



TECHNICAL SUBMISSION

FOR PRESTRESSING ANCHORAGE SYSTEM

WWW.SCONINFRA.COM
INFO@SCONINFRA.COM

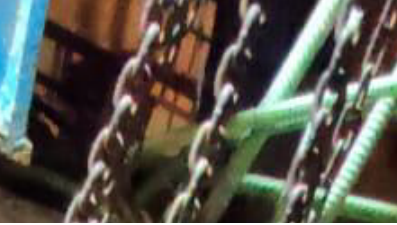


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COMPANY PROFILE

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



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



FACTORY

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



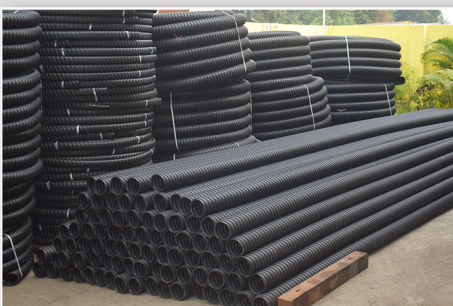
SCION

FACTORY UNIT

SCION'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.



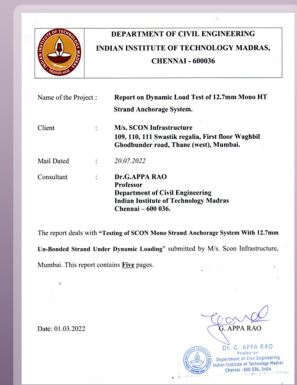
SCON

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

JSW Steel

TATA STEEL

WE SOURCE BASIC STRAND FROM RENOWNED SUPPLIERS

CARRIED OUT AS PER PTI :
ACCEPTANCE STANDARDS
FOR
POST TENSIONING SYSTEM

pti

POST-TENSIONING INSTITUTE
Strength in Concrete

aci

American Concrete Institute

Always advancing

ACI 423.7-14
ASTM A 416

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
UDYAM REGISTRATION NUMBER: UDYAM/INDIA/MSME/000011
NAME OF ENTERPRISE: SCON INFRA PRESTRESS LLP
TYPE OF ENTERPRISE: Manufacturing
NAMES ACTIVITY: MANUFACTURING
NAMES OF CHAIRMAN OF ENTERPRISE: SCON INFRA PRESTRESS LLP
NAMES OF MEMBERS: SCON INFRA PRESTRESS LLP
OFFICE ADDRESS OF ENTERPRISE: SCON INFRA PRESTRESS LLP
DATE OF COMMENCEMENT OF BUSINESS: 20/03/2020
NAMES OF CHAIRMAN OF ENTERPRISE: SCON INFRA PRESTRESS LLP
NAMES OF MEMBERS: SCON INFRA PRESTRESS LLP
BE A CHAMPION with the Ministry of MSME

UDYAM - Company Registration



Factory License
SCON INFRA PRESTRESS LLP
H.NO. 200, KANAKA INDUSTRIAL COMPLEX, KANAKA INDUSTRIAL ZONE, BHIMNATH, THANE, MAHARASHTRA 401302
Date: 23/03/2020 6:30:13 PM

Factory License



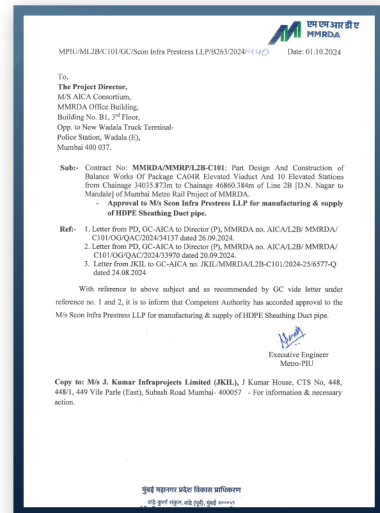
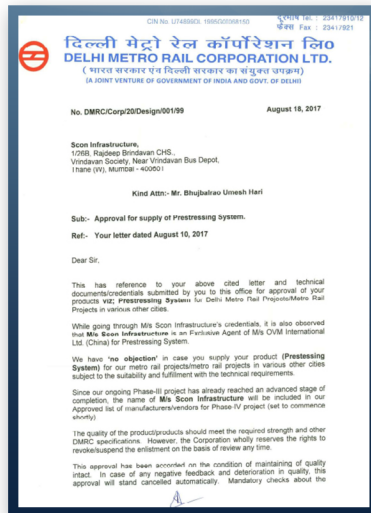
SCON INFRA PRESTRESS LLP's STATE-OF-THE-ART

- ▶ **FACTORY** is easily accessible from various parts of the State giving us better transportation opportunities leading to Timely Delivery of Materials.
- ▶ In-house production at our factory ensures superior quality material production along with on time production & delivery without relying on 3rd party vendors.
- ▶ Everything is precisely controlled right from Raw Material procurement to Dimension Control due to In-house Production thus eliminating the chances of inferior quality material & delayed material delivery.
- ▶ **SCON manufactures:**
 - ▲ ANCHOR CONE
 - ▲ ANCHOR HEAD
 - ▲ WEDGES
 - ▲ HDPE PIPES
 - ▲ BRIDGE BEARINGS
 - ▲ BRIDGE EXPANSION JOINTS

FACTORY CAPACITY APPROX.

