

BSL**SPECTRO LAB**CERTIFICATE NO.
T - 1452 & T- 1453**METALLURGICAL TESTING CENTRE**

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

TEST REPORT**WORKS & OFFICE :**

PLOT NO. 263, SECTOR-24

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BSL/SPECTRO/5.10F-01/01/00

Issued to : M/s. Nov Sara India (P) Ltd. Report No. 164581 D.O.T. : 11.03.2011
7/1, Pritam Road, Unit - II,
Dehra Dun - 248001 Ref. No. Nil D.O.R. : 07.03.2011

Sample Description Sample No. - 5739, Heat No. - D-0885 J.O. No. : 49766

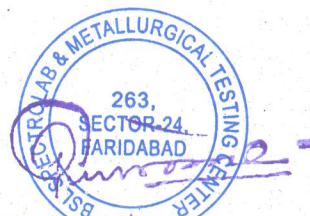
RESULTS**Chemical Analysis** (Fe Base - LAS)

Sample ID; J.O.No. - 49766/10

Protocol : ASTM E 1507 (By O.E.S)

<u>Element</u>	<u>%</u>
Carbon	0.074
Silicon	0.582
Sulphur	0.017
Phosphorus	0.038
Manganese	0.982
Nickel	10.12
Chromium	16.23
Molybdenum	2.036
Vanadium	0.045
Copper	0.321
Tungsten	0.025
Cobalt	0.182
Aluminium	<0.01
Magnesium	<0.01
Titanium	0.275
Iron	69.06

Checked By

Authorised Signatory
(Q.M. / T.M.)

- Note :
1. The result listed refer only to the tested samples and applicable parameters, Endorsement of product is neither inferred nor implied.
 2. Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.
 3. *Not Covered under NABL Scope.
 4. This report can not be used as an evidence in a court of law.
 5. Samples will be destroyed after 15 days.
 6. Any Complaints about this report should be communicated within 7 days of issue of this report.
 7. This report shall not be reproduced except in full, without the written permission of the Laboratory.

**MATERIAL TEST CERTIFICATE**

TC NO-KSL-1916/10-11	Date : 09.02.2011	Customer : M/S NOV SARA
Heat No. D -0885		DHERADUN
Specification:- AISI -316	P.O. No.: B/KSE 0009,B/KSE0015	Invoice No: 639/640 Date 09.02.2011

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	Round Bar Dia 40 MM	240

CHEMICAL COMPOSITION

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	V
AS PER SPEC. Min. (%)						16.00	10.00	2.00				
Max. (%)	0.080	2.00	1.00	0.045	0.030	18.00	14.00	3.00				
Actual Value	0.069	1.32	0.054	0.034	0.027	16.66	10.21	2.14				

HEAT TREATMENT

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	Y.S. N/mm2	U.T.S. N/mm2	ELONG % GL mm	REDN IN AREA %	BEND	HARDNESS BHN	IMPACT (Joules)
AS PER SPEC. Min.							
Max.							
Actual Value							

We hereby certify that the items mentioned above have been tested and inspected in our presence and are found to be in accordance with the drawing, specifications, and purchase order.

REMARK

The Steel has been made by Electric Furnace which is fully killed by Al & Si. It has fine grain structure.

Sign of the Inspecting Officer

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Sign of the Chief of Quality Control

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