

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

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

Issued to : M/s. Nov Sara India (P) Ltd.
7/1, Pritam Road, Unit - II
Dehra Dun - 248001

Report No. 144091

D.O.T. : 21.05.2010

Ref. No. Nil

D.O.R. : 19.05.2010

Sample Description S.No-4793, Ingot - 4"X5" (Heat No-D-0194)

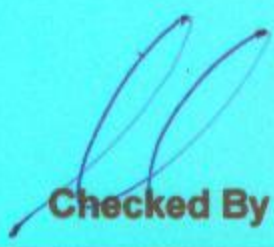
J.O. No. : 44289

RESULTSChemical Analysis

Sample ID; J.O.No. - 44289/5

By Spectrometer (ASTM E1507;1998)

<u>Element</u>	<u>%</u>
Carbon	0.061
Silicon	0.357
Sulphur	0.016
Phosphorus	0.030
Manganese	1.121
Nickel	10.120
Chromium	16.390
Molybdenum	2.012
Vanadium	0.052
Copper	0.418
Tungsten	0.055
Cobalt	0.175
Aluminium	<0.01
Titanium	<0.02
Iron	69.17



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-1135 / 10-11	Date : 15.5.2010	Customer : NOV SARA
Heat No. D 0194		
Specification:- SS 316	P.O. NO.: B/KES/257/10	Dtd.:- 03.05.10

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	S S 316 INGOTS 4X5"	52

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. (%)	0.08	2.00	1.00	0.045	0.030	18.00	14.00	3.00				
Actual Value	0.067	1.74	0.56	0.033	0.019	16.58	10.16	2.09				

HEAT TREATMENT

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	Y.S. N/mm ²	U.T.S. N/mm ²	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, and is fully killed / killing has been done 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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