

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

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

**TEST REPORT**

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

Issued to :	M/s. Sara Sae (P) Ltd. 7/1, Pritam Road, Unit - II Dehra Dun - 248001	Report No.	199898	D.O.T. :	07.09.2012
		Ref. No.	Nil	D.O.R. :	05.09.2012
Sample Description	Sample No. - 7953, Heat No. - 3989,				J.O. No. : 61913

**RESULTS**

**Chemical Analysis** (Fe Base - LAS)  
Protocol : ASTM E 415:2008 (By O.E.S)

Sample ID: J.O.No. - 61913

<u>Element</u>	<u>%</u>
Carbon	0.080
Silicon	0.253
Sulphur	0.019
Phosphorus	0.019
Manganese	0.403
Nickel	0.005
Chromium	0.007
# Molybdenum	0.001
# Vanadium	0.006
Copper	0.019
# Tungsten	0.001
Cobalt	0.004
Aluminium	0.022
# Titanium	0.000
# Boron	0.000
# Lead	0.001

Checked By



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.

8. # Results found outside the range of NABL accredited scope.

**RASHTRIYA ISPAT NIGAM LIMITED**

SAE1008

Quality Assurance &amp; Technology Development Department, Visakhapatnam

Page: 1 of 1

**TEST CERTIFICATE**

Product/Size :	90X90 mm Billets	
T.C.No.:	QMS/R/QAD/RM/20/M001665 - 1	Dt. 01/09/2012
Order No.	EMSC293010038	
Invoice No.:	2012001200	
Wagon/Truck No.:	PB29K 9123	Invoice Wt. (T): 18.150

HEAT NO	203989
No Of Pcs/Bundles	2
C %	0.04
Mn %	0.40
P %	0.025
S %	0.015
Si %	0.180
Al %	0.038
C.E. (IF APPLICABLE)	0.11
YS (N/mm <sup>2</sup> )	NA
TS ( N/mm <sup>2</sup> )	NA
%EL	NA
%RA	NA
OTHERS	NA
BEND TEST	
GRADE	SAE1008

AVERAGE WEIGHT OF EACH BUNDLE IS 9.075 TONS APPROXIMATELY  
 The material supplied conform to the standard rolling and weight tolerances.

for HOD QA S. LTD  
 Visakhapatnam Steel Plant

**RASHTRIYA ISPAT NIGAM LTD.**  
 (A GOVT. OF INDIA ENTERPRISE)  
 1st Floor, 27-E.C. ROAD  
 DEHRADUN-248 001