



भारत सरकार - रेल मंत्रालय
अनुसंधान अधिकल्प और मानक संगठन
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Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow - 226 011
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No. :- TM/RGM/RMM

Date :01.2024

संख्या :- टीएम/आरजीएम/आरएमएम

दिनांक :01.2024

- | | |
|---|--|
| I- मुख्य अभियंता (ट्रैक मशीन) सभी क्षेत्रीय रेलवे | Chief Engineer (Track Machines) All Zonal Railways |
| 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, रायनापाडु, कंचरापारा | CPOH Workshop, Prayagraj, Rayanapadu, Kachrapara |
| IV- प्रधानाचार्य भा.रे.रे.प.म.प्र.के. पीपलगांव प्रयागराज - 211011 | Principal IRTMTC, PipalGaon, Prayagraj -211011 |

Detailed addresses are enclosed herewith.

विषय : रेल मिलिंग मशीन (लिन्सिंगर) की निरीक्षण जांच सूची।

Sub : Inspection Check list of Rail Milling Machine (Linsinger).

रेल मिलिंग मशीन (लिन्सिंगर) की निरीक्षण जांच सूची की मसौदा एवं अंतिम क्रमशः पत्र सं टीएम/आरजीएम/आरएमएम दिनांक 05.09.2023 द्वारा 30 दिनों के लिये और टीएम/आरजीएम/आरएमएम दिनांक 26.10.2023 द्वारा 15 दिनों के लिये सभी क्षेत्रीय रेलवे, सी.पी.ओ.एच. कार्यशालाओं एवं भा.रे.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 (लिन्सिंगर) की निरीक्षण जांच 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 करायें।

Draft and Provisional inspection check list of Rail Milling Machine (LINSINGER) was circulated to all zonal railways, CPOHs and IRTMTC/PRYJ vide letter no. TM/RGM/RMM dated 05.09.2023 for 30 days and vide letter no. TM/RGM/RMM dated 26.10.2023 for 15 days respectively, for seeking comments/suggestions. But, no suggestions/comments were received. Now, Inspection Check list of 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: hmtmmrdso@gmail.com

DA: As above

JAINENDR
A KUMAR
SINGH

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by JAINENDRA
KUMAR SINGH
Date: 2024.01.22
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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, Bhubaneshwar-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 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 पो०- कंचरापारा, पश्चिम बंगाल - 743145	CPOH Workshop, Eastern Railway, Bhutbagan Railway Colony, Kanchrapara, P.S.- Bizpur, P.O. - Kanchrapara, West Bengal - 743145
4.0	मुख्य अभियन्ता, सी.पी.ओ.एच. कार्यशाला, पश्चिम रेलवे, मंडल रेल प्रबंधक कार्यालय, चामुंडा माता मंदिर के पास, मरोड़ा रोड, पो०- 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-	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

Inspection Check List of Rail Milling Machine (LINSINGER) रेल मिलिंग मशीन (लिन्सिंगर) की निरीक्षण जांच सूची

REPORT NO. TM- 277
रिपोर्ट संख्या टीएम – 277
जनवरी – 2024
JANUARY – 2024

इंफ्रास्ट्रक्चर निदेशालय (रेलपथ मशीन एवं मानीटरिंग)
अनुसंधान अभिकल्प और मानक संगठन, लखनऊ-226011

DIRECTORATE OF INFRASTRUCTURE (TRACK MACHINE & MONITORING)
RESEARCH DESIGNS & STANDARDS ORGANISATION, LUCKNOW-226011

PREFACE

Any machine can only be kept in good condition by regular inspection of its various assemblies at different levels of inspections. To ensure that the components of On-Track machines are properly working & being maintained and the documentation of the same is being done properly, Multi tiered Inspection of “On-Track” machines is also required. For this purpose, IRTMM-2019 includes the duties of different inspecting authorities from Dy. CE/TMC to SSE/TMC with the objective to monitor the health of machines and to ensure that the concerned officials are carrying out their duties satisfactorily. For the guidance of the inspecting authorities, RDSO is dealing with the preparation and issuing the list of items to be inspected for a particular type of machine.

