



TECHNICAL SUBMISSION

FOR PRESTRESSING ANCHORAGE SYSTEM

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COMPANY PROFILE

Scon Infra Prestress LLP, formerly known as SconInfrastructure, began its operations in 2009, with its dedication to provide top-notch services and contribute its expertise in India's Infrastructure Sector for future development. Our team of highly qualified engineers holds their specialization in multi-disciplinary engineering, bringing a combination of extensive knowledge and experience right on your field. With a strong focus on design and construction technologies, we have successfully completed a variety of projects, showcasing innovative skills and techniques in Civil Engineering and Building industries. Our executive team boasts over 50 years of combined experience, leading the way in Prestressing within the Indian construction industry, supported by certifications from renowned institutions like IIT Bombay, IIT Chennai, CTL USA, and EMPA Switzerland.

Specializing in all aspects of Post Tensioning design and execution, Scon has an impressive portfolio; which includes commercial and residential buildings, bungalows, retail centers, malls, hospitals, schools, institutional buildings, water tanks, parking structures, and more. Our equal dedication towards managing projects of any and every size, speaks volumes about the values of our brand.

Today, Scon Infra Prestress LLP sets a benchmark in the industry with its high quality products and reliable services with an exceptional safety record. Our professional and experienced staff is fully committed to meet and exceed every expectation.



OUR SPECIALIZATION



BUILDINGS

UNBONDED SYSTEM AND
BONDED PRESTRESSING SYSTEM
HDPE CORRUGATED
SHEATHING, ANCHORAGE CONE,
ANCHORAGE HEADS, WEDGES
ROCK ANCHORING
EXTERNAL PRESTRESSING
SUPPLY AND INSTALLATION OF
ARCHITECTURAL
EXPANSION JOINTS

BRIDGES



FACTORY

PRESTRESSING SYSTEM
HDPE CORRUGATED
SHEATHING, ANCHORAGE CONE,
ANCHORAGE HEADS, WEDGES
BRIDGE BEARINGS
POT - PTFE BEARING,
ELASTOMERIC BEARING,
PIN METALLIC GUIDED BEARING,
SPHERICAL BEARING
STRUCTURAL EXPANSION JOINTS
STRIPSEAL, MODULAR,
SINUS PLATE, FINGER TYPE
PRESTRESSING EQUIPMENT
HYDRAULIC JACKS (UPTO 900 TON
CAPACITY),
HYDRAULIC PUMP,
GROUTING PUMP, ETC.
REHABILITATION &
LIFTING OF HEAVY SPANS

SUPPLY & INSTALLATION OF
PRESTRESSING SYSTEM
CABLE STAY BRIDGES
EXTRADOSED BRIDGES
SKY WALKS
SUSPENSION BRIDGES
ARCH BRIDGES
HEALTH MONITORING SYSTEM



SCON FACTORY UNIT

SCON'S ADVANCED MANUFACTURING FACILITY IS STRATEGICALLY LOCATED FOR ENHANCED TRANSPORTATION ACCESSIBILITY ACROSS DIFFERENT REGIONS OF THE STATE, FACILITATING TIMELY MATERIAL DELIVERY.

OUR IN-HOUSE PRODUCTION CAPABILITIES NOT ONLY GUARANTEE THE SUPERIOR QUALITY OF MATERIALS BUT ALSO ENSURE PUNCTUAL PRODUCTION AND DELIVERY ELIMINATING DEPENDENCE ON THIRD-PARTY VENDORS.

THE ENTIRE PRODUCTION PROCESS, FROM RAW MATERIAL PROCUREMENT TO DIMENSION CONTROL IS METICULOUSLY MANAGED IN-HOUSE, MITIGATING THE RISKS ASSOCIATED WITH INFERIOR QUALITY MATERIALS AND DELAYED DELIVERIES.



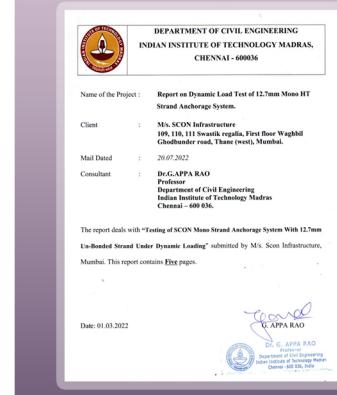
S
C
O
N

UNBONDED SYSTEM



SCON IS THE FIRST COMPANY IN INDIA WHICH MANUFACTURES WEDGES WITH COLD FORGING METHOD. RAW MATERIAL USED 20 MNCR²

IIT CHENNAI CERTIFICATION FOR : FATIGUE TEST ANCHORAGE EFFICIENCY TEST LOAD TRANSFER TEST



SCON Unbonded PT System consists of High Tensile Strand, 12.9 mm/15.2 mm diameter, grease filled, with PE coating, manufactured in-house, as per ACI 423.7-14

KEY BENEFITS OF UNBONDED SYSTEM

- ▶ COST REDUCTION
- ▶ REDUCTION IN THICKNESS OF PT SLABS
- ▶ UNIFORM LOAD DISTRIBUTION
- ▶ ELIMINATION OF GROUTING ACTIVITY WHICH SAVES TIME AND REDUCES COST
- ▶ RESTRESSING IS POSSIBLE FOR UNBONDED STRANDS ANY TIME DURING THE LIFE SPAN OF THE STRUCTURE



SCON INTRODUCES VOIDED SLAB SYSTEM THAT REDUCES THE WEIGHT AND THICKNESS OF A CONCRETE SLAB WITHOUT COMPROMISING ON ITS PERFORMANCE.

IS 4671:1984 IRC:SP:64

SCON VOIDED PT SLAB

WHY VOIDED SYSTEM ?

IN ORDER TO REDUCE THE DEAD WEIGHT OF STRUCTURE, IN BRIDGES AND BUILDINGS, DESIGNERS PREFER TO CREATE VOIDS IN THE STRUCTURE. IN EARLIER DAYS, METALLIC DUCTS WERE USED TO CREATE VOIDS. HOWEVER THE MANUFACTURING AND INSTALLATION PROCESS FOR THE SAME IS CUMBERSOME. HENCE, WE HAVE DEVELOPED SIMPLE AND EASY METHOD TO CREATE VOIDS BY THE USE OF HIGH DENSITY POLYSTYRENE.

FIRST TIME IN INDIA, USED 1200 MM DIAMETER, SINGLE PIECE, HIGH DENSITY THERMOCOL AS VOID, FOR ONE OF OUR PROJECTS AT SUBURBAN RAILWAY BRIDGE BETWEEN THANE AND MULUND.



UDYAM REGISTRATION CERTIFICATE

NAME OF ENTERPRISE: SCON INFRA PRESTRESS LLP

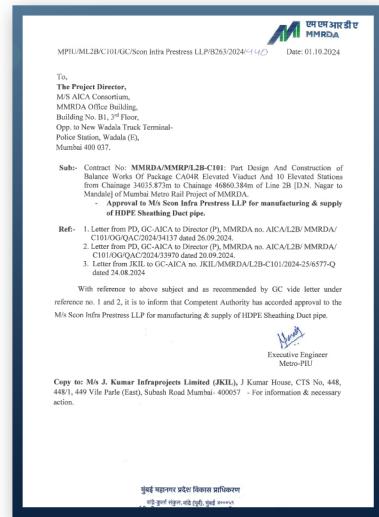
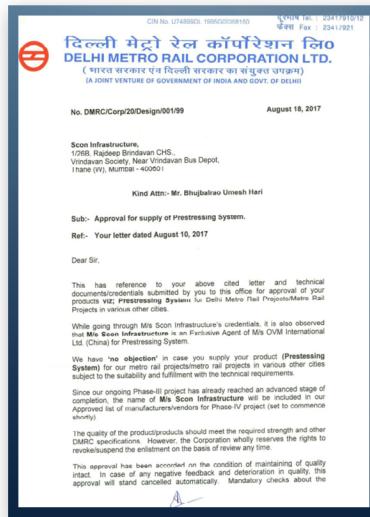
TYPE OF ENTERPRISE*: MANUFACTURING

