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No. :- TM/RGM/RMM

Date :07.2025

संख्या :- टीएम/आरजीएम/ आरएमएम

दिनांक :07.2025

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| II- मुख्य अभियंता (सी.पी.ओ.एच. कार्यशाला) अहमदाबाद | Chief Engineer (CPOH Workshop), Ahmedabad |
| III- मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन) | Chief Workshop Manager (Track Machines) |
| सी.पी.ओ.एच. कार्यशाला प्रयागराज, रायनापाड़ा, कंचरापारा | CPOH Workshop, Prayagraj, Rayanapadu, Kachrapara |
| IV- प्रधानाचार्य भारे.रे.प.म.प्र.के. पीपलगांव प्रयागराज - 211011 | Principal IRTMTC, PipalGaon, Prayagraj -211011 |

Detailed addresses are enclosed herewith.

विषय : रेल मिलिंग मशीन (लिनसिंगर) की क्रिटिकल स्पेयर पार्ट्स सूची।

Sub : Critical Spare Parts list for Rail Milling Machine (LINSINGER).

रेल मिलिंग मशीन (लिनसिंगर) की क्रिटिकल स्पेयर पार्ट्स सूची की मसौदा एवं अनंतिम क्रमशः पत्र सं टीएम/आरजीएम/आरएमएम दिनांक 10.02.2025 द्वारा 30 दिनों के लिये और टीएम/आरजीएम/आरएमएम दिनांक 16.05.2025 द्वारा 15 दिनों के लिये सभी क्षेत्रीय रेलवे, सी.पी.ओ.एच. कार्यशालाओं एवं भारे.रे.प.म.प्र.के. प्रयागराज को टिप्पणी हेतु जारी किया गया था जिसके उपरान्त अभी तक कोई टिप्पणी प्राप्त नहीं हुई है। अब रेल मिलिंग मशीन (लिनसिंगर) की क्रिटिकल स्पेयर पार्ट्स सूची अंतिम रूप में तैयार की गई है जिसकी प्रति आपके सूचनार्थ तथा मशीन के कर्मचारियों, जो फील्ड में कार्य कर रहे हैं के मार्ग दर्शन हेतु संलग्न है। यद्यपि उपरोक्त सूची बनाते समय सभी सावधानियाँ बरती गई हैं, फिर भी यदि कोई त्रुटि हो तो, कृपया अपने सुझावों/ टिप्पणियों को ईमेल / पत्राचार द्वारा अधोहस्ताक्षरी को अवगत करावें।

Draft and Provisional Critical Spare Parts list for Rail Milling Machine (LINSINGER) was circulated to all zonal railways, CPOHs and IRTMTC/PRYJ vide letter no. TM/RGM/RMM dated 10.02. 2025 for 30 days and vide letter no. TM/RGM/RMM dated 16. 05. 2025 for 15 days respectively, for seeking comments/suggestions. But, no suggestions/comments were received. Now, Critical Spare Parts list for Rail Milling Machine (LINSINGER) has been finalized. A copy of the same is enclosed herewith for your information and guidance of the machine staff working in the field. However, every care has been taken during preparation of the above said list, discrepancy noticed, if any, may be brought to the knowledge of the undersigned for further improvement, by email/post.

Email address : rgmtmmrdso@gmail.com

DA : As above

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जैनेन्द्र कुमार सिंह
(Jainendra Kumar Singh)
निदेशक/ ट्रैक मशीन
(Director/Track Machine)

I-	मुख्य अभियन्ता (ट्रैक मशीन)	Chief Engineer (Track Machines)
1.0	मध्य रेलवे, सीएसटी, मुम्बई- 400 001	Central Railway, CST, Mumbai - 400 001.
2.0	पूर्व रेलवे, फैयरली प्लेस, कोलकाता 700001	Eastern Railway, Fairlie Place, Kolkata-700 001.
3.0	उत्तर रेलवे, बड़ौदा हाउस, नयी दिल्ली - 110 001	Northern Railway, Baroda House, New Delhi -110 001.
4.0	उत्तर पूर्व रेलवे, गोरखपुर-273012	North Eastern Railway, Gorakhpur-273 012.
5.0	उत्तर पूर्व सीमान्त रेलवे, मालीगांव, गुवाहाटी - 781011	Northeast Frontier Railway, Maligaon, Guwahati -781 011.
6.0	दक्षिण रेलवे, पार्क टाउन, चेन्नई-600003	Southern Railway, Park Town, Chennai - 600 003.
7.0	दक्षिण मध्य रेलवे, रेल निलयम, सिकन्दराबाद - 500 371	South Central Railway, Rail Nilayam, Secunderabad -500 371.
8.0	दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता -700 043	South Eastern Railway, Garden Reach, Kolkata - 700043
9.0	पश्चिम रेलवे, चर्चगेट, मुम्बई 400 020	Western Railway, Churchgate, Mumbai - 400 020
10.0	उत्तर पश्चिम रेलवे, जयपुर-302001	North Western Railway, Jaipur-302 001.
11.0	पूर्व मध्य रेलवे, हाजीपुर-844 101	East Central Railway, Hazipur-844 101
12.0	दक्षिण पश्चिम रेलवे, हुबली - 580023	South Western Railway, Hubli-580 023
13.0	उत्तर मध्य रेलवे, प्रयागराज 211001	North Central Railway, Prayagraj -211 001
14.0	पूर्व तटीय रेलवे, भुवनेश्वर 751 001	East Coast Railway, Bhubaneswar-751 001
15.0	पश्चिम मध्य रेलवे, जबलपुर - 482001	West Central Railway, Jabalpur-482 001
16.0	दक्षिण पूर्व मध्य रेलवे, बिलासपुर-495004	South East Central Railway, Bilaspur-495 004
II-	मुख्य अभियन्ता (सी.पी.ओ.एच. कार्यशाला)	Chief Engineer (CPOH Workshop)
1.0	मुख्य अभियन्ता, सी.पी.ओ.एच. कार्यशाला, पश्चिम रेलवे, मंडल रेल प्रबंधक कार्यालय, चामुंडा माता मंदिर के पास, मरोड़ा रोड, पो- सैजपुर बोधा, अहमदाबाद- 382345	Chief Engineer. C.P.O.H, Western Railway, Divisional Office, Near Chamunda Mata Mandir, Naroda Road, P.O. -Saijpur Bogha, Ahmedabad-382345
III-	मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन)	Chief Workshop Manager (Track Machines)
1.0	सी.पी.ओ.एच. कार्यशाला, पो० धूमनगंज, प्रयागराज- 211011	CPOH Workshop, PO. Dhoomanganj, Prayagraj -211011
2.0	सी.पी.ओ.एच. कार्यशाला, दक्षिण मध्य रेलवे, रायनापाडु विजयवाडा, जिला कृष्णा, आन्ध्रप्रदेश - 521241	CPOH Workshop, South Central Railway, Rayanapadu, Vijaywada, Dist.-Krishna, Andhra Pradesh-521241
3.0	सी.पी.ओ.एच. कार्यशाला, पूर्व रेलवे, भूतबागान रेलवे कॉलोनी, कंचरापारा, पी.एस- बिजपुर पो- कंचरापारा, पश्चिम बंगाल - 743145	CPOH Workshop, Eastern Railway, Bhutbagan Railway Colony, Kanchrapara, P.S.- Bizpur, P.O. - Kanchrapara, West Bengal - 743145
IV-	प्रधानाचार्य भा. रे.रे. प. म.प्र.के. पीपलगांव प्रयागराज - 211011	Principal, IRTMTC, PipalGaon, Prayagraj - 211011