In this context, the Inspection check list of Rail Milling Machine (LINSINGER) is prepared on the basis of instructions as recommended in OEM manual and IRTMM-2019.

While every care has been taken to make the Inspection check list quite exhaustive, there will always be a scope for further improvement. Suggestions from the Railways in this regard will be welcome and may be sent to the undersigned for future improvement.

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

JANUARY - 2024

Inspection Check List for Rail Milling Machine (LINSINGER)

Name & Designation of Inspecting Official :

Date of Inspection :

Machine No. :

Base Station/Division/Zone :

Location of working :

Block hours :

Progress :

Sr. No.	Items	Remarks given by inspecting officer
1.0	General :	
1.1	Name of Machine In charge	
1.2	Machine make	
1.3	Year of manufacturing	
1.4	Last attention given to engine by Service Engg.	
1.5	Last attention given to machine by Service Engg.	
1.6	First POH of Machine done on	
1.7	Last IOH of M/C done on	
1.8	Next IOH of M/C due on	
1.9	Last POH of M/C done on	
1.10	Next POH of M/C due on	
1.11	Last POH of Camp Car done on	
1.12	Next POH of Camp Car due on	
1.13	All log book filled properly	
1.14	Pending Maintenance Schedule and its reason in Schedule I,II,III,IV,V,VI,VII	
1.15	Failure register updated	
1.16	Reserve stock of consumables and spare parts	

History of Machine:-----

Sr. No.	Items	Prevailing Condition	
1.17	General cleanliness of the machine	Ok <input type="checkbox"/>	To be cleaned <input type="checkbox"/>
1.18	Function of all locking devices	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
1.19	Condition of Camp Car	Satisfactory <input type="checkbox"/>	Poor <input type="checkbox"/>
1.20	Condition of machine base stabling siding	Satisfactory <input type="checkbox"/>	Poor <input type="checkbox"/>
1.21	Condition of rest house at stabling station if available	Satisfactory <input type="checkbox"/>	Poor <input type="checkbox"/>
1.22	Provision of water & electric supply at stabling station	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
1.23	Pre and Post work for machine operation being done.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
1.24	Back-up system of machine	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
1.25	Condition of tools & plants (spanner, wrench etc.)	Ok <input type="checkbox"/>	Deficient <input type="checkbox"/>
1.26	Material available at site {as per critical spares parts list of Rail Inspection Vehicle Harsco) issued by RDSO/LKO	Yes <input type="checkbox"/>	No <input type="checkbox"/>
1.27	Condition of Gen-set of Camping Car if available.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>

History of Machine:-----

Sr. No.	Items	Prevailing Condition	
2.0	ENGINE (Caterpillar C32 T2, 895 kW at 1800 RPM)		
2.1	Engine hours on date	Date.....	_____ ERH
2.2	Starting problem	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.3	Condition of Emergency Stop/ Reset Button	OK <input type="checkbox"/>	Not ok <input type="checkbox"/>
2.4	Condition of Self starter	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
2.5	Condition of Genset	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
2.6	Condition of Compressor	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
2.7	Condition of smoke	White <input type="checkbox"/> Normal <input type="checkbox"/>	Black <input type="checkbox"/>
2.8	Leakage in Head gasket	Yes <input type="checkbox"/> Head no	No <input type="checkbox"/>
2.9	Electrolyte level in batteries	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
2.10	Specific gravity of electrolyte (min. 240)	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
2.11	Battery Charging System	Satisfactory <input type="checkbox"/>	To be attended <input type="checkbox"/>
2.12	Condition of battery terminal	Ok <input type="checkbox"/>	To be repaired <input type="checkbox"/>
2.13	Measure Each Battery Voltage & Record	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
2.14	Check V- belts condition and tension	Ok <input type="checkbox"/>	To be tightened <input type="checkbox"/>
2.15	Condition of Engine/coolant hoses	Ok <input type="checkbox"/>	To be replaced <input type="checkbox"/>
2.16	Any leakage in water hoses	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.17	Leakage in fuel pump and injectors and fuel supply system	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.18	Last overhauling of engine done on	DatedERH
2.19	Last overhauling of air compressor	DatedERH
2.20	Last change/repair of self starter done on	DatedERH
2.21	Last change/repair of alternators done on	DatedERH
2.22	Last overhauling of water pump done on	DatedERH
2.23	Last change of batteries done on	DatedERH