Live Wedges	:	2 Lakhs per month
Anchor Cone	:	50 Tonnes per month
Anchor Head	:	50 Tonnes per month
HDPE Sheathing Duct	:	1.5 Lakh RMT per Month

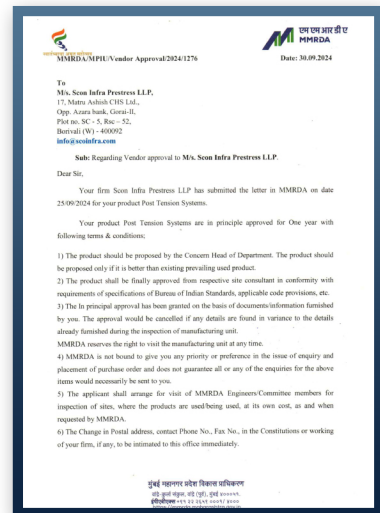
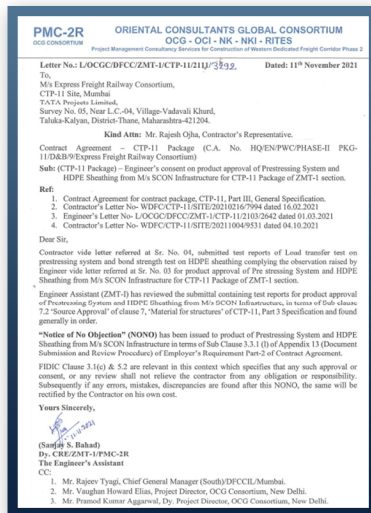
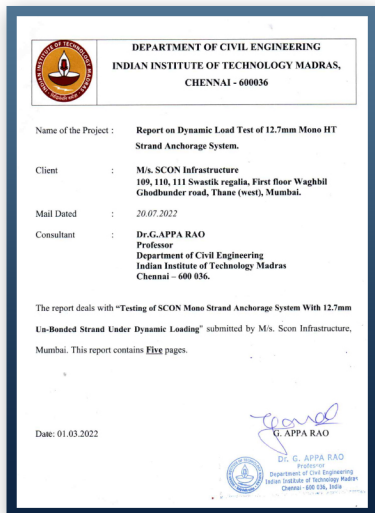
CERTIFICATES & APPROVALS



ISO CERTIFICATE

DMRC APPROVAL

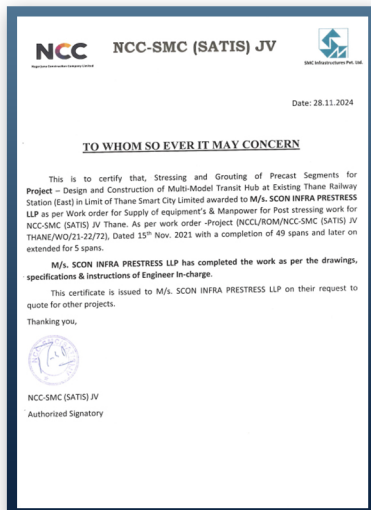
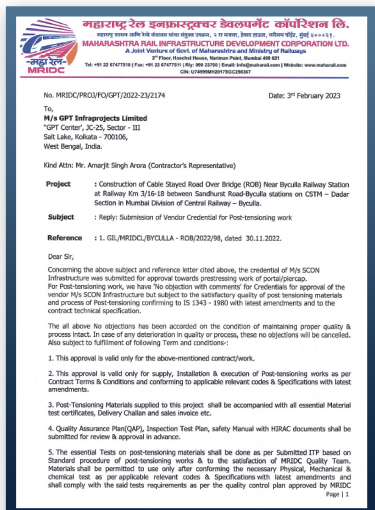
MMRDA APPROVAL



