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(GOVERNMENT OF INDIA RECOGNISED EXPORT HOUSE)
 ISO 9001:2015 CERTIFICATE NO. 04 100 011022

L/C NO. & DATE :

F860(F824) QC 09/00/11.01.2018

MILL TEST / INSPECTION CERTIFICATE 3.1
 ACCORDING TO EN 10204 : 2005

Consignee						Test Certificate No. : SS-0312 - 04-2022-2023								
						Date of Issue : 05.01.2023								
						P. O. NO. : 9374								
						SC_No. & Date : 22-23/00099, Dt. 12/12/2022								
						Invoice No. & Date : SS-0312-2022-23 Dt.05.01.2023								
PRODUCT DESCRIPTION STAINLESS STEEL SHAPES & SECTIONS (CHANNEL) [CONDITION - 1D]						LENGTH			Net Wt.					
						Ordered		Actual	5260 LBS.					
						20' - 22'		20' - 22'						
Article No.	Item No.	Heat No.	Material/Grade	Size mm/inch	Tolerance	Process Route								
-	-	CH-18048	316/316L 1.4401/1.4404	4 x 1.721 x 0.321 x 0.296	ASTM A484	Electric Melting, A.O.D. Refining, Continuous Casting								
CHEMICAL COMPOSITION (Weight %)														
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	Co	N		
Min.	-	-	1.25	-	-	16.50	2.00	10.00	-	-	-	-		
Max.	0.030	0.75	2.00	0.040	0.030	18.00	2.25	13.00	1.00	-	-	0.1000		
Results	0.017	0.60	1.71	0.040	0.004	16.83	2.03	10.18	0.52	-	-	0.0720		
MECHANICAL PROPERTIES														
Specified Values	Test Method :- EN ISO 6892-1					Hardness EN ISO 6506-1 (BHN)	Test Method :- Charpy 'V' Notch Impact							
	Proof Strength N/mm ² /MPa		Tensile Strength N/mm ² /MPa (Rm)	Elongation after Fracture (A) %	Reduction of Area (Z) %		Tested (2mm) as per DIN EN ISO 148 - 1							
	0.2%(Rp0.2)	1%(Rp1.0)					Sample Size - Test Temp. :- 20 ⁰ C (Joules)							
Results	339	364	645	38	63	183-186	I	II	III	Avg.	N.A.	N.A.	N.A.	N.A.
Remarks:														
1. Condition : 1D (Hot Rolled, Shot-Blasted and Pickled)						2. Solution annealed at 1050 °C.								
3. PMI test done 100% & found Satisfactory.						4. Material is free from radio-active contamination.								
5. Material free of contamination from mercury or metals liquid at ambient temperature.														
6. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory.														
7. The material conforms to DIN EN 10088-3:2014, AD W0, ASTM A276/A276M-17, ASTM A484/A484M-20a, ASTM A479/A479M-20, ASME SA479/SA-479M-21 ASME SECTION II, PART A, AMS-QQ-S-763D, AMS - 5648M & AMS - 5653H Specifications.														
8. Surface condition found satisfactory as per EN 10163-3 Class D.														
9. Location of sample - Off Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Flat.														
10. Marking details - Company Logo, Size, Grade & Heat No.														
11. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin.														
12. No welding/weld repairs was performed on this material.														
BUNDLE NO.: KK456, KK461, KK462, KK463						COLOUR : YELLOW								



It is hereby certified that the above results are true and correct in every details and are meeting the requirements of specification & purchase order.

B.S. Raute
 B. S. RAUTELA
 MANAGER - Q.A./WORKS INSPECTOR