

Division of ITT

Order Number:	190056511
---------------	-----------

Order Quantity	Line Number
4 of 8	100

[illegible]

greencard rev 6



ITT Engineered Valves
1110 Bankhead Av.
Amory, MS 38821
tel 662-257-6928
fax 662-256-7932

CERTIFICATE OF COMPLIANCE

A R THOMSON - DELTA/S

P.O. NUMBER: 4500210916

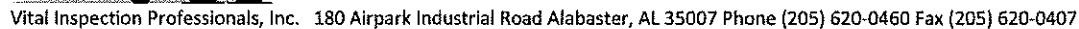
FABRI-VALVE ORDER NUMBER: 190056511100

EQUIPMENT NUMBER: 300263648, 300263649, 300263650, 300263651

**WE CERTIFY THAT THE VALVES SUPPLIED ON THE SUBJECT ORDER
COMPLY WITH THE REQUIREMENTS STATED ON THE ORDER AND TO
FABRI-VALVE'S DESIGN AND QUALITY REQUIREMENTS.**

Andy Hood 5/26/2023

**Andy Hood
Product Assurance Specialist III**





Vital Inspection Professionals, Inc. 180 Airpark Industrial Road Alabaster, AL 35007 Phone (205) 620-0460 Fax (205) 620-0407

Order No	V-534	PO No.	Danny Shelton	Job No.	23-0194	Date	4/7/2023
----------	-------	--------	---------------	---------	---------	------	----------

LIQUID PENETRANT REPORT

CLIENT: ITT ENGINEED VALVES LOCATION: VIP Shop / Alabaster, AL

PROJECT: 10" Valve Casting Bodies

TECHNIQUE/VIP PROCEDURE: In accordance with ASME Section V Article 6 and VIP-PT-V1 Rev. 8

ACCEPTANCE CRITERIA: ASME VIII Division 1, Appendix 7 Paragraph 7-3(a)(4)

Method Used:	Water Washable / Color / Visible Dye; (Method A Type 2)		
Consumable	Manufacturer	Part Number	Batch Number
Penetrant	Magnaflux	SKL-WP	17A05K
Cleaner	Varies	None - Tap or Mill Water Acceptable	
Developer	Magnaflux	SKD-S2	17D12K
Temp. of Item Inspected:	75 °	Date and Time of Inspection	4/7/23 / 2 PM
		Light Source:	AA LED Flashlight

RESULTS					
Item	Material	Size / Thickness	Results	Size and Location of Indications	
Casting #1 IZ1296-3	CF8M	Various	Acceptable	No Relevant Indications	
Casting #2 JY1258-3	CF8	Various	Acceptable	No Relevant Indications	
Casting #3 IZ1295-2	CF8M	Various	Acceptable	No Relevant Indications	
Casting #4 JY1294-1	CF8	Various	Acceptable	No Relevant Indications	
Casting #5 IY1438	CF8M	Various	Acceptable	No Relevant Indications	
Casting #6 JZ1216-2	CF8M	Various	Acceptable	No Relevant Indications	
Casting #7 JZ 986-3	CF8	Various	Acceptable	No Relevant Indications	
Casting #8 IZ1294-1	CF8	Various	Rejectable	Two Rounded Indications 2" diameter	
				SEE PHOTOS	

REMARKS:

TECHNICIANS: Julian Dela Cruz LEVEL: II
LEVEL: _____

James A. Danner

VITAL INSPECTION PROFESSIONALS, INC.

The understanding of Vital Inspection Professionals to perform the services under this contract, purchase order or other similar agreements extends only to those services requested therein. Under no circumstances shall such services extend beyond the performance of the requested inspection of specific equipment and the preparation of reports or similar documents reflecting the inspection data obtained or the opinion formulated on the basis of such inspection. It is expressly understood that all descriptions, comments and representations of opinion reflect the opinion or observations of the examiner and are not intended nor may they be construed as representation or warranties as to the actual circumstances. In performing the services requested, Vital Inspection Professionals use the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or implied, is made or intended by Vital Inspection Professionals, Inc.