MAJOR ACTIVITY: MANUFACTURING

NAME OF UNIT: SCON INFRA PRESTRESS LLP

OFFICIAL ADDRESS OF ENTERPRISE: 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 299, 300, 301, 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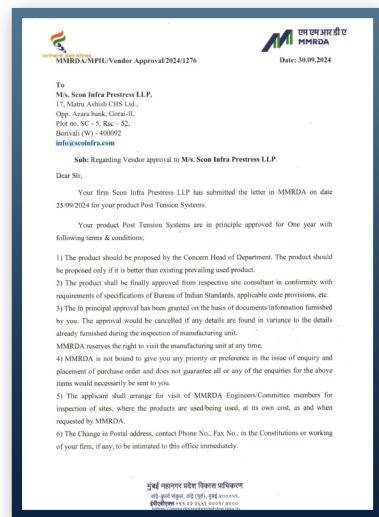
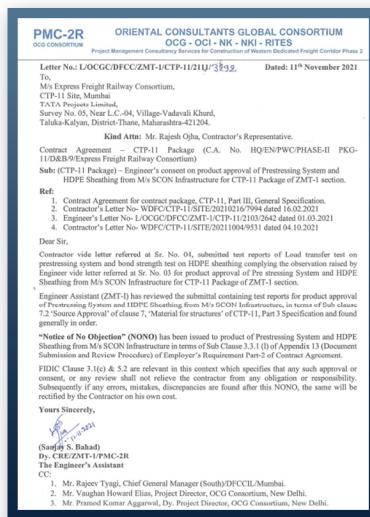
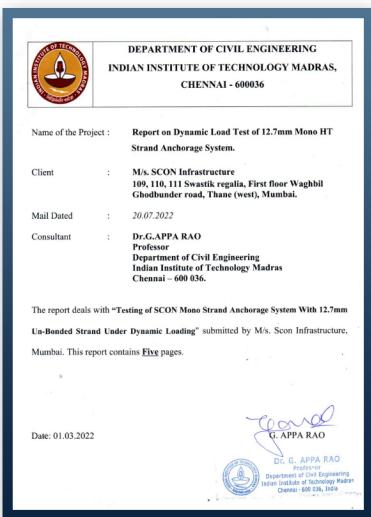
CERTIFICATES & APPROVALS



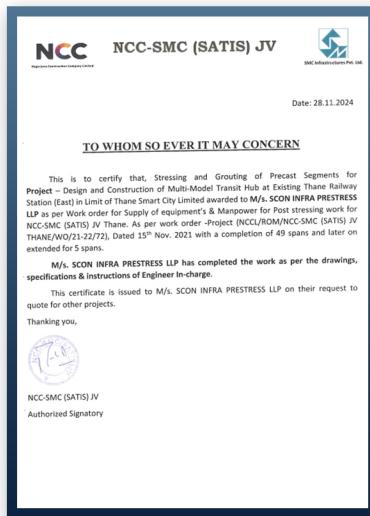
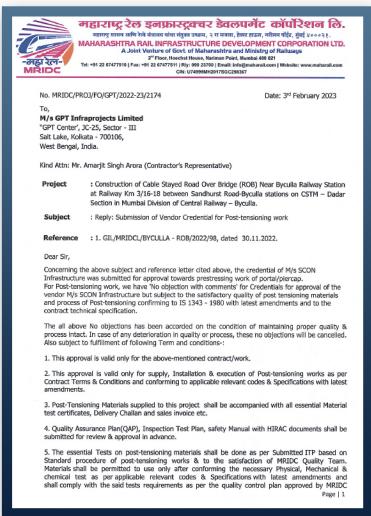
ISO CERTIFICATE



MMRDA APPROVAL



IIT MADRAS CERTIFICATION FOR
ANCHORAGE SYSTEM APPROVAL



MRIDC 2174 - VENDOR CREDENTIAL APPROVAL



FATIGUE TEST CERTIFICATE FOR
CABLE STAY ANCHORAGE CHICAGO, USA

COMPANY HIERARCHY

MANAGING DIRECTORS



MR. UMESH
BHUJBALRAO



MR. VAIBHAV
PARAB

SCON INFRA PRESTRESS LLP is one of the leading company in pre-stressing industry since it's commencement in 2009. The company provides wide range of services including manufacturing, supply & execution of prestressing systems.

Management Team

CEO

Mr. Saurav Bhujbalrao

Senior Operations Leader

Mr. Jagdish Surve

Vice Presidents Commercials

Mr. Naresh Bassi

Vice Presidents Technical

Mr. Deepak Thombre

Factory incharge

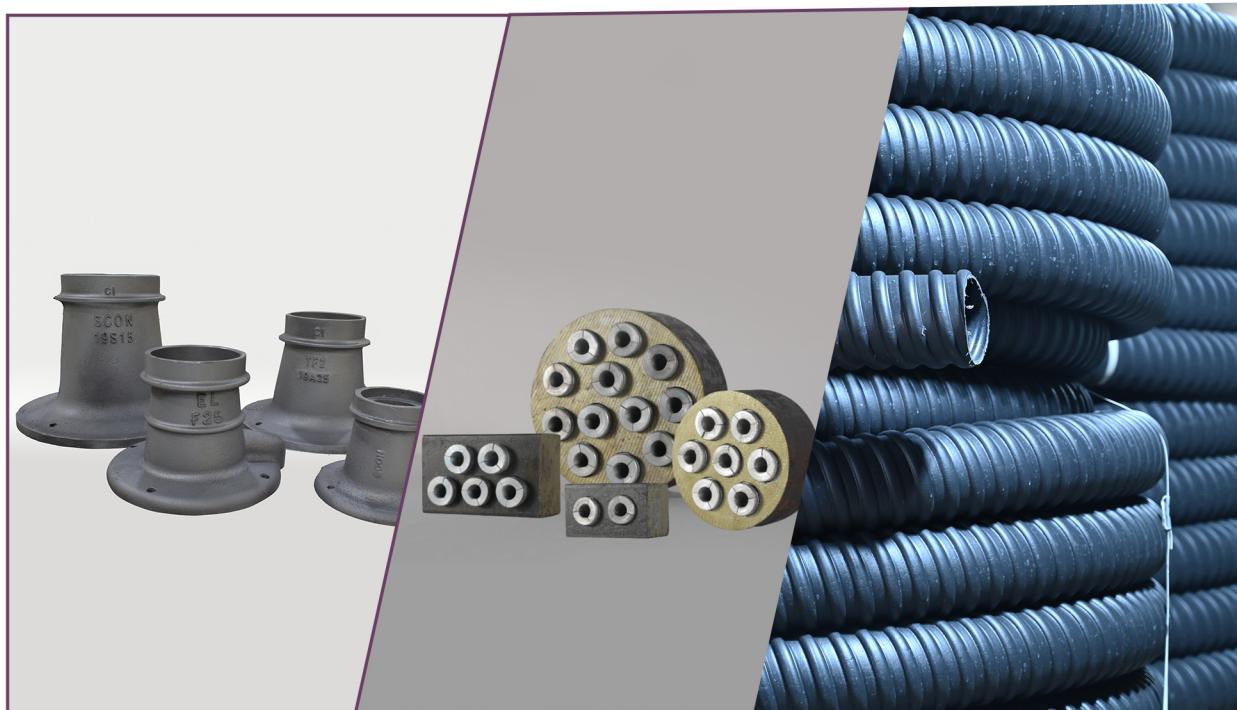
Mr. Sachin Yadav

Technical Staff

Design Engineers	: 5
Factory Managers	: 3
Executive Engineers	: 7
Stressing Site Engineers	: 12
Technician	: 23
Production Engineers	: 7
Quality Engineers	: 4

Our technical team brings over 45 years of combined experience in the field of prestressing, ensuring unmatched expertise, precision and reliability in every project we undertake.

POST TENSIONING MATERIALS



PRODUCT SPECIFICATION

Sr. No.	Components	Reference code	Specification	Grade
1	Pre- stressing	IS 1343 : 1980 / IRS Concrete	Pre stressing Concrete	
2	Anchor Cone	IS 210 : 2009 / IS 1865 : 1991	Grey Iron Casting	FG260 / SG 500/7
3	SWC HDPE Pipe	IRC 112 : 2020 & FIB 75	Polymer duct systems	PE resin (Compound)
4	Anchor Head	BS : 970 – 3 : 1991	Wrought steels	EN8 / EN8D
5	Wedges	DIN EN 10084 : 2008 / GBT	Alloy Steels	20MnCr5/ 16MnCr5 / 20CrMnTi

PRODUCTS



ANCHOR CONE

Basic raw material for manufacture of tube unit is grey cast iron. It transfer the pre-stressing force from bearing plate to concrete

SWC HDPE

Basic raw material for manufacturing HDPE pipe is PE granules. It provide good bonding with the concrete and easy to installed with less wear and tear.



ANCHOR HEAD

Basic raw material of Anchor head is forged steel. Conical holes facilitate the seating of wedges and holding the strands in stressed condition

WEDGES

Basic raw material for manufacture of wedges is alloy steel. The 3 segment wedges are held together around the strand by circlip for better functioning, easy placement & storage.