भारत सरकार रेल मंत्रालय

GOVERNMENT OF INDIA MINISTRY OF RAILWAYS

रेल मिलिंग मशीन (लिनसिंगर) की क्रिटिकल स्पेयर पार्ट्स की सूची
Critical Spare Parts List for Rail Milling Machine (LINSINGER)



जुलाई -2025
JULY-2025

इंफ्रास्ट्रक्चर निदेशालय (रेलपथ मशीन एवं मॉनिटरिंग)
अनुसंधान अभिकल्प और मानक संगठन, लखनऊ-226011
DIRECTORATE OF INFRASTRUCTURE (TRACK MACHINE & MONITORING)
RESEARCH DESIGNS & STANDARDS ORGANISATION, LUCKNOW-226011

PREFACE

For maintenance of any Track Machine, timely availability of spare parts/units and consumables play an important role. Thus, to keep the machine in sound condition, first and foremost prerequisite is availability of spares and consumables. As there are thousands of items/spares which are required for maintenance of machine, it is very much required to identify critical spares which are vital and in turn, to ensure availability of such spares well within the scheduled time.

Critical spare parts list for Rail Milling Machine (LINSINGER) are prepared. It may be noted that this is the list of spares required for the normal maintenance of Rail Milling Machine (LINSINGER) for one year only and does not include the spares required for IOH, POH and other special maintenance work. Railways are advised to check the part list of own machine before any execution of work as parts list may vary from machine to machine. Maintenance requirement for such scheduled maintenance (IOH/POH) and emergency maintenance/attention may be assessed separately on need basis by zonal railways itself.

(Jainendra Kumar Singh)
Director/Track Machine-VI
RDSO/Lucknow-226011

JULY – 2025

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Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Machine (Site)	Per Machine SRGM stores
1.	ENGINE AND GENERATOR ITEMS					
	Machinery SF35					
1.1.	Engine Mount Typ 742157	OLP-8010-09	2	-	-	1
1.2.	V-Belt - Air Fan Gates Quad Power 4 XPA	72733	4	3	0	0.75
1.3.	Bearing - Air Fan	76567	2	3	0	0.5
1.4.	Bearing - Air Fan	401269	2	3	0	0.67
1.5.	Flange Coupling	400074	1	3	0	0.33
	Main Engine SF35					
1.6.	Air Filter CAT(Primary Filter Cartridge) CA 246	75997	2	0.25	2	6
1.7.	Air Filter CAT (Secondary Filter Cartridge)CA 246	75998	2	0.25	2	6
1.8.	Engine Oil-Filter	77284	2	0.25	2	6
1.9.	V-Belt - Alternator	403768	1	6	0	0.16
1.10.	Engine Oil SAE 15W-40, CAT ECF-3, API CJ-4	64536	154 lit.	0.25	154 lit.	154 lit.
	Fuel LineSF35					
1.11.	Fuel-Filter	57347	2	0.5	2	6
1.12.	Water SeparatorFuel-Filter	403769	2	0.5	2	6
	Auxiliary EngineSF35					
1.13.	Oil-FilterDeutz	403771	1	0.5	2	6
1.14.	Fuel-FilterDeutz	403772	1	0.5	2	6
1.15.	Fuel-Filter PreDeutz	403773	1	1	2	6
1.16.	Air Filter Deutz	403774	1	1	2	6
1.17.	V-Belt	403775	1	6	0	0.16
1.18.	V-Belt	403776	1	6	0	0.16
1.19.	Engine Oil	403071	1	0.5	0	0

