



CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2008 CERTIFICATE No. 04 100 011022-E3

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L/c. No.:

L/c. Date:

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F824 QC 09A / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

TIBNOR A S PB 140, FURUSET, N-1001 OSLO NO 911 032 767 MVA NORWAY						Test Certificate No. : EXP/00800 - 16/2015-2016 Date of Issue : 31.10.2015 P.O. No. : W8695B SC_No. & Date : 15-16/00515, Dt.19.09.2015 Invoice No. & Date : EXP/00800/2015-16 Dt.31.10.2015								
PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS [CONDITION - 1D & 2D]						LENGTH		Net Wt.						
						Ordered	Actual	4283 Kgs.						
						3.0 - 3.1 Mtrs.	3.0 - 3.1 Mtrs.							
Article No.	Item No.	Heat No.	Material/Grade	Size mm/inch	Tolerance	Process Route								
-	6620016	CH-2797	1.4404	16.00 mm	h9	Electric Melting, A.O.D. Refining, Continuous Casting								
CHEMICAL COMPOSITION (Weight %)														
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	Co	N		
Min.	-	-	-	-	-	16.50	2.00	10.00	-	-	-	-		
Max.	0.030	1.00	2.00	0.045	0.030	18.50	2.50	13.00	-	-	-	0.1000		
Results	0.030	0.52	1.78	0.043	0.023	16.55	2.02	10.05	-	-	-	0.0620		
MECHANICAL PROPERTIES														
Specified Values	Test Method :- EN ISO 6892-1					Hardness EN ISO 6506-1 (BHN)	Test Method :- DIN EN ISO 148 - 1							
	Proof Strength N/mm² /MPa		Tensile Strength N/mm²/MPa (Rm)	Elongation after Fracture A %	Reduction of Area %		Charpy (V) Impact Test (2mm) at 20 °C (Joules)							
	0.2%(Rp0.2)	1%(Rp1.0)					Sample Size - 10 x 10 x 55 mm							
Results	515	554	718	42	62	222-225	I	II	III	Avg.	235	238	245	239.33
Remarks: 1. Condition : 1D & 2D (Cold drawn & Centreless Ground). 2. Solution annealed at 1050 °C. 3. PMI test done 100% & found Satisfactory. 4. The material is fully killed and calcium treated. 5. Material is free from radio-active contamination. 6. Intergranular Corrosion test carried out as per EN/ISO 3651-2-1998 (Test method A) found satisfactory. 7. Appoved acc.to PED (97/23/EC) by Certification Body for Pressure Equipment of TUV NORD Systems (notified body, reg. no.:0045) . 8. The material conforms to EN 10088-3:2005, EN 10088-5:2009, ASTM A479-13a & NORSOK M-630 MDS S01 Specifications. 9. Location of sample - off centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round. 10. Marking details - Company Logo, Size, Grade & Heat No. 11. The material is manufactured / melt in Chandan Steel Mill and is of Indian Origin. BUNDLE NO.: 17, 20, 24 to 29 COLOUR : GREEN														

Intended use : Building construction or civil engineering.

Regulated substance : No performance determined.

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

D.O.P. No.: 1.4404/ROUND BAR

D.O.P. can be seen here: www.chandansteel.net

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