

भारत सरकार - रेल मंत्रालय अनुसंधान अभिकल्प और मानक संगठन लखनऊ - 226 011 EPBX (0522) 2451200 Fax (0522) 2458500 Government of India-Ministry of Railways Research Designs & Standards Organisation Lucknow - 226 011 DID (0522) 2450115 DID (0522) 2465310



टीएम/एच एम/बी सी एम पार्ट.॥। TM/HM/BCM,Pt-III

दिनांक- 05 -03-2024 Date- 05 -03-2024

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

विषय	:	बैलास्ट क्लिनिंग मशीन माडल —आर एम—80—92यु (मशीन क्रम सं— 57088— 57105 एंव 57165—57175)की निरीक्षण जांच सूची ।
Sub		Inspection Check List of Ballast Cleaning Machine (RM-80-92U) (Machine Sr.No.57088-57105 & 57165-57175).

ओईएम मैनुअल, आइआरटीएमएम—2019 एंव उत्तर रेलवे से प्राप्त सुझाव के आधार पर बैलास्ट किलिनेंग मशीन माडल —आर एम—80—92यु (मशीन कम सं— 57088-57105 & 57165-57175) की निरीक्षण जांच सूची का मसौदा तैयार कर टीएम/एच एम/ बी सी एम पार्ट. III दि. 21.09.2023 द्वारा 30 दिनों के लिय जारी किया गया था, और अनंतिम निरीक्षण जांच सूची पन्न सं. टीएम/एच एम/ बी सी एम पार्ट. III दि. 27.12. 2023 द्वारा 15 दिनों के लिये सभी क्षेत्रीय रेलवे को, जारी किया गया था। इसके उपरान्त उत्तर मध्य रेलवे से प्राप्त सुझाव/टिप्पणी के आधार पर अंतिम रूप से तैयार किया गया है, जिसकी एक प्रति आपके सूचनार्थ तथा सभी मशीन के कर्मचारियों जो फील्ड में काम कर रहे हैं, के मार्गदर्शन हेतु संलग्न है।यद्यपि उपरोक्त सूची बनाते समय सभी सावधिनयाँ बरती गईँ है, फिर भी यदि कोई त्रुटि हो तो कृपया अपने सुझावों/टिप्पणियों को सुधार हेतु ई—मेल/पत्राचार द्वारा अद्योहस्ताक्षरी को भेजे।

On the basis of OEM manual, IRTMM-2019 and suggestion received from Northern railway draft of Inspection Check List of Ballast Cleaning Machine (RM-80-92U) (Machine Sr.No.57088-57105 & 57165-57175) had been prepared and circulated vide letter no. TM/HM/BCM/Pt-III dated 21/09/2023 for 30 days and provisional Inspection Check List circulated vide letter no. TM/HM/BCM/Pt-III dated 27/12/2023 for 15 days respectively. After incorporating Suggestions/Comments received from North Central Railway, Inspection Check List 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, the discrepancy noticed, if any, may be brought to the knowledge of the undersigned for further improvement by email/post.

DA: As above **Email id** - hmtmmrdso@gmail.com

Digitally Signed by Amar

Dev Maurya (ए॰ डी॰ मौर्य) Date: 05-03-2024 (क्.57.162aurya)

Reason: Approved पथ मशीन –III

Director/Track Machine-III

I- मुख्य अभियन्ता (ट्रैक मशीन)

- 1.0 मध्य रेलवे, सीएसटी, मुम्बई-400 001
- 2.0 पूर्वरेलवे, फेयरलीप्लेस, कोलकाता-700 001
- 3.0 उत्तररेलवे, बड़ौदा हाउस, नयी दिल्ली—110 001
- 4.0 पूर्वीत्तर रेलवे, गोरखपुर 273012
- ^{5.0} पूर्वीत्तर सीमान्त रेलवे, मालीगांव, गुवाहाटी—781 011
- 6.0 दक्षिण रेलवे, पार्कटाउन, चेन्नई-600 003
- ^{7.0} दक्षिण मध्य रेलवे, रेल निलयम, सिकन्दराबाद—500 025
- 8.0 दक्षिण पूर्व रेलवे, गार्डनरीच, कोलकाता— 700 043
- 9.0 पश्चिम रेलवे, चर्चगेट, मुम्बई-400 020
- 10.0 उत्तर पश्चिम रेलवे, जयपुर-302 001
- 11.0 पूर्व मध्य रेलवे, हाजीपुर—844 101
- 12.0 दक्षिण पश्चिम रेलवे, हुवली—580 023
- 13.0 उत्तर मध्य रेलवे, प्रयागराज-211 015
- 14.0 पूर्व तट रेलवे, भूवनेश्वर-751 001
- 15.0 पश्चिम मध्य रेलवे, जबलपुर-482 001
- 16.0 दक्षिण पूर्व मध्य रेलवे, बिलासपुर—495 004
- II- मुख्य अभियन्ता ,सी.पी.ओ.एच,पश्चिम रेलवे, मंडल रेल प्रबंधक कार्यालय ,चामुंडा, माता मंदिर के पास , नरोड़ा रोड , पोo सैजपुर बोधा, अहमदाबाद—382345

III- मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन)