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine Machine (Site)	SRGM stores
2.	HYDRAULICS ITEMS					
	Transverse Play LimitationSF07					
2.1.	Hydraulic Cylinder-Transversal Play Limitation 80/40/808t lifting power	ZAV-0420-008	1	6	0	0.16
	Bogie Steering SF07				0	0.16
2.2.	Hydraulic Cylinder CD 80/45-682 CWC 11S	ZLA-0440-45	1	6	0	0.16
2.3.	securing bolt	OAN-0440-11	1	6	0	0.16
	Suspension Locking SF07					
2.4.	block cylinder AHPTyp: BZ 500.100/60.02.201.50	72486	1	6	0	0.16
2.5.	tapered roller bearing32309 BJ2/QCL7C	72339	2	6	0	0.33
2.6.	radial shaft sealAS 55 x 80 x 8	72340	2	6	0	0.33
2.7.	support rollerØ125 x 60	OAN-0450-15	1	3	0	0.33
	Hydraulics Complete SF36					
2.8.	pressure reducing valveZDR6 DA2-4X/75Y	23411	1	6	0	0.16
2.9.	pressure reducing valveZDR6 DP2-4X/150YM	23412	1	6	0	0.16
2.10.	2/2 two-way pilot insert valve KSDER1NB/HN11V	45564	1	6	0	0.16
2.11.	4/2 directional valve4 WE 6 JB6X/EG28N9K4	53373	1	6	0	0.16
2.12.	4/2 directional valve4WE6 Y6X/EG28N9K4	53374	1	6	0	0.16
2.13.	4/2 directional valve4WE6 D6X/EG28N9K4	53376	1	6	0	0.16
2.14.	pivot angel sensorAWAX004D02 A4250-1000	55100	2	6	0	0.33
2.15.	control valve4WRPEH 6 C3B 40L-3X/M/24A1	75908	2	6	0	0.33
2.16.	manometer glycerine filledABZMM 63-600bar/MPA-R/B-G	51534	2	6	0	0.33
2.17.	measuring hoseDN2-630/MCS20-MOS-G1	52894	2	6	0	0.33
2.18.	check valveCXDA-XAN	60487	1	6	0	0.16
2.19.	manometer glycerine filledABZMM 63-400bar/MPA-R/B-G	47588	2	6	0	0.33
2.20.	dust indicationVD 5 LZ.1/-AV	47138	1	6	0	0.16
2.21.	double throttle check valveZ2FS6A2-4X/2QV	24938	1	6	0	0.16
2.22.	manometer glycerine filledABZMM 63-60bar/MPA-R/B-G	51533	2	6	0	0.33

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
2.23.	pressure filter element0330 D 10 BN4HC	41862	4	0.25	4	12
2.24.	filter element0060 D 10 BN4HC	63066	2	0.25	2	6
2.25.	filter elementfor filter system 20/2D	51581	4	0.25	4	12
2.26.	directional poppet valveWSM 06020 W-01-C-N-24 DG	28299	1	6	0	0.16
2.27.	counterbalance valveCBCA-LIN	48977	1	6	0	0.16
2.28.	4/3 directional valve4WE6 J-6X/EG28N9K4	53377	1	6	0	0.16
2.29.	screw-in valveOD1532181DS2OC-VESP-08-12A/	74410	2	6	0	0.33
2.30.	control valve4WRPEH 6 C3B 04L -2X/G24K0/A1M	42624	1	6	0	0.16
2.31.	directional valve5-4WE10D5X/ EG24K4QMBG24/M	75996	1	6	0	0.16
2.32.	directional valve5-4WE10 X7-5X/EG24N9K4QMBG24/M	74411	1	6	0	0.16
2.33.	axial piston motor adjustableA6VM 280 EP200P000F/	400435	2	6	0	0.33
2.34.	hydraulic oil / 210 liter drumAVIA Syntofluid PE-B 50L	45545-1	210 lit.	-	-	-
	Cover of filter boxSF80					
2.35.	Filter (Box Door)Type PSB	29301	1.2 m	0.5	1.2 m	1.2 m
2.36.	Sealing Chord	40453	10 m	3	3 m	7 m
	Chip extraction systemSF91					
2.37.	Bag Filter (Size 66)	47412	06	0.5	12	12
2.38.	Compensator	47700	2	-	-	-
2.39.	Compensator	42652	2	-	-	-
	Chip suction lines Trailer vehicleSF91					
2.40.	Flange Seal	ZAV-3720-83	4	3	0	0.75
2.41.	Flange Seal	ZBE-3722-021	6	3	0	0.5
	Dust container SF91					
2.42.	Toggle Clamp	24096	2	3	0	0.67
2.43.	Hinge 1056	35164	6	3	0	0.5
2.44.	Square Chord 15x15	49047	7	3	0	0.43

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine Machine (Site)	SRGM stores
	Grinding dust extractionSF91					
2.45.	Bag Filter (Size 66)	47412	1	0.5	2	2
2.46.	Bag Filter (Size 36)	47413	1	0.5	2	2
2.47.	Flange Seal	ZLT-3711-11	2	3	0	0.67
2.48.	Compensator	47701	1	-	-	-
2.49.	Compensator	51364	1	-	-	-
2.50.	Compensator	ZLT-3711-26	1	-	-	-
	Grinding dust suction linesTrailer vehicleSF91					
2.51.	Suction Pipe	OBE-3723-003	1	3	0	0.16
2.52.	Suction Pipe	OBE-3723-004	1	3	0	0.16
2.53.	Suction Pipe	OBE-3723-013	1	3	0	0.16
2.54.	Suction Pipe	OLV-3723-43	1	3	0	0.16
2.55.	Flange Seal	ZBE-3723-005	2	3	0	0.33
2.56.	Flange Seal	ZLV-3723-45	2	3	0	0.33
2.57.	Flange Seal	ZLT-3711-11	1	3	0	0.16
	Fuel TankSF98					
2.58.	O-Rings ø73	63595	8	6	0	0.75
2.59.	O-Rings ø100	63594	5	6	0	1
2.60.	Sealing Chord	12375	7	6	0	1
2.61.	Compensator	402736	1	6	0	0.16