QUALITY ASSURANCE PLAN FOR POST - TENSIONING MATERIALS

REPORT : INSPECTION TEST PLAN DOC. NO.: SCON/QAP/ANCHORAGE/001 – REV.04

SR. NO.	COMPONENT	TEST PARAMETER	APPLICABLE STANDARD	ACCEPTABLE VALUE	TESTING FREQUENCY	DEFINITION OF LOT	DOCUMENT	REVIEW
1.	ANCHOR HEAD	Material Grade :	EN8 (080M40) / EN8D (080A42) / C45					
	Raw Material	Chemical Mechanical	BS: 970-1991 EN 10083-2 UTS ELONGATION	As per Code 510 N/mm ² Min. 17 % Min.	Three samples taken but one sample tested, if this fails the other two will be tested.	One each of lot purchase	NABL Report	Client/ Consultant
	Finish product	Mechanical Physical dimension	Hardness	160 to 190 BHN As per approved drawing	100% lot using gauge & 10% reported	Batch of Production	Dimension Report	
2.	LIVE WEDGES	Material Grade :	20MNCR5 / 20CRMNTI					
	Raw Material	Chemical Mechanical	EN 10084 GBT/3077 Hardness	As per Code 95 to 100 HRB	Three samples taken but one sample tested, if this fails the other two will be tested.	One each of lot purchase	NABL Report	Client/ Consultant
	Finish product	Chemical Mechanical Physical dimension	EN 10084 GBT/3077 Hardness Case Depth 100X Microscopic Method	As per Code 0.2 to 0.4 HRC 55 to 65 R15N 88 to 92 mm As per approved drawing				
3.	ANCHOR CONE	Material Grade :	FG260					
	Raw Material	Mechanical	UTS	260 N/mm ² min.				
	Finish product	Mechanical	Hardness HBW 2.5mm/187.5 Kgf Metallography Unetched Condn. Etched Condition	HBW 180 - 230 Type VII Graphite A Graphite Class 3 Pearlite & Flakes in ferrite matrix	Three samples taken but one sample tested, if this fails the other two will be tested.	One each of lot purchase	NABL Report	Client/ Consultant
4.	HDPE PIPE	MATERIAL GRADE :	PE (COMPOUND)	IRC 112 : 2020				
	Raw Material	Melt Flow Index 190°C @5kg Density @23°C Tensile Strength & Elongation @yield Shore D Hardness	IS 2530 IS 2530 ISO 527-3 ISO 527-3 ISO 2039-1	0.5 to 1.3 g/10 min. 0.94 to 0.96 gm./cc 20 TO 36 Mpa 10 to 30 % 55 to 65	Once at the time of qualifying system		NABL Report Manufacture Report	Client/ Consultant
	Finish product	Carbon Content	IS 2530	> 2%				

Anchor Cone raw material NABL reports

M/s. SCON INFRA PRESTRESS LLP		FACTORY INSPECTION						DATE : 06.04.2023	
Sr. No.	Product	Primary Manufacturer	Grade / Size	Mill test certificate (Supplier)	Invoice / Challan of Supplier	Inhouse Inspection report	Third party test report	Final product inspection report	Product Identification
3	Anchor Cone	Trimurti Engg. tools pvt. Ltd.	Grade FG-260 Size 19515 12515	Heat no. Report no.	PO. no. Date TM/24-25/6 07.04.2024	Dimension report	ID no. Lab Ref. No.	Dimension Report 3rd party	SCON

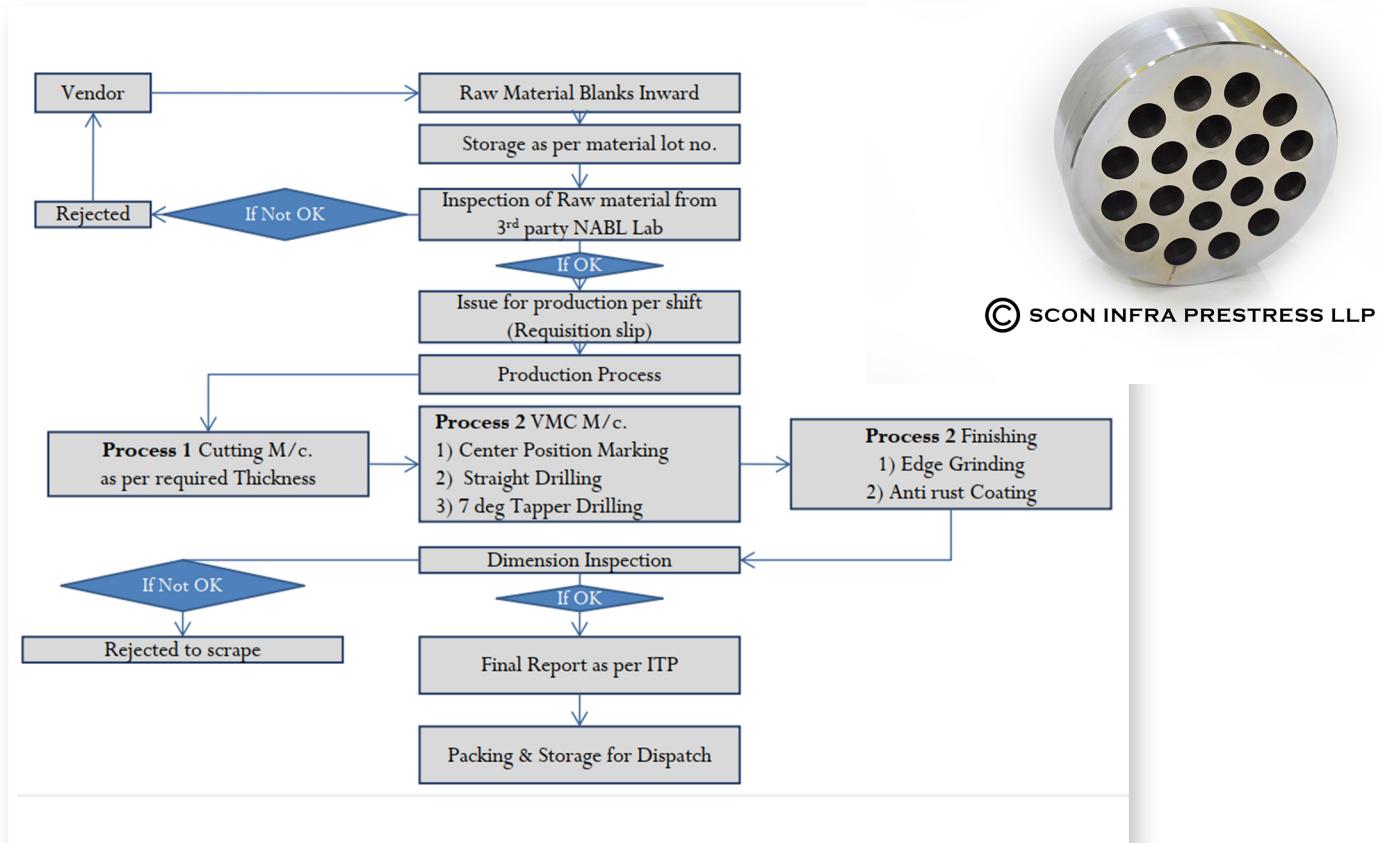
 ISO 9001:2015 TC-11984	 Sohm Analytical	 Analytical Mahalaxmi																				
Sohm Analytical Services (I) Pvt. Ltd. Accredited by NABL vide Certificate Number TC-11984																						
TEST REPORT																						
M/s SCON INFRA PRESTRESS LLP Plot No. 76, Balasa Industrial Park, Saravali Village, Nashik Highway, Bhivandi - 421311 Ref. No.: Challan Dated: 11-04-2024 Description: Testing of Concrete Test Bar Sample																						
ID Mark 19515 Heat No 29C24 Sample No 1 Discipline : Chemical Group : Metals & Alloys CHEMICAL ANALYSIS BY SPECTRO Test Method : ASTM E 1995:2018 Test Method: AAS																						
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Elements</td> <td style="width: 90%;">Result</td> </tr> <tr> <td>% Carbon</td> <td>3.14</td> </tr> <tr> <td>% Silicon</td> <td>1.81</td> </tr> <tr> <td>% Manganese</td> <td>0.89</td> </tr> <tr> <td>% Phosphorus</td> <td>0.042</td> </tr> <tr> <td>% Sulphur</td> <td>0.025</td> </tr> <tr> <td>% Chromium</td> <td>0.20</td> </tr> <tr> <td>% Nickel</td> <td>0.025</td> </tr> <tr> <td>% Molybdenum</td> <td>0.032</td> </tr> <tr> <td>% Copper</td> <td>0.40</td> </tr> </table>			Elements	Result	% Carbon	3.14	% Silicon	1.81	% Manganese	0.89	% Phosphorus	0.042	% Sulphur	0.025	% Chromium	0.20	% Nickel	0.025	% Molybdenum	0.032	% Copper	0.40
Elements	Result																					
% Carbon	3.14																					
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% Molybdenum	0.032																					
% Copper	0.40																					
Remarks: Test Method Approved By: Mr. Tejaswar Gaonkar (Quality Engineer of M/s. Scon Infra Prestress LLP) Mr. Rohan Raj (Sr. Manager QA/QC) of M/s. J. Kumar Infra project Pvt Ltd & Mr. Aulf Valsangkar (Sr. QA/QC [K3]) AICA/GC on 15-Apr-2024																						
Continue. Page 1 of 3																						
Plot No. RTC 41, Bohem House, Bhati Fire Brigade, Balasa MDC, Navi Mumbai - 401 761. www.sohmanalytical.com Rehabs.Insp@sohmanalytical.com Tel: +91 8657050211, Mob: +91 7021322828 Note: 1. The above test results relate to sample submitted. 2. Results are valid for the sample tested and its testing within permission of the QA. 3. Sohm Analytical Services (I) Pvt. Ltd. is not responsible in any way for any financial liability due to omission or error made in the report. The company or its management shall not be responsible																						
UNIT : THANE TALOJA KOLHAPUR																						
Page No. 1 of 2																						