Sr. No.	Items	Prevailing Condition	
2.24	RPM of the Engine (Rated 1500)	Actual.....	
2.25	Clean/Change air filter element (250 Hrs duration)	Dated <input type="checkbox"/>	ERH <input type="checkbox"/>
2.26	Change Engine Oil (250 Hrs duration)	done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.27	Any abnormal sound	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.28	Overall condition of engine	Ok <input type="checkbox"/>	Not Satisfactory <input type="checkbox"/>
3.0	Mechanical		
3.1	Torque arm pivot	Greasing/Lubrication	Done <input type="checkbox"/> Not done <input type="checkbox"/>
3.2	Brake linkages	Greasing/Lubrication	Done <input type="checkbox"/> Not done <input type="checkbox"/>
3.3	Brake lever Pivot	Greasing/Lubrication	Done <input type="checkbox"/> Not done <input type="checkbox"/>
3.4	Bogie king pin Pivots	Greasing/Lubrication	Done <input type="checkbox"/> Not done <input type="checkbox"/>
3.5	All locking device	Greasing/Lubrication	Done <input type="checkbox"/> Not done <input type="checkbox"/>
3.6	Driving Axle gear box flange covers	Greasing/Lubrication	Done <input type="checkbox"/> Not done <input type="checkbox"/>
3.7	Working of rail profile system	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.8	Working of trailing profile measurement system (TPMU)	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.9	Working of Mobile rail measuring device	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.10	Working of Milling unit	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.11	Working of Grinding unit	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.12	Condition of tool change equipment.	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.13	Condition of Copy finger	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.14	Condition of Chip brushes.	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.15	Condition of conveyor belt	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.16	Condition of grinding dust suction	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.17	Condition of milling chips suction	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.18	Condition of rail inspection equipments.	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
3.19	Condition of cameras if available	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>

Remarks: -.....

Sr. No.	Items	Prevailing Condition	
4.	Hydraulic		
4.1	General condition.	Ok <input type="checkbox"/>	Leaking (location):
4.2	Hose Clamping.	Proper <input type="checkbox"/>	Improper <input type="checkbox"/>
4.3	Stock of hoses with the machine.	Adequate <input type="checkbox"/>	Less <input type="checkbox"/>
4.4	Working of hyd. Pumps and Motors.	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.5	Working of hyd. cylinders.	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.6	Condition of hydraulic coolers.	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
4.7	Condition of Pressure Gauges	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
4.8	Condition of Filters.	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
4.9	Condition of accumulator if available.	Satisfactory <input type="checkbox"/>	to be attended <input type="checkbox"/>
5.	Electrical and Electronics		
5.1	Safety circuit for Engine.	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
5.2	Safety circuit for driving.	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
5.3	Condition of head & marker lights	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
5.4	Condition of flasher lights, horns.	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
5.5	Condition of Transducers, solenoids.	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
5.6	Condition of switches (joysticks), electrical cables & limit switches.	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
		Part no.	
5.7	Locking indication of machines	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
5.8	Battery terminals condition.	Petroleum jelly <input type="checkbox"/>	Done <input type="checkbox"/>

