

**BSL****SPECTRO LAB****METALLURGICAL TESTING CENTRE**(A Unit of BSL Castings Pvt. Ltd.)  
(NABL ACCREDITED LAB)

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CERTIFICATE NO.  
T - 1452 & T - 1453**TEST REPORT**

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

Issued to :	M/s. Sara Sae Pvt. Ltd.	Report No.	211797	D.O.T. :	25.03.2013
	7/1, Pritam Road, Unit - II,	Ref. No.		D.O.R. :	
	Dehra Dun - 248001		Nil		25.03.2013
Sample Description. :	Sample No. - 8343, Heat No. - 212072, Dia - 56.0mm			J.O. No. :	65280

**RESULTS**

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

Sample ID: J.O.No. - 65280/4

<u>Element</u>	<u>%</u>
Carbon	0.065
Silicon	0.276
Sulphur	0.024
Phosphorus	0.025
Manganese	0.412
# Nickel	0.001
# Chromium	0.007
# Molybdenum	0.002
# Vanadium	0.000
# Copper	0.002
# Tungsten	0.001
# Cobalt	0.001
Aluminium	0.036
# Lead	0.000
# Titanium	0.000
# Boron	0.000

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.

## RASHTRIYA IRDAI NIGAM LIMITED

SARASWATI

VISAKHAPATNAM STEEL PLANT

Quality Assurance &amp; Technology Development Department, Visakhapatnam

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## TEST CERTIFICATE

Product/Size :	56 mm Round	Customer :
T.C.No. : QMS/R/QAD/RM/15/M005310 - 4	Dt. 02/04/2013	SARA SAE PRIVATE LIMITED UNIT - II DEHRADUN
Order No. : EMP3205009020		
Invoice No. : 2012002878		
Wagon/Truck No. : UK07CA1044		Invoice Wt. (T) : 1.410

HEAT NO	212072
No Of Pcs/Bundles	1
C %	0.07
Mn %	0.46
P %	0.030
S %	0.011
Si %	0.260
Al %	0.035
C.E. (IF APPLICABLE)	0.15
YS (N/mm <sup>2</sup> )	283
UTS ( N/mm <sup>2</sup> )	429
%EL	29
%RA	NA
OTHERS	NA
BEND TEST	
GRADE	SAE1008

AVERAGE WEIGHT OF EACH BUNDLE IS 1.410 TONS APPROXIMATELY

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

for HOD(QA & TD)  
Visakhapatnam Steel Plant

*J. Venkateswara*

RASHTRIYA IRDAI NIGAM LTD.  
(A GOVT. OF INDIA ENTERPRISE)  
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DEHRADUN-248001  
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