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
3.	MECHANICAL ITEMS					
	Grinding Unit S001					
3.1.	Roller screw PVK 40x1 R235/381	Z01-2055-300	1	6	0	0.16
3.2.	Belt set JB7/11M2180 jbpoly Flex; 7 gr. (1 set=2 pcs)	60352	1	6	0	0.16
3.3.	Needle bearing without inner ring 4924	24661	2	6	0	0.33
3.4.	Toggle joint lock 2-10-501-10	24096	2	6	0	0.33
3.5.	Hammer unit 310 x 159,2 x 82,8	001-2055-294	1	6	0	0.16
3.6.	Suction shoe grinding at-grade 617 x 544 x 183	001-2168-295	1	3	0	0.33
3.7.	Suction shoe mirror inverted 617 x 544 x 183	001-2168-420	1	3	0	0.33
3.8.	Curtain thickness 3mm 346 x 150 x 3	Z01-2073-414	1	6	0	0.16
	Grinding Unit Copy Shoe S001					
3.9.	Touching plate left 47,21 x 22,15 x 6	Z01-2060-699	2	3	0	0.67
3.10.	Touching plate right 47,21 x 22,15 x 6	Z01-2060-199	2	3	0	0.67
3.11.	Touching plate left 48,43 x 22,15 x 16	001-2148-699	2	3	0	0.67
3.12.	Touching plate right 48,43 x 22,15 x 16	001-2148-199	2	3	0	0.67
3.13.	Copy finger inside at-grade 250 x 60 x 30	001-2247-073	2	3	0	0.67
3.14.	Copy finger inside mirror inverted 250 x 60 x 30	001-2247-573	2	3	0	0.67
3.15.	Copy finger at-grade 187 x 69 x 45,5	001-2279-176	2	3	0	0.67
3.16.	Copy finger mirror inverted 187 x 69 x 45,5	001-2279-577	2	3	0	0.67
3.17.	Sliding plate 92,2 x 10 x 400 mm	001-2005-462	2	3	0	0.67
3.18.	Glycodur bushing gly.PG 101215 A	12023	8	3	0	0.375
3.19.	Thrust washer wc 08 DU (d=10mm)	33627	8	3	0	0.375
3.20.	Glycodur bushing gly.PG 202310 A	69939	4	3	0	0.75
3.21.	Glycodur bushing gly.PG 081008 A	73229	4	3	0	0.75
3.22.	Thrust washers 1 Ø54 x Ø21 x 1,5(3,0)	001-2279-181	2	3	0	0.67
3.23.	Thrust washers 2 Ø54 x Ø21 x 1,5(3,0)	001-2279-182	2	3	0	0.67
3.24.	Felt mount at-grade	OBE-402M-011	1	3	0	0.33
3.25.	Grease felt mirror inverted sub-assembly	OBE-402M-111	1	3	0	0.33

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
	Milling Unit S002					
3.26.	Roller screw PVK 40x1 R235/381	Z01-2055-300	1	6	0	0.16
3.27.	Strip brush at-gradel=449,5mm	001-2280-162-9	2	0.5	2	2
3.28.	Strip brush mirror invertedl=449,5mm	001-2280-662-9	2	0.5	2	2
3.29.	Driving pinø46 x 138	001-2056-100	16	6	0	3
3.30.	Stud bolt M24Ø27 x 140	001-2056-101	16	6	0	3
3.31.	Wear plate at-grade235 x 111 x 15	Z01-2280-153	1	3	0	0.33
3.32.	Wear plate mirror-inverted235 x 111 x 15	Z01-2280-553	1	3	0	0.33
3.33.	Pivot inner ringø152 x 33	001-2187-157	1	6	0	0.16
3.34.	Pivot outer ringø170 x 27,5	001-2187-158	1	6	0	0.16
3.35.	Suction line reflectionø160 x 198,2 x 220,6	001-2169-159	1	6	0	0.16
3.36.	Suction shoe - at-grade396 x 230 x 160	001-2280-160	1	3	0	0.33
3.37.	Suction shoe - mirror-inverted396 x 230 x 160	001-2280-660	1	3	0	0.33
3.38.	Toothed belt Mitsuboshi900 G14M 2520	405176	2	6	0	0.33
3.39.	Toothed belt setpoly Chain Carbon Volt	401358	2	6	0	0.33
3.40.	Cam rollerkr 30 PP SK	26918	2	6	0	0.33
3.41.	Toggle joint locka2-10-501-10	24096	2	6	0	0.33
	Milling Unit Copy ShoeS002					
3.42.	Touching plate left47,21 x 22,15 x 6	Z01-2060-699	4	3	0	0.75
3.43.	Touching plate right47,21 x 22,15 x 6	Z01-2060-199	4	3	0	0.75
3.44.	Touching plate left48,43 x 22,15 x 16	001-2148-699	4	3	0	0.75
3.45.	Touching plate right48,43 x 22,15 x 16	001-2148-199	4	3	0	0.75
3.46.	Copy finger inside at-grade250 x 60 x 30	001-2247-073	4	3	0	0.75
3.47.	Copy finger inside mirror inve250 x 60 x 30	001-2247-573	4	3	0	0.75
3.48.	Copy finger at-grade187 x 69 x 45,5	001-2279-176	4	3	0	0.75
3.49.	Copy finger mirror inverted187 x 69 x 45,5	001-2279-577	4	3	0	0.75
3.50.	Sliding plate92,2 x 10 x 400 mm	001-2005-462	4	3	0	0.75
3.51.	Glycodur bushinggly.PG 101215 A	12023	16	3	0	5

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
3.52.	Thrust washerwc 08 DU (d=10mm)	33627	16	3	0	5
3.53.	Glycodur bushinggly.PG 202310 A	69939	8	3	0	3
3.54.	Glycodur bushinggly.PG 081008 A	73229	8	3	0	3
3.55.	Thrust washers 1Ø54 x Ø 21 x 1,5(3,0)	001-2279-181	4	3	0	0.75
3.56.	Thrust washers 2Ø54 x Ø21 x 1,5(3,0)	001-2279-182	4	3	0	0.75
3.57.	Felt mount at-grade	OBE-402M-011	2	3	0	0.67
3.58.	Grease felt0 mirror invertedsub-assembly	OBE-402M-111	2	3	0	0.67
3.59.	Slide block145 x 39 x 31	001-2247-195	4	3	0	0.75
	Measuring Unit S018					
3.60.	guiding plate as built115 x 35 x 15	010-2326-074	2	3	0	0.67
3.61.	guiding plate mirror inverted115 x 35 x 15	010-2326-075	2	3	0	0.67
3.62.	touching plate left47,21 x 22,15 x 6	Z01-2060-699	2	3	0	0.67
3.63.	touching plate right47,21 x 22,15 x 6	001-2060-199	2	3	0	0.67
3.64.	touching plate left48,43 x 22,15 x 16	001-2148-699	2	3	0	0.67
3.65.	touching plate right48,43 x 22,15 x 16	001-2148-199	2	3	0	0.67
3.66.	copy finger inside at-grade250 x 60 x 30	001-2247-073	2	3	0	0.67
3.67.	copy finger inside mirror inve250 x 60 x 30	001-2247-573	2	3	0	0.67
3.68.	copy finger at-grade187 x 69 x 45,5	001-2279-176	2	3	0	0.67
3.69.	copy finger mirror inverted187 x 69 x 45,5	001-2279-577	2	3	0	0.67
3.70.	glycodur bushingGLY.PG 101215 A	12023	8	3	0	3
3.71.	thrust washerWC 08 DU (d=10mm)	33627	8	3	0	3
3.72.	glycodur bushingGLY.PG 161820 A	4786	4	3	0	1
3.73.	glycodur bushingGLY.PG 202310 A	69939	4	3	0	1
3.74.	glycodur bushingGLY.PG 081008 A	73229	4	3	0	1
3.75.	thrust washers 1Ø54 x Ø 21 x 1,5(3,0)	001-2279-181	2	3	0	0.67
3.76.	thrust washers 2Ø54 x Ø21 x 1,5(3,0)	001-2279-182	2	3	0	0.67
3.77.	strip brush70 x 50 x 9	OBE-3790-010-05	2	3	0	0.67