Vital Inspection Professionals, Inc. 180 Airpark Industrial Road Alabaster, AL 35007 Phone (205) 620-0460 Fax (205) 620-0407

Order No	V-534	PO No.	Danny Shelton	Job No.	23-0194	Date	4/7/2023
----------	-------	--------	---------------	---------	---------	------	----------

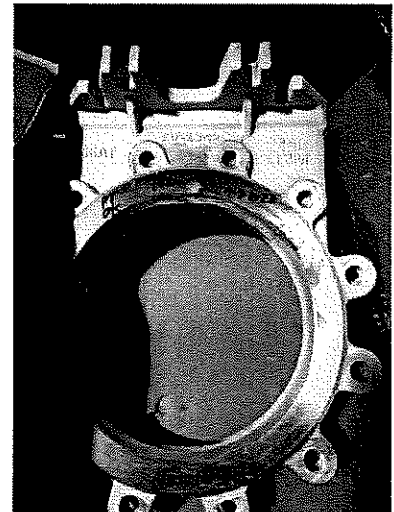
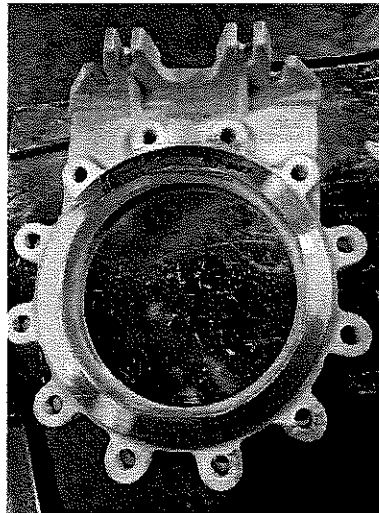
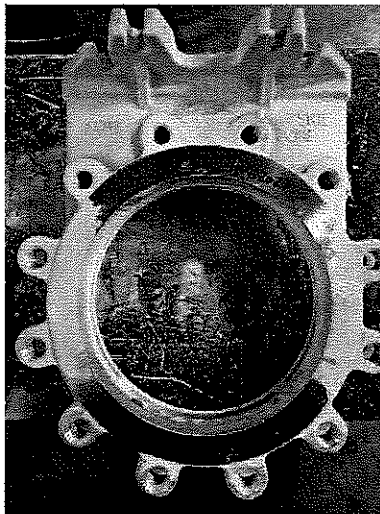
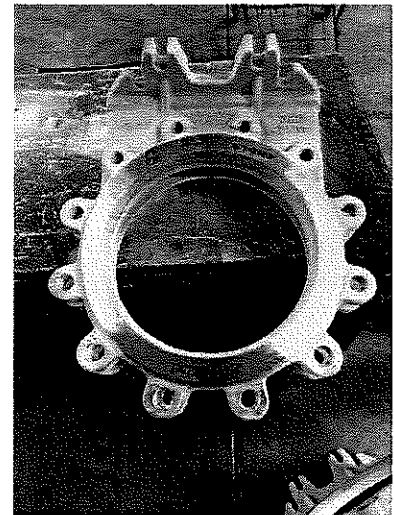
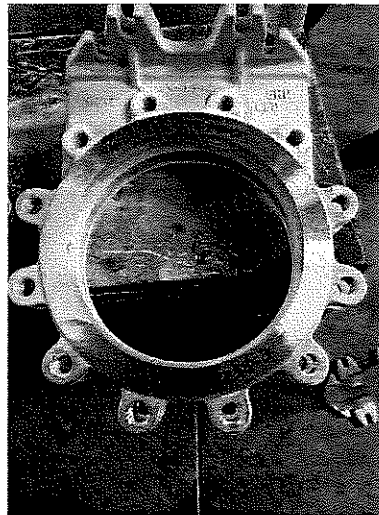
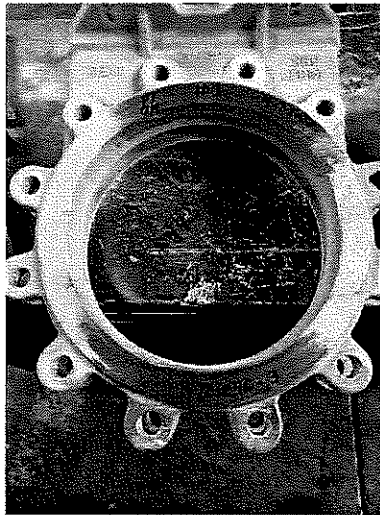
LIQUID PENETRANT REPORT