IIT MADRAS CERTIFICATION FOR ANCHOR SYSTEM APPROVAL

DFCCIL APPROVAL

MMRDA APPROVAL FOR POST TENSIONING SYSTEM



MRIDC 2174 - VENDOR CREDENTIAL APPROVAL

NCC WORK COMPLETION CERTIFICATE

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 Commercial

Mr. Naresh Bassi

Vice Presidents Technical

Mr. Deepak Thombre

Factory incharge

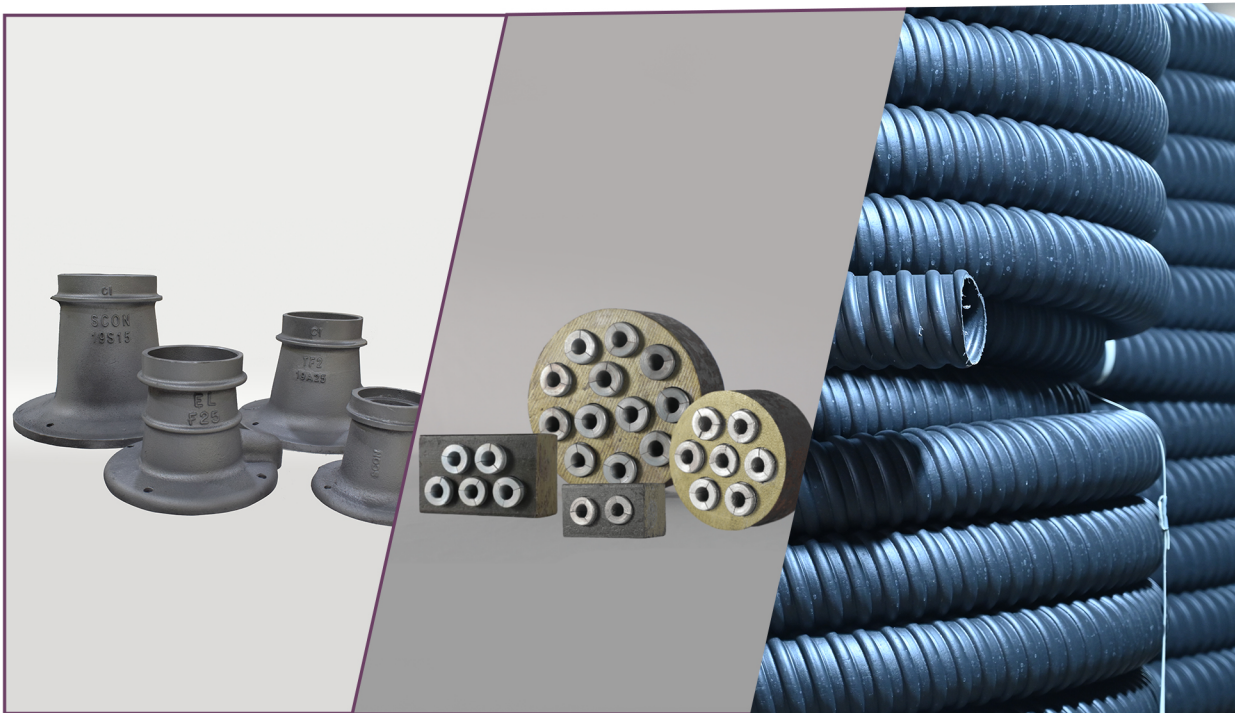
Mr. Sachin Yadav

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	ACCEPATBLE VALUE	TESTING FREQUENCY	DEFINATION 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/mm2 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	100% lot using gauge & 1% reported	Batch of Production	Dimension Report	
3.	ANCHOR CONE	Material Grade :	FG260					
	Raw Material	Mechanical	UTS	260 N/mm2 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	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				
4.	HDPE PIPE	MATERIAL GRADE :	PE (COMPOUND)					
	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 0.96gm./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: 04.04.2024

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
3	Anchor Cone	Trimurti Engg. tools pvt. Ltd.	Grade FG-260 Size 19S15 12S15	Heat no. Report no.	PO. no. TM/24-25/6 Date 07.04.2024	Dimension report	ID no. Lab Ref. No.	Dimension Report 3rd party	SCON

Sohm Analytical Services (I) Pvt Ltd.
Accredited by NABL, vide Certificate Number TC-11690

TEST REPORT

M/s SCON INFRA PRESTRESS LLP
Plot No. 76, Babasaheb Industrial Park, Saravali Village,
Nashik Highway, Bhamburda - 422111
Ref. No.:
Challan Dated: 11-04-2024
Description: Testing of Anchor Cone Test Bar Sample

Lab Ref. No.: RC854
Sample Received on: 11-04-2024
Report Completed on: 15-04-2024
Stamped By:
Specification: IS 210-2009 Gr. FG 260

Discipline: Chemical Group: Metals & Alloy
CHEMICAL ANALYSIS BY SPECTRO Test Method: ASTM E 1399-2018

Elements	Result
% Carbon	0.54
% Silicon	1.81
% Manganese	0.80
% Phosphorus	0.042
% Sulphur	0.025
% Chromium	0.20
% Nickel	0.025
% Molybdenum	0.012
% Copper	0.42

Remarks:
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 Infra Project Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC) of AKAC on 15-Apr-2024

UNIT : THANE | TALJUA | KOLHAPUR

Sohm Analytical Services (I) Pvt Ltd.
Accredited by NABL, vide Certificate Number TC-11690

TEST REPORT

M/s SCON INFRA PRESTRESS LLP
Plot No. 76, Babasaheb Industrial Park, Saravali Village,
Nashik Highway, Bhamburda - 422111
Ref. No.:
Challan Dated: 11-04-2024
Description: Testing of Anchor Cone Test Bar Sample

Lab Ref. No.: RC854
Sample Received on: 11-04-2024
Report Completed on: 15-04-2024
Stamped By:
Specification: IS 210-2009 Gr. FG 260

Discipline: Mechanical Group: Mechanical Properties of Metals
Tensile Test Test Method: IS 1620 Part 12-2012
Spec. to be tested: IS 1620 Part 12-2012
Spec. to be tested: IS 1620 Part 12-2012

