



ARC INSULATION AND INSULATORS PVT LTD.  
VILL-RAMDEVPUR, P.O.-BAWALI, DIST-SOUTH 24 PARGANAS, PIN-743384, W.B.

JOINT INSPECTION REPORT

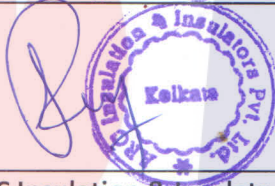
ISSUED TO: COASTAL MARINE CONSTRUCTION AND ENGINEERING LTD DATE OF ISSUE: 24.08.2022

COMPONENT/ PRODUCT: PUDDLE ASSEMBLY LINING

P.O No: CM-02/19.05.07/793/PM/145/21-22/1744 REV 1

S.NO.	DESCRIPTION	SPECIFIED			OBSERVED		REMARKS
		MS	FRP LINING	TOTAL	PUDDLE 1	PUDDLE 2	
1	PIPE LENGTH 1	2020	-	2020	2021	2022	Satisfactory
2	REDUCER LENGTH	750	-	750	750	751	Satisfactory
3	PIPE LENGTH 2	645	-	645	646	646	Satisfactory
4	PIPE OD 1	2037	8	2045	2047	2046	Satisfactory
5	PIPE OD 2	1888	8	1896	1898	1897	Satisfactory
6	PIPE ID 1	2021	8	2013	2011	2012	Satisfactory
7	PIPE ID 2	1888	8	1880	1879	1880	Satisfactory
8	FLANGE THICKNESS 1	110	8	118	120	121	Satisfactory
9	FLANGE OD 1	2425	8	2433	2435	2434	Satisfactory
10	FLANGE PCD 1	2330	-	2330	2330	2330	Satisfactory
11	FLANGE HOLE DIA	36	4	32	32	32	Satisfactory
12	NO OF HOLE	40	-	40	40	40	Satisfactory
13	FLANGE THICKNESS 2	112	8	120	121	120	Satisfactory
14	FLANGE OD 2	2425	8	2433	2434	2435	Satisfactory
15	FLANGE PCD 2	2330	-	2330	2330	2330	Satisfactory
16	FLANGE HOLE DIA	36	4	32	32	32	Satisfactory
17	NO OF HOLE	40	-	40	40	40	Satisfactory

Remarks (If any): All the above parameter confirms the product quality & Tested found OK.



*(Signature)*  
SOVAGN CHAKRABORTY 24.08.2022

For, ARC Insulation & Insulators Pvt. Ltd.

For, DNV



# CREST SPECIALITY RESINS PRIVATE LIMITED

(formerly Known as Crest Composites and Plastics Private Limited)

Corporate Office :  
808, Abhishree Adroit, Near Mansi Circle, Judges Bungalow Road,  
Vastrapur, Ahmedabad - 380 054.  
T. : +91-79- 40030991 M. : +91-7573002339

Registered Office & Works :  
Survey No. : 609,  
Village : Shetra,  
Tal. & Dist. Kheda - 387 560.  
Gujarat (India)  
Tel. : +91-9909944547  
CIN NO. : U25209GJ1989PTC012778.

19

REF.NO.:89/6

## TEST REPORT

GRADE : C'POL - 701/A [ VINYL ESTER RESIN ]

B.NO.: 8031

D.O.M.: 17.06.2022

EXPIRY DATE: 17.12.2022

INV. NO. :	1126	CUSTOMER NAME :	ARC INSULATIONS AND INSULATORS
DATE :	30.06.22	ORDER NO. :	VERBAL BY MAIL DT 26-05-2022
QTY. :	4995 KGS		
SR. No.	PROPERTY	OBSERVATION	SPECIFICATION
1	Appearance / Colour	VISCOUS LIQUID	VISCOUS LIQUID
2	Viscosity @ 25° C (cps) <small>(B.F. RV-Viscometer, Spindle No.2, RPM-50)</small>	340	350 ± 50
3	Specific Gravity @ 25° C	1.05	1.04 ± 0.01
4	Volatile Content (%)	42.14	45 ± 03
5	Gel time @ 25°C (min) <small>*(100gms Resin with 0.2ml Acc.A, 0.3ml Pro. P &amp; 1.2 ml Cat.C)</small>	12	-
	Peak Exotherm (°C)	176	-
	Time to Peak Exotherm (min)	25	-
	Remarks	O.K.	

