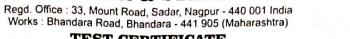
Web Site: www.sunflagsteel.com E-mail: admin@sunflagsteel.com Regd. Off.: (0712) 2524661 Works: (07184) 285551 CIN: L27100MH1984PLC034003

SUNFLAG IRON & STEEL CO. LTD.

TEST CERTIFICATE







CUSTOMER: SSB ENGINEERS (P) LTD								PROCESS ROUTE								TC NO. :0169873 INVOICE NO.:242709650						:23.06.2 :23.06.2						
l light								- 1		EAF-	-LHF-VD	-CCM	(M-EMS	5) -RM		DEI	LIVERY	ORDER 1	NO.:813	38097	TR	UCK NO.	: UP94T91	77				
CUSTOMER SPECIFICATION NO. HEAT NO									GRADE		SECTION IN (mm)		GRADE COLOR CODE			E		BLT/BLM SIZE		SUP	PLY CO	Y CONDITION			LENGTH (Mtrs)		s Q1	QTY (MI)
SSB:20MNCR5B:A/C M/S HGL / 21.09.2019 50988							88	20MNCR5		RND-90		HALF BLUE+HALF ORANGE			E	280x32	280x320		LED					6.000			22.160	
1	1											C	HEMICA	L COM	POSI	rion												
11111	%C	1	%Mn	%P	85	S S	si	%Cr	%Cu	%Ni	%Mo	%V	%Al	%Pb	%Ti		В %	Sn	%W	%As	%Ca	%Sb	%Co	%Nb	%02 ppm	1		%H2 ppm
SP-MIN	0.1	, ,	1.00		0.0	20		1.00	_			_	0.020			_	_	-	-	-	-	-	-		-	-	90	-
-MAX	0.2		1.40	0.025			0.40	1.30	0.25	0.2	25 0.10	-	0.050	-		-	- (0.03	-		-	0.006	-		_	20	170	2.0
ACTUAL	1										0 0.0720	-	0.0260	_		-	- 0.0	0010	-	-	-	0.0006	-		-	10	113	0.90
									ROPERT												JOM	INY V	ALUE					
Property of	AS ROLLED / H.T.						IMPACT			HARDNESS		DI	0	Œ	J1.5	J3	J5	J6	J7	J9	J10	J11	J13	J15	J20	J25	J30	
	PS/YS			UTS %EL			*RA	(IZOD/CHAR		PY) (BHN)		VALUE VALU		LUE														
SP-MIN			-		-		-				-	-		-	-	-	43.0	40.0	-	39.0	-		38.0	-	34.0	32.0	-	30.0
-MAX	-		-	-			-		-		- 240			-	-	-	48.0	45.0	-	44.0	_	_	41.0		39.0	37.0		34.0
ACTUAL			-		-		-				- 17	201		-	-	46.0	44.0	43.0	-	42.0	40.0	-	39.0	37.0	35.0	33.0	31.0	30.0
												META	LLURG	CAL E	ROPE	RTIE	ES											
	INCI	LUSIC	ON RAT	RATING (ASTM-E-45 / IS				.63)	GRAIN SIZE (ASTM-E-112)		SURFACE QUALITY		QUENCH HARDNESS		3	i ii	JISG0555		-	D	ECARBU	JRIZATIO	ON (MM)	МА	CRO ET	СН	REDUC	
	АТАН		ВТ	вн	СТСН		DT DH				}		()		đ	IA	dB+dC		D	FUL	FULL PARTIA		TOTAL		RESULTS			
SP-MIN				-	- 1			6 -		- 10 - 10			-		-		-	-			-		-		6:1			
-MAX			-	-	_	-	_			8 -						-			-				- C2		R2S2		-	
ACTUAL		_	-	_	-	-	-	7-		7.	.5	-	1			- E		-	0.0	00	-	0.28	0.2	8	Cli	RISI		14.09

REMARKS: 100% SPARK/SPECTRAL:OK.U.S.T. (100%):OK.M.P.T. (100%):OK.

AL/N2 = 2.30 K4 = 12.7 M.S. = FERRITE+PEARLITE+TRANCES

OF BAINITE , CU+10 SN = 0.16

We certify that the material described above conforms to the specs.

For Sunflag Iron & Steel Co. Ltd.

Mr. Samadhan Jadhav