Parameter	Result	Required Value
Gauge Dia. (mm)	20.08	
Area (mm ²)	315.10	
Ultimate Load (kN)	89.85	260.00 min.
U.T.S. N/mm ²	285.1	
Fracture	WFL	
Remarks	Satisfactory	

Discipline: Mechanical Group: Mechanical Properties of Metals
Hardness Test Test Method: IS 1500 PART 1-2019
Spec. to be tested: IS 1500 PART 1-2019
Spec. to be tested: IS 1500 PART 1-2019

Parameter	Result	Required Value
Location	Surface	
Hardness	2.5 mm dia ball / 187.5 Kgf Load	
Hardness in HBW	224.219.219	180-230
Remarks	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 Infra Project Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC) of AKAC on 15-Apr-2024

UNIT : THANE | TALJUA | KOLHAPUR

Sohm Analytical Services (I) Pvt Ltd.
Accredited by NABL, vide Certificate Number TC-11690

TEST REPORT

M/s SCON INFRA PRESTRESS LLP
Plot No. 76, Babasaheb Industrial Park, Saravali Village,
Nashik Highway, Bhamburda - 422111
Ref. No.:
Challan Dated: 11-04-2024
Description: Testing of Anchor Cone Test Bar Sample

Lab Ref. No.: RC854
Sample Received on: 11-04-2024
Report Completed on: 15-04-2024
Stamped By:
Specification: IS 210-2009 Gr. FG 260

Discipline: Mechanical Group: Metallography Tests
Micro examination Test Method: ASTM Volume 9-2004

Parameter	Result	Required Value
Etching Condition	Unetched Condition	
Etchant	Nital	
Magnification	100X	
Location	Cross-section	
Graphite Type	Type M1 Graphite	
Distribution	A Graphite	
Class	Class 3	
Observation	The microstructure revealed pearlite & flakes in ferrite matrix.	

Photo include: Yes
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 Infra Project Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC) of AKAC on 15-Apr-2024

FOR SOHM ANALYTICAL SERVICES (I) Pvt Ltd.

Authorized Signatory: O.P. SINGH, HOD, Chemical
Authorized Signatory: Vinay Varadkar, Tech. Manager
Checked by:


UNIT : THANE | TALJUA | KOLHAPUR

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Accredited by NABL, vide Certificate Number TC-11690

TEST CERTIFICATE

Supplement Report for LRN - RC854

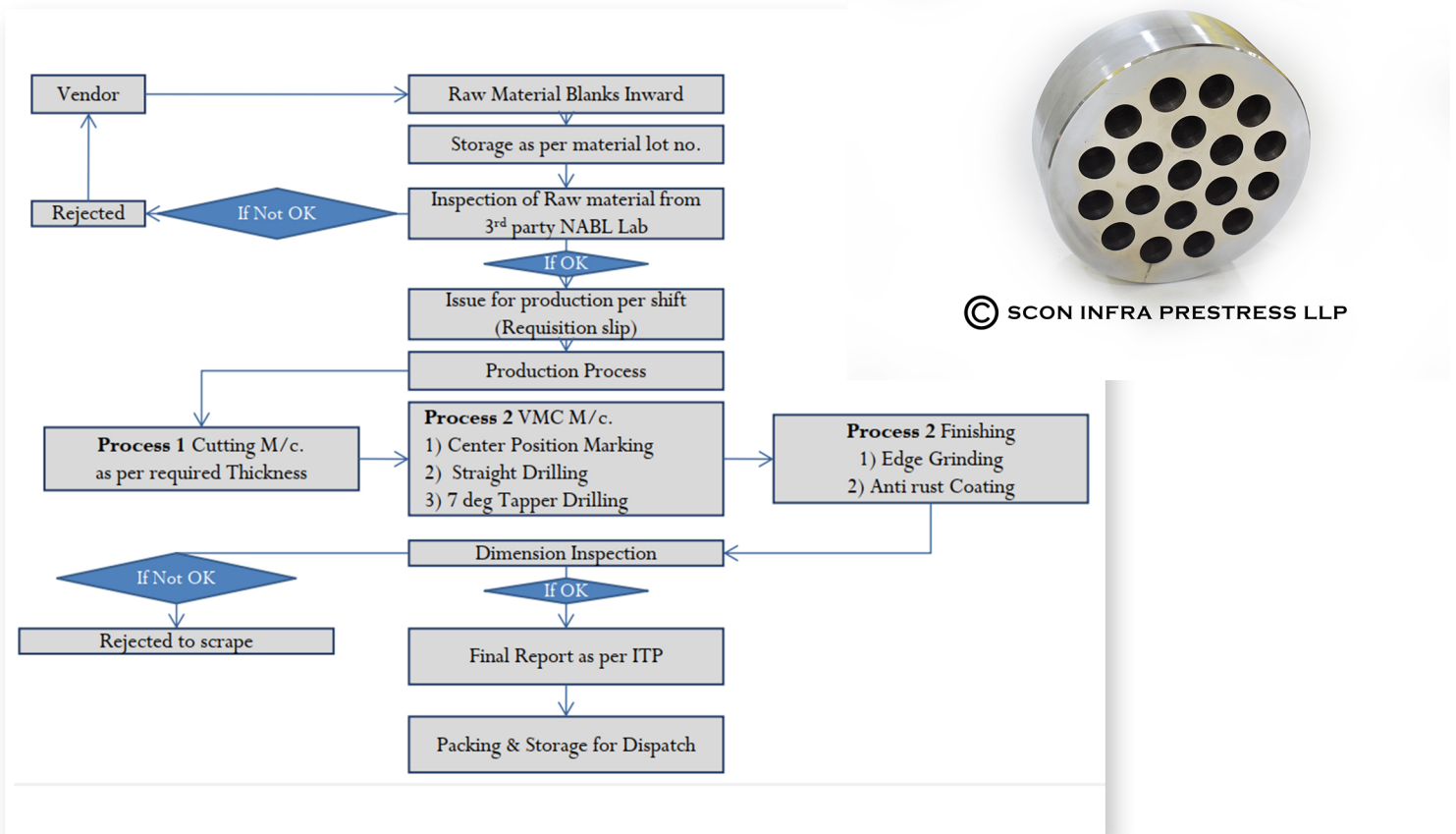
Micro Photograph At 100X Magnification - Unetched Condition