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine Machine (Site)	SRGM stores
	Axle Switch Gear SF06					
3.78.	Filter cartridgeCA 152 MS 60 µm	63455	8	0.25	8	24
3.79.	gear oilQ8 Trans XGN 75W-90	70872	210 liter	-	-	-
3.80.	air cooler for axle drivesHCAF-C63.50-4D-100-TXS-P-Z	401482	1	6	0	0.16
	Bogies SF06					
3.81.	steel rubber element182 x 182 x 119	ZAA-0400-10-02	2	3	0	0.67
3.82.	rubber buffer130 x 130 x 80	ZAA-0400-10-08	4	3	0	0.75
	Disk Brake/ Spring Brake/ Parking Brake SF06					
3.83.	brake discØ640 x 110 / 150	71754	12	-	-	-
3.84.	brake padICER P16 (400 cm2)	72676	24	-	-	-
	Sanding SF06					
3.85.	sandblasting hoseØ19/Ø39 l=450mm	76319	1	6	0	0.16
	Tool CraneSF30					
3.86.	ball carriage BMBMW 25	402108	2	6	0	0.33
3.87.	ball carriage BMBMW 45	402160	4	6	0	0.67
	Tool change devicesSF30					
3.88.	guide carriageMRW 25	402180	4	6	0	0.67
	Chips suction lines Carrier vehicle SF31					
3.89.	metal extraction hose FG-S-BØ110 x Ø117 R=330mm	75999	50	0.1	50	450
3.90.	hose clamp FIT-UnoØ113 - 121mm, 25mm width	44643	20	6	0	3
3.91.	metal extraction hose FS-S-BØ110 x Ø117 R=410mm	400020	25	0.1	25	225
3.92.	suction pipe 1 at-gradeØ108 x 11 l=1290mm	ZBE-3720-041	1	3	0	0.33
3.93.	suction pipe 1 mirror invertedØ108 x 11 l=1290mm	ZBE-3720-042	1	3	0	0.33
3.94.	suction pipe 1 at-gradeØ108 x 11 l=1290mm	ZAV-3720-02	1	3	0	0.33
3.95.	suction pipe 1 mirror invertedØ108 x 11 l=1290mm	ZAV-3720-05	1	3	0	0.33
3.96.	pipe elbow at-grade484,6 x 464 x 133,5	OBE-3720-010	1	3	0	0.33
3.97.	pipe elbow mirror inverted484,6 x 464 x 133,5	OBE-3720-011	1	3	0	0.33
3.98.	pipe elbow at-grade496 x 399 x 137	OBE-3720-012	1	3	0	0.33
3.99.	pipe elbow mirror inverted496 x 399 x 137	OBE-3720-013	1	3	0	0.33
3.100.	flange seal140 x 130 x 2	ZAV-3720-19	4	3	0	1

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
3.101.	Flange Seal	ZAV-3720-34	12	3	1	3
3.102.	Flange Seal	ZAV-3720-35	4	3	0	1
3.103.	Flange Seal	ZAV-3720-83	6	3	0	2
3.104.	Flange Seal	ZAV-3720-77	8	3	0	3
3.105.	O-Ring	78342	8	3	0	3
	Grinding dust suction lines Carrier vehicle SF31					
3.106.	Suction Hose Millingø110 x ø117	75999	8	0.1	8	72
3.107.	hose clamp	44024	6	6	0	1
3.108.	Suction Hose Millingø94 x ø97	63041	25	0.1	25	225
3.109.	Suction Pipe	OBE-3721-002	1	3	0	0.33
3.110.	Suction Pipe	OBE-3721-003	1	3	0	0.33
3.111.	Suction Pipe	OBE-3721-004	2	3	0	0.67
3.112.	Flange Seal	ZAV-3720-34	4	3	0	1
3.113.	Flange Seal	ZAV-3720-35	2	3	0	0.67
3.114.	Flange Seal	ZLT-3721-11	2	3	0	0.67
3.115.	O-Ring	78342	4	3	0	1
	Chip BrushSF31					
3.116.	Cup Brush ø80mm	3081	4	0.5	4	4

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.	ELECTRICAL & ELECTRONICS ITEMS					
4.1.	ind. proximity switch	13874	5	6	0	1
4.2.	mounting clip	13875	30	6	0	5
4.3.	NH fuse link	14267	6	6	0	1
4.4.	main control switch 3P	15577	1	6	0	0.16
4.5.	LV HRC fuse link	16290	6	6	0	1
4.6.	ind. proximity switch M12x1/S/	18108	10	-	-	-
4.7.	NH-fuse link	19609	6	6	0	1
4.8.	touchless safety swtich	200076	10	2	0	2
4.9.	analog input module	200078	1	6	0	0.16
4.10.	analog output module	200080	1	6	0	0.16
4.11.	brake switch exchange contacts	200199	1	6	0	0.16
4.12.	proximity switch	200420	2	6	0	0.33
4.13.	thermostat	200473	1	6	0	0.16
4.14.	pipe connection	200749	2	6	0	0.33
4.15.	pipe connection	200750	2	6	0	0.33
4.16.	pipe connection	200751	2	6	0	0.33
4.17.	temperature sensor	200800	2	6	0	0.33
4.18.	fuse	201044	10	6	0	2
4.19.	Acoustic signal device	201045	1	6	0	0.16
4.20.	analog input module	201070	1	6	0	0.16
4.21.	braking module	201103	1	6	0	0.16
4.22.	softstarter	201339	1	6	0	0.16
4.23.	contactor	201518	1	6	0	0.16
4.24.	USB-Server	201559	1	6	0	0.16
4.25.	connection cable	21542	1	6	0	0.16
4.26.	measuring sensor	24601	6	2	0	1
4.27.	fuse fast	25342	10	6	0	2