CLIENT: ITT ENGINEERED VALVES LOCATION: VIP Shop / Alabaster, AL

PROJECT: 10" Valve Casting Bodies

RESULTS

PHOTOS





Vital Inspection Professionals, Inc. 180 Airpark Industrial Road Alabaster, AL 35007 Phone (205) 620-0460 Fax (205) 620-0407

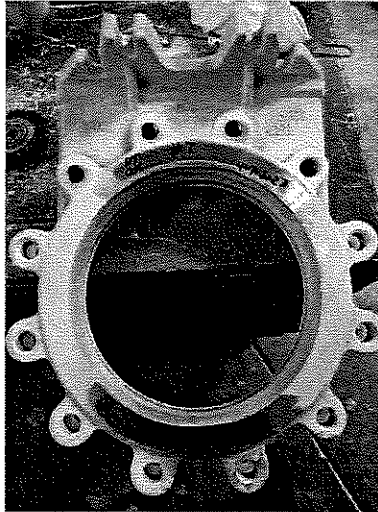
Order No	V-534	PO No.	Danny Shelton	Job No.	23-0194	Date	4/7/2023
----------	-------	--------	---------------	---------	---------	------	----------

LIQUID PENETRANT REPORT

CLIENT: ITT ENGINEERED VALVES LOCATION: VIP Shop / Alabaster, AL
PROJECT: 10" Valve Casting Bodies

RESULTS

PHOTOS



**SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II**

KAREKOUNDANPALAYAM (POST), POGALUR(VIA), COIMBATORE, 641 697, India
Phone: +91-422-4335999 / 4254-4277800, email: sri2@sriindia.net, Website: www.sriindia.net

INSPECTION CERTIFICATE

EN 10204 3.1-2004

Customer : ITT ENGINEERED VALVES, LLC

1110 BANKHEAD AVE
AMORY, MS 38821 US
UNITED STATES OF AMERICA

T.C. No : 010114
T.C. Date : 10-AUG-22

Heat No : JY1294

Pour Date : 24/06/2022

CASTING PROCESSED BY INDUCTION MELTING
FOUNDRY IDENTIFICATION : SRI2

P.Order No. : 4500072351 .Dt: 26-APR-22

Material Specification : ASTM A351 - 18e1 Gr. CF8

CHEMICAL COMPOSITION %

Element	C	Si	Mn	S	P	Cr	Ni	Mo
Minimum	---	---	---	---	---	18.000	8.000	---
Maximum	0.080	2.000	1.500	0.040	0.040	21.000	11.000	0.500
Actual	0.036	0.978	0.950	0.004	0.028	18.110	8.109	0.065

HEAT
TREATMENT

SOLUTION ANNEALING : RAISED TO 1100°C SOAKED FOR 2 HOURS AND THEN WATER QUENCHED.

ASTM A370-21**MECHANICAL PROPERTIES**

Requirements	Yield Strength		Tensile Strength		%Elongation	%Reduction	Hardness	Bend Test	Impact Test in (J)			
	ksi	MPa	ksi	MPa	GL : 50 mm	of Area	HBW	At	(10mm X 10mm X 55mm)			
	0.2%RP		---		---	---	QTC	---	ISO 148 - 1 , CVN 2 mm			
Minimum	30	205	70	485	35.00	---	---	---				
Maximum	---	---	---	---	---	---	---	---	1	2	3	Avg
Actual	38.4	265	85.4	589	54.66	---	164	---	--	--	--	--

SL No	PO. SLNo	Description Part No.	Raw Casting Drawing No.	Mach Drawing No.	Qty
1	200	10" C37 FV-1342 SHORT BODY INVESTMENT FMC MAT NO F159011	D-90-214 REV.10	D91-0064 REV.9 / A-95-586 REV.4	3

Remarks : Visual Inspection Carried Out As Per MSS SP -55-2011.

We confirm that the material was manufactured, sampled, tested and inspected in accordance with above material specification and was found to meet the requirements and also compliance to the purchase order.

For SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II


QUALITY CONTROL

**SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II**

KAREKUNDANPALAYAM (POST), POGALUR(VIA), COIMBATORE, 641 697, India
Phone: +91-422-4335999 / 4254-4277800, email: sri2@sriindia.net, Website: www.sriindia.net

INSPECTION CERTIFICATE

EN 10204 3.1-2004

Customer : ITT ENGINEERED VALVES, LLC

1110 BANKHEAD AVE
AMORY, MS 38821 US
UNITED STATES OF AMERICA

T.C. No : 010115
T.C. Date : 10-AUG-22

Heat No : JZ986

Pour Date : 14/05/2022

P.Order No. : 4500072351 Dt: 26-APR-22

Material Specification : ASTM A351 - 18e1 Gr. CF8

CASTING PROCESSED BY INDUCTION MELTING
FOUNDRY IDENTIFICATION : SRI2

CHEMICAL COMPOSITION %

Element	C	Si	Mn	S	P	Cr	Ni	Mo
Minimum	---	---	---	---	---	18.000	8.000	---
Maximum	0.080	2.000	1.500	0.040	0.040	21.000	11.000	0.500
Actual	0.057	0.910	1.102	0.002	0.031	18.311	8.407	0.313

HEAT TREATMENT

SOLUTION ANNEALING : RAISED TO 1100°C SOAKED FOR 2 HOURS AND THEN WATER QUENCHED.

ASTM A370-21**MECHANICAL PROPERTIES**

Requirements	Yield Strength		Tensile Strength		%Elongation	%Reduction	Hardness	Bend Test	Impact Test in (J)			
	ksi	MPa	ksi	MPa	GL : 50 mm	of Area	HBW	At	(10mm X 10mm X 55mm)			
	0.2%RP		---		---	---	QTC	---	ISO 148 - 1 , CVN 2 mm			
Minimum	30	205	70	485	35.00	---	---	---				
Maximum	---	---	---	---	---	---	---	---	1	2	3	Avg
Actual	44	303	85.4	589	51.20	---	163	---	---	---	---	---

SL. No	PO. SLNo	Description Part No.	Raw Casting Drawing No.	Mach Drawing No.	Qty
1	200	10" C37 FV-1342 SHORT BODY INVESTMENT FMC MAT NO F159011	D-90-214 REV.10	D91-0064 REV.9 / A-95-586 REV.4	3

Remarks : Visual Inspection Carried Out As Per MSS SP -55-2011.

We confirm that the material was manufactured, sampled, tested and inspected in accordance with above material specification and was found to meet the requirements and also compliance to the purchase order.

For SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II


QUALITY CONTROL



SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II

KAREKOUNDANPALAYAM (POST), POGALUR(VIA), COIMBATORE, 641 697, India
Phone: +91-422-4335999 / 4254-4277800, email: sri2@sriindia.net, Website: www.sriindia.net

INSPECTION CERTIFICATE

EN 10204 3.1-2004

Customer : ITT ENGINEERED VALVES, LLC

1110 BANKHEAD AVE
AMORY, MS 38821 US
UNITED STATES OF AMERICA

T.C. No : 010108
T.C. Date : 10-AUG-22

Heat No : JY1258

Pour Date : 22/06/2022

P.Order No. : 4500072351 .Dt: 26-APR-22

Material Specification : ASTM A351 - 18e1 Gr. CF8

CASTING PROCESSED BY INDUCTION MELTING
FOUNDRY IDENTIFICATION : SRI2

CHEMICAL COMPOSITION %

Element	C	Si	Mn	S	P	Cr	Ni	Mo
Minimum	---	---	---	---	---	18.000	8.000	---
Maximum	0.080	2.000	1.500	0.040	0.040	21.000	11.000	0.500
Actual	0.036	0.947	0.968	0.004	0.030	18.350	8.044	0.140

HEAT
TREATMENT

SOLUTION ANNEALING : RAISED TO 1100°C SOAKED FOR 2 HOURS AND THEN WATER QUENCHED.

ASTM A370-21

MECHANICAL PROPERTIES

Requirements	Yield Strength		Tensile Strength		%Elongation	%Reduction	Hardness	Bend Test	Impact Test in (J)			
	ksi	MPa	ksi	MPa	GL : 50 mm	of Area	HBW	At	(10mm X 10mm X 55mm)			
	0.2%RP		---		---	---	QTC	---	ISO 148 - 1 , CVN 2 mm			
Minimum	30	205	70	485	35.00	---	---	---				
Maximum	---	---	---	---	---	---	---	---	1	2	3	Avg
Actual	38	261	84.4	582	56.04	---	166	---	--	--	--	--

SL No	PO. SLNo	Description Part No.	Raw Casting Drawing No.	Mach Drawing No.	Qty
1	200	10" C37 FV-1342 SHORT BODY INVESTMENT FMC MAT NO F159011	D-90-214 REV.10	D91-0064 REV.9 / A-95-586 REV.4	3

Remarks : Visual Inspection Carried Out As Per MSS SP -55-2011.

