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Works : Plot # 31 to 36, 45 to 49/2, 142 (Exp. Area), G.I.D.C. Umbergaon, District - Valsad,
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CDXB4396-21



**CHANDAN
STEEL LIMITED**

TRUE STAINLESS VALUE

(GOVERNMENT OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001:2015 CERTIFICATE NO. 04 100 011022

F860(F824) QC 09/00/11.01.2018

L/C NO. & DATE :

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

CONSIGNEE :				TEST CERTIFICATE NO. : TC-0322-22-23/21								
				DATE OF ISSUE : 10/01/2023								
				P.O. NO. : LA7638								
				S/C NO. & DATE : 22-23/00093, Dt. 12/12/2022								
				INVOICE NO. & DATE : TC-0322-22-23, Dt. 10/01/2023								
PRODUCT DESCRIPTION STAINLESS STEEL ANGLES [HRAP]				LENGTH		NET WEIGHT						
				ORDERED	ACTUAL							
				20-22 FEET	20-22 FEET	1336 LBS						
ARTICLE #	ITEM #	HEAT #	GRADE AISI	SIZE IN	TOLERANCE	PROCESS ROUTE						
-	A6L02000012	CH-17792	316/316L S31600/S31603	2X2X3/16	ASTM A484	Electric Melting, A.O.D. Refining, Continuous Casting						
CHEMICAL COMPOSITION (WEIGHT %)												
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	Nb/Cb	N
MIN	-	-	1.25	-	-	16.00	2.00	10.00	-	-	-	-
MAX	0.030	1.00	2.00	0.040	0.030	18.00	3.00	14.00	1.00	-	-	0.1000
RESULTS	0.022	0.41	1.71	0.039	0.007	17.05	2.05	10.05	0.52	-	-	0.0810
MECHANICAL PROPERTIES												
Test Method :- EN ISO 6892-1 & EN ISO 6506-1												
SPECIFIED VALUES	YIELD STRENGTH N/mm ² /MPa 0.2% (Rp0.2)		TENSILE STRENGTH N/mm ² /MPa (Rm)		ELONGATION after Fracture (A) % 4D / 5D		REDUCTION OF AREA (%)		HARDNESS HBW			
MIN	206		517		30		50		140			
MAX	-		792		-		-		255			
RESULTS	355		662		38		61		212-215			
Remarks :												
<ol style="list-style-type: none"> Hot Rolled, Shot-Blasted and Pickled. PMI Test done 100% & found satisfactory. Solution Annealed at 1050 C and soaked for 30 minutes and water quenched. Grain size No. 5-7 as per ASTM E 112-13 test method. Material is free from mercury contamination. Material is free from radio-active contamination. Macro Structure - C2R2S2 of ASTM E 381-01. Micro structure reveals- equiaxed grains of Austenite & free from carbide Precipitation. InterGranular Corrosion Test found satisfactory as per ASTM A262 - 15 (Pr.E). Location of sample - Off centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Flat. Marking details - Company Logo, Size, Grade & Heat No. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin. No welding/weld repairs was performed on this material. The material conforms to ASTM A276/A276M-17, ASTM A484/A484M-20a, ASTM A479/A479M-20, ASME SA479/SA-479M-19 SECTION II-PART A, AMS-QQ-S-763D, AMS-5647K & AMS-5639J Specifications. AMS 5648M (AISI 316 / 316L), AMS 5653H (AISI 316 / 316L) specification 												
BUNDLE NO. : 2P69						COLOUR : WHITE						

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. RAUTELA
MANAGER - QUALITY ASSURANCE