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.28.	Converter	25750	1	6	0	0.16
4.29.	crimp contact f. HAN	32784	20	6	0	3
4.30.	crimp contact for HAN	32785	20	6	0	3
4.31.	incremental encoder	33177	1	6	0	0.16
4.32.	auxiliary switch	33548	5	6	0	1
4.33.	Ethernet connecting plug	34465	5	6	0	1
4.34.	Ethernet connecting plug	34466	2	6	0	0.33
4.35.	piezzo buzzer	35153	1	6	0	0.16
4.36.	contact crimp	35256	20	6	0	3
4.37.	contact crimp	35257	20	6	0	3
4.38.	contact crimp	35258	20	6	0	3
4.39.	contact crimp	35259	20	6	0	3
4.40.	Crimp f. HAN	35704	20	6	0	3
4.41.	Crimp f. HAN	35705	20	6	0	3
4.42.	signal connector	36032	2	6	0	0.33
4.43.	circular connector	37196	2	6	0	0.33
4.44.	ind. proximity switch	37266	2	-	-	-
4.45.	disconnecter for battery	38087	1	6	0	0.16
4.46.	battery relay	38439	1	6	0	0.16
4.47.	valve plug	40448	10	6	0	2
4.48.	micro fuse slow	40989	10	6	0	2
4.49.	angle sensor	41766	1	6	0	0.16
4.50.	valve connector	41846	10	6	0	2
4.51.	angle plug IP67	42258	1	6	0	0.16
4.52.	door position switch	4959	1	6	0	0.16
4.53.	outlet filter	54004	10	0.25	10	30
4.54.	position switch	54292	2	-	-	-
4.55.	LV HRC fuse	55512	3	6	0	0.5

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.56.	level sensor G1/2" M12	55940	2	6	0	0.33
4.57.	hub module DME 20 q	57021	1	6	0	0.16
4.58.	sensor module	57040	1	6	0	0.16
4.59.	single motor module	57041	1	6	0	0.16
4.60.	Sinamics numeric externsion	57044	1	6	0	0.16
4.61.	plug-in communication module	57139	1	6	0	0.16
4.62.	contactor	57151	1	6	0	0.16
4.63.	set of lamp holders(2 holders)	57501	41	6	1	6
4.64.	cabinet bushing	57565	1	6	0	0.16
4.65.	signal line drive CLIQ	57653	1	6	0	0.16
4.66.	autostart controller	57739	1	6	0	0.16
4.67.	Ethernet switch	57751	1	6	0	0.16
4.68.	calbe for ST3088	57898	2	6	0	0.33
4.69.	signal line drive CLIQ	58961	1	6	0	0.16
4.70.	distance sensor	60723	2	6	0	0.33
4.71.	synchronous servo motor+brake	60759	1	6	0	0.16
4.72.	synchronous servo motor+brake	60760	1	6	0	0.16
4.73.	Sinamics S120 AIM 120kW	60765	1	6	0	0.16
4.74.	Sinamics S120 ALM	60769	1	6	0	0.16
4.75.	DC-DC converter	61591	1	6	0	0.16
4.76.	beacon light roof	63030	1	6	0	0.16
4.77.	auxiliary contactor for rail	63386	2	6	0	0.33
4.78.	aux. switch block	63387	1	6	0	0.16
4.79.	proximity switch	64021	2	6	0	0.33
4.80.	Ethernet plug conector	64905	5	6	0	.83
4.81.	front left/right LED spotlight	65292	1	2	0	0.16
4.82.	CAN/Profinet Gateway	65461	1	6	0	0.16
4.83.	ET200SP base-unit bridged	66802	1	6	0	0.16

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.84.	NH fuse-base	66944	1	6	0	0.16
4.85.	digital output module	67457	1	6	0	0.16
4.86.	NH fuse insert size 00 100A	68542	3	6	0	0.5
4.87.	signal line Drive CLIQ	68623	1	6	0	0.16
4.88.	LED work place lamp	69371	1	6	0	0.16
4.89.	LED workplace lamp	69372	1	6	0	0.16
4.90.	LED workplace lamp	69373	1	6	0	0.16
4.91.	auxiliary switch	69675	2	6	0	0.33
4.92.	signal line Drive CLIQ	70018	1	6	0	0.16
4.93.	signal line Drive CLIQ	70019	1	6	0	0.16
4.94.	selectivity module	70069	1	6	0	0.16
4.95.	emergency stop button	70228	1	-	-	-
4.96.	holder	70230	5	6	0	0.83
4.97.	contact module	70231	5	6	0	0.83
4.98.	power connector	70236	1	6	0	0.16
4.99.	contact module	70356	5	6	0	0.83
4.100.	toggle switch	70359	1	6	0	0.16
4.101.	LED module	70360	2	6	0	0.33
4.102.	auxiliary switch block	70771	1	6	0	0.16
4.103.	auxiliary switch block	70772	2	6	0	0.33
4.104.	power contactor	70775	2	6	0	0.33
4.105.	auxiliary contactor	70787	5	6	0	0.83
4.106.	relay coupler	70788	1	6	0	0.16
4.107.	time relay	70805	1	6	0	0.16
4.108.	voltage protection relay	70850	5	6	0	0.83
4.109.	output-/ relay coupler	71113	1	6	0	0.16
4.110.	push button	71173	1	1	0	0.16
4.111.	push button	71174	1	1	0	0.16