\* Pro.P - PROMOTER - 10 % Solution of DMA.

Acc.A - ACCELERATOR - 3 % Cobalt solution of Cobalt Octoate.

Cat.C - CATALYST - 50 % Solution of MEKP ( 9% Active Oxygen ) (AKZONOBEL BUTANOX M-50)

> Use of other MEKP catalysts or additives may result in different geltimes.

> Properties No. 2 to 4 are tested in accordance with methods described in IS 6746 : 1994.

**MATERIAL OF LIMITED SHELF LIFE. STORE BELOW 25°C**

NOTE: The user is held to check the quality, safety and all other properties of our product prior to use for his own purpose under his operating condition. We can not assume any responsibility for performance or results obtained through the use of our product here in described nor do we accept any liability for loss or damages directly or indirectly caused by our product.

QC - MANAGER



Verified:  
M. Ty  
FOR DRUGL  
24.08.2022



# CREST SPECIALITY RESINS PRIVATE LIMITED

(formerly Known as Crest Composites and Plastics Private Limited)

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QC - MANAGER



verified by  
FOR DNVGL  
21.08.2022



# ESSJAY TECHNOMEASURE PVT. LTD.

(A House of Calibration Engineering & Allied Services)

Apartment No. : D 1, 3rd Floor, 36, Kantapukur 3rd Bye Lane, Howrah - 711 101

Ph.: 033 26670835, 9674756762, website : www.technomeasurenabl.com

E-mail : technomeasure@gmail.com

DOC No. TMCAL/04



CC-2628

## Calibration Certificate

Issued To

ARC Insulation & Insulator Pvt. Ltd.

Vill- Ramdevpur, P.O.- Bawali, Bisnupur-743384

ULR No.: CC262822000029827F

Certificate No.:2207296/A392/BB/14

Date : 05.08.2022

Date of Calibration	Recommended Due On (As agreed with Customer)	Page No.
30.07.2022	30.07.2023	1 of 1

Location of Calibration : At Lab  
 Date of Receipt : 28.07.2022  
 Description of instrument : Steel Tape  
 Make : GK FML Range : 0-15000 mm L/C : 1 mm  
 Model/Type : -- SL. No. : --  
 Identification Number of Instrument : ARC-16  
 Method of Calibration : As per Work Instruction (WI- 01, Sec No: QWI - 30)  
 Based on IS 1269: Part 2, 1997 (Reaffirmed: 2007)

Details of Major Equipment used for Calibration :

Description	Traceability Certificate No. & Issue Date	Valid upto	Calibration Agency
Scale & Tape Calibration Unit	CC202221000005546F Calibration Date : 10.09.2021	10.09.2022	Delhi Calibration Laboratory
Traceability: Standards used for calibration are traceable to National Standards through NABL accredited laboratory			

Customer's Specification : Not provided by the Customer.

Environmental conditions : Temperature: 20±2°C

Humidity : 50±10 %RH

Uncertainty of measurement at 95% C.L. (k=1.96) : ± 120 sqrt (L/1000) µm

*Verified by  
M. Jy  
For Dr. V. G. L  
21.08.2022*

### Mechanical-Dimension Calibration

#### Calibration Results

Sl. No.	Marked on DUC* (in mm)	Cumulative length (in mm)	Cumulative error (in mm)
1	0	0.000	0.000
2	1000	1000.143	-0.143
3	1500	1500.187	-0.187
3	2000	2000.206	-0.206
4	3000	3000.264	-0.264
5	4000	4000.347	-0.347
6	5000	5000.428	-0.428
7	6000	6000.524	-0.524
8	7000	7000.638	-0.638
9	8000	8000.874	-0.874
10	9000	9000.968	-0.968
11	10000	10001.254	-1.254
12	11000	11001.126	-1.126
13	12000	12001.360	-1.360
14	13000	13002.321	-2.321
15	14000	14002.415	-2.415
16	15000	15002.874	-2.874

