



संख्या: टीएम/एच एम/एमडीयू/पार्ट- III

दिनांक -As signed

I-	मुख्य अभियन्ता (ट्रैक मशीन) सभी क्षेत्रीय रेलवे	Chief Engineer (Track Machines) All Zonal Railways
II-	मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन) सी.पी.ओ.एच. कार्यशाला प्रयागराज, रायनापाडु, कंचरापारा, अहमदाबाद,	Chief Workshop Manager (Track Machines) CPOH Workshop, Prayagraj, Rayanapadu, Kachrapara, Ahmedabad
III-	प्रधानाचार्य भा.रे.रे.प.म.प्र.के. पीपलगांव प्रयागराज-211011	Principal, IRTMTC, PipalGaon, Prayagraj-211011
	Details of addresses are enclosed herewith.	

**विषय:** एम डी यू प्लाज़र मॉडल एम एफ एस - 120 (मशीन सं. 1201 – 1208 हेतु मान्य) मशीन की निरीक्षण जाँच सूची।

**Sub:** Inspection check list of MDU Plasser model MFS-120 machine (applicable for machine no. 1201-1208).

एम डी यू प्लाज़र मॉडल एम एफ एस - 120 (मशीन सं. 1201 – 1208 हेतु मान्य) मशीन की निरीक्षण जाँच सूची का मसौदा ओ. ई. एम. द्वारा प्रदत्त अनुरक्षण कैटेलॉग एवम् फील्ड में कार्यरत कर्मचारियों के सुझावों के आधार पर तैयार कर पत्र सं. TM/HM/MDU/Pt-III दिनांक 10.10.2023 द्वारा 30 दिनों के लिए और अनंतिम निरीक्षण जाँच सूची पत्र सं. TM/HM/MDU /Pt-III दिनांक 01.01.2024 द्वारा 15 दिनों के लिए सभी क्षेत्रीय रेलवे, सी.पी.ओ.एच. एवं भा.रे.रे.प.म.प्र.के. को जारी किया गया था। परन्तु क्षेत्रीय रेलवे, सी.पी.ओ.एच. एवं भा.रे.रे.प.म.प्र.के. से अभी तक कोई भी सुझाव/टिप्पणी प्राप्त नहीं हुई है। अब निरीक्षण जाँच सूची अंतिम रूप से तैयार किया गया है, जिसकी एक प्रति आपके सूचनार्थ एवम् फील्ड में कार्यरत कर्मचारियों के मार्गदर्शन हेतु संलग्न है। यद्यपि उपरोक्त सूची बनाते समय सभी सावधानियां बरती गई हैं, फिर भी यदि कोई त्रुटि हों तो कृपया सुधार हेतु अपने सुझावों/टिप्पणियों को ई-मेल/पत्राचार द्वारा अधोहस्ताक्षरी को अवश्य भेजें।

On the basis of maintenance manuals provided by OEM and suggestions received from field staff, draft inspection check list of MDU Plasser model MFS-120 machine (applicable for machine no. 1201-1208) had been prepared and circulated to all zonal railways, C.P.O.Hs & IRTMTC vide letter no, TM/HM/MDU/Pt.-III dated: 10.10.2023 for 30 days and further provisional inspection check list circulated vide letter no, TM/HM/MDU/Pt.-III dated: 01.01.2024 for 15 days. No comments have been received from zonal railways, C.P.O.Hs & IRTMTC till date. Now the inspection check list has been finalized. A copy of the same is enclosed herewith for your kind information and guidance of the machine staff working in the field. Although every care has been taken during preparation of above said list, however the discrepancy noticed, if any, may kindly be brought to the knowledge of the undersigned for further improvement by e-mail/post.

