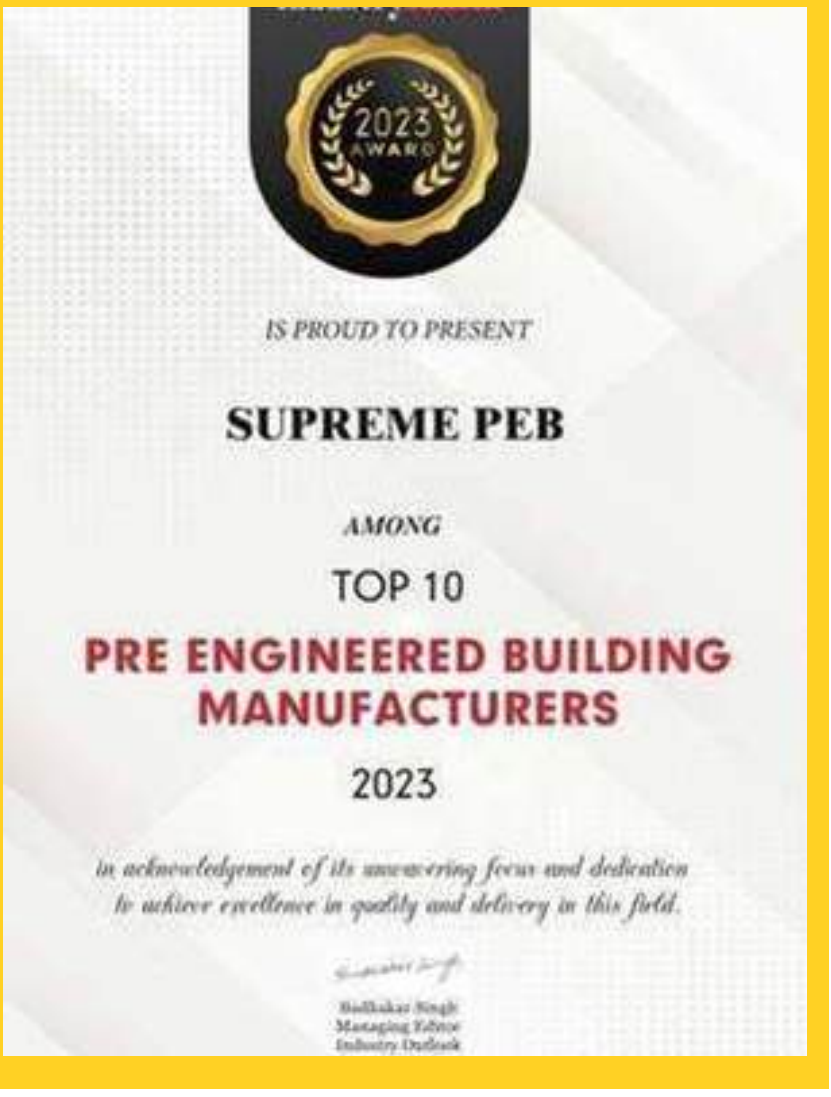
For Maharashtra Oil Extractions Limited

21/08/26
Authorized Signatory

SUPREME PEB
Pre Engineered Buildings



FEATURED AMONG INDIA'S TOP 10 PEB INDUSTRY LEADERS – 2023





PEB | INDUSTRY SPEAKS

CAD SOFTWARE ENHANCES PRECISION FOR PEB STRUCTURAL RESILIENCE

Our PEB solutions adhere to rigorous structural design principles and quality control measures to ensure long-term performance and safety

ZUBAIR KHAN

JUNE 2024 | 47



Industry Outlook TOP 10 PRE ENGINEERED BUILDING MANUFACTURERS - 2023

SUPREME PEB

PROVIDING THE COMPLETE RANGE OF PEB SERVICES UNDER ONE ROOF

From sturdy foundations to vibrant colours, Supreme Peb is here to transform the vision into a masterpiece that stands the test of time

Future Endeavours

SUPREME PEB
Pre Engineered Buildings



Supreme: Maintaining the Integrity of PEBs Post Construction

Supreme PEB, a leading player in the Pre-Engineered Buildings (PEB) sector in India, is delivering innovative and sustainable construction solutions, avers Zubair Khan, Managing Director, Supreme Colour Roofing and Decking.