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.112.	push button	71175	1	1	0	0.16
4.113.	push button	71177	1	1	0	0.16
4.114.	illuminated push button	71178	1	1	0	0.16
4.115.	illuminated push button	71179	1	6	0	0.16
4.116.	illuminated push button	71180	1	6	0	0.16
4.117.	illuminated push button	71181	1	6	0	0.16
4.118.	signal lamp	71182	1	6	0	0.16
4.119.	signal lamp	71183	1	6	0	0.16
4.120.	signal lamp	71185	1	6	0	0.16
4.121.	toggle switch lights	71191	1	6	0	0.16
4.122.	toggle switch lights	71193	1	6	0	0.16
4.123.	toggle switch lights latching	71196	1	6	0	0.16
4.124.	safety switch Ronis	71200	1	6	0	0.16
4.125.	key switch CES	71201	1	6	0	0.16
4.126.	con. module with 1 sw. element	71205	5	6	0	0.83
4.127.	contact module w. 1 cont. el.	71206	5	6	0	0.83
4.128.	LED module	71207	1	6	0	0.16
4.129.	switch cabinet heating	71776	1	6	0	0.16
4.130.	braking resistor	71955	1	6	0	0.16
4.131.	double motor module	72045	1	6	0	0.16
4.132.	LED module	72316	1	6	0	0.16
4.133.	LED module	72317	1	6	0	0.16
4.134.	LED module	72319	2	6	0	0.33
4.135.	discovery multi-sensor	72602	2	6	0	0.33
4.136.	socket with insulator	72603	2	6	0	0.33
4.137.	pedestal siren with	72604	1	6	0	0.16
4.138.	cover for base siren	72605	1	6	0	0.16
4.139.	sounder control unit DIN-RAIL	72606	1	6	0	0.16

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.140.	NH-fuse base	72675	1	6	0	0.16
4.141.	NH-fuse link	72872	1	6	0	0.16
4.142.	power relay	72976	1	6	0	0.16
4.143.	auxiliary contactor	73064	1	6	0	0.16
4.144.	auxiliary switch block	73094	1	6	0	0.16
4.145.	holder	73244	1	6	0	0.16
4.146.	contact module	73260	4	6	0	0.67
4.147.	2D-/3D-profile sensor	73377	1	6	0	0.16
4.148.	protective screen holder	73379	1	6	0	0.16
4.149.	protective screen set	73380	1	6	0	0.16
4.150.	toggle switch	73480	1	6	0	0.16
4.151.	Ethernet switch	73525	1	6	0	0.16
4.152.	interface module	73646	1	6	0	0.16
4.153.	interface module bus adapter	73647	1	6	0	0.16
4.154.	digital input module	73648	1	6	0	0.16
4.155.	digital input module	73649	1	6	0	0.16
4.156.	digital input module	73650	2	6	0	0.33
4.157.	digital input module	73651	2	6	0	0.33
4.158.	digital input module	73652	1	6	0	0.16
4.159.	base unit	73655	3	6	0	0.5
4.160.	base unit	73656	2	6	0	0.33
4.161.	base unit	73657	2	6	0	0.33
4.162.	Siren/flashing light combi	73761	1	6	0	0.16
4.163.	key switch	73772	1	6	0	0.16
4.164.	power module	73777	2	6	0	0.33
4.165.	base unit	73778	2	6	0	0.33
4.166.	base unit	73779	2	6	0	0.33
4.167.	digital output module	73782	2	6	0	0.33

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.168.	analogue input module	73783	1	2	0	0.16
4.169.	analogue input module	73785	1	2	0	0.16
4.170.	analogue output module	73786	1	2	0	0.16
4.171.	technolog. module	73788	1	2	0	0.16
4.172.	module with int. LED	73803	1	6	0	0.16
4.173.	Module with integrated LED	73807	1	6	0	0.16
4.174.	protective door system	73968	1	6	0	0.16
4.175.	CMOS analog laser sensor	73969	1	6	0	0.16
4.176.	measuring head cable	73970	1	6	0	0.16
4.177.	measuring amplifier	73971	1	6	0	0.16
4.178.	connection line	74197	2	6	0	0.33
4.179.	connection cable	74198	2	6	0	0.33
4.180.	connection line	74199	2	6	0	0.33
4.181.	mushroom push button	74211	1	6	0	0.16
4.182.	key switch	74224	1	6	0	0.16
4.183.	push button	74249	1	6	0	0.16
4.184.	E-Con plug	74252	2	6	0	0.33
4.185.	voltage releases	74367	1	6	0	0.16
4.186.	connecting cable	74603	2	6	0	0.33
4.187.	toggle switch	74626	1	6	0	0.16
4.188.	control cabinet - thermostat	74737	1	6	0	0.16
4.189.	rail contactor	74767	1	6	0	0.16
4.190.	rail contactor	74809	1	6	0	0.16
4.191.	circuit breaker	75064	1	6	0	0.16
4.192.	aux. switch changeov. contacts	75065	1	6	0	0.16
4.193.	lever switch EAO	75151	1	6	0	0.16
4.194.	connecting cable	75158	5	6	0	0.83
4.195.	K&N toggle switch	75292	1	6	0	0.16

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.196.	signal lamps	75470	1	6	0	0.16
4.197.	module with integrated LED	75471	1	6	0	0.16
4.198.	drive/brake switch	75476	1	6	0	0.16
4.199.	power line	75569	1	6	0	0.16
4.200.	power line	75570	1	6	0	0.16
4.201.	power line	75572	1	6	0	0.16
4.202.	power line	75573	1	6	0	0.16
4.203.	power cable	75575	1	6	0	0.16
4.204.	power line extension	75603	1	6	0	0.16
4.205.	power line	75605	1	6	0	0.16
4.206.	power cable	75606	1	6	0	0.16
4.207.	power line	75608	1	6	0	0.16
4.208.	Ethernet-camera	75740	1	6	0	0.33
4.209.	managed IE switch	75756	1	6	0	0.33
4.210.	clutch spring	75780	1	6	0	0.33
4.211.	signal cable Drive CLI	75851	1	6	0	0.33
4.212.	fresh air filter DC AIRCO	76000	2	0.25	2	6
4.213.	rotary encoder	76003	1	6	0	0.33
4.214.	incrim. encoder f.hollow shaft	76004	1	6	0	0.33
4.215.	toggle switch	76025	1	6	0	0.33
4.216.	connecting line	76066	2	6	0	0.33
4.217.	cable for G1I0H.H70C323	76191	2	6	0	0.33
4.218.	flashlight + siren combi	76366	1	6	0	0.16
4.219.	position sensor	76982	1	6	0	0.16
4.220.	contactor	77194	1	6	0	0.16
4.221.	industrial switch	77266	1	6	0	0.16
4.222.	power contactor	77276	1	6	0	0.16
4.223.	POE adapter	77813	1	6	0	0.16