Authorized by:

UNIT : THANE | TALJUA | KOLHAPUR

Anchor Head Production Process Chart






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 BEARING PLATES 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 $\phi 160$ 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 $\phi 200$ 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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Accredited by NABL vide Certificate Number TC-11690



TEST REPORT

M/s SCON INFRA PRESTRESS LLP
Plot No. 76, Babasa Industrial Park, Saravali Village,
Nashik Highway, Bhiwandi - 421311
Ref. No.: SC-07-2411
Challan Dated: 27-03-2024



U/LR-TC116902400007992F
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
Egpt. Sr. No. 33006396

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 Infra Project Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC (K3) AICA/GC on 04-Apr-2024

Continue... Page 1 of 2

Plot No. RTC 41, Sohm House, B/H Fire Brigade, Rabale MIDC, Navi Mumbai - 400 701.
www.sohmanalytical.com | rabale.support@sohmanalytical.com | Tel: 8657059311 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 Certificates.
- 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

Pg. 8
Form No : SASQ/INT/7.8




Sohm Analytical
Sohm Analytical Services (I) Pvt Ltd.
Accredited by NABL vide Certificate Number TC-11690



TEST REPORT

M/s SCON INFRA PRESTRESS LLP
Plot No. 76, Babasa Industrial Park, Saravali Village,
Nashik Highway, Bhiwandi - 421311
Ref. No.: SC-07-2411
Challan Dated: 27-03-2024

U/LR-TC116902400007992F
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 6893-1:2019
Egpt. Sr. No. 33006396 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	WOL	

Discipline: Mechanical **Group:** Mechanical Properties of Metals
Hardness Test Test Method: ISO 6506-1:2004
Egpt. Sr. No. 33006396 Calibration Date: 28-06-2023 Due On: 27-06-2024

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 Infra Project Pvt Ltd & Mr. Asif Valsangkar (Sr. QA/QC (K3) AICA/GC on 04-Apr-2024



End of Report

FOR SOHM ANALYTICAL SERVICES (I) Pvt. Ltd.