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Zubair Khan

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Shaping India's skyline: Trends and innovations in roofing systems



The roofing industry in India is undergoing a dynamic transformation, driven by rapid urbanization, industrial expansion, and evolving design preferences. Roofing systems are no longer seen as mere protection for structures; they are integral to aesthetics, sustainability, and building efficiency. **Zubair Khan, Managing Director, Supreme PEB**, a leading manufacturer of pre-engineered building (PEB) systems, shares more on the current trends, innovations, and future trajectory of roofing solutions in India.



CURRENT DEMAND TRENDS OF ROOFING SYSTEMS IN INDIA

India is witnessing an unprecedented surge in demand for robust, efficient, and innovative roofing systems. Industrial, commercial, and residential sectors alike are increasingly adopting pre-engineered and lightweight roofing solutions that offer speed of construction, durability, and energy efficiency.

The growing adoption of PEB systems and insulated roofing panels in factories, warehouses, and commercial facilities reflects a shift towards performance driven solutions. Clients are no longer satisfied with basic roofing. They are looking for systems that combine structural efficiency, weather-proofing, and long-term reliability.

The demand is strongest in infrastructure projects, logistics parks, manufacturing units, and residential clusters, where rapid execution and lifecycle cost optimization are critical.

DEMAND FROM INFRASTRUCTURE AND REAL ESTATE MARKETS

Roofing systems are increasingly becoming a core component of India's infrastructure and real estate expansion. Industrial infrastructure, such as factories, cold storage units, and pharmaceutical facilities, has shown a robust appetite for PEB roofing solutions due to their flexibility and speed of deployment.

In the real estate segment, developers are focusing on aesthetic appeal alongside functional performance. From commercial complexes to gated communities, architects and builders are choosing roofing systems that not only protect but also enhance the overall visual impact. Our products are seeing growing traction across both these sectors because they can adapt to different load requirements, spans, and climatic conditions.

INNOVATIONS IN MATERIALS, SUSTAINABILITY, AND LIGHTWEIGHT DESIGN

Material innovation is at the heart of modern roofing solutions. We are seeing a strong emphasis on sustainable, lightweight, and insulated roofing panels that reduce energy consumption and enhance thermal performance.

Supreme PEB has incorporated galvanized and coated steel panels, composite sandwich panels, and other advanced materials that are corrosion resistant, fire retardant, and eco-friendly. These materials reduce structural load and allow faster erection while meeting environmental compliance. Lightweight roofing also reduces foundation requirements, which is particularly important in industrial and large-span structures.

Sustainability has become a critical criterion. Clients are increasingly evaluating the environmental footprint of roofing materials, including recyclability and energy efficiency. Solar-ready roofs and reflective coatings are gaining popularity as energy conscious choices.

WEATHER-PROOFING AND TEMPERATURE MANAGEMENT

India's diverse climate makes weather proofing and thermal management a crucial consideration for any roofing system. Modern roofing solutions are engineered to withstand heavy rainfall, high winds, extreme heat, and seismic conditions.

Supreme PEB employs insulated panels, weather-tight joints, and protective coatings that help maintain indoor temperature stability. Temperature-proofing not only ensures operational comfort but also protects stored goods, especially in pharmaceutical, cold chain, and food-processing facilities.

Advanced roofing systems now integrate ventilation solutions, skylights, and reflective surfaces to enhance energy efficiency while mitigating heat gain an increasingly important feature in India's tropical and semi-arid zones.

THE ROLE OF AESTHETICS IN MODERN ROOFING

Roofing today goes beyond functionality, it is a design statement. Aesthetics is becoming an integral part of roofing selection. Architects and developers are increasingly choosing color coated panels, patterned cladding, and modular designs to create visually appealing structures.