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संलग्नक : उपरोक्त।

AMAR  
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MAURYA  
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निदेशक रेलपथ मशीन – III

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भारत सरकार  
रेल मंत्रालय

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS

**INSPECTION CHECK LIST  
FOR  
MUCK DISPOSAL UNIT (MDU)  
(Non retractable conveyor)  
(Applicable for machine no. 1201-1208)**



**TM Report no. TM-304  
February - 2024**

**अनुसंधान अभिकल्प और मानक संगठन लखनऊ  
RESEARCH DESIGNS & STANDARDS ORGANISATION  
LUCKNOW- 226 011**

## **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 the 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 officials concerned 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 Check list for Inspection of Muck Disposal Unit (MDU) model MFS-120 (applicable for machine no. 1201-1208) is prepared as recommended by OEM. While every care has been taken to make the Inspection Check List quite exhaustive, there will always be scope for further improvement. Suggestions from the railways in this regard will be welcome and may be sent to the undersigned for future improvement.

फ़रवरी-2024

(A.D.Maurya)  
DirectorTrack Machine-III  
RDSO/Lucknow-226011

**Muck Disposal Unit (MDU)  
(Non retractable conveyor)  
(Machine no. 1201-1208)**

**Name & Designation of Inspecting  
Official :**

**Date of Inspection :**

**Machine No. :**

**Base Station /division :**

**Location of working :**

**Block hours :**

**Progress :**

<b>1.</b>	<b>General :</b>	
<b>S. No</b>	<b>Items</b>	<b>Remarks given by inspecting officer</b>
1.1.	Name of Machine In charge	
1.2.	Machine make	
1.3.	Year of manufacturing	
1.4.	First POH of Machine done on	
1.5.	Last IOH of M/C done on	
1.6.	Next IOH of M/C due on	
1.7.	Last POH of M/C done on	
1.8.	Next POH of M/C due on	
1.9.	Last POH of camping coach done on	
1.10.	Next POH of camping coach due on	
1.11.	All log books filled properly	
1.12.	Pending Maintenance Schedule (I,II,III,IV,V,VI & VII ) and reasons for delay	

**History of Machine:**-----  
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S.no	Items	Prevailing Condition	
2.	<b>Engine (CUMMINS) QSB 6.7 141 KW with diesel fuel particulate filter @2300 rpm</b>	<b>Engine hours on date-</b>	
2.1.	Over-hauling of the Engine As per Main. Schedule	Due <input type="checkbox"/>	Not due <input type="checkbox"/>
2.2.	Starting problem	No <input type="checkbox"/>	Required attention <input type="checkbox"/>
2.3.	Condition of smoke	White <input type="checkbox"/> Normal <input type="checkbox"/>	Black <input type="checkbox"/> Blue <input type="checkbox"/>
2.4.	Engine temperature during working a. CUMMINS ) QSB 6.7 Optimum 75°C to 85° c b. Thermostat working	Actual ----- °C	
		Ok <input type="checkbox"/>	Required attention <input type="checkbox"/>
2.5.	Leakage in Head gasket	No <input type="checkbox"/>	Yes <input type="checkbox"/> (Head no.- )
2.6.	Compressor leakage	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.7.	Belt condition and tension	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
2.8.	Leakage of water from water pump, seal hose and radiator	No <input type="checkbox"/>	Need attention <input type="checkbox"/>
2.9.	RPM of the Engine (rated 2300)	Actual---	
		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
2.10.	Tightness of engine mounting bolts	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
2.11.	Engine oil pressure		
	CUMMINS QSB 6.7 Minimum 1.5 Kg/cm <sup>2</sup> at idle rpm Minimum 2.5 Kg/cm <sup>2</sup> at rated rpm after 2 hours working	Actual--- Actual---	
2.12.	Overall condition of Engine	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>

