## SUR Metaliks Limited Sy.No.632, Narayanadevarakere, H.B.Halli, Tq. Bellary District, 583 222



## TEST CERTIFICATE

			1 (1)	*	Min	Max	Actual	II. P			Min	Max	Actual	IV.			Spec	Actual	17	1.0	2.1	3. B	4.1	6.	1		1	1				
		DANA S	L CHEMICAL COMPOSITION	C	0.150	0.200	0.174 0.220	II. PHYSICAL PROPERTIES		YS (MPa)	930		10	IV. METALLOGRAPHY	Y I	10 10 10 10 10 10 10 10 10 10 10 10 10 1	2.0	r	VL REMARKS:	1. Dimension tolerence: as per IS 3739 Grade - 1	<ol><li>Microstructure: Ferrite + Pearlite.</li></ol>	3. Banding Ok As per UNI 8449	4. The material is comply with ROHS (Pb, Cd, Hg, C1+6) permissions minus.	6. Inspection Certificate as per EN10204:2004, type 3.1	'		'	1				
M/S S	C	pecificat	T COW	Σi	0.150	0.400		LPRO		S Pa)	8	İ	1030	LOGR	Incid	н	15	2.0	RKS:	n tolere	cture:	Ok As pe	rial is co	on Certif								
M/S SSB ENGINEERS PVT.LTD.LTD	CUSTOMER SPECIFICATION	DANA Specifications QF1001, Rev No.02, Dtd: 12.05.2020	POSITIO	N.	1.000	1.300	1.230 0.012	PERTIE	Tensile Properties (Quenched & Tempered) (IS 1608)	<u> </u>	н.	1:		VHAV	Inclusion Katting (ASIAT EAS STEMBOUR)	-	2.0	0.5		nce: as	errite +	NI 8	omply w	icate as								
B ENGINEERS PVT.	R SPEC	1001, Re	NO	7		0.020		S	Tensile Properties sed & Tempered) (	UTS (Mpa)	1230	1570	1265		P S	H	1.0	0.0	A COLOR	per IS 3	Pearlite	449	ith ROP	per EN				_	- <u>b</u>	_		
S PVT.L	TEICA1	V No.02		S	0.015	0.030	0.025		ropertic npered)	×			_		31.52	7	0.5	0.0		739 Gra	in		is (Pb,C	10204:2				-	TH.			
וס.נונ	NOI	, Dtd: 1		Q	1.000	1.300	1.233		(IS 160	ξΕ 2	7	•	13.8		C	H	0.5	0.0		de - 1			d,Hg,Cr	004, typ				75-4	Anil Kı	Prep		
		2.05.20		Mo	-	0.100	0.009		8	×.			)		5	1	16	1.0					ation.	e 3.1		4 5		3	ımar B V	ared By		
No.		20		3		0.300	0.023			% RA			2		<b>D</b>	н	1.0	0.0					ni SSIDIC		2	18 IS	角	Ġ,	ALGA!	100		
53,000				Ŋ	0.020	0.050	0.027							38/8		5	,	-				7	ç					۷,		-		
MB	HEAT NO.	49983	STEP ST	υΩ		0.300			(Ouen	nuli				· · · · · · · · · · · · · · · · · · ·		S		-												Ç.		