In commercial complexes and residential projects, the roof contributes to the building's identity. Sleek, colored, and curved roof profiles are trending, giving structures a contemporary look while maintaining performance. This focus on design enhances the market value of properties and provides a sense of branding for industrial facilities.

CHANGING TRENDS AND FUTURE GROWTH DRIVERS

The roofing industry is evolving rapidly. Modular and pre-engineered roofing systems, energy efficient insulated panels, and integration with renewable energy solutions are expected to dominate future growth.

Key trends shaping the future include:

- Prefabrication for speed: Faster construction with minimal onsite labour
- Energy-conscious designs: Solar integration, reflective coatings, and insulated panels
- Sustainable materials: Recyclable steel, coated panels, and lightweight composites
- Aesthetic diversity: Customized profiles, colors, and textures to suit architectural design

"These trends will drive demand across industrial, commercial, and residential sectors. Clients are increasingly seeking roofs that are functional, sustainable, and visually appealing.

CONCLUSION

India's roofing sector is entering a phase of transformation. The combination of innovative materials, lightweight structures, sustainability, and aesthetic versatility is redefining industry standards. For manufacturers like Supreme PEB, the focus remains on delivering high-quality, durable, and customizable roofing solutions that meet diverse market needs from factories to residential projects.

With rapid urbanization and the rise of modern industrial parks, roofing systems are no longer just structural necessities—they are strategic components of functional, energy efficient, and visually striking buildings. ■

"REDEFINING ROOFING THROUGH INNOVATION, STRENGTH & SUSTAINABILITY."

SUPREME PEB
Pre Engineered Buildings



Precision Under Pressure

As part of an expansion initiative, the company required an industrial building that could be operational quickly, integrate complex internal functions, and maintain structural accuracy across multiple levels, an uncommon requirement for typical industrial PEBs.

The requirement was not merely space, but precision-built infrastructure delivered at speed. The facility demanded multiple internal levels, varying roof elevations, and tight dimensional tolerances, all within a structure that needed to remain flexible for future growth.

To meet these demands, we delivered a custom pre-engineered building solution that combined advanced engineering with factory controlled manufacturing and disciplined site execution.

Fact file
Project location: Ujjain, MP
Size: 800 tons
Client: Pharma Packaging Manufacturer
Materials used : 350 mpa JSW raw materials
Completion time: 120 days
Year of completion: 2025







> By delivering a complex industrial PEB with engineering confidence for a rapidly expanding we changed the perception of industrial buildings as simple, single level sheds.
>
> **Zubair Khan**
> Managing Director
> Supreme PEB

From the outset, the project stood out for its complexity. Unlike conventional sheds, the structure featured critical elevation changes and multi level configurations, demanding a higher level of engineering coordination.

Our design team approached the challenge by treating the project as a precision engineered system rather than a standard building. Each frame, connection, and interface was analyzed to ensure alignment across levels and stability under operational and environmental loads. The result was a structure that balanced complexity with efficiency without unnecessary steel consumption or construction delays.

Supreme's factory-controlled fabrication process ensured that every component arrived on site with the required dimensional accuracy. By eliminating variability at the manufacturing stage, the company minimized on site adjustments and reduced execution risk, an essential advantage for multi-level structures.

Erection planning played a critical role in the project's success. Structural members were delivered and installed in a carefully sequenced manner, allowing elevation transitions and level changes to be executed without error. Bolted connections enabled faster assembly while maintaining accuracy, allowing the project to progress efficiently despite its complexity.

The completed facility now supports the client's operational expansion while offering flexibility for future modifications. More importantly, it stands as a demonstration of what modern PEB systems can achieve when engineering precision, manufacturing discipline, and execution planning are aligned.

This project reinforces an important industry insight: Pre-engineered buildings are no longer limited to simple forms. When delivered by experienced manufacturers, they can successfully accommodate complex geometries, multiple levels, and demanding operational requirements without sacrificing speed or economy.

Aerodynamically optimised profiles offer fire-resistant, climate-responsive roofing systems

"At Supreme PEB, we design roofing systems based on an understanding of local climate, construction standards, and safety requirements, and an efficient integration of advanced materials, technology, and design strategies."