Remarks:-

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S.N.	Items	Prevailing Condition	
<b>3.</b>	<b>Working Condition</b>		
<b>3.1.</b>	Infringement ,if any	Yes	No
<b>3.2.</b>	Hydraulic oil leakage from circuit	Location -----	
<b>3.3.</b>	Air leakage from circuit	Location -----	
<b>3.4.</b>	Overall condition of the Machine health	Excellent <input type="checkbox"/>	Very good <input type="checkbox"/>
		Good <input type="checkbox"/>	Average <input type="checkbox"/>
<b>3.5.</b>	Application of brakes	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>3.6.</b>	Emergency backup system	Functioning <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>3.7.</b>	Clearance between brake shoes and wheel (max.3-5mm)	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>3.8.</b>	Overall Machine working performance	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>4.</b>	<b>Conveyor belt</b>		
<b>4.1.</b>	Condition of Hydraulic hoses	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>4.2.</b>	Tightness of all nuts and bolts	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>4.3.</b>	Condition of cables for any damage	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>4.4.</b>	Check all moving parts for proper greasing	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>4.5.</b>	Condition of leakage through valve seals	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>

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S. No.	Items	Agent / Description	Prevailing Condition		
5.	Oil/water/level in Tank/Container				
5.1.	Hydraulic oil	Shell Tellus S2 V68 250 Ltrs	OK	<input type="checkbox"/>	Need top up <input type="checkbox"/>
5.2.	Diesel Fuel tank	HSD 1350 Ltrs	OK	<input type="checkbox"/>	Need top up <input type="checkbox"/>
5.3.	Engine Lube oil changed on due date (After every 500 hrs)	CI4+ Premium Blue 15W40	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
5.4.	Engine cooling agent	DCA4 (Premix) 50 Ltrs	OK	<input type="checkbox"/>	Need top up <input type="checkbox"/>
5.5.	Grease	Grease Shell Gadus S2 or equivalent	OK	<input type="checkbox"/>	Need top up <input type="checkbox"/>
5.6.	Hopper Belt Gearbox	Shell Spirax G80W-90 4x4 Ltrs	OK	<input type="checkbox"/>	Need top up <input type="checkbox"/>
5.7.	Air Oiler	Shell Tellus S2 V68 250 ml	OK	<input type="checkbox"/>	Need top up <input type="checkbox"/>
5.8.	Chain Lubricant	Shell Spirax G80W-90 57 Ltrs	OK	<input type="checkbox"/>	Need top up <input type="checkbox"/>
5.9.	Pump Gearbox	Servo CF4 15W40 4 Ltrs	OK	<input type="checkbox"/>	Need top up <input type="checkbox"/>
6.	Filters				
6.1.	Cleaning of Air Cleaner filters outer (Cleaned after every 200 hrs or on dirt indication and otherwise change after 1000hrs)		Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
6.2.	Change of air cleaner inner ( after every 1000 engine hrs.)		Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
6.3.	Change of air drier filter cartridge, if used (2nos) (after every 500 engine hrs)		Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
6.4.	Change of engine oil filters (After every 500 hrs )		Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
6.5.	Change of diesel filters (To be done after every 500 hrs)		Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
6.6.	Change of suction filter (after every 500 hrs or on choke indication)		Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
6.7.	Change of return line filter (after every 500 hrs or on choke indication)		Done	<input type="checkbox"/>	Not done <input type="checkbox"/>



S. No.	Items	Agent / Description	Prevailing Condition	
7.	Lubrication (Oiling & Greasing as per maintenance schedule)			
7.1.	All balls and socket pivot point	Oil by Servo system-100	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
7.2.	Brake linkage, brake lever bearing & Brake rod	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
8.	Electrical and Electronics			
8.1.	Condition of battery terminals		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
8.2.	Condition of batteries		Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
8.3.	Electrolyte level in batteries (Plates should be embedded in electrolyte)		Ok <input type="checkbox"/>	Need top up <input type="checkbox"/>
8.4.	Specific gravity of electrolyte (min 1.24)		Ok <input type="checkbox"/>	Less <input type="checkbox"/>
8.5.	Condition of self starter		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
8.6.	Condition of alternator		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
8.7.	Safety circuit for Engine		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
9.	Gauges and meters working status			
9.1.	Condition of Engine Oil Pressure gauge		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
9.2.	Condition of Engine Temperature gauge		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
9.3.	Condition of Battery charging meter		Ok <input type="checkbox"/>	Need Attention <input type="checkbox"/>
9.4.	Condition of Battery voltage meter		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
9.5.	Condition of Pneumatic pressure gauge		Ok <input type="checkbox"/>	Need Attention <input type="checkbox"/>
9.6.	Condition of Hydraulic oil pressure gauge		Ok <input type="checkbox"/>	Need Attention <input type="checkbox"/>
9.7.	Condition of Hydraulic oil temperature gauge		Ok <input type="checkbox"/>	Need Attention <input type="checkbox"/>