We confirm that the material was manufactured, sampled, tested and inspected in accordance with above material specification and was found to meet the requirements and also compliance to the purchase order.

For SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II

QUALITY CONTROL

**SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II**

KAREKOUNDANPALAYAM (POST), POGALUR(VIA), COIMBATORE, 641 697, India
Phone: +91-422-4335999 / 4254-4277800, email: sri2@sriindia.net, Website: www.sriindia.net

INSPECTION CERTIFICATE

EN 10204 3.1-2004

Customer : ITT ENGINEERED VALVES, LLC

1110 BANKHEAD AVE
AMORY, MS 38821 US
UNITED STATES OF AMERICA

T.C. No : 007424**T.C. Date** : 03-MAR-22**Heat No** : JZ138**P.Order No.** : 4500066086 **.Dt:** 22-NOV-21**Pour Date** : 22/01/2022**Material Specification :** ASTM A351 - 18e1 Gr. CF8

CASTING PROCESSED BY INDUCTION MELTING

FOUNDRY IDENTIFICATION : SRI2

CHEMICAL COMPOSITION %

Element	C	Si	Mn	S	P	Cr	Ni	Mo
Minimum	---	---	---	---	---	18.000	8.000	---
Maximum	0.080	2.000	1.500	0.040	0.040	21.000	11.000	0.500
Actual	0.022	0.961	1.191	0.002	0.031	18.025	8.199	0.394

HEAT TREATMENT

SOLUTION ANNEALING : RAISED TO 1100°C SOAKED FOR 2 HOURS AND THEN WATER QUENCHED.

ASTM A370-20**MECHANICAL PROPERTIES**

Requirements	Yield Strength		Tensile Strength		%Elongation	%Reduction	Hardness	Bend Test	Impact Test in (J)			
	ksi	MPa	ksi	MPa	GL :50 mm	of Area	HBW	At	(10mm X 10mm X 55mm)			
	0.2%RP		---		---	---	QTC	---	ISO 148 - 1 , CVN 2 mm			
Minimum	30	205	70	485	35.00	---	---	---	---	---	---	---
Maximum	---	---	---	---	---	---	---	---	1	2	3	Avg
Actual	39	266	78	537	53.40	---	156	---	--	--	--	--

SL. No	PO. SLNo	Description Part No.	Raw Casting Drawing No.	Mach Drawing No.	Qty
1	500	10" C37 FV-1342 SHORT BODY INVESTMENT FMC MAT NO F158011	D-90-214 REV.10	D91-0064 REV.9 / A-95-586 REV.4	2

Remarks : Visual Inspection Carried Out As Per MSS SP -55-2011.

We confirm that the material was manufactured, sampled, tested and inspected in accordance with above material specification and was found to meet the requirements and also compliance to the purchase order.

For SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II

QUALITY CONTROL



46c9f1b1c%NDExMjYzNTY=

CML-5200020363

CUSTOMER	SALEM STAINLESS STEEL SUPPLIERS	CERTIFICATE NO.	JSL-JRD/KAZ/021-22/00000126356
CITY	CHENNAI	DATE	04.01.2022
P.O.NO.	4361	VEHICLE NO.	CG04BX7462
CUSTOMER SPECIFICATION	As per OA/PO agreement	SALES ORDER NO.	0529038912
		SUPPLIER DELIVERY NO.	6300017228
		NET WT(MT)	4.117

Material Description/Product	Grade / Type	Material Specifications	Process-Route
STAINLESS STEEL	1.4301/304	EN 10088-2:14, EN 10028-7:16, ASTM A240/A240M-20, ASME SA-240/SA-240M 2019 SEC. II, PART A, IS 6911:2017 AMD. 2	BAF-AOD-LRF-CCS

