



Sample Res

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9174 (311933)	UNKNOWN	Thursday, January 30, 2014	4:08:02 PM	Measured
Method Name	Method Version	Operator Name	Check Type	Check Status
ES-10.MD		SARA SAE	None	Not Used
Grade Verification Name	Grade Verification Similarity	Correction Type	Type Corr Sample Name	Grade Search Name
		None		
Grade Search Similarity	Type	Status	Outlier Removal	
0	None	Not Used		
Sample Name	Grade			
9174 (311933)				

	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co	Cu	Nb	Ti	V	W	Pb	Sn	As	Zr
	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
3	0.069	0.11	0.32	0.011	0.003	<0.005	<0.003	0.006	0.003	<0.005	<0.002	<0.005	<0.0010	<0.002	<0.040	<0.010	<0.002	<0.005	<0.00
4	0.076	0.12	0.32	0.013	0.004	<0.005	<0.003	0.012	0.013	<0.005	<0.002	<0.005	<0.0010	<0.002	<0.040	<0.010	<0.002	<0.005	<0.00
6	0.067	0.12	0.31	0.015	0.004	<0.005	<0.003	0.023	0.012	<0.005	0.002	<0.005	<0.0010	<0.002	<0.040	<0.010	<0.002	<0.005	0.003
Rep	0.071	0.12	0.32	0.013	0.004	<0.005	0.003	0.014	0.010	<0.005	0.002	0.005	<0.0010	0.002	<0.040	<0.010	0.002	0.005	0.003
Min Cal	0.006	0.005	0.004	0.003	0.002	0.005	0.003	0.005	0.003	0.005	0.002	0.005	0.0010	0.002	0.040	0.010	0.002	0.005	0.003
Mean	0.071	0.12	0.32	0.013	0.004	<0.006	<0.006	0.014	0.010	<0.006	<0.002	<0.037	<0.008	<0.008	<0.11	<0.001	<0.003	<0.005	<0.00
Max Cal	3.00	5.04	18.12	0.18	0.30	36.00	10.20	55.2	6.24	21.60	7.44	3.60	3.60	12.00	7.32	0.13	0.27	0.13	0.19
	Ca	B	Fe																
	Conc	Conc	Conc																
	%	%	%																
3	0.003	<0.0005	99.4																
4	0.005	<0.0005	99.4																
6	0.003	<0.0005	99.4																
Rep	0.004	<0.0005	99.4																
Min Cal	0.0005	0.0005																	
Mean	0.004	<0.0007	99.6																
Max Cal	0.016	0.025																	

24 in
1600 h/mph
@ 200 psi

2/7/2014

Sample Results



RASHTRIYA ISPAT NIGAM LIMITED

14083

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/T/QAD/RM/20/M006535	2	Dt. 27/01/2014
Order No.	RMSD271012015	SARA SAE PRIVATE LIMITED UNIT - I
INVOICE NO. :	2013002189	DEHRADUN
Wagon/Truck No. : 07111 0393		Invoice Wt. (T) : 24.620

HEAT NO	311933
No OF	3
Pcs/Bundles	
C %	0.07 ✓
Mn %	0.40 ✓
P %	0.019 ✓
Si %	0.014 ✓
Al %	0.200 ✓
Al %	0.022 ✓
C.B.	0.14
(IF APPLICABLE)	
YS (N/mm ²)	NA
UTS (N/mm ²)	NA
REL	NA
MPA	NA
OTHERS	NA
BEND TEST	
GRADE	SAE1008

OK
in 1008
Defect
27/01/14

AVERAGE WEIGHT OF EACH BUNDLE IS 8.207 TONS APPROXIMATELY

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

For HOD(QA & TD)
Visakhapatnam Steel Plant