Zubair Khan illustrates the challenges in designing roofing systems for PEB structures and the approach to mitigating them. He walks us through Supreme PEB's innovative design strategies and use of advanced technologies, which have helped meet both functional and regulatory standards.

How are your products tailored to address water ingress and wind load?
Water ingress is a potential challenge during the monsoon and in regions with heavy rainfall. We use high-performance materials like galvanised steel and coated metal sheets to prevent water ingress, which provide excellent durability and corrosion resistance. We also incorporate specialised joints, sealants, and flashing systems that ensure a watertight seal, safeguarding the building from moisture penetration.
Wind load is another significant concern, especially in regions prone to cyclones or high winds. The aerodynamically optimised profiles in our roofing systems reduce wind resistance and distribute pressure more effectively. High-strength fasteners and robust connections ensure roofs remain secure under extreme wind conditions. Our advanced load analysis studies help us provide customised roofing designs based on regional weather patterns and site-specific conditions.

What is the typical lead time for the procurement and delivery of materials for a PEB project?
The lead time for the procurement and delivery of materials is a critical factor in ensuring the timely execution of PEB projects. At SUPREME PEB, we prioritise efficient material management to meet project deadlines. Typically, the lead time depends on the complexity and scale of the project, as well as the availability of materials. However, for standard PEB projects, we aim for an average lead time of 1 to 2 weeks from the placement of the order. Additionally, we maintain a minimum stock of 8,000 to 10,000 MT on a monthly basis. To ensure smooth delivery, we maintain strong relationships with trusted suppliers and a well-coordinated logistics team. We also engage in proactive planning, confirming all material requirements well in advance and conducting regular follow-ups on production and shipment status. This approach helps us minimise delays and ensures that materials arrive on-site in a timely manner, ready for installation.



Zubair Khan
Managing Director, Supreme PEB.

What are the challenges in installing roofing systems for pre-engineered buildings, and what are your strategies for mitigating them?
Some potential challenges are panel alignment, weatherproofing, and shorter timelines. These may be mitigated using prefabricated, modular roofing systems, which allow quicker assembly and minimal on-site work. Our roofing panels are equipped with an interlocking system, providing additional stability and reducing



advanced tools like crane-lifted modules and automated fastener systems to streamline the process further, accelerating installation and reducing labour costs. We also ensure comprehensive training for installation teams and ongoing quality checks for a smooth and efficient installation.

How are your products designed to address regional climate challenges in India?
India's diverse climate presents unique challenges in providing roofing systems to PEB structures. We have carefully designed the products at Supreme, keeping these challenges in mind. In areas with heavy rainfall, our roofs are designed with advanced drainage systems and sloped profiles that facilitate efficient water runoff. The roofing materials are resistant to rust and corrosion, making them ideal for humid or coastal regions. Our roofing systems are engineered to handle heavy loads in hilly regions prone to snowfall. Reinforced materials and additional structural support ensure that roofs can bear the weight of snow without compromising the building's integrity. For regions prone to high temperatures, our roofing systems feature heat-reflective coatings that minimise heat absorption, enhancing thermal insulation and

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Case Study

Composite Design in Pre-Engineered Buildings (PEBs)



In recent years, the construction industry has witnessed several breakthroughs, driven by the need for efficiency, cost-effectiveness, sustainability, and faster project delivery. One such innovation that has significantly transformed modern construction is the rise of Pre-Engineered Buildings (PEBs). PEBs are factory-built structures that are assembled at the construction site, offering numerous benefits such as reduced construction time, lower costs, and high flexibility.

One of the most promising advancements in PEB design is the adoption of composite construction techniques, where two or more materials are combined to optimize the structural performance, cost, and overall efficiency of the building. This case study explores the composite design in PEBs, highlighting its advantages, real-world applications, and challenges faced during implementation.

What is Composite Design in Pre-Engineered Buildings?

Composite design refers to the integration of two or more materials in a manner that they work together as a single structural unit. The materials involved often complement each other, with each material offering specific mechanical properties that enhance the overall strength and durability of the structure. In the context of PEBs, composite design most commonly involves the combination of steel and concrete.