PHYSICAL DESCRIPTION

SR NO.	BATCH NO.	PARENT COIL NO. / PLATE NO.	PKT/PALLET NO.	WEIGHT (MT)	NO. OF PCS	HEAT NO.	THK (mm)	WIDTH (mm)	LENGTH (mm)	FINISH	EDGE	QUALITY
1	500069297	0000742704	305521	0.920	1	12103989	12.500	1,500.00	6,000.00	NI	Trim Edge	PRIME
2	500069298	0000742704	305521	0.920	1	12103989	12.500	1,500.00	6,000.00	NI	Trim Edge	PRIME
3	500032207	0000751976	307941	1.125	1	12104421	12.700	1,600.00	6,700.00	1D	Mill Edge	PRIME
4	500072385	0000751777	307937	1.152	1	12104421	12.700	1,600.00	6,800.00	1D	Mill Edge	PRIME

CHEMICAL ANALYSIS (LADLE)

HEAT NO.	%C	%Mn	%S	%P	%Si	%Ni	%Cr	%N	%Mo	%Cu	%Ti	%Nb	%Al
12103989	0.063	0.95	0.005	0.012	0.44	8.03	18.13	0.047	-	-	-	-	-
12104421	0.069	0.94	0.005	0.011	0.27	8.03	18.10	0.047	-	-	-	-	-

MECHANICAL PROPERTIES: SAMPLE DIRECTION - TRANSVERSE

Sr No.	R _m 0.2 / YS Mpa	R _m 1.0 Mpa	R _m TS Mpa	%EL, GI=50 mm	%EL, GI=80 mm	%FL, GI=50 mm	Hardness: HBW	Bend Test
1	290	351	607	54	-	50	80 ± 81	-
2	290	331	607	54	-	50	80 ± 81	-
3	303	344	600	57	-	53	83 ± 84	-
4	303	344	600	57	-	53	83 ± 84	-

ADDITIONAL INFORMATION

- 1) MATERIAL HAS BEEN SOLUTION ANNEALED AT MIN 1040°C & QUENCHED IN WATER
2) ABOVE MATERIAL ALSO CONFORM TO IS 6911:2017 AMD. 2 GRADE 304.

PART NO : F175055
HEAT NO : 12104421
PART DESCRIPTION : 10" X37T 304SS GATE
PCV INVOICE NO : EXP-021
PCV INVOICE DATE : 23/06/2022
ITT PO NO : 4500068227



* THE ABOVE MATERIAL FULLY CONFORMS TO IS 6911:2017 AMD.2 CHEMICAL & MECHANICAL PROPERTIES OF PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING & INSPECTION CONTAINED IN BIS CERTIFICATION

HOT ROLLED FINISHES: (01. ANN. NI, 02. CHQ) & COLD ROLLED FINISHES: (2E, 2D, 2D, BA, NO. 4, 11L)

PLATE: MATERIAL 5.00 MM AND OVER IN THICKNESS AND OVER 250 MM IN WIDTH (AS PER ASTM/ASME STANDARD) & THICKNESS 3 MM OR OVER (AS PER DIN STANDARD)

SHEET: MATERIAL UNDER 3.00 MM IN THICKNESS AND 600 MM AND OVER IN WIDTH (AS PER ASTM/ASME STANDARD) & THICKNESS LESS THAN 3 MM (AS PER DIN STANDARD)

COIL: IN "PHYSICAL DESCRIPTION" LENGTH MENTIONED AS "COIL"

Jindal Stainless Limited,
Kalinga Nagar Industrial Complex,
Jajpur, Odisha - 755026, India.
Tel: 0674-2500000
Fax: 0674-2500000
Email: jsl@jindalstainless.com

This is hereby certified that the material was manufactured, supplied, tested & inspected in accordance with requirements of the material specification and has been found to meet the requirements of said specification.
The material supplied under this Part Certificate is subject to inspection and examination on its receipt by the purchaser with the Jindal Stainless Limited as per the following conditions: (i) The material shall be inspected by the purchaser within 14 days of receipt of the material and (ii) The material shall be inspected by the purchaser within 14 days of receipt of the material and (iii) The material shall be inspected by the purchaser within 14 days of receipt of the material.

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
CERTIFIED COMPANY
Jindal Stainless Limited
Jajpur, Odisha - 755026, India
Tel: 0674-2500000