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TEST REPORT			
444 CONCRETE PRESTRESS LTD Plot No. 76, Baldeo Industrial Park, Saravali Village, Nachik Highway, Bhawansar - 421311 Ref. No: Cable No: Cable Length: Description:		Lab No.: RCBS4 Sample No.: 11-04-2024 Report Completed on: 15-04-2024 Stamped By: Specification: IS 210:2009 Gr. F6 260	
Discipline : Mechanical Group : Mechanical Properties of Metals Tensile Test Method : IS 1482 (Part 13)2022 Type of Test : Tensile Test Specimen No.: 14-04-2024		Result Date: 18-04-2024 Retest Date: 18-04-2024	
Description Guage Ox (mm) Area (mm²) Ultimate Load (kN) U.T.S (kN) Fracture Remark		Result 315.10 85.85 85.2 WPL SafeLoad	
		Required Value 260.00 min.	
Discipline : Mechanical Group : Mechanical Properties of Metals Hardness Test Method : IS 1590 (PART 2)2018 Type of Test : Hardness Test Specimen No.: 14-04-2024		Result Date: 18-04-2024 Retest Date: 18-04-2024	
Description Location Hardness Hardness in HBW Remark		Result Surface 2.5 22.4/29.2/29 SafeLoad	
		Required Value 180-230	
Test Witnessed By: Shri. Bhupender Gondkar (Quality Engineer) of M/s. Scan India Prestress LTD, Mr. Rohan Raj (Sr. Manager QA/QC) of M/s. JK Kumar Infra Project Ltd & Mr. Aulf Vahangkar (Sr. QA/QC) of K3 AKCA/GC on 15-Apr-2024 			
Continue... Page 2 of 3			
Plot No. RTG-41, Sohm House, B/H Fire Brigade, Bhadra MDCB, Nard Mumbai - 400 795 www.sohmanalytical.com rahuksupport@sohmanalytical.com Tel: 8657059311 Mob: 7921332528			
Note: 1. The above test results relate only to sample submitted. 2. The above test results are valid only for the samples and in the conditions of the QM. 3. Scan QM Code to view the Scan Sheet and Certificate. 4. The currency in which amounts are expressed is the only one in which the financial liability due to remuneration or any other mode in the report.			
UNIT : THANE TALUKA : KOLHAPUR			

   TC-1180	 Schim ANALYTICAL SERVICES (P) LTD.	 ASQ ASQ Quality																											
Schim Analytical Services (P) Ltd. <small>Accredited by NABL vide Certificate Number TC-11690</small>																													
TEST REPORT																													
M/s. SCON, INFRA PRESTRESS LLP Plot No. 76, Bokaro Industrial Park, Saravalli Village, Nahni Highway, Bhadravati - 423111 Dist. Ratnagiri Challen Date: 11-04-2024 Description: Testing of Anchor Cone Test Bar Sample																													
Designation: Thickness: 10 mm, Length: 100 mm, Weight: 100 gms Micro examination: Test Method : ASM Volume Norms																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Description</th> <th>Result</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Existing Condition</td> <td>Stretched Condition</td> <td>Stretched Condition</td> </tr> <tr> <td>Etchant</td> <td></td> <td>Nital</td> </tr> <tr> <td>Magnification</td> <td>100X</td> <td>100X</td> </tr> <tr> <td>Location</td> <td>Cross-section</td> <td>Cross-section</td> </tr> <tr> <td>Graphite Type</td> <td>Type VII Graphite</td> <td></td> </tr> <tr> <td>Distribution</td> <td>A Graphite</td> <td>-</td> </tr> <tr> <td>Class</td> <td>Class 3</td> <td>-</td> </tr> <tr> <td>Observation</td> <td>-</td> <td>The microstructure revealed perlite & flakes in ferrite matrix.</td> </tr> </tbody> </table>			Description	Result	Result	Existing Condition	Stretched Condition	Stretched Condition	Etchant		Nital	Magnification	100X	100X	Location	Cross-section	Cross-section	Graphite Type	Type VII Graphite		Distribution	A Graphite	-	Class	Class 3	-	Observation	-	The microstructure revealed perlite & flakes in ferrite matrix.
Description	Result	Result																											
Existing Condition	Stretched Condition	Stretched Condition																											
Etchant		Nital																											
Magnification	100X	100X																											
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Distribution	A Graphite	-																											
Class	Class 3	-																											
Observation	-	The microstructure revealed perlite & flakes in ferrite matrix.																											
Photo enclose: Yes																													
Test Witnessed By Mr. Tarhan Goonker (Quality Engineer) of M/s. Scon Infra Prestress LLP, Mr. Rohan Raj (Sr. Manager QA/QC) of M/s. Kumbhar Infrastruct Pvt Ltd & Mr. ASL Valsaragar (Sr. QA/QC [K3]) A/C No: GC-15-Agri-2024																													
FOR SCHIM ANALYTICAL SERVICES (P) LTD.																													
Authorised Signatory O. P. SINGH HOD: Chemical																													
Authorised Signatory Vinay Varadaraj Tech. Manager																													
End of Report																													
 Checked by																													
Page 3 of 3																													
																													
<small>Print No. RTG-14, Sector House, Fire Brigade, Pukar MDC, Navi Mumbai - 401 701 www.schimanalytical.com sales@schimanalytical.com +91 8857000311 Mob: +91 921332528</small>																													
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<small>UPTM : THANE TALOJA KOLHAPUR</small>																													
<small>Form No. SAQ/FR/07/2024</small>																													

 Certified by TÜV AUSTRIA	Format NO:MAKFRE.20.27.63	 Sohm Analytical Amrit Mahalotsav
		Sohm Analytical Services (I) Pvt Ltd. www.sohmanalytical.com
TEST CERTIFICATE		
Supplement Report for LRN — RC8854		
Micro Photograph At 100X Magnification – Unetched Condition		
		
		
Authorized by:		
Plot No. KTC 41, Sohm House, Bhi Pura Brigade, Rabale MIDC, Navi Mumbai – 400 701. Rahulan.support@sohmanalytical.com 0122-25471296 / 077-7021933388		

Anchor Head Production Process Chart



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Production of Anchor Head in VMC machine



1. ANCHOR HEADS ARE ACCURATELY DRILLED ON VMC MACHINES TO ACHIEVE HIGH ACCURACY AND HIGH QUALITY.
2. THE SPECIALLY FORGED BEARINGPLATES ANCHORS THE CABLE AND TRANSFERS THE PRE-STRESSING FORCE TO THE GUIDE. REQUIRED NO. OF HOLES ARE ACCURATELY DRILLED THE PLATE FOR ANCHORING INDIVIDUAL STRANDS.
3. APPROX. 45 TONS. PRODUCTION PER MONTH

Anchor Head Raw Material NABL Report

M/s. SCON INFRA PRESTRESS LLP

FACTORY INSPECTION

DATE : 21.03.2024

Sr. No.	Product	Primary Manufacturer	Grade / Size	Mill test certificate (Supplier)	Invoice / Challan of Supplier	Inhouse Inspection report	Third party test report	Final product inspection report	Product Identification
1	Anchor Head (Bearing plate) 12S15	JSW	Grade C45 Size ϕ 160 mm	Heat no. F19997 Certificate no. 561085	Invoice no. 289 Date 09.02.2024	Attached	ID no. Lab Ref. No. RC4058R	Dimension Report 3rd party	SCON
2	Anchor Head (Bearing plate) 19S15	JSW	Grade EN8D Size ϕ 200 mm	Heat no. F20155 Certificate no.	Invoice no. 0599 Date 13.03.2024	Attached	ID no. Lab Ref. No.	Dimension Report 3rd party	SCON





