

BSL



BHUPENDRA STEELS (P) LIMITED

SPECTRO LAB & METALLURGICAL TESTING CENTRE

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TEST REPORT

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

M/s. Sara Services & Engineers (P) Ltd
7/1, Pritam Road, Division - II,
Dehra Dun - 248001

Report No.	62626	D.O.T. :	24.09.2006
Ref. No.	227	D.O.R. :	24.09.2006
		J.O. No. :	26256

Description Heat No. -B-84

RESULTS

Chemical Analysis

Sample ID; J.O.No. - 26256/2

By Spectrometer (ASTM E1507;1998)

Element	%
Carbon	0.100
Silicon	0.149
Sulphur	0.011
Phosphorus	0.018
Manganese	0.492
Nickel	<0.05
Chromium	<0.05
Molybdenum	<0.05
Vanadium	<0.04
Copper	0.065
Tungsten	<0.02
Cobalt	<0.03
Aluminium	0.018
Titanium	<0.02
Iron	98.37



Checked By

Authorised Signatory

The result listed refer only to the tested samples and applicable parameters, Endorsement of product is neither inferred nor implied.

Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.

This report can not be used as an evidence in a court of law.

Samples will be destroyed after 15 days.

Any Complaints about this report should be communicated within 7 days of issue of this report.

This report shall not be reproduced except in full, without the written permission of the Laboratory.

*Not Covered under NABL Scope.



SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.

E-mail : sharusteels@connect2.dsl.net

AN ISO - 9001 : 2000 CERTIFIED COMPANY

QUALITY ASSURANCE DEPARTMENT

METALLURGICAL TEST REPORT

F-QCD-03

JAS-ANZ



ISO-9001 : 2000

REG. NO. : R91/1413

Customer Address : SARA SERVICES & ENGINEERS PVT. LTD.
DEHRA DUN (U.A.)

Date : 14-09-2006

TEST RESULTS

CERTIFICATE NO. :

1186/09-2006

GRADE :

SIZE :

INGOT

SAMPLE NO. :

1

HEAT NO. :

S 84

COLOUR CODE :

QTY/NO. OF BARS

MULTIPLE/FIX LENGTH

A. CHEMICAL ANALYSIS :

C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Ti	B
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Spec : Low-High

0.09 0.38 0.029 0.028 0.22

Obtained

METALLOGRAPHIC CHARACTERISTICS :

Inclusion Rating :	A	B	C	D
(In accordance with IS : 4163)	Thin Thick	Thin Thick	Thin Thick	Thin Thick

Grain Size : High Low

(In accordance With IS : 4748)

C. MACRO RESULTS :

(In accordance With ASTM E-381)

D. JOMINY HARDENABILITY : (In accordance with IS : 3848)

E. OTHER SPECIAL TESTS :

F. MECHANICAL PROPERTIES :

Tensile Strength	Yield Strength	% Elongation	% Area Reduction	Impact Horizontal/ Vertical	Hardness High/ Low
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REMARKS :