Remarks: 1. The Instrument is visually checked & found ok, DUC\*=Device Under Calibration

2. This calibration certificate refers to the value observed at the time of and under the stated conditions measured.

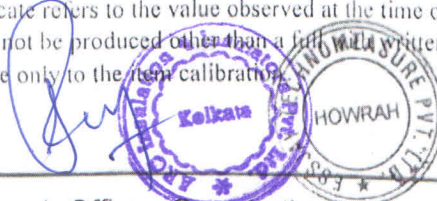
3. This certificate should not be produced other than a full written approval from the head of the calibration laboratory

4. The above results relate only to the item calibration.

*Archa*

Calibrated by

NISH GUCHHAI  
LIBRATION ENGINEER



*D. K. Sarkar*

Authorised Signatory

D. K. Sarkar

Quality Cum Technical Manager

Branch Office : Guwahati • Jamshedpur • Coochbehar



Phone : (033) 2455-8427 (LAB.)  
 Fax : (033) 2455-8427

# JAGANATHS SLIP GAUGES & COMPANY

N.A.B.L. ACCREDITED LABORATORY



SPECIALIST IN :  
 MEASURING FACILITIES WE UNDERTAKING REPAIR & CALIBRATION FOR ISO, RITES, RDSO  
 LAB. & OFF. : 28, GURUPADA HALDER ROAD, KALIGHAT, KOLKATA-700026  
 E-mail : jaganaths.slip@gmail.com

PAGE : 1 OF 2

FRM-01

## CALIBRATION CERTIFICATE ULR-CC214521000001132F

SERVICE REQUEST NO. : JSGC/DIM/CAL/ARC/352/07-22

NAME & ADDRESS OF CUSTOMER : **M/s. ARC INSULATION & INSULATOR PVT. LTD.**  
**VILL: RAMDEVPUR, BAWALI, BISHNUPUR-743384**

CERTIFICATE NO. : JSGC/ARC/CERT/02/01/GL802800/22-23 DATED: 08.07.2022

DATE OF RECEIPT OF SAMPLE : AT OUR LAB. (03.07.2022)

DESCRIPTION OF SAMPLE : VERNIER CALIPER

MAKE : FORBES GOKAD LTD. TYPE: 'A'

RANGE : 0 - 300 mm

LEAST COUNT : 0.02 mm

SERIAL & IDENTIFICATION NO. : GL802800

BASIS OF CALIBRATION : AS PER IS: 3651 P-2 (1985) RA: 2005 INT. PROC: P - 02

CONDITION OF THE ITEM : SATISFACTORY

DATE OF CALIBRATION : 08.07.2022

DUE DATE : 08.07.2023

ENVIRONMENTAL CONDITION DURING CALIBRATION : TEMP: 20°C ± 2°C ; HUMIDITY: 50±10% Rh.

MAJOR EQUIPMENT USED : SLIP GAUGE, DIGITAL EXTERNAL MICROMETER, LONG SLIP,  
 SLIP GAUGE ACCESSORIES MEASURING ATTACHMENTS & ACCESSORIES.

TRACEABILITY : SLIP GAUGE TRACEABLE TO NPL VIDE CMERI  
 CERT.NO: MetR3/2020 - 19(2) DT. 28.09.2020 VALID UPTO: 24.09.2022

LONG SLIP TRACEABLE TO NPL VIDE CMERI  
 CERT.NO: MetR1/2020 - 29 DT. 21.12.2020 VALID UPTO: 21.12.2022

DIGITAL EXTERNAL MICROMETER TRACEABLE TO MICRONIX ASSOCIATES VIDE SUP  
 CERT.NO: S-0236 DT. 29.06.2022 VALID UPTO: 29.06.2023

SLIP GAUGE ACCESSORIES TRACEABLE TO NPL VIDE CMERI  
 CERT. NO: MetR3/2020 - 19(3) DT. 28.09.2020 VALID UPTO: 28.09.2022

EXPANDED UNCERTAINTY : ± 13.5 µm AT 95% Confidence Level (k=2 Appx.)