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TC-11690

TEST REPORT

M/s SCON INFRA PRESTRESS LLP
Plot No. 76, Babasa Industrial Park, Saravali Village, Nashik Highway, Bhivandi - 421311
Ref. No.: SC-OT-2411
Challan Dated: 27-03-2024

U.L.R-TC1169024000007992F
Lab Ref. No.: RC7815
Sample Received on: 28-03-2024
Report Completed on: 04-04-2024
Stamped By:
Specification:BS 970(PART-3):1991 Gr. 080A42 (EN 8D)

Description: Testing of Round Bar Sample (Anchor Head 19S15)
Size: 200mm Dia
ID No / Heat No: F20155
Discipline : Chemical Group : Metals & Alloys
CHEMICAL ANALYSIS BY SPECTRO Test Method : ASTM E 415 - 2021
Ept. Sr. No:38046956

Elements	Result	Required Value
% Carbon	0.40	0.40-0.45
% Silicon	0.23	0.10-0.40
% Manganese	0.79	0.70-0.90
% Phosphorus	0.012	0.050 max.
% Sulphur	0.030	0.050 max.

Remarks: THE ABOVE MATERIAL CONFORMS TO BS 970(PART-3):1991 Gr. 080A42 (EN 8D) WITH RESPECT TO ELEMENT ANALYSED.

Test Witnessed By: Mr. Tushar Gaonkar (Quality Engineer) of M/s. Scon Infra Prestress LLP, Mr. Rohan Raj (Sr. Manager QA/QC) of M/s. J Kumar Infraproject Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC (K3) AICA.GC on 04-Apr-2024

Barcode

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TC-11690

TEST REPORT

M/s SCON INFRA PRESTRESS LLP
Plot No. 76, Babasa Industrial Park, Saravali Village, Nashik Highway, Bhivandi - 421311
Ref. No.: SC-OT-2411
Challan Dated: 27-03-2024

U.L.R-TC1169024000007992F
Lab Ref. No.: RC7815
Sample Received on: 28-03-2024
Report Completed on: 04-04-2024
Stamped By:
Specification:BS 970(PART-3):1991 Gr. 080A42 (EN 8D)

Description: Testing of Round Bar Sample (Anchor Head 19S15)
Discipline : Mechanical Group : Mechanical Properties of Metals
Tensile Test Test Method : ISO 6892-1:2019
Ept. Sr. No:38046956 Date: 05/2023-6977 Calibration Date: 28-06-2023 Due On: 27-06-2024

Description	Result	Required Value
Gauge Dia. (mm)	10.04	
Area (mm ²)	79.17	
Gauge Length (mm)	50.00	
Final Gauge Length (mm)	63.56	
Yield Load (kN)	27.26	
Yield Strength N/mm ²	344.3	
Ultimate Load (kN)	48.49	
U.T.S. N/mm ²	612.5	
Elongation (%)	27.12	
Fracture Location	V.G.I	

Discipline : Mechanical Group : Mechanical Properties of Metals
Hardness Test Test Method : ISO 6506-1:2004
Ept. Sr. No:38046956 Date: 12-09-2023 Calibration Date: 11-06-2024 Due On: 11-06-2024

Description	Result	Required Value
Location	Surface	Client
Hardness	2.5 mm dia ball / 187.5 kgf Load	
Hardness in HBW	180,177,177	160-190
Remark	Satisfactory	

Test Witnessed By: Mr. Tushar Gaonkar (Quality Engineer) of M/s. Scon Infra Prestress LLP, Mr. Rohan Raj (Sr. Manager QA/QC) of M/s. J Kumar Infraproject Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC (K3) AICA.GC on 04-Apr-2024

FOR SOHM ANALYTICAL SERVICES (I) Pvt Ltd.

Authorized Signatory: O. P. SINGH HOD. Chemical

Authorized Signatory: Vinay Varadkar Tech. Manager

Checked by

Plot No. RTC 41, Sohm House, B/H Fire Brigade, Rabale MIDC, Navi Mumbai - 400 701.
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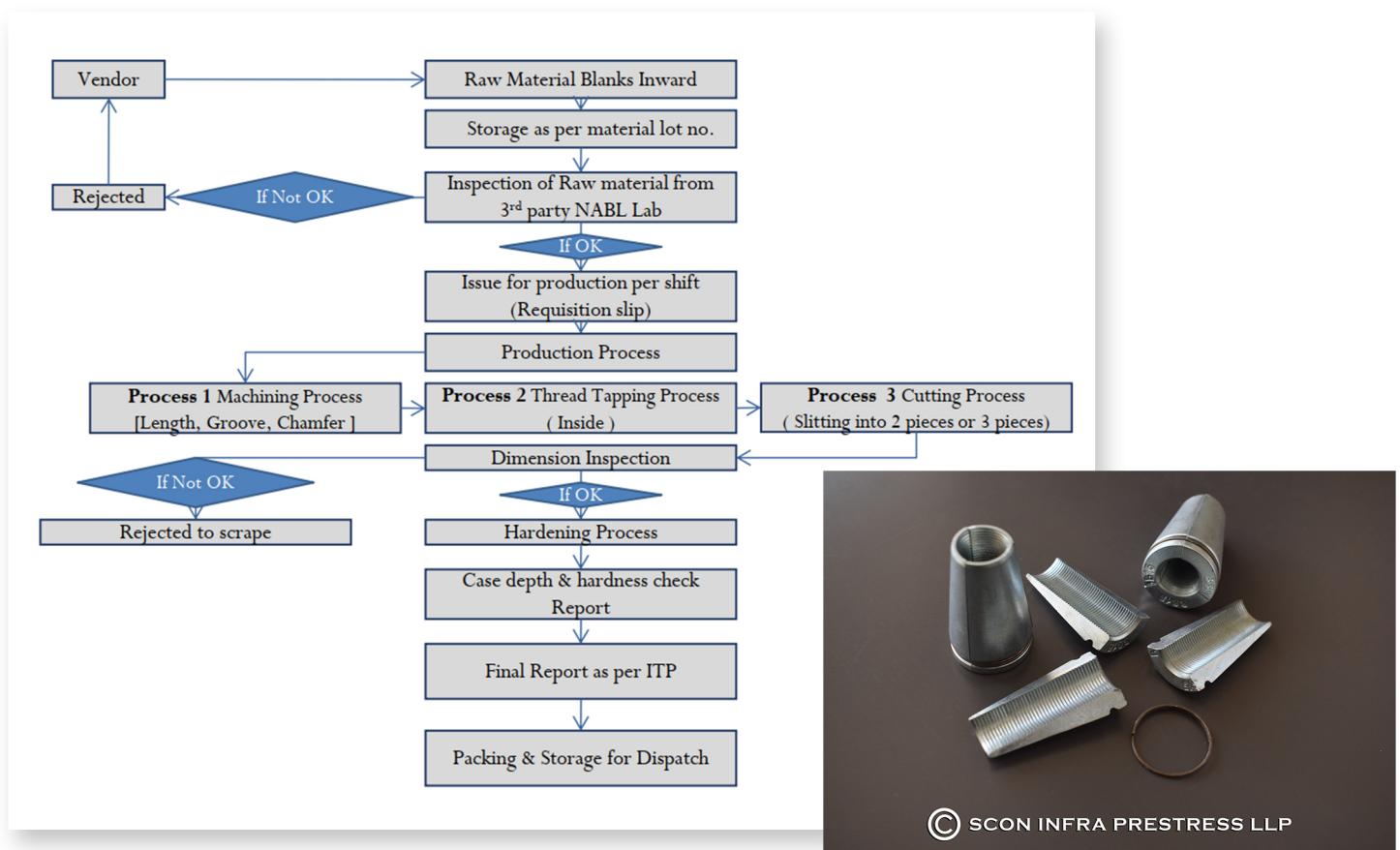
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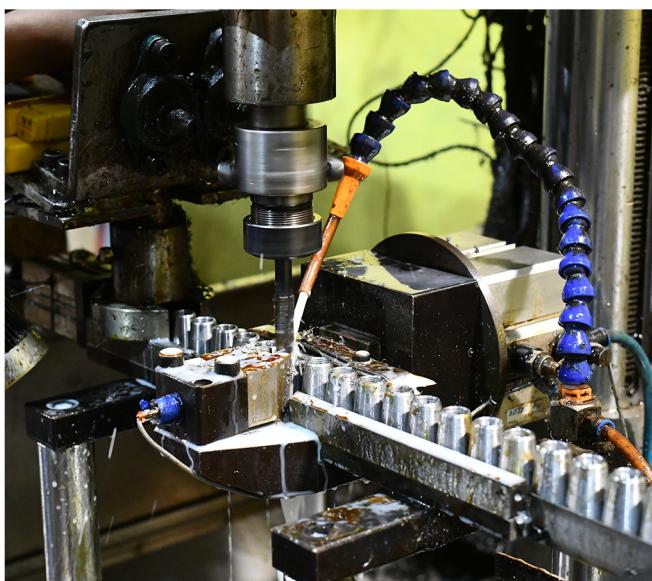
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Wedges Production Process Chart



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PRODUCTION OF WEDGES



- 1) IN – HOUSE CONTINUOUS PRODUCTION OF LIVE WEDGES WITH HIGH ACCURACY AND BETTER QUALITY.
- 2) BATCH WISE PRODUCTION OF 15.2 MM AND 12.9 MM WEDGES.
- 3) PRODUCTION OF 3 PIECE AND 2 PIECE WEDGES FOR ANCHORAGE SYSTEMS ARE MACHINED ON ADVANCED CNC MACHINES.
- 4) APPROX 80,000 WEDGES PER MONTH PRODUCTION.

