Web Site: www.sunflagsteel.com E-mail: admin@sunflagsteel.com Regd. Off.: (0.712) 2524661 Works: (0.7484) 285551 CIN: L27100MH1984PLC034003

## SUNFLAG IRON & STEEL CO. LTD.

Regd. Office: 33, Mount Road, Sadar, Nagpur - 440 001 India Works: Bhandara Road, Bhandara - 441 905 (Maharashtra)

## TEST CERTIFICATE



REMARKS :100% SPARK/	ACTUAL 1.00 - 0	SPEC-MIN   -   -     -	IN CLUSION A T A H B	ACTUAL -  -	SPEC-MIN   -   -	AS   PS/YS		ACTUAL   0.17   0.84   0.	SP-MIN   0.17   0.55   - -MAX   0.23   0.90   0.	%C   %Mn   %		RF/14/D-401/150 R-05	CUSTOMER SPECIFICATION NO.	
SPARK/SPECTRAL: OK. STEP DOWN	0.50 -   0.00 -   1.	.00 0.50 0.50 0.50	RATING (ASTM-E-45 / T   B H   C T   C H		1 1	As-Rolled / H.T.	MECHANICAL	0.0120 0.0060 0.2400 0	.030  0.030  0.35  1	%S1.		/28.10.2017	ON No.	
TEST:OK.U.S.T.	50 -  7/7.5	2.00 1.00   8	TIS:4163)   GRAIN		<del>-</del> <del>-</del> <del>-</del> -	RA (IZOD/CHARPY)	CAL PROPERTIES	0.0060 0.2400 0.9700 0.0150 0.0100 0.0020	1.05   0.25   0.25   0	%Cr   %Cu   %Ni		07861 SCR420H	HEAT GRADE	
(100%):OK.M.P.T.	OK	OK	SURFACE	158	240	HARDNESS   		0.0060	0.06   0.02	%WO   %V	0	RND-56	SECTION IN (mm)	MBF-1
(100%):OK.	I .		QUENCH HARDNESS ()	METALLURGICAL	1 1	DI   CE  VALUE   VALUE 		0.0260 -	0.020  -	%A1   %Pb	CHEMICAL COM	PURPLE+BLUE	GR COLOUR	MBF-EAF-LRF-VD-CCM-RM
We ce			JISO	PROPERT	40.0   37.0	J1.5   J3		0.0026 0.0002	0.020   0.0006   0.02	%Ti %B	COMPOSITION	LUE	GRADE UR CODE	CCM-RM
certify that the		1 1	JISG0555 =	34.0 -  30.0	37.0 - 29.0	   J5   J6   J7 	JOMINY VALUE	2 0.0011 -	6 0.02	W% nS%		160x160 AS ROLLED	BLT/BLM   SIZE(mm)	DELIVERY OR
the material des	0.000  -	1	DEC	26.0  -	1 1	J9   J10	VALUE (MM -	0.0045	0.01	%As %Ca		ROLLED	SUPPLY CONDITION	DER NO.:
described above c	0.26   0.26	1 1	DECARBURIZATON (MM) Full Partial  Total	23.0   21.0   19.0	32.0  -  -	J11   J13   J15	HRC)	0.0007 -	0.010	a %Sb %Co			TION	
conforms to the	C2R1S1	C2R2S2	MACRO ETCH R RESULTS ASTM-E-381	0  17.0  14.0	1 1	.5   J20   J25		0.0030 13		%Nb   02		5.200	LENGTH NO.OF	TRUCK NO. : CG04JE0323
specs.	10.40	6:1	EDUCTION	0  11.0	1 1	5 — J30		76 1.00		N2   H2   ppm   ppm		26.450	NO.OF  QTY PIECES  (MT)	)323



Symmetry (X)

For Sunflag Iron & Steel Co. Ltd.