LAB IDENTIFICATION : STICKER ATTACHED WITH ID. No. ON GAUGE/INSTRUMENT



Verified  
 m  
 For DNVAL  
 24.08.2022



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Item Description : Puddle Flange Assembly.  
Client Name : Costal Marine Construction and  
Engineering Ltd.

PO No : CM-02/19.05.07/772/PM/135/21-22/1648 Rev-1

Date: 29.01.2022.

QAP No : SF/QAP/010/2022-2023.

DRG No : CM-190507-ME-PFA-DT-01

Date of Inspection : 25.07.2022 and 26.07.2022.

DIMENSION REPORT

Sl No	Description	Puddle Assembly No-1	Puddle Assembly No-2
1	8mm Thickness Pipe length in mm	2020mm	2020mm
2	8mm Thickness Pipe length in mm	750mm	750mm
3	8mm Thickness Pipe length in mm	645mm	645mm
4	Pipe outer Dia in mm 2037	± 3mm	± 4mm
5	Pipe outer Dia in mm 1888	± 4mm	± 5mm
6	Pipe Inner Dia in mm 2021	± 2mm	± 2mm
7	Pipe Inner Dia in mm 1888	± 2mm	± 2mm
8	Flange Thickness in mm 110	110mm	110mm
9	Flange outer Dia in mm 2425	2425mm	2425mm
10	Flange inner Dia in mm 2044	2044mm	2044mm
11	Flange PDC in mm 2330	2330mm	2330mm
12	Flange Hole Dia in mm 36	36mm	36mm
13	Flange Hole Quantity in nos 40	40 Nos	40 Nos
14	Flange Thickness in mm 112	112mm	112mm
15	Flange outer Dia in mm 2425	2425mm	2425mm
16	Flange inner Dia in mm 1895	1895mm	1895mm
17	Flange PDC in mm 2330	2330mm	2330mm
18	Flange Hole Dia in mm 36	36mm	36mm
19	Flange Hole Quantity in nos 40	40 Nos	40 Nos

For. Southern Fabricators



Office & Factory : 177, B. L. Saha Road, Kolkata - 700 053, West Bengal, INDIA

Ph. : 033-2403-0652 / 4044, 2463 4532, Fax : 033-2463-4531

E-mail : fabricatorsouthern@gmail.com, souther\_52@bsnl.in

# N.C. BASU & CO.

## ULTRASONIC TEST REPORT

PIONEER IN NON DESTRUCTIVE TESTING OF CASTING & WELDING

64/16A, Belgachia Road  
Kolkata-700 037  
Phone: (033) 2558 4025  
Tele Fax: (033) 2558 4025

No.	SF/NCB/R-01/2022-23
Date	23/07/2022 & 25/07/2022
Customer	Southern Fabricators
Order No.	SF/WO/004/22-23
Item	Weld Joint
Drg. No	CM-19050J - ME - PFA DT.01
Surface Condition	Smooth / Clean
Apparatus (Make & Model)	MODSONIC EINSTEN - 2TFT Sl. No. E 2850 - 0111
Transducer Size & Frequency	Angle - 4MHz Size - 8x9 mm Wave - Share
Range	0 - 100mm
Technique	PULSECHO
Complant Used	Oil
Calibration Block	V <sub>1</sub> & V <sub>2</sub>
Gain (Pulse Energy)	40 db - 6db
Suppression	Nil
Testing Reference Standard	ASME Sec - V, Sec - VIII

**Observation :**

**VESSEL NO. 1**

T Joint - (TOP) - 1,2 ..... Minor Slag / Porosity  
T Joint - (BOTTOM) - 3,4 ..... Minor Slag  
L SEEM - 01 ..... Minor Slag