Steel is widely known for its high tensile strength, which allows it to handle loads effectively under tension, while concrete offers excellent compressive strength, making it ideal for handling compressive loads. By combining

these two materials in composite construction, engineers and designers can exploit the unique advantages of each material, resulting in a structure that is both lighter and more durable than one made from a single material.

A key example of composite construction in PEBs is the integration of steel framing (for beams and columns) with concrete slabs or composite steel-concrete beams. The composite nature of the structure ensures that both materials act together in resisting the applied loads. This approach provides significant benefits over conventional, non-composite designs, particularly in terms of material usage, weight reduction, and cost-efficiency.

Benefits of Composite Design in PEBs

Cost Savings
One of the primary motivations for adopting composite design in PEBs is the potential for substantial cost savings. The integration of steel and concrete in composite designs allows for more efficient use of materials, reducing the overall material costs while maintaining or even improving structural integrity. For instance, using composite steel-concrete beams or concrete-filled steel columns can lead to reduced amounts of steel in the structure, thus lowering overall material costs.

Since concrete is often less expensive than steel, the substitution of steel with concrete (or the reduction of steel quantities) can significantly reduce project costs, particularly in large-scale buildings. Additionally, the use of composite design can lead to lighter structures, reducing the amount of concrete required for the foundations and further driving down construction expenses.

Reduction in Weight and Smaller Foundations
A critical benefit of composite design is the significant reduction in the overall weight of the structure. By combining steel and concrete, PEBs can achieve a higher strength-to-weight ratio compared to traditional all-steel or all-concrete structures. This reduction in weight translates into smaller and more cost-effective foundations.

In many PEB projects, the use of composite beams and concrete slabs allows for smaller foundation requirements, which can result in substantial savings in both material and labor costs. Moreover, smaller foundations lead to a reduction in the volume of excavation required, further cutting costs associated with site preparation.

For example, a typical industrial building constructed with a composite design will require less concrete for the foundation than a similar structure made entirely of steel or concrete. This weight reduction allows for the design of foundations that are more economical and quicker to construct.

Faster Construction Times
Pre-engineered buildings, by nature, offer faster construction times due to the pre-fabrication of steel components in a controlled factory environment. Composite design further accelerates this process. Steel components are typically fabricated off-site and then delivered to the construction site for quick assembly. Concrete elements, such as slabs and floors, can be poured on-site once the steel frame is erected.



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Sustainability

Sustainability has become a major consideration in modern construction due to the growing environmental awareness and the need to reduce the carbon footprint of buildings. Composite design contributes to sustainability in several ways. First, it optimizes the use of materials, reducing waste and the environmental impact associated with material production. By reducing the amount of steel required, composite buildings can help minimize the overall environmental impact of the construction project.

Second, the use of concrete as a composite material enhances the energy efficiency of the building. Concrete has excellent thermal mass properties, meaning it can absorb and store heat, which helps to regulate indoor temperatures and reduce the need for heating and cooling. This can lead to significant energy savings over the building's lifecycle.

Finally, the durability of composite buildings means they will likely require fewer repairs and replacements over time. As a result, these buildings will have a longer lifespan, contributing to the overall sustainability of the project.

The use of composite steel-concrete beams, for instance, allows for faster on-site construction since the concrete can be poured after the steel framework is assembled. Additionally, composite design often eliminates the need for intricate connections that are typical in traditional construction, further reducing the amount of labor required.

The time saved in construction can be particularly crucial in industries where time-sensitive projects are necessary. The reduction in overall project duration allows businesses to begin operations sooner, minimizing downtime and improving profitability.

Improved Structural Performance and Durability

The synergy between steel and concrete in composite design results in enhanced structural performance. Steel and concrete complement each other in a way that maximizes their strengths. Steel provides tensile strength, enabling it to resist bending and stretching forces, while concrete resists compressive forces, allowing it to handle heavy loads more effectively.

In a composite system, these two materials work together to resist external loads, providing a structure that is not only lighter but also more robust and durable. This results in buildings that are better able to withstand harsh environmental conditions such as high winds, seismic events, and temperature fluctuations.

