

## SLR METALIKS LIMITED

Sy.No.632, Narayanadevarakere, H.B.Halli, Tq. Bellary District, 583 222



## TEST CERTIFICATE

		2110	7	א ממ	AME					Joaq	ם סספו	O11171	社会生活	BI	BLOOM SIZE	SIZE				1				1	5		INVOICE NO.	E NO.		DATE	
		COS	PA O IV	COSTONIEW MAINE	TATE				d V	2027	PROCESS ROUTE	HIO.			(mm)			SU	ATAG	SUPPLY CONDITION	TION			TONO.	30.					71111	
	N/S	SSB E	NGIN	M/S SSB ENGINEERS PVT.LTD	PVT	LTD.			MB	MBF-EOF-LRF-VD-CCM(EMS- AMLC)-RMS	AMLC)-RMS	LMS	EMS-		200×200	ŏ			As	As Rolled		4	-	25030094	0094		SE24Y-16358	-16358	03-1	03-Mar-2025	<u> </u>
4	cu	STOM	ER S	CUSTOMER SPECIFICATION	ICAT	NOI		H	HEAT NO.		GRADE		(mm)	RI	REDUCTION RATIO	NOL	LEN	LENGTH (mm)		COLO	COLOUR CODE	DE	۵	QUANTITY (MT)	M) YI	[]	BUNDLE	DLE	VEH	VEHICLE NO.	0
		H	lefer I	Refer Remarks	ks				54445		20MNCR5	_	70 DIA	-	10.39:1		5500 7	5500 TO 6000		Yellow	Yellow + Brown	nwo		5.270	70		03	3	RJ1	RJ19GF5010	6
I. CHI	1. CHEMICAL COMPOSITION	CON	(POS	NOIT												-0															
8	C	iS	Mn	Þ	P	ß	Cr	Мо		Ni '	Al A	Alsol	<	TI.	Cu	B	NP	Ca	As	dS	Sn	РЬ	W	Bi	Co	Zr	AIN2 Ratio	(ppm)	) (ppm)	n) (ppm)	F .
Min	0.150	0.150	1.000	00	_	0.015	1.000	- 0		- 0.0	0.020	1	'	<b>1</b>	'	1	1	'	'	' 	'			,	ι	•	2.100	-	60.0	,	
Max	0.200	0.400	1.300		0.020	0.030	1.300	0.100		0.300 0.1	0.050		'	· 0.	0.300 0.	0.0005	0	0.0010		1	'	1	1		1	ı	,	2.50	120.0	.0 20.0	0
ctual	0.183	0.241	1.230		0.015	0.022	1.230	0.006		0.018 0.0	0.027 0	0.024 0.	0.007 0	0.0031 0.	0.018 0.	0.0004 0.0007 0.0006	0007 0		0020 0	0.0020 0.0001 0.0009 0.0010 0.0001 0.0001 0.0056	.0009 (	0.0010	0.0001	0.0001	0.0056	0.001	3.100	) 1.21	87.2	2 15.1	
PHY	2. PHYSICAL PROPERTIES	PRO	PERT	ES					7									3. JON	IANI	3. JOMINY HARDENABILITY (in HRC)	VABILI	TY (in	HRC)								
	5)	T Quench	ENSI	LE PR Temp	(OPE	TENSILE PROPERTIES (Quenched & Tempered) ASTM A370	A370			IMPACT TEST ASTM E23	TEST M E23	н		н₄	HARDNESS	SS		JOMIN	SIG Y	JOMINY DISTANCE UNIT: mm (STANDARD: IS 3848)	UNIT:	mm (S'	TAND	RD: IS	3848)						
	YS MPa	a	נ	UTS Mpa	9	% EL	%	% RA	(Сы	(Charpy) (V-Notch 2mm) Joules	V-Notch Joules	2mm)		As Rolled (BHN)	N)				J1.5	J5	J10	J15	J20	J25	J30	1	1	ı		'	
Min	930	0	1	1230		7		'		25	5		Min		_			Min	41.0	38.0	32.0	29.0	27.0	25.5	24.5	'	'			·	L'
Max			1	1570	-	١,	-	'	i i		ľ		Max	240	-			Max	46.0	44.0	38.5	35.5	33.5	32.0	31.0	·			'	'	<u></u>
ctual	1130	0	1	1245		17.5	4.	45.2	- 1	45.8	00		Actual	163-168	168			Actual	43.3	41.6	33.7	31.3	28.3	26.3	25.2	1	'			·	
. ME	METALLOGRAPHY	GRAP	АН														5. 0	OTHER T	TESTS												
			ASTA	ASTM E45 Method A)	N RAT	NG A)			_	DIN RATING (As Per DIN 50602)	ATING IN 506	02)		GRAIN SIZE	DE	TOTAL DECARB	STRU	MACRO- STRUCTURE		DOWN	UPSET	1.	. 100%	Bars C	hecked	by U	100% Bars Checked by UT - Found OK	nd OK			
	Α		B		Ω	ם		DS							(i)	(mm)						2. de	<ol> <li>100%</li> <li>defects</li> </ol>	Bars C	hecked	by MI	7 - Fou	nd OK	100% Bars Checked by MPI - Found OK & free from surface fects	om surf	ace
	H	T H	н	н	н	н	н		ĽΩ		0	S+0		(ASTM E112)	ĦΑ	ASTM E-1077	(AST	(ASTM E-381)		(IS 4075)		1	00% B	ars chec	ked for	Mix-1	Up by F	3 % IMe	100% Bars checked for Mix-Up by PMI & Spark - Found OK	Found (	Š
Spec	2.0 1	1.5 2.0	0 1.0	0.5	0.5	1.0	1.0	' '			1			5-8	0.60r	$0.60\mathrm{mm}\ \mathrm{Max}$		C2,R3,S3 Max	×	1	1	7	<b>Iateria</b>	l is free	from r	adioac	tive cor	Material is free from radioactive contamination	tion		
ctual	1.0	0 0.5	5	0	0	0.5	0.0	'	, ,		7	1		7		0.20	Bett C:	Better Than C2R2S2		OK	1										
6. REI	REMARKS																														
1. 0	ıst Spe	c DA	NA S	pecif	icatio	ns Q1	₹1001	, Rev	No.0	1. Cust Spec DANA Specifications QF1001, Rev No.03, Dtd: 14.06.2024	14.06.	.2024				6.1	Materia	6.Material is conforming to the customer specification.	ıformi	ng to t	he cus	tomer	specifi	cation.							
,																1		•			1										_

Act

Act

2.Dimension tolerence: as per IS 3739 Grade - 1
3.Microstructure: Uniform Ferrite + Pearlite

7.Inspection Certificate as per EN10204:2004, type 3.1

5.The material is comply with ROHS (Pb,Cd,Hg,Cr+6) permissible limits.

Diwakar H
Prepared By

4.Banding is Ok As per UNI 8449

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Mallesh Naik M
Reviewed & Issued By

<sub>5</sub>.S.B

Authorised Signatory

AIIA