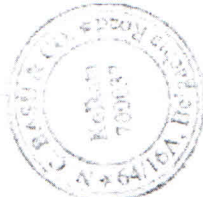
**VESSEL NO. 2**

T Joint - (TOP) - 1,2 ..... Minor Slag Inclusion  
T Joint - (MIDDLE) - 3,4 ..... Minor Slag and Porosity  
T Joint - (BOTTOM) - 5,6,7 ..... Minor Slag  
L SEEM - 02 ..... Minor Porosity

Operator's Name :

M. S. Chatterjee  
64/16A - U T - Belga - 2

Signature of Client



# N.C. BASU & CO.

(An ISO 9001:2015 Certified Company)

PIONEER IN NON DESTRUCTIVE TESTING OF CASTING, WELDING AND OTHERS

64/16A, Belgachia Road  
Kolkata-700 037  
Phone: (033) 2546 5531  
Mob:9903135531

## LIQUID PENETRANT TEST CERTIFICATE

Test Certificate No: NCB/SF/DP-64/22

Date: 26.07.2022

Customer: Southern Fabricator, Ankurhati, Howrah

Item: Puddle Flange Assembly - 2 nos

Date of Testing: 23-07-2022 & 25-07-2022

Material Used (Mgf - P. Met High Tech C. Pvt. Ltd.)

i) Cleaner: PC-5021D

ii) Penetrant: PP-5011B

iii) Developer: PD-5031B

Specification: RDSO- M & C/NDT/105/2001

ASTME 165 :MIL-1-25135

Dwell Time: 10 Minutes  
Developing Time: 2 Minutes

Surface Condition: Smooth

### DESCRIPTION

All weld joints including T-jts. & other surfaces were subjected to Dye-Penetrant Test by using the above mentioned Standard RDSO approved LPT materials.

### OBSERVATION

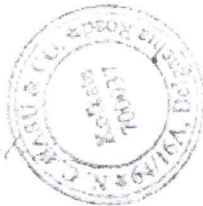
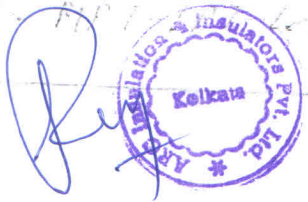
No such recordable defects were observed.

Remarks: Acceptable

Operator's Name:

M. S. Chatterjee

ASNT - PC 1000



Signature of Client





STEEL AUTHORITY OF INDIA LIMITED  
 ROURKELA STEEL PLANT  
 ROURKELA - 769011 (ODISHA)  
 RESEARCH AND CONTROL LABORATORY



IS 2062

Page 1 of 1

Test Certificate For: HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL  
 Test Certificate No.: 572127

Dated: 01.06.2022

Product: HR Coil

To: BHAGWATI STEELMET PVT LIMITED Howrah 711102

It is certified that the materials described below fully conforms to IS 2062 - 2011. The Chemical composition and Mechanical properties of the product as tested in accordance with the scheme of Testing and Inspection contained in BIS Certification marks License No. CM / L 0000053223 are as indicated against each order. The material supplied conforms to standard Rolling and weight tolerances (PLEASE REFER TO IS 2062 - 2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

Ladle Analysis

Cast No	C%	Mn%	P%	S%	Si%	Al%	CE	Size(mm) (TWAL)	Weight(T)	Grade / Mode Of Killing	YS	UTS	EI	Bend Test
2208996	0.1300	0.7500	0.0160	0.0100	0.1060	0.0370	0.2550			IS 2062 E250BR / AL SIK	340	443	28	
2209009	0.1500	0.8200	0.0200	0.0250	0.1070	0.0400	0.2870			IS 2062 E 250BR / AL SIK	340	455	30	OK
Total Pieces : 2											Total Weight(Tons) : 61.970			

TO WHOM IT MAY CONCERN

For the confirmation and certificate of the quality of the material supplied to the customer, we are pleased to inform you that the material supplied to you is as per the order placed with us. The material is as per the specification mentioned in the order. The material is as per the specification mentioned in the order. The material is as per the specification mentioned in the order.