Furthermore, composite buildings are often more fire-resistant than those constructed with steel alone. Concrete offers inherent fire protection properties, which can slow the spread of fire and provide additional safety to the building and its occupants. This enhanced fire resistance is a significant benefit, particularly in industrial and commercial settings.

Real-World Applications of Composite Design in PEBs

Industrial Warehouses and Factories

One of the most common applications of composite design in PEBs is in industrial buildings such as warehouses, manufacturing plants, and distribution centers. These buildings often require large, open spaces with minimal internal columns to facilitate the storage of equipment, machinery, and goods. Composite steel-concrete beams



provide the necessary structural strength while allowing for large column-free spaces, making them ideal for this type of construction.

In a recent project for a large logistics company, composite PEBs were used to construct a warehouse facility. The combination of steel framing with concrete floors and composite beams reduced material costs, sped up construction, and minimized the need for internal columns. The facility was completed within budget and ahead of schedule, demonstrating the efficiency and effectiveness of composite design.

Commercial Buildings

PEBs with composite design are increasingly being used for commercial applications, such as office buildings, shopping centers, and mixed-use developments. Composite construction offers a cost-effective and time-efficient solution while still allowing for aesthetic flexibility in design. In these buildings, the steel frame provides the necessary structural strength, while the concrete floors offer additional benefits such as fire resistance, noise insulation, and thermal mass.

In a recent commercial office development, composite PEBs were used to create a multi-story office building. The steel-framed structure, combined with concrete floors, allowed the building to meet both structural and aesthetic requirements. The project was completed in a shorter timeframe than conventional construction methods, and the cost savings allowed the developer to offer competitive rental rates to tenants.

Agricultural Buildings

Agricultural buildings, such as barns, storage facilities, and processing plants, often require large, open spaces to accommodate equipment, machinery, or livestock. Composite design is an ideal solution for these buildings, as it provides the necessary structural strength while minimizing weight and reducing foundation costs. In a recent agricultural project, composite steel-concrete beams were used to construct a dairy processing plant. The lightweight structure allowed for faster construction, while the combination of materials provided the necessary strength and durability to withstand heavy loads.

Challenges in Implementing Composite Design in PEBs

Despite the numerous benefits of composite design in PEBs, there are several challenges that must be addressed during the design and construction process.

Complexity in Design and Detailing

Composite design requires a higher level of engineering expertise and a more complex approach to design and detailing. The interaction between steel and concrete elements must be carefully considered, and the connections between materials must be designed to ensure proper load transfer and performance. This complexity can lead to longer design times and higher initial costs for engineering services.

Coordination Between Different Trades

The use of composite materials requires seamless coordination between various construction teams, including steel fabricators, concrete suppliers, and construction workers. Any delays or issues with the delivery of materials or construction schedules can disrupt the overall project timeline. Ensuring that all parties are well-coordinated is essential for the success of the project.

Material Quality Control

Composite construction relies on the quality of both the steel and concrete materials. Any issues with the quality or consistency of the materials can affect the performance of the structure. Rigorous quality control measures must be in place to ensure that both the steel components and concrete elements meet the required specifications.

Conclusion

The integration of composite design in Pre-Engineered Buildings (PEBs) offers a powerful solution for improving the efficiency, cost-effectiveness, and sustainability of modern construction. By combining the strengths of steel and concrete, composite PEBs provide enhanced structural performance, faster construction times, and significant cost savings. These benefits make composite design an ideal choice for a wide range of building types, including industrial warehouses, commercial offices, and agricultural facilities.

While there are challenges associated with the implementation of composite design, such as the complexity of design and the need for careful coordination between different trades, the advantages far outweigh these potential obstacles. As the demand for faster, more sustainable, and cost-efficient construction continues to grow, composite design will play an increasingly important role in shaping the future of the construction industry. ■



- **Zubair Khan,**
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Sustainable innovation is redefining buildings from the inside out

The roofing, facade, and insulation industries have advanced rapidly owing to new technologies, environmental concerns, and stronger restrictions. These innovations are transforming the way buildings are designed, built, and maintained, with a greater emphasis on sustainability.