S. No.	Items	Prevailing Condition	
<b>10.</b>	<b>Pneumatic</b>		
<b>10.1.</b>	Condition of brake shoe (worn out)	Satisfactory <input type="checkbox"/>	To be Replaced <input type="checkbox"/>
<b>10.2.</b>	Condition of pneumatic hoses	Satisfactory <input type="checkbox"/>	To be Replaced <input type="checkbox"/>
<b>11.</b>	<b>Hydraulic Pressure and Operation</b>		
<b>11.1.</b>	System Pressure      240 bar	OK <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
<b>11.2.</b>	Air pressure              7.5-8.5 Kg/cm <sup>2</sup>	OK <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
<b>11.3.</b>	Hydraulic Oil Temperature after working of machine for 2 hrs. (Max limit 76 <sup>0</sup> c)	----- °C	
<b>12.</b>	<b>Under Frame Inspection</b>		
<b>12.1.</b>	<b>Under Frame</b>		
12.1.1.	Condition of centre pivot mounting Bolts and Mounting of Suspension system ,Bogie frame etc.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.1.2.	Condition of shock absorber:-	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.1.3.	Condition of centre pivot cover.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.1.4.	Condition of centre buffer coupler head stock/sole bar.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.2.</b>	<b>Bogie frame &amp; Wheels</b>		
12.2.1.	Visual and Physical inspection of wheel shall be done at a frequency of once in a year or after every 1000 engine running hours whichever is earlier.	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
12.2.2.	Visual Inspection of wheels and under gear for any infringement.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.2.3.	Condition of all the welding locations.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.2.4.	Condition of the suspension brackets.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>

<b>12.3. Brake Rigging</b>			
12.3.1.	Condition of the rubbing plates.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.3.2.	Condition of brake beams breakages/ damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.3.3.	Condition of brake hanger bracket , torque support for damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.4. Draw Gear</b>			
12.4.1.	Condition of the screw coupling/CBC coupling and replace if required.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.4.2.	Condition of draw hook, draw bars, rubber pads for damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.4.3.	Wear at any section on draw hook (should not exceed 10 mm).	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.4.4.	Wear on screw coupling shackle pins, trunion pins, shackle/link holes and draw hook holes (should not exceed 3mm).	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.4.5.	Condition of draw beam and locking pins on it.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.4.6.	Condition of draft key locking pins.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.5. Buffing Gear</b>			
12.5.1.	Condition of 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"/>
12.5.2.	Condition of corrosion of sole bar and other under frame member with track tight or inspection lamp.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.5.3.	Condition of the buffers casing for cracks/damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.6. Running Gear and Wheels</b>			
12.6.1.	Condition of axle box covers.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.6.2.	Condition of wheel tread for shattered rim, spread rim, shelled tread, thermal cracks, heat checks	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.6.3.	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"/>	Not done <input type="checkbox"/>

<b>13.</b>	<b>Safety Items and Staff Matter:</b>		
<b>13.1.</b>	Safety equipment as per Annexure-I	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
<b>13.2.</b>	Working of safety Emergency Braking System of the machine	Ok <input type="checkbox"/>	Defective <input type="checkbox"/>
<b>13.3.</b>	Competency certificate of SSE/JE	Current <input type="checkbox"/>	Expired <input type="checkbox"/>
<b>13.4.</b>	Strength of staff.	Full <input type="checkbox"/>	deficient <input type="checkbox"/>
<b>13.5.</b>	Staff availing rest on due date.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>13.6.</b>	Staff amenities (As per latest correction slip).	Available <input type="checkbox"/>	deficient <input type="checkbox"/>
<b>13.7.</b>	Safety awareness.	Excellent <input type="checkbox"/>	V. Good <input type="checkbox"/>
		Good <input type="checkbox"/>	Average <input type="checkbox"/>
<b>13.8.</b>	Staff due for Medical.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>13.9.</b>	Condition of machine base siding.	Satisfactory <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>

