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 Works: SURVEY No- 114, 119 & 120, VILL. Mahagaon, Tal: Palgar, Dist: Thane-401501, MAHARASTRA, INDIA, vielqc@viraj.com

**TEST CERTIFICATE**

<b>ORDER NO</b>	<b>PACKING LIST NO</b>	<b>INSPECTION NO</b>	<b>DATE</b>
PO#2657	51/960837/7	100003209119	03.11.2013
		<b>GRADE</b>	<b>HEAT No</b>
		316/316L	31038

**BUNDLE NO :**  
1100080399,

**DESCRIPTION**  
STAINLESS STEEL BRIGHT BARS

**PEELED & POLISHED**

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
4"	ROUND	ASTM A484	12' - 14'	2	1,199.000 LB

**CHEMICAL ANALYSIS**

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0280	1.510	0.370	0.0210	0.0370	16.510	10.070	0.470	2.010	0.150	0.0740

**TEST RESULTS**

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction of Area %	Hardness BHN	Grain Size NOS
40.0	84.0	59.0	72.0	172.0	6.0

**SPECIFICATION:**

MATERIAL CONFIRMS TO DIN EN 10088-3:2005: 1.4401/1.4404, EN 10222-5 AND EN 10272 COND-A & ASTM A182/A-182M-11, A276-13 COND A, A479/A479M-13 COND A, A193/A193M-11a B8M CL-1, A320/A320M-11a B8M CL-1, A484-11, A388/A388M-05, ASME SA182-04, SA479-04, SA 193-04 B8M CL-1, SA320-04 B8M CL-1, ASTM A314-2008, IGC SATISFACTORY AS PER ASTM A 262-10 PRACTICE E, AMS 5648J / AMS 5653F (EXCEPT MARKING), QQ-S-763F, NACE MR0103, NACE-MR0175-2003, SAE-AMS-S-7720A, MIL-S-862 B, AISI 316/316L & UNS#S31600/S31603, CERTIFICATION AS PER EN 10204-3.1.

**REMARKS**

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO-FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES, MACRO:GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 01 HRS, WATER QUENCHED, MELT SOURCE:AOD, WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

  
WORKS INSPECTOR  
K R K MURTHY