Latest advancements in roofing, facades, and insulation

Solar technology, particularly solar shingles, transforms roofing by generating electricity while providing robust, weather-resistant protection. Cool roofs are also gaining popularity, as they reflect more sunshine and absorb less heat, lowering air conditioning expenses and increasing energy efficiency.

Smart facades are emerging, utilising modern materials such as electrochromic glass, which alters opacity in response to temperature or light, optimising energy use. The biophilic architecture incorporates green walls and living roofs to improve air quality and reduce heat.

The demand for environmentally friendly, high-performance insulation is increasing. Aerogel insulation, known for its lightweight and high thermal resistance, is gaining popularity. Vacuum-insulated panels (VIPs) provide excellent thermal performance in a small profile. Furthermore, recycled and bio-based materials such as cellulose and hemp are becoming popular alternatives to traditional fibreglass and foam insulation, promoting greener building practices.

Sustainability in the roofing industry

One of the primary areas of concentration is energy efficiency. Reflective roofing materials, which bounce more sunlight off the roof, help save energy by keeping buildings cool. This minimises the demand for air conditioning, which results in decreased energy bills. Green roofs are another sustainable option that provides insulation while lowering stormwater runoff. They also promote biodiversity by establishing urban habitats for plants and animals.

Cool roofs, which reflect sunlight and absorb less heat, are becoming more common, particularly in cities that suffer from the urban heat island effect. These roofs conserve energy while also improving indoor comfort. In addition, recycled materials are increasingly used in roofing, such as rubber shingles manufactured from recycled tyres or long-lasting and recyclable metal roofs.

Impacts of fluctuating prices on project quality and durability

Material prices fluctuate dramatically, particularly for metals, polymers, and petroleum-based materials, affecting the roofing, facade, and insulation industries. When the price of raw materials unexpectedly rises, contractors may experience cost overruns, forcing them to raise project budgets or postpone work until commodities become more reasonable. These price increases can make it difficult to maintain the quality of the finished project since contractors may be tempted to utilise less expensive alternatives.

Furthermore, pricing fluctuations impact the project's endurance. Due to increased expenses, contractors may use less expensive materials, compromising the building's long-term durability. This could lead to more frequent repairs and higher maintenance expenses, cancelling any early savings from using cheaper materials. Similarly, supply chain disruptions caused by higher material prices might lead to delays or using less readily available materials that do not fulfil the same performance requirements.



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encourage developers to employ long-lasting and environmentally beneficial materials. For example, the European Union's Green Deal requires considerable reductions in building energy use by 2030, encouraging the use of more energy-efficient and sustainable construction materials.

Furthermore, demand for green certifications like LEED (Leadership in Energy and Environmental Design) is increasing. These certifications mandate using sustainable materials, such as energy-efficient roofing, enhanced insulation, and eco-friendly facades. As more developers and building owners strive for these certifications, the demand for sustainable materials and practices rises.

Challenges in matching cost differences while catering to sustainable demands

A significant problem in roofing, facades, and insulation is balancing the higher initial prices of sustainable materials with their long-term value. Eco-friendly alternatives, such as recycled content and improved insulation, frequently cost more than standard solutions. While they provide energy savings and durability, the initial cost can be prohibitive, particularly for smaller projects or cost-conscious clients.

Many clients are also unaware of the long-term benefits of sustainable products. Building owners frequently focus on short-term expenses and are hesitant to invest in more expensive yet efficient materials. Educating them on how to save money on operations and perform better is critical.

Supply chain issues complicate the use of sustainable resources. As demand for green alternatives develops, shortages, price spikes, or delays may occur, making it impossible to satisfy project budgets and timelines.

Finally, balancing quality and sustainability presents a hurdle. Contractors must use products that are both environmentally friendly and high-performance. This balance can be difficult to maintain, especially when working with a limited budget or when cheaper, less sustainable alternatives are readily available. ■



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Thank You Very Much

Regards,

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