

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9545 (H.NO-212626)	Unknown	Tuesday, June 10, 2014	3:15:08 PM	Measured
Method Name	Method Version	Operator Name	Check Type	Check Status
Fe-30-MO		SARA SAE	None	Not Used
Grade Verification Name	Grade Verification Similarity	Correction Type	Type Corr Sample Name	Grade Search Name
	0	None		
Grade Search Similarity	Type	Status	Outlier Removal	
0	None	Not Used		

Sample Name
9545 (H.NO-212626) BX-152 LCS

	C Conc %	Si Conc %	Mn Conc %	P Conc %	S Conc %	Cr Conc %	Mo Conc %	Ni Conc %	Al Conc %	Co Conc %	Cu Conc %	Nb Conc %	Ti Conc %	V Conc %	W Conc %	Pb Conc %	Sn Conc %	As Conc %	Zr Conc %
1	0.048	0.093	0.47	0.036	0.025	0.070	<0.003	0.044	0.020	<0.005	0.061	<0.005	<0.0010	<0.002	<0.040	<0.010	0.007	<0.005	<0.003
2	0.042	0.093	0.47	0.039	0.023	0.068	<0.003	0.043	0.021	<0.005	0.058	<0.005	<0.0010	<0.002	<0.040	0.010	0.007	<0.005	<0.003
3	0.042	0.090	0.46	0.037	0.024	0.068	<0.003	0.040	0.022	<0.005	0.056	<0.005	<0.0010	<0.002	<0.040	0.012	0.008	<0.005	<0.003
Rep	0.044	0.092	0.47	0.038	0.024	0.068	0.003	0.042	0.021	<0.005	0.059	<0.005	<0.0010	<0.002	<0.040	0.011	0.007	<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	0.044	0.092	0.47	0.038	0.024	0.068	<-0.006	0.042	0.021	<0.004	0.059	<-0.021	<-0.006	<-0.003	<-0.047	0.011	0.007	<0.004	<0.0009
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 Conc %	B Conc %	Fe Conc %																
1	0.003	0.001	99.0																
2	0.003	0.001	99.1																
3	0.003	0.001	99.1																
Rep	0.003	0.001	99.1																
Min Cal	0.0005	0.0005																	
Mean	0.003	0.001	99.2																
Max Cal	0.016	0.025																	

OK in 1003
Defect Grade



RASHTRIYA ISPAT NIGAM LIMITED

SAE1010

Quality Assurance & Technology Development Department, Visakhapatnam

TEST CERTIFICATE

Bx-152 1000 Pcs.

Product/Size :	50 mm Round	Customer :
T.C.No.: QMS/R/QAD/RM/15/M006003 - 2	Dt. 11/01/2013	GUJARAT STEEL & PIPES
Order No. EMP2301011008		KANBHA
Invoice No.: 2012009195		
Wagon/Truck No.: GJ10Z6211		Invoice Wt. (T): 17.720

HEAT NO	212626
Of Bundles	2
C %	0.11
Mn %	0.41 ✓
P %	0.031 ✓
S %	0.014 ✓
Si %	0.180 ✓
Al %	0.033 ✓
C.E. (IF APPLICABLE)	0.18
YS (N/mm ²)	263
UTS (N/mm ²)	382
%EL	32
%RA	NA
ERS	NA
BEND TEST	NA
GRADE	SAE1008

AVERAGE WEIGHT OF EACH BUNDLE IS 8.860 TONS APPROXIMATELY
The material supplied conform to the standard rolling and weight tolerances.

for HOD (QA & TD)
Visakhapatnam Steel Plant

Carbon Equiv. 0.017

[Signature]
7/6/14