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.224.	fine wire fuse	77818	10	6	0	2
4.225.	driver panel	77893	1	6	0	0.16
4.226.	compact circuit breaker	78430	1	6	0	0.16
4.227.	battery disconnection switch	78579	1	6	0	0.16
4.228.	power supply	79015	1	6	0	0.16
4.229.	profile sensor	79193	1	6	0	0.16
4.230.	timetable book reading lamp	79200	1	6	0	0.16
4.231.	safety relay	79544	1	6	0	0.16
4.232.	communication module	201919	1	6	0	0.16
4.233.	base unit	79612	1	6	0	0.16
4.234.	technolog. module	79617	1	6	0	0.16
4.235.	aux. switch	79622	1	6	0	0.16
4.236.	LED lamp	79716	1	6	0	0.16
4.237.	camera	79863	1	6	0	0.16
4.238.	object lens	79864	1	6	0	0.16
4.239.	intelligent E/A module	80379	1	6	0	0.16
4.240.	sensor cable	80380	25	6	1	3
4.241.	sensor cable	80381	25	6	1	3
4.242.	power line	80684	1	6	0	0.16
4.243.	power line	80685	1	6	0	0.16
4.244.	pressure sensor	81117	2	6	0	0.33
4.245.	pressure sensor	81120	2	6	0	0.33
4.246.	pressure sensor	81121	2	6	0	0.33
4.247.	pressure sensor	81123	1	6	0	0.16
4.248.	pressure switch	81125	2	6	0	0.33
4.249.	pressure switch	81127	1	6	0	0.16

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
5.	PNEUMATIC					
	CompressorAir SystemSF 10					
5.1.	compressor oil Anderol 3057M	404020	1	-		
5.2.	oil filter cartridge for compressor set	403965	2	0.5	2	2
5.3.	air deoiling element for compressor set	403966	1	0.5	1	1
5.4.	dry air filter for compressor set	403968	2	0.5	2	2
5.5.	air deoiling element for compressor set	403967	1	0.5	1	1
5.6.	filter element for OEF1	403969	1	0.5	1	1
5.7.	filter element for OEF2	403970	1	0.5	1	1
5.8.	dust filter WBBRZ101E	22761	1	0.5	1	1
	Windscreen WasherSF23					
5.9.	wiper blade l=700mm110.577 l=700mm	23880	4	0.5	4	4
	* Minimum Quantity -1					

List of Safety Equipment's

Annexure – I

S. No.	Description	Quantity
1.	Detonators in a tin case	1 box (10 nos.)
2.	H.S. flag red	2 nos.
3.	H.S. flag green	1 nos.
4.	H.S. Tri colour lamps	2 nos.
5.	Chain & Padlock	1 set.
6.	Clamp with Padlock	2 nos.
7.	Jack 50 ton capacity with traverse	2 no*.
8.	Crow bars	4 nos.
9.	Wooden blocks off sizes	8 nos.
10.	Gauge cum level	1 no.
11.	Rail thermometer (dial type)	1 no.
12.	Banner flag	2 nos.
13.	Portable Control Phone	1 no
14.	Walkie Talkie	1 set
15.	First Aid Box	1 no each cabin
16.	Skids	2 nos.
17.	Working time table of section where machine working	1 copy
18.	G&SR book with upto date amendment slips	1 copy
19.	4 cell flasher light	1 no.
20.	Petromax /LPG lamps	1 no.
21.	Safety helmets	For each Machine staff
22.	Protective clothing, safety shoes and safety gloves	Foreach Machine staff
23.	Track Machine Manual	1 no.
24.	Accident Manual	1 no.
25.	Fire extinguisher	1 no each cabin
26.	Hooter (manual)	2nos
27.	Hydraulic Hand Pump	1 no.
28.	Emergency pneumatic/Hydraulic hose of sizes suiting to different machines (complete with end fittings)	1 no.

Note:-

1. Inspecting official should wear the safety items 21 to 22 while doing the inspection.
2. * Proposal is sent to Railway board vide letter no. TM/HM/1, VOL-2, dt.22/08/2019 for approval of jack, machine wise.

GENERAL SAFETY NOTES

1. The machine is to be operated according to existing Indian Railways Rules & Regulations.
2. The safety of yourself and other people is most important consideration in the operation and maintenance of the machine.
3. Remember, the machine is a working unit, carrying delicate instruments. Therefore, the machine should not be driven at excessive speed over bad track or crossing.
4. Always keep your eyes open for other men working close to the machine.
5. Do not forget to look out for signals, switches and track obstructions.
6. Make sure that all protection equipment and safety devices are in place on the machine and in working order especially when it is being driven from site to site.
7. Always keep the machine clean. Excessive oil or grease on the machine can cause you to slip and fall and is also to potential fire hazard.
8. Always lock the machine before you leave. Make sure that the machine is protected in accordance with railway regulations.
9. Whenever you have the opportunity while waiting to get out on a job, do some of the smaller maintenance job, such as tightening loose nuts and bolts and cleaning the machine.
10. Do not permit unauthorized persons to operate the machine.
11. It is prohibited to use fire on or near the machine.
12. Do not tow the machine if the final drive is engaged.

ACKNOWLEDGEMENT

Following officer and staff have made their valuable contributions in finalization of the Critical Spare Parts List for Rail Milling Machine (LINSINGER).

RDSO

S.N.		NAME	DESIGNATION
1.	SHRI	KAMAL CHAND	ARE/RGM/TMM
2.	SHRI	SURENDRA KUMAR	SSRE/RGM/TMM

RAILWAY

1	SHRI	Md. SHAHID	SSE/TMC/ECR
2	SHRI	BHAGWAN CHANDRA	JE/TMC/ECR