Checked by


Authorized Signatory
P. SINGH
MOD. Chemical

Authorized Signatory
Vinay Varadkar
Tech. Manager

Page 2 of 2

Plot No. RTC 41, Sohm House, B/H Fire Brigade, Rabale MIDC, Navi Mumbai - 400 701.
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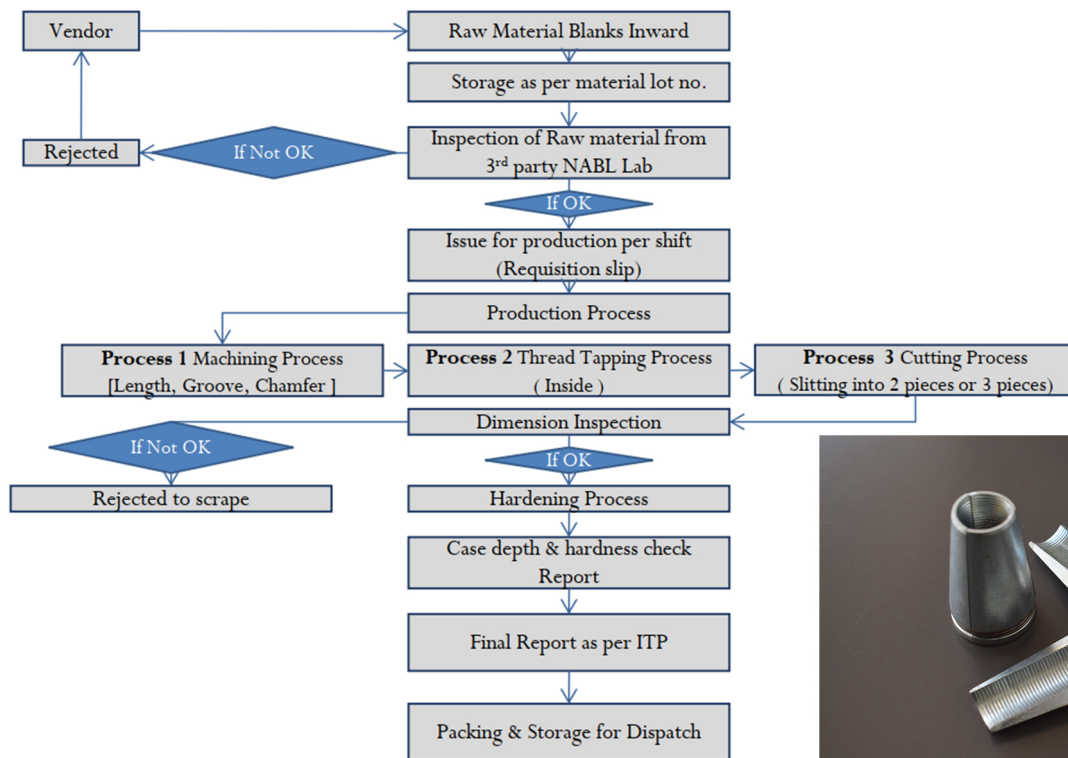
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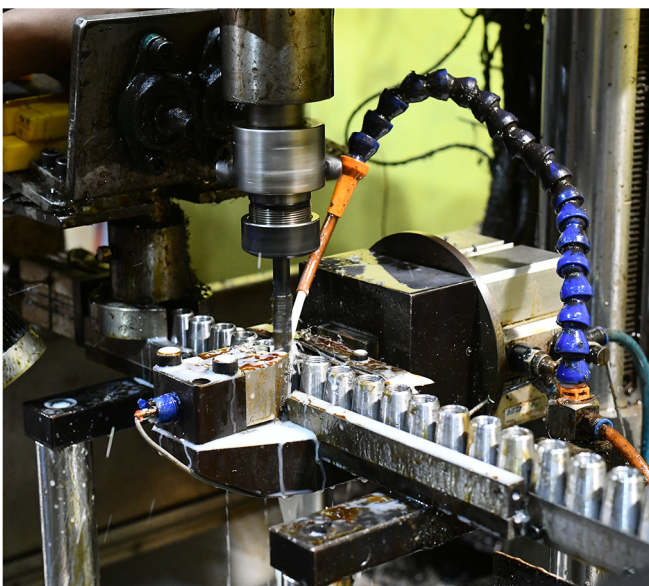
UNIT : THANE | TALOJA | KOLHAPUR

Pg. 9
Form No : SASQ/INT/7.8

Wedges Production Process Chart



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 Surmeco Trade Co., Ltd. Hexan jivian Fronasteel co. ltd.	20CrMnTi	Attached	24 BVP/2023-24/PO-12	Dimension Report	Lab no.:	In house report Third party report	BB15



Sohm Analytical
Sohm Analytical Services (I) Pvt Ltd.
Accredited by NABL vide Certificate Number TC-11690

TEST REPORT

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

ULR-TC116902400007995F
Lab Ref. No.: RC7817
Sample Received on: 28-03-2024
Report Completed on: 04-04-2024
Stamped By:
Specification: GB3077 Gr. 20CrMnTi

Size	ID No / Heat No	Q12309604
Discipline : Chemical	Group : Metals & Alloys	
CHEMICAL ANALYSIS BY SPECTRO	Test Method : ASTM E 415 - 2021	
Elements	Result	Required Value [20CrMnTi] (GB/T 3077)
% Carbon	0.19	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	1.15	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 6508-2:2018

Test. Sr. No. 06/2023-4804 Calibration Date: 12-06-2023 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

Page 1 of 1



PS-14

Format No : SASQ/INT/7.8

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UNIT : THANE | TALAJA | KOLHAPUR



Sohm Analytical
Sohm Analytical Services (I) Pvt Ltd.
Accredited by NABL vide Certificate Number TC-11690

TEST REPORT

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

ULR-TC116902400007995F
Lab Ref. No.: RC7818
Sample Received on: 28-03-2024
Report Completed on: 04-04-2024
Stamped By:
Specification: GB3077 Gr. 20CrMnTi

Size	ID No / Heat No	Q12309604
Discipline : Chemical	Group : Metals & Alloys	
CHEMICAL ANALYSIS BY SPECTRO	Test Method : ASTM E 415 - 2021	
Elements	Result	Required Value [20CrMnTi] (GB/T 3077)
% Carbon	0.22	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 6508-2:2018

Test. Sr. No. 06/2023-4804 Calibration Date: 12-06-2023 Due On: 11-06-2024

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

Remark

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



Plot No. RTC 41, Sohm House, B/N Fire Brigade, Rabale MIDC, Navi Mumbai - 400 701.
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UNIT : THANE | TALAJA | KOLHAPUR