For: SAJAN KUMAR SINGH  
 Assistant Signatory



INSPECTION  
 52-130



Dispatch Advice No.: 811409223

Dated: 31.05.2022

Wagon No: BRN229/SR094061710411

C SAMAL

Rourkela Steel Plant



JINDAL STEEL & POWER LIMITED  
Works: Bhadravada, Raichur-03, At Post: Jindal Nagar, Dist: Mysuru (KARNATAKA-575011) INDIA



IS 2062 1250 HR Plate Dimension - Thickness x Width x Length - 1250mm x 2500mm x 8000mm

Test Certificate No. - 000097044

MANUFACTURE: IS 2062 1250 HR Plate Dimension - Thickness x Width x Length - 1250mm x 2500mm x 8000mm

As per the material certificate below fully conform to IS 2062 2011. Chemical analysis, mechanical properties of the product as tested in accordance with the scheme of testing as respectively indicated in the BIS certificate (as per the NCM-I format) are as indicated below.

PLEASE REFER TO IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS

Process of Manufacture: LAF - LAF - CCM - ROLL - Hot rolling

Supply Condition: NORMALIZING ROLLING  
Description: Fully Killed

No.	Pc.	Chemical Analysis																Mechanical Properties											
		C	Mn	P	S	Si	Al	Ni	Cr	Mo	Nb	As	Se	Fe	Temp	UTS	Yield	Elong	Redl	Temp	UTS	Yield	Elong						
1	1970	0.13	0.04	0.0018	0.0016	0.2101	0.021	0.002	0.002	0.001	0.022	0.0010	0.0014	0.014	270	447	28	183.0	145	130	147	150.65	25	1a					
2	1970	0.13	0.04	0.0018	0.0016	0.2101	0.021	0.002	0.002	0.001	0.022	0.0010	0.0014	0.014	275	452	10	183.0	145	130	147	150.65	25	1a					

No.	Pc.	Chemical Analysis																Mechanical Properties											
		C	Mn	P	S	Si	Al	Ni	Cr	Mo	Nb	As	Se	Fe	Temp	UTS	Yield	Elong	Redl	Temp	UTS	Yield	Elong						
1	600	0.13	0.04	0.0018	0.0016	0.2101	0.021	0.002	0.002	0.001	0.022	0.0010	0.0014	0.014	270	447	28	183.0	145	130	147	150.65	25	1a					
2	600	0.13	0.04	0.0018	0.0016	0.2101	0.021	0.002	0.002	0.001	0.022	0.0010	0.0014	0.014	275	452	10	183.0	145	130	147	150.65	25	1a					

No.	Pc.	Chemical Analysis																Mechanical Properties											
		C	Mn	P	S	Si	Al	Ni	Cr	Mo	Nb	As	Se	Fe	Temp	UTS	Yield	Elong	Redl	Temp	UTS	Yield	Elong						
1	600	0.13	0.04	0.0018	0.0016	0.2101	0.021	0.002	0.002	0.001	0.022	0.0010	0.0014	0.014	270	447	28	183.0	145	130	147	150.65	25	1a					
2	600	0.13	0.04	0.0018	0.0016	0.2101	0.021	0.002	0.002	0.001	0.022	0.0010	0.0014	0.014	275	452	10	183.0	145	130	147	150.65	25	1a					

the above material supplied conform to the specified dimensions and tolerances as per specifications and specifications of the product as per the BIS certificate.



