

## TEST CERTIFICATE

	S <sub>1</sub>	SCR						-			Sy.1	SLR METALIKS LIMITED Sy.No.632, Narayanadevarakere, H.B.Halli, Tq. Bellary District, 583 222	, Nara	M M	deva	ME'I'A	E	В.На	H.B.Halli, To	q. Bell	My L	MITEL lary District, 583	583	222	***									
1	fingered b	by Facacon			**								ت	<b>IEST</b>	LS		EF		CERTIFICA	CA	ATE											Ŋ,	400	
		CU	CUSTOMER NAME	ER	NAM	E					PRO	PROCESS ROUTE	HTU			BLOOM SIZE	nin)	ZΕ		CC	MAGIN	SUPPLY CONDITION	NOITIC			T	TC,NO.		INI	INVOICE NO.	O.			DATE
	M/S	SSB	ENGI	NEE	RS P	M/S SSB ENGINEERS PVT.LTD	Ü			MBF	-EOF-I	MBF-EOF-LRF-VD-CCM(EMS- AMLC)-RMS	-CCM(	EMS-		200	200×200				▶	As Rolled				25	25040434		SE	SE25Y-00517	517	7		14-Apr-2025
	CUS	MOTS	MER S	SPEC	IFIC.	CUSTOMER SPECIFICATION	Z		не	HEAT NO	V4.20	GRADE		(man)		REDUCTION RATIO	CTIC	ž	u) ET	LENGTH (meter)	The same	COL	COLOUR CODE	SODE		QUANTITY (MT)	ALLI	(TM)	3	BUNDLE	Е	VE		VEHICLE NO.
ΡĀ	DANA Specifications QF1001, Rev No.03, Dtd: 14.06.2024	cifica	tions 14.f	QF10 )6.202	)01, R	lev No	.03,D	řd:	-	55196	21	20MNCR5	-	80 DJA	A	7.	7.96:1	e Ty	5.50	5.50 - 6.00		Yell	Yellow + Brown	άwο:			4.810			03		JII		JH05DR7999
1. CHI	CHEMICAL	CO	COMPOSITION	SITIC	N																		74											
%	a	ıs	2	Mn	Ъ		S	Ç	Мо		N:	VI IV	۷ .	비	Ç.	В	Nb		Ca	As	4S	Sn	РЬ	W	Bi	Co	Zr	AIN2 Ratio	-	H2 (ppm) (	(ppn.)	(ppm)		5
Nito	0.150	0.150		1.000	,	0.015	Water Street	1.000			0.	0.020	'		1		,		1	,		'	•	1				2.10	10	'	60.0			
Max	0.200	0.400	_	1.300	0.020		0.030	1 300	0.100		0.300 0.	0.050	-	'	0.300	0.0005		0.0	0.0010	1		•	1		H.F	,	,			2.50	120.0	20.0		
ctual	0.180	0.270		1,230	0.014	0.019	-	1.220	0.011		0.022 0.	0.031 0.	0.007 0.0	0.0031	0.018	0.000	0.00	11 0.0	0.0004 0.0011 0.0006 0.0010		.0012	0.0012 0.0011 0.0010 0.0001 0.0001 0.0057	0.0010	1000.0	0.000	0.005	7 0.001	1 4.56		1.50	68.2	15.3	, ~	
2. PHY	PHYSICAL PROPERTIES	PRO	PERT	CIES				91												3. JO	ANIM	3. JOMINY HARDENABILITY (in HRC)	NABII	i) All	n HRC									
	<u>(2</u>	Tuench	ENSI	ILE P	ROP	TENSILE PROPERTIES (Quenched & Tempered) ASTM A370	ES [M A	370			MPAC AST	IMPACT TEST ASTM E23			=	HARDNESS	NESS			JOMI	אלם או	JOMINY DISTANCE UNIT: m/m (STANDARD: IS 3848)	E UNIT	) w'w ;	STAND	ARD: I	S 3848							
	YS MPa	2	2.0	UTS Mpa		% EL		% RA		(Cha	.ру) (V- Jo	(Charpy) (V-Notch 2mm) Joules	வா)		₽	As Rolled (BHN)					J1.5	J5	J10	J15	J20	J25	Ј30		1				1	
Min	930		1	1230		7		,			25	5		Min				,		Min	41.0	38.0	32.0	29.0	27.0	25.5	24.5	,	,	-	-	Ļ.	1 1	-
Max	1		1	1570				1	_					Max	^	240				Max	46.0	44.0	38.5	35.5	33.5	32.0	31.0			1	-	-	,	<b> </b>
ctual	1152	2	1	1261		15		45.5			46.5	.c.		Actual		167-173		0		Actual	43.0	41.0	33.0	29.6	28.1	26.3	25.4	-	-	-	-	-	1	-
ME	4. METALLOGRAPHY	RAP	AH																5. 0	OTHER '	S												16.	