Wedges Raw Material NABL Report

M/s. SCON INFRA PRESTRESS LLP

FACTORY INSPECTION

DATE : 21.03.2024

Sr. No.	Product	Primary Manufacturer	Grade / Size	Mill test certificate (Supplier)	Invoice / Challan of Supplier	Inhouse Inspection report	Third party test report	Final product inspection report	Product Identification
1	Wedges 15.2 mm	Guangxi Surmerco Tradeco, Ltd. Hexan jivlan Fronasteel co. ltd.	20CrMnTi	Attached	24 BVP/2023-24/PO-12	Dimension Report	Lab no.:	In house report Third party report	BB15



TEST REPORT

M/s SCON INFRA PRESTRESS LLP
Plot No. 76, Babaso Industrial Park, Saravali Village, Nashik Highway, Bhilwadi - 421311
Ref. No.: SC-OT-2411
Challan Dated: 27-03-2024
Description: Testing of BB15 Blank Wedge Sample (Raw Material of Wedges)

Size
ID No / Heat No O12309604

Discipline : Chemical Group : Metals & Alloys
CHEMICAL ANALYSIS BY SPECTRO Test Method : ASTM E 415 -2021
Ept. Sr. No: 8006596

Elements	Result	Required Value
% Carbon	0.19	[20CrMnTi (GB/T 3077)] 0.17-0.23
% Silicon	0.23	0.17-0.37
% Manganese	0.91	0.80-1.10
% Phosphorus	0.015	
% Sulphur	0.005	
% Chromium	1.17	1.00-1.30
% Titanium	0.048	0.040-0.10

Remarks: Satisfactory As Per Customer Specified Elements

Test Witnessed By: Mr. Tushar Gaonkar (Quality Engineer) of M/s. Scon Infra Prestress LLP, Mr. Rohan Raj (Sr. Manager QA/QC) of M/s. J Kumar Infraproject Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC (K3) AICA,GC on 04-Apr-2024

Discipline : Mechanical Group : Mechanical Properties of Metals
Hardness Test Test Method : ISO 6508-5:2016
Ept. Sr. No: 04/2023-4623 Calibration Date: 12-05-2023 Due On: 11-06-2024

Description	Result
Location	Surface
Hardness In HRB	98.4-98.5,98.1

Test Witnessed By: Mr. Tushar Gaonkar (Quality Engineer) of M/s. Scon Infra Prestress LLP, Mr. Rohan Raj (Sr. Manager QA/QC) of M/s. J Kumar Infraproject Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC (K3) AICA,GC on 04-Apr-2024

FOR SOHM ANALYTICAL SERVICES (I) Pvt Ltd.
Authorized Signatory **O. P. SINGH** HOD. Chemical
Authorized Signatory **Vinay Varadkar** Tech. Manager
Checked by _____

Plot No. RTC 41, Sohn House, BH Fire Brigade, Rabale MIDC, Navi Mumbai - 400 701.
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TEST REPORT

M/s SCON INFRA PRESTRESS LLP
Plot No. 76, Babaso Industrial Park, Saravali Village, Nashik Highway, Bhilwadi - 421311
Ref. No.: SC-OT-2411
Challan Dated: 27-03-2024
Description: Testing of BB15 Finished Wedge Sample

Size
ID No / Heat No O12309604

Discipline : Chemical Group : Metals & Alloys
CHEMICAL ANALYSIS BY SPECTRO Test Method : ASTM E 415 -2021
Ept. Sr. No: 8006596

Elements	Result	Required Value
% Carbon	0.22	[20CrMnTi (GB/T 3077)] 0.17-0.23
% Silicon	0.25	0.17-0.37
% Manganese	0.95	0.80-1.10
% Phosphorus	0.014	
% Sulphur	0.004	
% Chromium	1.16	1.00-1.30
% Titanium	0.052	0.040-0.10

Remarks: Satisfactory As Per Customer Specified Elements

Test Witnessed By: Mr. Tushar Gaonkar (Quality Engineer) of M/s. Scon Infra Prestress LLP, Mr. Rohan Raj (Sr. Manager QA/QC) of M/s. J Kumar Infraproject Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC (K3) AICA,GC on 04-Apr-2024

Discipline : Mechanical Group : Mechanical Properties of Metals
Hardness Test Test Method : ISO 6508-5:2016
Ept. Sr. No: 04/2023-4623 Calibration Date: 12-05-2023 Due On: 11-06-2024

Description	Result	Required Value
Location	Surface	Client
Hardness in HRC	58.8,58.0,58.6	55-65
Remark	Satisfactory	

Test Witnessed By: Mr. Tushar Gaonkar (Quality Engineer) of M/s. Scon Infra Prestress LLP, Mr. Rohan Raj (Sr. Manager QA/QC) of M/s. J Kumar Infraproject Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC (K3) AICA,GC on 04-Apr-2024

SCON INFRA PRESTRESS LLP Logo
08-04-2024

Plot No. RTC 41, Sohn House, BH Fire Brigade, Rabale MIDC, Navi Mumbai - 400 701.
www.sohmanalytical.com | rabale.support@sohmanalytical.com | Tel.: 8657050311 Mob.: 7821332528

Notes:
• The above test reports relate only to sample submitted.
• No part of this test report may be reproduced without the written permission of the QM.
• Scan QR Code above to see our Scope and Certificate.
• The company or its management shall not be responsible in any way for any financial liability due to omission or error made in the report.

UNIT : THANE | TALOJA | KOLHAPUR

Continue... Page 1 of 2

Plot No. RTC 41, Sohn House, BH Fire Brigade, Rabale MIDC, Navi Mumbai - 400 701.
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UNIT : THANE | TALOJA | KOLHAPUR