MBF-EOF-LRF-VD-CCM(ENIS-ANILC)-RNIS	NO.	983		Ç		0.0010	0.020 0.0004		Impact Test (Charpy) ched & Tem	V-Notch (	25	,	37.2		(As per	0									-	* 0	51	, c				
BEV				(ppm)	60.0	120.0	4 74.7		Impact Test (Charpy) Ouenched & Tempered)	null V-Notch (2mm) (Joules)			2		(As per DIN 50602)		113	220		100	1		Color.	0	5.	7 5	5.	A	L	/		
PROCESS ROUTE	GRADE	20MnCr5		(ppm)		2.50	1.17		2		4		Çu.,		)602)	5+0	, les	No.			Charle	The state of	1	1	1	E STATE	3:31	1	1	12		
TIO		4		(ppm)		20.0	15.3			iarde Mark	Min	Max	Actual	CASA!	6	().								1	1	3	112	/0		VAR		
	SIZE (mm)	50		8		0.0005	0.0004			- t	PA	1, 4			Grain Size	(ASTM E112)	5.8	7.5		i.			1	18	1		181	100/0	0	13		
No.		50 DIA		AIN2R atio	2.1	•	3.6		F	As Rolled (BHN)	٠	240	164-168		The second	2) AST			100						4	3	01	7				
(Brailey)	REI					•	toly.		Hardness			ř.	_	2000	(mm)	ASTM E-1077	0.60 Max	0.20					-			1	100	-		ACMARA. Reviewed or Tasting DA		
(mm)	REDUCTION	20.37:1	373											標準	207	19/6		Bet				-	I T		21			15	3	Kevie		
	Ž			V. OTI	V. OTI	V. OII V. OII ASTME			V. OTH	ACTOSÍTIV E	Y. OII	V. OII	V. OTH	Min Max Actual V. OTHER TES Macrostructure (ASTM E-381) CJ,R3,53 Max Better Than CR252	V. OT V. OT CARACTERIST	v. OTI	2,R3,S3 er Than	J. To	-	7		141.6	K	4	ruthyun	wed & I						
	E				i.	-	•	1	14652		Min	Max	Actual	HER TE	ıcture	-381)	Max	CZRZS						1			Ĭ,		Jaya	ssued By		
	LENGTH (mm)	5770+40	NI NI		٠	•		MOF 'III		J1.5	41.0	46.0	44.0	STS	6								Cle 1	73		80		Echimotory		-		
	(mm)	WW			•	,	•	NYHA		J5	38.0	44.0	41.6	M	Step Down	(IS 4075)	***	OX.		9	ďď.											
	AR Ber			entri Alles	Aresta VESS	The Control of the Co	E e	RDENA	1	J10	32.0	38.5	36.6		3								si lu	The second	200	72 7	-89°					
As Rolled				1000 1000 1000 1000	10	7	1	INY HARDENABILITY (in HRC)		J15	29.0	35.5	33.5		Upset			1								0		P				
۵.	COL	Yell		· 通信	•	•	•	(in HR		J20	27.0	33.5	29.8	談	Ě										No.		\\$.			1 5		
A STATE OF THE PERSON NAMED IN	COLOUR CODE	Yellow + Brown			-		-	C)	(Distance Unit: mm ) (Standard: IS 3848)	J25	25.5	32.0	26.7						10000	100		er**						1.20		1919		
	JDE	UMC				nex*	TEAR.		e Unit:	J30	24.5	31.0	25.5	翻酒	100% Ba		150			1776			THE PERSON NAMED IN COLUMN	, Y				19,				
						ACC.	-56		mm) (s	-	•	•	Ŀ		rs Check	100%	,		7									1				
TC NO. 24081034	INVOICE	SE24Y-06564							tandard :	-7	•		-		ed by M	ars chec	laterial i															
	7500	06564		199	12	Tu k	100		15 3848 )		12/1				1-Found	ked for N	s free fro						=					CE	2	Author		
	0														ked by MPI - Found OK & Material is free from	100% Bars checked for Mix-Up by PMI & Spark - Found OK	Material Is free from Radioactive contamination	-210 1 <sub>2</sub> ?-	地位	170		B 1		Q E		0.3		The same	njan Das	80 00		
4	QTY (MT)/	31.Z90 /15										Ė	Ľ		laterial i	PMI &	ctive co						W.	n t					4	CI.V	3 1	
2010	7							10 m		• ,					s free fro	Spark - F	ntamina		9/8								1			ŀ		
2		z		. 97									-		m surface	ound OK	tion															
24.08.2024	VEHICLE	NL01Q2919		1536 836	•		7		<u> </u>	. 6				671 478 681	100% Bars Checked by MPI - Found OK & Material is free from surface defects	•																
4	E	19	TON I	NS.		,			1			1	<u> </u>	100	6										-							