			ASTA	USIO M E48	N RA	INCLUSION RATING (ASTM E45 Method A)	E 41			(A	DIN RATING S Per DIN 5060	DIN RATING (As Per DIN 50602)	2)		GRAIN		TOTAL DECARB	AIL RB	STRI	MACRO- STRUCTURE		DOWN	UPSET		1. 1009	100% Bars Checked by UT -	Checke	ed by t	JT - F	Found OK	×			
	A		B		C		D	DS									(mm)	)						0.12	2. 100% defects	2. 100% Bars Checked by MPI - Found OK & free from surface defects	Checke	d by M	PI - F	ound C	)K & fi	free fro	É	surf
	H T	H	中	H	н	H	н			ß		0	S+0		(ASTM E112)	~ <u>~</u>	ASTM E-1077	Z,	(AST	(ASTM E-381)		(IS 4075)			.00% в	100% Bars checked for Mix-Up by PMI & Spark - Found OK	cked fo	or Mix-	Up by	PMI	& Spa	ark - l	5	ınd
Spec	2.0 1.5	5 2.0	0 1.0	0 0.5	5 0.5	5 1.0	0 1.0	-	-	•		'	,		5 <mark>-</mark> 8		0.60 Max	Aax	C2,R3	C2,R3,S3 Max	×	•		ы	Materia (	Material is free from radioactive contamination	from	radioa	ctive o	ontam	inatio	Ē	l	
ctual	1.5 0.0	0 0.5	5 0.0	0.0	0.0	0 1.0	0.0	,		٠		'	-		7.5		0.21		Bett.	Better Than C2R2S2		OK											ı	
REA	6. REMARKS																																	
1. Di	Dimension tolerence: as per IS 3739 Grade	n tole	erenc	e: 25	per	IS 3	739 (	rade	1				T					6. 1	Inspec	Inspection Certificate as per EN10204:2004, type 3.1	ertifica	ate as 1	er EN	10204:	2004,	type 3	Þ						1	
2. Mi	Microstructure: Uniform Ferrite +	cture	e: Ur	iforr	n Fei	rrite	+ Pe	Pearlite											1			1											1	
3. Ba	Barding is Ok As per UNI 8449	is Ok	Asi	per [	NIS	3449		Ĭ				,										12/07	TRO (V										1	
4. Th	The material is comply with ROHS (Pb,Cd,Hg,Cr+6) permissible limits	rial i	s cor	nply	with	RO	HS (I	ъ,са	Hg,	Cr+6	) perm	issible	limits.	À							TV.	NO	E	0									ı	
5 M	Material is conforming to the customer specification.	S COI	ijorn	ning	to th	e cus	tome	r spe	cifica	tion.											В.	P	To the	K.			-						1	
					1	1 Was	18									. 7	Malled	The same	•		5.S.	DATE	3	(RA	174.		dis	W.						
					P A	Arshad Khan Prepared By	Khan d By									Revie	Mallesh Naik M Reviewed & Issued By	Naik I	d By		1			477		Aut	horisec	Authorised Signatory	огу	-			1	
:		1	-						-													74	_ >	1										