

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. Sara Sae (P) Ltd.
7/1, Pritam Road, Unit - II
Dehra Dun - 248001

Report No. 6035

Ref. No. Nil

Sample Description : Sample No. - 8516, Heat No. - 221884, RCS - 90.0mm

D.O.T. : 06.07.2013

D.O.R. : 04.07.2013

J.O. No. : 1595

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

Sample ID; J.O.No. - 1595/1

<u>Element</u>	<u>%</u>
Carbon	0.096
Silicon	0.134
Sulphur	0.012
Phosphorus	0.024
Manganese	0.467
# Nickel	0.004
# Chromium	0.010
# Molybdenum	0.002
# Vanadium	0.001
# Copper	0.036
# Tungsten	0.002
# Cobalt	0.001
Aluminium	0.028
# Titanium	0.000
# Boron	0.000
# Lead	0.002

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

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RASHTRIYA ISPAT NIGAM LIMITED

SAE1008

VISAKHAPATNAM STEEL PLANT

Quality Assurance & Technology Development Department, Visakhapatnam

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TEST CERTIFICATE

Product/Size :	90X90 mm Billets	Customer :
T.C.No.: QMS/R/QAD/RM/20/M001238 - 1	Dt. 27/06/2013	SARA SAE PRIVATE LIMITED UNIT -
Order No. EMSB376010024		DEHRADUN
Invoice No.: 2013000462		
Wagon/Truck No.: PB10AZ6377		Invoice Wt. (T): 11.890

HEAT NO	221884
No Of Pcs/Bundles	2
C %	0.07
Mn %	0.43
P %	0.022
S %	0.009
Si %	0.250
Al %	0.043
C.E. (IF APPLICABLE)	0.14
YS (N/mm ²)	NA
UTS (N/mm ²)	NA
%EL	NA
%RA	NA
OTHERS	NA
BEND TEST	
GRADE	SAE1008

AVERAGE WEIGHT OF EACH BUNDLE IS 5.945 TONS APPROXIMATELY

The material supplied conform to the standard rolling and weight tolerances.

for HOD(QA & TD)
Visakhapatnam Steel Plant

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