Remarks:-----  
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**Signature of inspecting authority**

**List of Safety Equipments**

S.N.	Description	Quantity	Status	
1.	Detonators in a tin case	1 box	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
2.	H.S. flag red	2 nos.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
3.	H.S. flag green	1 nos.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
4.	H.S. Tri Colour lamps/LED lamps	2 nos.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
5.	Chain & Padlock	1 set	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
6.	Point Clamp with Padlock	2 nos.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
7.	Tail lamp	1 no.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
8.	50 t jack traverse type*	1 no.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
9.	20 t jack traverse type*	1 no.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
10.	Crow bars	2nos.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
11.	Wooden blocks off sizes	8 nos.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
12.	Banner flag	2 nos.	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
13.	Walki talki with frequency of SM, Guard and Loco Pilots	1 nos.	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
14.	First Aid Box	1 no	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
15.	Skids	4 nos.	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
16.	Working time table of section where machine working	1 copy	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
17.	G&SR book with up to date amendment slips	1 copy	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
18.	4 cell flasher light/ LED torch,6watt	1 no.	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
19.	LED Petromax	1 no.	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
20.	Safety helmets	Each Machine staff	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
21.	Protective clothing, safety shoes and safety gloves	Each Machine staff	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
22.	Track Machine Manual with up to date correction slips	1 no.	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
23.	Accident Manual with up to date correction slips	1 no.	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
24.	Fire extinguisher	1 no.(in each cabin)	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
25.	Hooter (Manual/ Remote)	2 nos.	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
26.	Emergency pneumatic/Hydraulic hose off sizes	1 no.	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
27.	Machine specific equipment (if any)	1 set	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>

Note-\* Proposal is sent to Railway board vide letter no. TM/HM/1, VOL-2 dated 22/08/2019 for approval of jack (machine wise).

**GENERAL SAFETY NOTES**

1. The machine has to be operated according to existing Indian Railways rules and regulations.
2. The safety of all machine staff is most important in the operation and maintenance of the machine.
3. Always alert the men working close to the machine.
4. Do not forget to look out for signals and obstructions on track.
5. Make sure that all protection equipment and safety devices are in place on the machine and in working order especially when it is being transferred from site to site.
6. Always keep the machine clean. Excessive oil or grease on the machine can make surface slippery and is also potential to fire hazard.
7. Always lock the machine before leaving. Make sure that the machine is protected in accordance with Railways regulations.
8. Wherever there is an opportunity while waiting to go out for a job, do some of the smaller maintenance job, such as tightening loose nut & bolts and cleaning the machine.
9. Do not permit unauthorized persons to operate the machine.
10. It is prohibited to use fire on or near the machine.
11. Always wear proper dress, safety shoes and helmet while operation of the machine.

## **ACKNOWLEDGEMENT**

Following officers and staff have made their valuable contributions in preparation of Inspection Check List for MUCK DISPOSAL UNIT (MDU) (non retractable conveyor).

### **RAILWAYS**

1.	<b>SRI</b>	<b>Rajiv Shinde</b>	<b>SSE/TM/KYN/CR</b>
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### **RDSO**

1.	<b>S/SRI</b>	<b>Rakesh Tiwari</b>	<b>ARE/TM</b>
2.	<b>“ ”</b>	<b>A.K.Srivastava</b>	<b>SSE/TM</b>
3.	<b>“ ”</b>	<b>Ravi Kumar</b>	<b>SSRE/Engg</b>