Mr. Subhojit Sankaran  
Tadain, G. town  
FIR/1030/22-23  
18/01/2023



INSPECTOR  
52-130

# Test Certificate

ESAB INDIA LIMITED  
 Regd Office: Plot No. 13, 3rd Main Road, Industrial Estate  
 Ambattur, Chennai - 600 056, KALMESHWAR PLANT  
 e-mail : info@esab.co.in  
 website : https://www.esabindia.com  
 CIR NO : L29299TN1967PLCO5673E



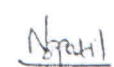
Your Partner In  
 Welding and Cutting

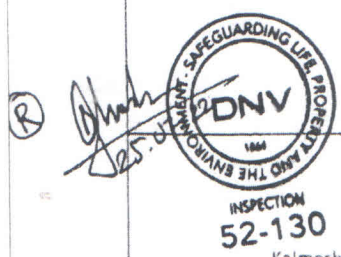
MIG WIRE	Size : 1.20 mm	Certificate No. :21565
Brand Name : ESAB MW1	Batch No. : TUW2412352	Date of Issue :24-06-2022
This material conforms to specification: ASME Section II Part C SFA / AWS A 5.18 ER70S-5		

Chemical Analysis of the Wire %	Conforms to EN 10204 Type 3.1	Mechanical Properties of Weld Metal As Welded	Conforms to EN 10204 Type 2.2
C	0.072	Y.S kg/mm <sup>2</sup> (MPa)	44.72 (438)
Mn	1.48	UTS kg/mm <sup>2</sup> (MPa)	55.90 (548)
Si	0.876	Elongation % (l = 4d)	27.9
S	0.009	CVN Impact Test at -30 °C	
P	0.013	Average - Joules(kgfm)	72.3 ( 7.37 )
Cr	0.025	Radiography	Satisfactory
Ni	0.028	Cast	850.00 - 900.00
Mo	0.002	Helix(mm)	3.00 - 6.00
V	0.001		
Cu	0.12		

Remarks  
 \*\* The copper percentage includes the copper coating applied on the wire.

" We certify that the supply made against this BTC conforms to all the requirements of ASME SEC- II, Part C Specification, issue 2021, in all respects."

Nikhil Patil   
 Asst Manager , Quality Assurance



COMPANY WITH  
 MANAGEMENT SYSTEM  
 CERTIFIED BY DNV

# N. C. BASU & CO.

WELDING & NON - DESTRUCTIVE TESTING SPECIALISTS  
64/16A, BELGACHIA ROAD, KOLKATA - 700 037

## ULTRASONIC TEST REPORT

23/07/22

Date <sup>8</sup> 25/07/22

No. SF/NCB/R-01/2022-23

Customer - Southern Fabricators

Order No. - ~~PUSECHA~~ SF/Wo/004/22-23

Item - WELD JOINT

Drg. No. - CM - 19050 J - ME - PFA - DT. 01

Surface Condition - smoth/clean

Apparatus (Make & Model) - MODSONIC EINSTEN - 2TFT S.R-NO E 2850 - 0111

Transducer Size & Frequency - ANGEL SIZE WAVE  
4MHZ 8x9MM SHERE

Range - 0 - 100mm

Technique - PUSEECHO

Complant used - OIL

Calibration Block - V<sub>1</sub> & V<sub>2</sub>

Gain (Pulse Energy) - 40dB + 6dB

Suppression - NIL

Testing Reference Standard  
ASME - <sup>See</sup> I Sec - VIII

OBSERVATION - VESSEL No. 1

(Test Result)

T JOINT - (TOP) - 1, 2  
Minor slag/porosity

T JOINT (BOTTOM) - 3, 4  
Minor slag

L SEEM - 01  
Minor slag

VESSEL No. 2

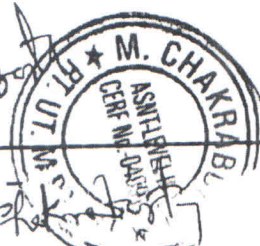
T-JOINT - (TOP) - 1, 2 - Minor slag Inclusion

T-JOINT - (MIDDLE) - 3, 4 - minor slag and poracity

T - JOINT - (BOTTOM) - 5, 6, 7 - Minor slag


L-SEEM-02

Minor porosity

Operator's Name - M. Chakrabarti  




(W)

Signature of Client [Signature]  
  
INSPECTION  
52-130