Remarks: -

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Sr. No.	Items	Prevailing Condition			
6.	Pneumatic				
6.1	Condition of Air Compressor	Ok	<input type="checkbox"/>	To be changed	<input type="checkbox"/>
6.2	Condition of water separator and air Dryer	Ok	<input type="checkbox"/>	To be changed	<input type="checkbox"/>
6.3	Working of Pneumatic Horns	Ok	<input type="checkbox"/>	To be changed	<input type="checkbox"/>
6.4	Working of Pneumatic Hoses	Ok	<input type="checkbox"/>	To be changed	<input type="checkbox"/>
6.5	Condition of Pneumatic cylinders	Ok	<input type="checkbox"/>	To be changed	<input type="checkbox"/>
6.6	Condition and clearance of all brake shoes	Ok	<input type="checkbox"/>	To be changed	<input type="checkbox"/>
6.7	Condition of Hand brake	Ok	<input type="checkbox"/>	To be attended	<input type="checkbox"/>
6.8	Main reservoir pipe air pressure (Max. 9.8 bar)	Ok	<input type="checkbox"/>	Less	<input type="checkbox"/>
6.9	Safety valve air pressure (Max. 12 bar)	Ok	<input type="checkbox"/>	Less	<input type="checkbox"/>

Remarks: -.....

Sr. No.	Items	Prevailing Condition	
7.0	UNDER FRAME INSPECTION		
7.1	Visual Inspection of centre pivot mounting Bolts and Mounting of Suspension system ,Bogie Frame etc.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
7.2	Check condition of head stock/sole bar of centre buffer coupler.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
7.3	Visual Inspection of wheels and under gear for any infringement.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
7.4	Inspection of Brake hanger bracket , torque support, cardan shaft hanger brackets for damages	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
7.5	Check condition of the screw coupling/CBC coupling and replace if required.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
7.6	Visually examine the wheel tyre profile and crack with tyre profile gauge as mention in procedure for inspection of wheels (On Track Machines) issued by RDSO report no. TM-170	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>

Remaks:.....

Sr. No.	Items	Prevailing Condition	
8.0	Safety Items and Staff Matter:		
8.1	Safety equipment as per Annexure-I	Complete <input type="checkbox"/>	Deficient <input type="checkbox"/>
8.2	Working of locking indicator of different units	Ok <input type="checkbox"/>	Not ok <input type="checkbox"/>
8.3	Competency certificate of the Operator	Current <input type="checkbox"/>	Expired <input type="checkbox"/>
8.4	Working of safety Emergency Braking System of the machine	Ok <input type="checkbox"/>	Defective <input type="checkbox"/>
8.5	Condition of parking brake	Ok <input type="checkbox"/>	Defective <input type="checkbox"/>
8.6	Ultrasonic testing of axles of machine shall be done between 40,000 to 45,000 kms of running or three years, whichever is earlier.	Done <input type="checkbox"/> Date-	Not done <input type="checkbox"/>
8.7	Fire extinguisher	Current <input type="checkbox"/>	Expired (Date.....) <input type="checkbox"/>
8.8	Strength of staff	Full <input type="checkbox"/>	deficient <input type="checkbox"/>
8.9	General condition of the machine	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	V. Good <input type="checkbox"/> Average <input type="checkbox"/>
8.10	Group performance	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	V. Good <input type="checkbox"/> Average <input type="checkbox"/>
8.11	Cost awareness	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	V. Good <input type="checkbox"/> Average <input type="checkbox"/>
8.12	Safety awareness	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	V. Good <input type="checkbox"/> Average <input type="checkbox"/>
8.13	Staff due for Medical	Yes <input type="checkbox"/>	No <input type="checkbox"/>
8.14	Last break down	Dated.....ERH

Remaks:.....

Signature of inspecting authority

List of Safety Equipment's

Annexure – I

S. No.	Description	Quantity
1.	Detonators in a tin case	1 box
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 20t capacity with traverse.	1 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	For each 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 22 to 23 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.

Annexure-II**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 inspection check list for Rail Milling Machine (LINSINGER)

RDSO:-

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|----|---------------------|-------------|
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| 2. | SHRI SURENDRA KUMAR | SSRE/RGM/TM |
| 3. | SHRI PRINCE KUMAR | SSE/RGM/TM |
| 4. | SHRI NEERAJ SINGH | JRE/RGM/TM |