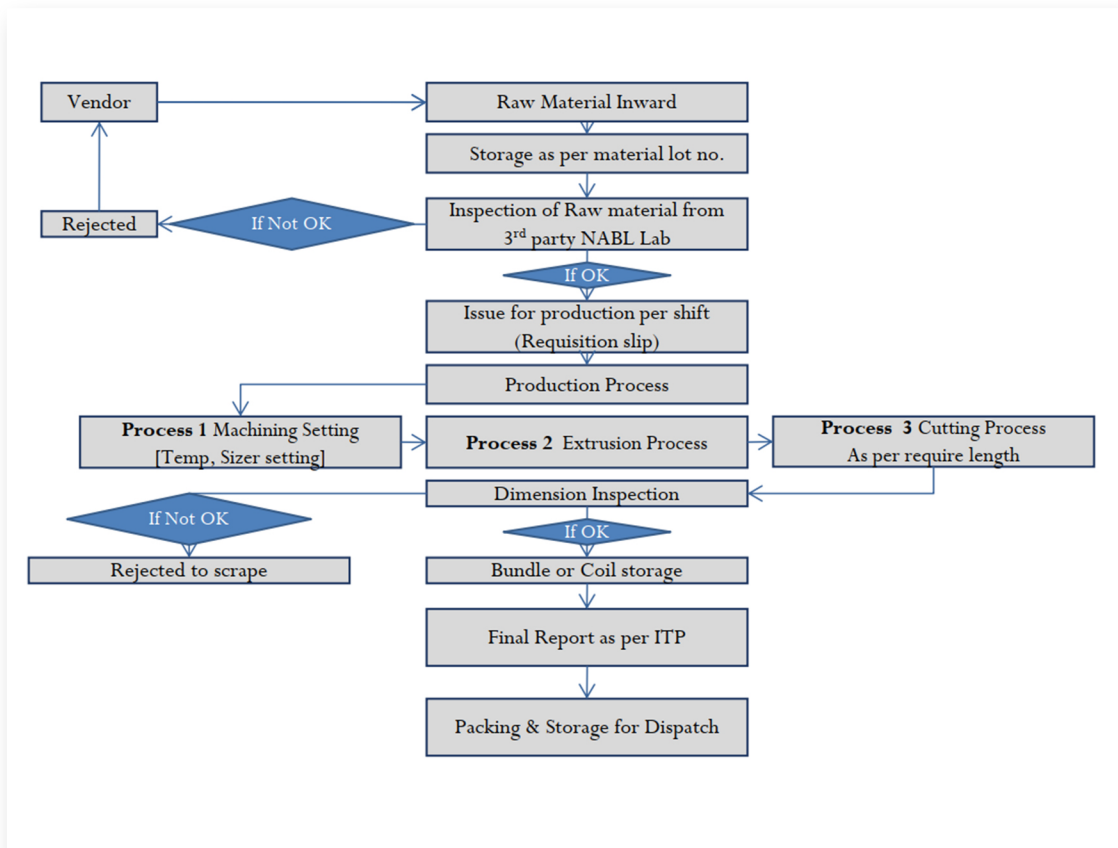
Continue...Page 1 of 2



PS-15

Format No : SASQ/INT/7.8

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



PP 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 : 30451
Date : 27.03.2024
Your Ref : Letter
Date : 06.03.2024

ULR No - TC822724000000302F

Page No. 2 of 2

Sl. No.	Name of the test	Test Method	Unit	Test value obtained	Specified Requirement
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

PP 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

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/m²	61.7	--

PART-D
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 :

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- 02 The results stated above related only to the items tested.
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- 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.

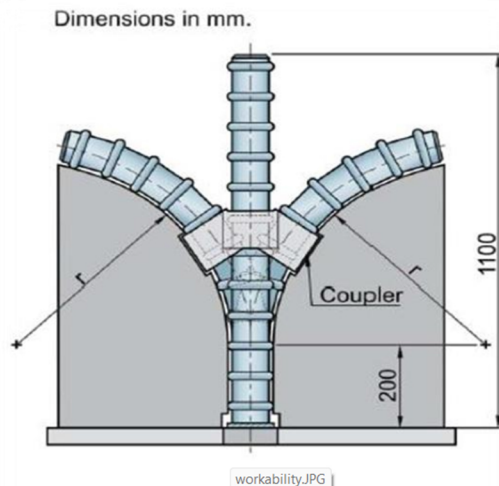
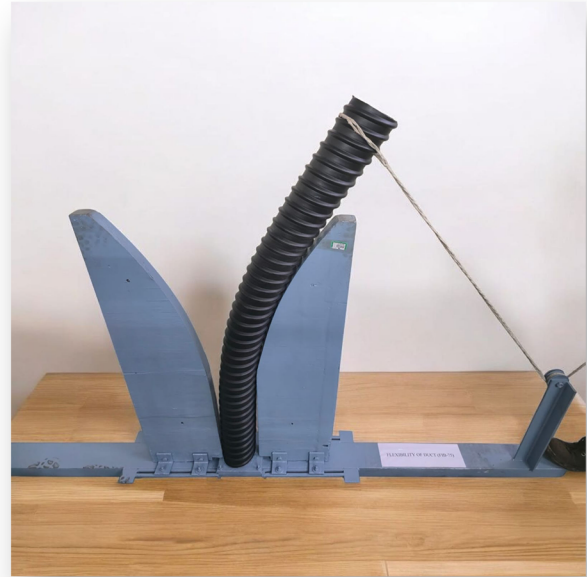
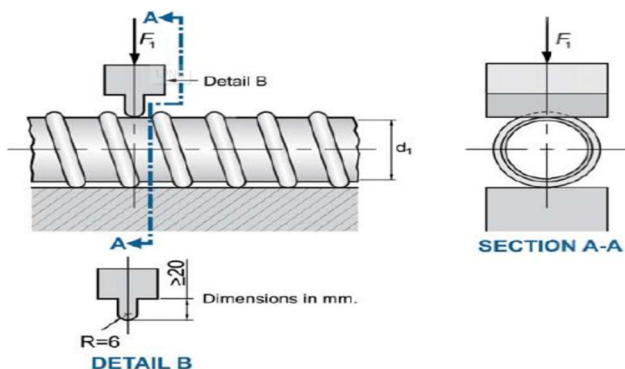