08-04-2024

Page 1 of 1

UNIT : THANE | TALOJA | KOLHAPUR

08-04-2024

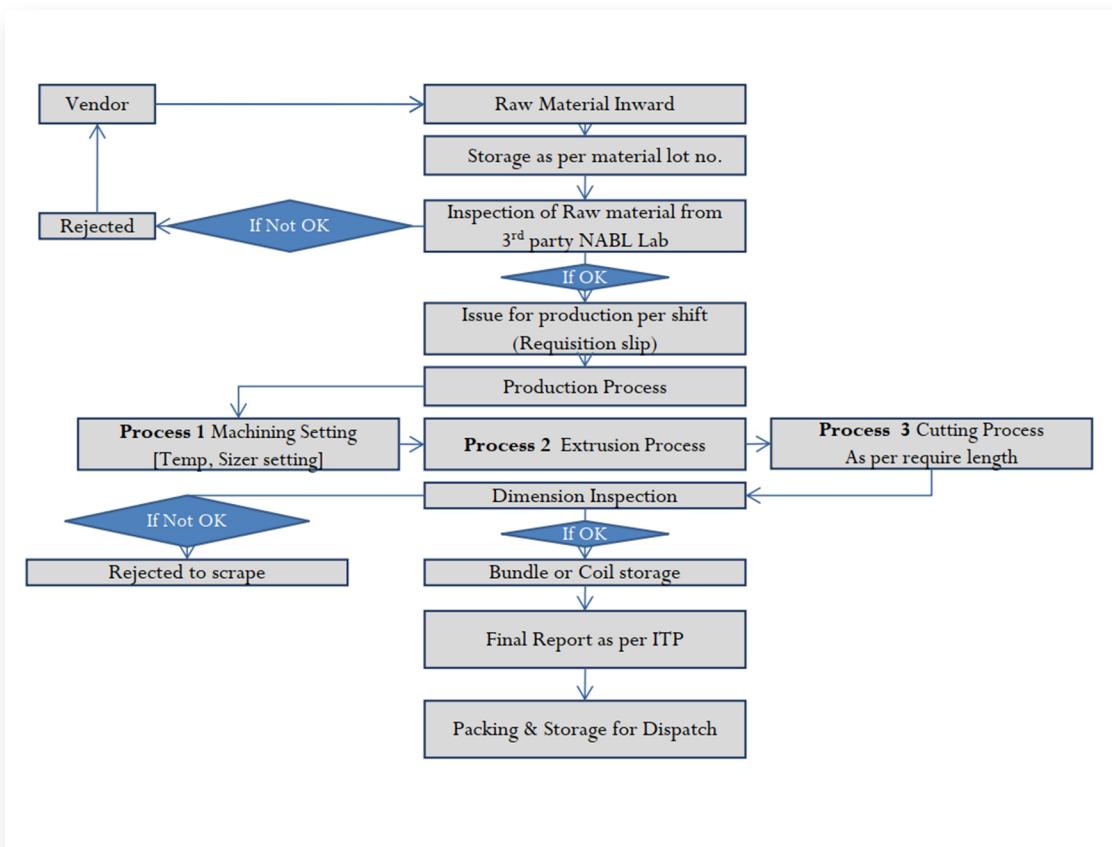
UNIT : THANE | TALOJA | KOLHAPUR

08-04-2024

UNIT : THANE | TALOJA | KOLHAPUR

08-04-2024

HDPE Production Process Chart



Production of SWC HDPE Pipe



We have 3 HDPE Production Machines to keep up with the increasing demand and complete production in time. approx. 1,50,000 RMT production per month.

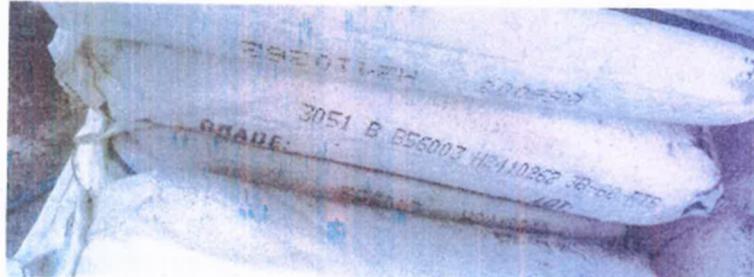
HDPE raw material NABL reports

M/s. SCON INFRA PRESTRESS LLP

FACTORY INSPECTION

DATE : 21.03.2024

Sr. No.	Product	Primary Manufacturer	Lot No.	Mill test certificate (Supplier)	Invoice / Challan of Supplier	Inhouse Inspection report	Third party test report	Final product inspection report	Product Identification
1	HDPE Raw Material	Reliance	H2410262	DCPI No. 625039625	P.O. 569	Attached	Sampling	attached	SCON



सिपेट : (सी एस टी एस) औरंगाबाद.
CIPET : (CSTS) Aurangabad

सिपेट CIPET

CONTINUATION SHEET



Issued to:

SCON INFRA PRESTRESS LLP
H. No. 2991 Babosa Industrial Complex,
Saravali Village, Nashik Highway,
Taluka Bhiwandi Dist- Thane - 421302.

Test Report No : 30451
Date : 27.03.2024
Your Ref : Letter
Date : 06.03.2024

Page No. 2 of 2

PART-C Test Results				
SL. No.	Name of the test	Test Method	Unit	Test value obtained
1.	Carbon Black Content	IS 2530	%	2.49
PART-D Remarks: Nil				
NOTE : 01. This Test Report is issued only for the samples submitted to CIPET. 02. The results stated above related only to the items tested. 03. The quality of the subsequent production lot has to be ensured by the purchaser. 04. The report full or part shall not be reproduced, published, advertised and used for any legal action without written approval from the laboratory. 05. Tested sample will be disposed-off after 90 days from the date of test. 06. Details of tests subcontracted: Nil 07. Results apply for the sample as received.				

Authorized Signatory
Kiran Kumar V. Koli
Technical Officer

Authorized Signatory
Dr. Piyush Kumar
Technical Officer



सिपेट : (सी एस टी एस) औरंगाबाद.
CIPET : (CSTS) Aurangabad

CONTINUATION SHEET



Issued to:

SCON INFRA PRESTRESS LLP
H. No. 2991 Babosa Industrial Complex,
Saravali Village, Nashik Highway,
Taluka Bhiwandi, Dist- Thane - 421302.

Test Report No : 30713 (Revised)
Date : 20.06.2024
Your Ref : Letter
Date : 06.03.2024 / 15.05.2024.

Page No. 2 of 2

PART-C Test Results					
SL. No.	Name of the test Clause No. (if any)	Test Method	Unit	Results Obtained	Specified Requirements
1.	Density @ 23° C	IS 2530	g/cc	0.945	--
2.	Tensile Strength @ Yield Elongation @ Yield	ISO 527-3	MPa %	23.6 27.4	--
3.	Shore - D Hardness	ISO 2039-1	--	71	--
4.	Melt Flow Index @ 190° C / 5.0 kg	IS 2530	g/10min.	1.35	--
5.	Charpy Impact Strength (Notched)	ISO 179	kJ/m ²	81.7	--

Remarks: The test report is revised due to sl.no.1 Density test and sl. no. 5 Charpy Impact test are retested due to temperature & unit changed as party email on dated 15.05.2024.

NOTE : 01. This Test Report is issued only for the samples submitted to CIPET.
02. The results stated above related only to the items tested.
03. The quality of the subsequent production lot has to be ensured by the purchaser.
04. The report full or part shall not be reproduced, published, advertised and used for any legal action without written approval from the laboratory.
05. Tested sample will be disposed-off after 90 days from the date of test.
06. Details of tests subcontracted: Nil
07. Results apply for the sample as received.

Authorized Signatory
Kiran Kumar V. Koli
Technical Officer



Authorized Signatory
Dr. Piyush Kumar
Technical Officer

IN-HOUSE TEST

All testing is conducted under the supervision of qualified QA/QC engineers, adhering to national and international standards to ensure consistent performance and safety in the field.

RAW MATERIAL TEST FACILITY



MFI Met Flow Index Tester



Densitometer



Superficial Hardness Tester



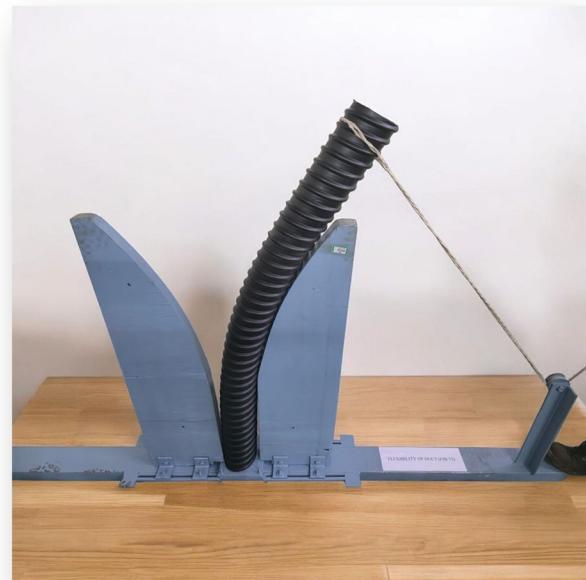
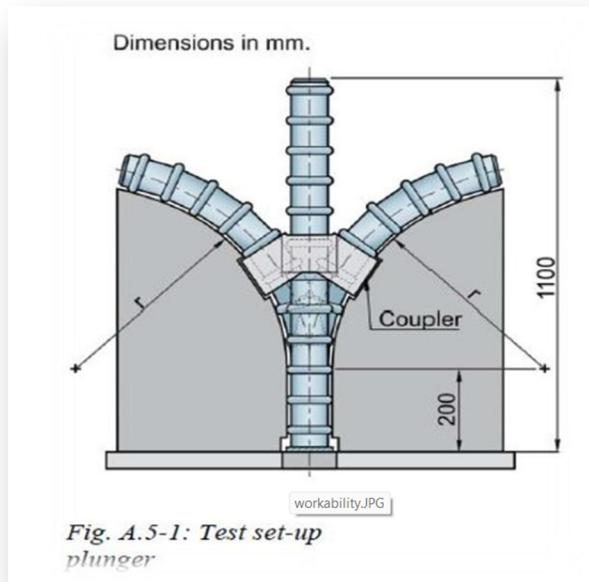
Contracer (For internal and external dimensions check - Wedges)

In-house Testing Equipments

SWC HDPE Pipe In-House test for Acceptance

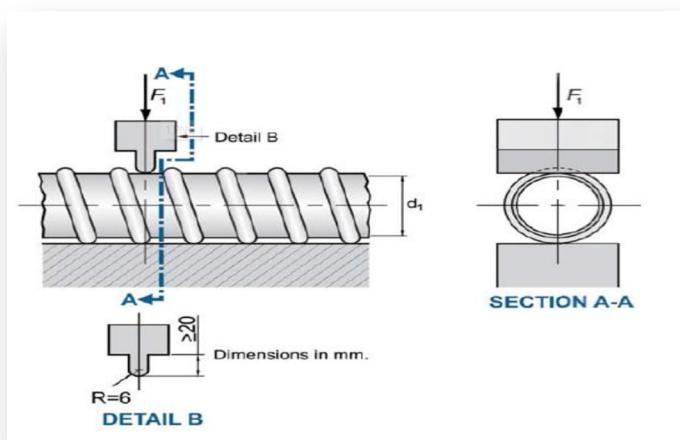
Flexibility of duct system- IRC 112 : 2020 - FIB-Bulletin 75

To Confirm duct and duct connectors do not collapse in on themselves when bent to a radius of curvature that will be used during site.



