

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 :

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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.	166603	D.O.T. :	11.04.2011
		Ref. No.	Nil	D.O.R. :	09.04.2011
Sample Description	Sample No. - 5919, Heat No. - D-0912,			J.O. No. :	50353

RESULTS

Chemical Analysis (Fe Base - LAS)
Protocol : ASTM E 1507 (By O.E.S)

Sample ID; J.O.No. - 50353/2

<u>Element</u>	<u>%</u>
Carbon	0.057
Silicon	0.386
Sulphur	0.018
Phosphorus	0.033
Manganese	1.287
Nickel	10.23
Chromium	16.64
Molybdenum	2.043
Vanadium	0.065
Copper	0.378
Tungsten	<0.02
Cobalt	0.236
Aluminium	0.042
Magnesium	<0.01
Titanium	<0.02
Iron	68.57

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.



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Atul 09953134669

KESRI STEELS
LIMITED

MATERIAL TEST CERTIFICATE

TC NO-KSL-2017/10-11	Date : 09.03.2011	Customer : M/S NOV SARA
Heat No. D -0912		DHERADUN
Specification:- AISI -316	P.O. No.:	Invoice No: 715 & 716 Date 07.03.2011

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	ROUND 56 MM	85

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		0.064	1.41	0.51	0.037	0.024	16.44	10.11	2.16				

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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