Fig. A.5-1: Test set-up
plunger



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.

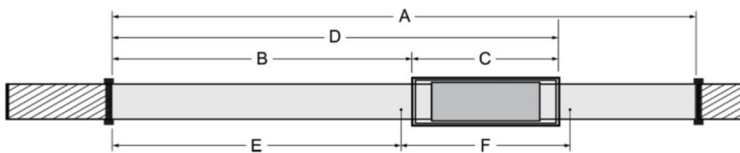
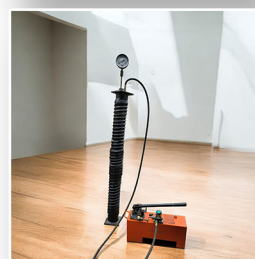
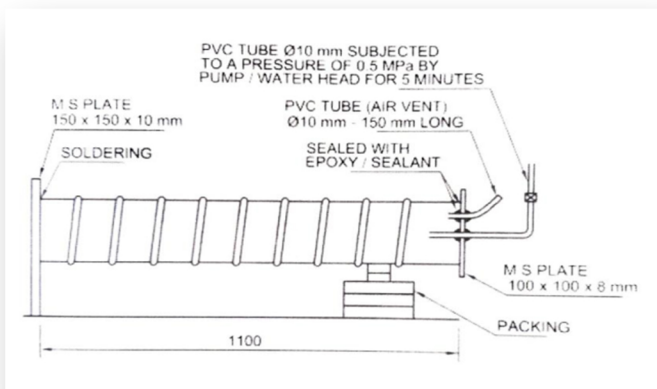


Fig. A.3-1: Test specimen for longitudinal load test



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

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



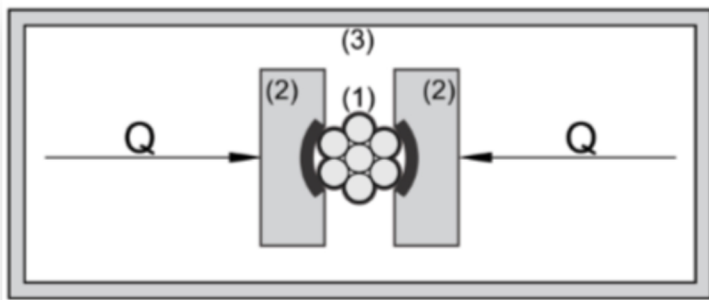
POSITIVE PRESSURE

NEGATIVE PRESSURE

In-house Testing Equipments

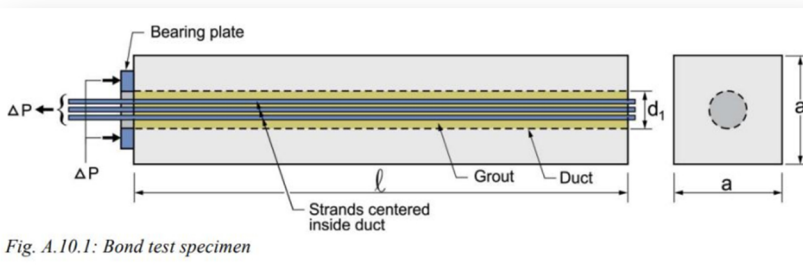
Wear Resistance –IRC 112 : 2020 - FIB-Bulletin 75

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



SCON

INFRA PRESTRESS LLP

VALUE DRIVEN EXCELLENCE



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Waghbil Road, Off Ghodbunder
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MUMBAI :

Plot No. 76, Babosa Industrial Park,
Saravali Village, Nashik Highway,
Bhiwandi, Thane, Maha - 421311

✉ factory@sconinfra.com

MANUFACTURING UNIT

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New Delhi , Delhi- 110 059

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