Lateral Load Resistance of Duct-IRC 112 : 2020 FIB-Bulletin 75

To Confirm duct is strong enough to resist damage due to curvature and load of concrete at the support.



In-house Testing Equipments

Longitudinal Load Resistance of Duct-IRC 112 : 2020 FIB-Bulletin 75

To Confirm duct has adequate longitudinal load resistance to maintained continues prior to concrete placement.

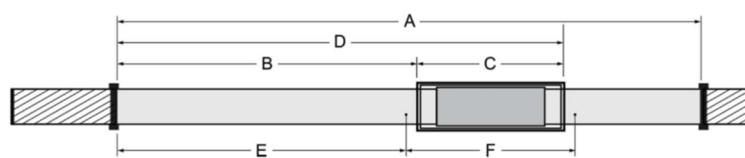
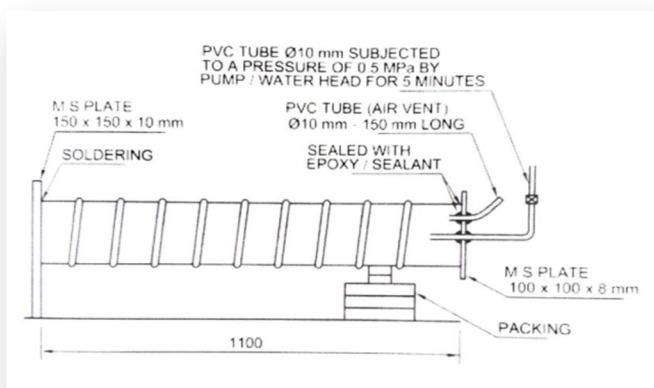


Fig. A.3-1: Test specimen for longitudinal load test



Leak tightness of Duct system-IRC 112 : 2020 FIB-Bulletin 75

To Confirm duct system maintain mortar/leak tightness when exposed to project conditions.



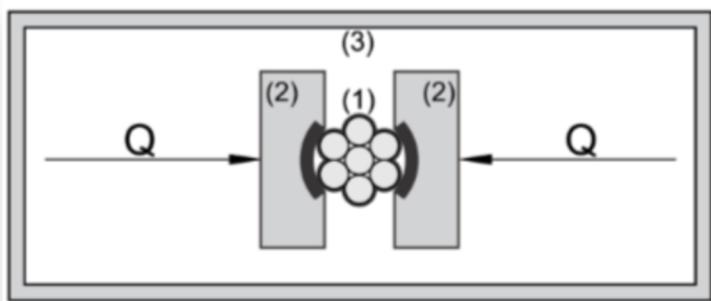
POSITIVE PRESSURE

NEGATIVE PRESSURE

In-house Testing Equipments

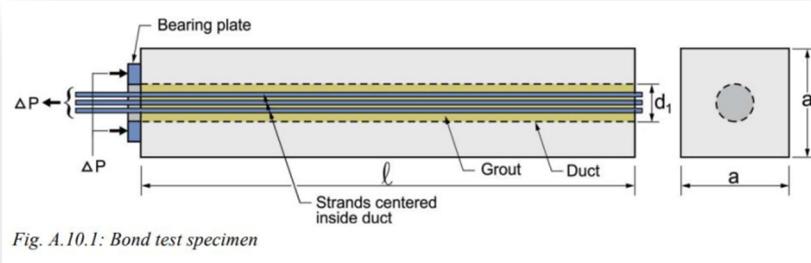
Wear Resistance –IRC 112 : 2020 - FIB-Bulletin 75

To Confirm that the minimum residual wall thickness can be maintained during stressing at given maximum clamping force.



Bond Behaviour of Duct–IRC 112 : 2020 - FIB-Bulletin 75

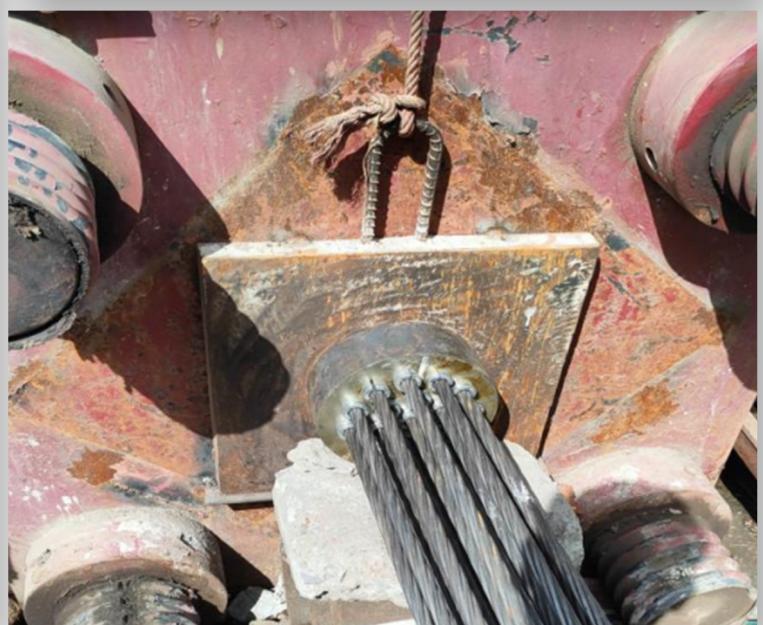
To confirm the ability of duct to transfer a load of 40% of the ultimate tensile force of tendon over a duct length of not more than 16 duct diameter.



Type Test for Anchorage system

Anchorage efficiency - (IS 1343 : 2012 – Annex C – C -1)

1. Test Performed on Test Bed (Static load test).
2. Load till 80% and wait for 1 hour and then slowly till 100% load of cable.
3. Anchorage efficiency $\leq 0.95\%$ with more than 2% elongation including wedges slip.



POST TENSIONING WORK

(Post Tensioning & External Prestressing work)

CONTRACTOR	YEAR	PROJECT NAME	CLIENT/CONTRACTOR
NCC-SMC (SATIS) JV	2020-2024	Flyover multimodel transit hub, Thane Railway st.	TSC, Shrikhande Consultant
SMC INFRA PROJECT PVT. LTD.	2023-Present	Thane Mental Hospital	Oriental Consultant
JHANDU CONSTRUCTION	2024-Present	SECTION NH-30, Jabalpur Ring Road	HEC
NA CONSTRUCTION	2019-2020	SECTION NH-48, Malad Link Road	NHAI
BANSAL CONSTRUCTION PVT. LTD.	2024-2025	SECTION NH-46, Barkheda-Ratapani	NHAI
RAJ CONSTRUCTION	2023	Samruddhi Mahamarg, Shirdi	NHAI
SAURABH SINGH VERMA	2024-Present	CTP-11 Package	DFCCIL
GPT INFRA PROJECT PVT. LTD.	2023-2025	ROB Cable Stay, Byculla Railway Station	MRIDC



HEAD OFFICE :

111-113, 115 R Piazza,
Swastik Regalia Tower, Kavesar,
Waghbil Road, Off Ghodbunder
Road, Thane (W) - 400607



MUMBAI :

Plot No. 76, Babosa Industrial Park,
Saravali Village, Nashik Highway,
Bhiwandi, Thane, Maha - 421311
✉ factory@sconinfra.com

MANUFACTURING UNIT

DELHI :

Plot No. 3, G/F, KH No. 451A,
Matiala Village, Uttam Nagar,
New Delhi , Delhi- 110 059
✉ delhi@sconinfra.com