- 1.0 सी.पी.ओ.एच. कार्यशाला, उत्तर मध्य रेलवे, पो० धूमनगंज, प्रयागराज—211012
- ^{2.0} सी.पी.ओ.एच. कार्यशाला, दक्षिण मध्य रेलवे, रायनापाडु,, विजयवाडा, जिला कृष्णा, आन्ध्रप्रदेश. 521241
- 3.0 सी.पी.ओ.एच. कार्यशाला, पूर्व रेलवे, भूतबागान CPOH, रेलवेकॉलोनी, कंचरापाड़ा, पी.एस— बिजपुर पो0 P.S: E कंचरापाड़ा, पश्चिम बंगाल -743145 Bengal-
- IV- प्रधानाचार्य भा.रे.रे.प.म.प्र.के. पीपलगांव प्रयागराज—211011

Chief Engineer (Track Machines)

CR, CST, Mumbai - 400 001.

ER, Fairlie Place, Kolkata-700 001.

बडौदा हाउस, नयी दिल्ली-110 NR, Baroda House, New Delhi-110 001.

NER, Gorakhpur-273 012.

N F R, Maligaon, Guwahati -781 011.

S R, Park Town, Chennai -600 003.

SCR, Rail Nilayam, Secunderabad - 500 025.

SER, Garden Reach, Kolkata-700 043.

W R, Churchgate, Mumbai-400 020

N W R, Jaipur-302 001.

E C R, Hazipur-844 101

SWR, Hubli-580 023

NCR, Prayagraj-211 015

East Coast Rly, Bhubaneshwar- 751 001

WCR, Jabalpur-482 001

South East Central Rly, Bilaspur-495 004

Chief Engineer. C.P.O.H, Western Railway, Divisional Railway Manager Office, Near Chamunda Mata Mandir, Naroda Road, P.O. – Saijpur Bogha, Ahmedabad-382345

Chief Workshop Manager (Track Machines)

पोo CPOH Workshop, North Central Railway, PO. Dhoomanganj] Prayagraj-211012

रेलवे, CPOH Workshop,South Central Railway, प्रदेश. Rayanapadu, Vijaywada, Dist.-Krishna, Andhra Pradesh- 521241

> CPOH Workshop, Eastern Railway, Bhutbagan Railway Colony, Kanchrapara, P.S: Bizpur, P.O.: Kanchrapara, West Bengal-743145

पीपलगांव Principal, IRTMTC, Pipal Gaon, Prayagraj- 211011



भारतसरकार रेल मंत्रालय GOVERNMENT OF INDIA MINISTRY OF RAILWAYS

ब्लास्ट क्लिनिंग मशीन माडल —आर एम–80–92यु (मशीन कम सं– **57088-57105 & 57165-57175**) की

निरीक्षणजांचसूची

Inspection Check List for Ballast Cleaning Machine (RM-80-92U) (Machine Sr.No.57088-57105 & 57165-57175)

> रिपोर्ट संख्या—टी.एम.—280 Report No.TM - 280

> > *फरवरी–2024* February—2024

इंफ्रास्ट्रक्चर निदेशालय (रेलपथ मशीन एंव 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 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.

The Inspection Check list of Ballast Cleaning Machine (RM-80-92U, Machine Sr.No.57088-57105 & 57165-57175) is prepared on the basis of OEM Manual, IRTMM-2019 and suggestions from Northern & North Central Railway. 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.

(ए डी मौर्य)
(A.D Maurya)
निदेशक रेल पथ मशीन –III
Director/Track Machine-III
RDSO/Lucknow-226011

INSPECTION CHECK LIST FOR BALLASTCLEANING MACHINE (RM-80-92U)

(Machine Sr.No.57088-57105 & 57165-57175)

Name Inspe Offici	_				
Date	of Inspection				
Mach	ine No.				
	Station/Division				
		_		_	
Work	ing between station	From		То	
Locat	tion km	From		To	
Block	hours				
Progr	ess				
Rema	nrks				
S.N.	Items		Remarks inspecting o	given fficer	by
1.0	General:				
1.1.	Name of supervisor				
1.2.	Machine make & model				
1.3.	Last attention given to engine by				
1.4.	Last attention given to machine	by Service Eng.			
1.5.	Year of manufacturing				
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				
.10.	Next POH of M/C due on				
.11.	Last POH of camping coach do				
.12.	Next POH of camping coach du	e on			
.13.	All log book filled properly				
.14.	Pending Maintenance Schedule Schedule I,II,III,IV,V,VI,VII	and its reason in			
.15.	Failure register updated				
.16.	Reserve stock of consumables	and spare parts			
History	y of Machine:				••••

S. No.	Items	Prevailing Con	dition					
1.17.	General cleanliness of the machine.	Ok		To be cleaned				
1.18.	Function of all locking devices.	Working		Not working				
1.19.	Condition of camping coach.	Satisfactory		Poor				
1.20.	Condition of machine base stabling siding.	Satisfactory		Poor				
1.21.	Condition of rest house at stabling station if available.	Satisfactory		Poor				
1.22.	Provision of water & electric supply at stabling station.	available		Not available				
1.23.	Condition of tools & plants (spanner, wrench etc.)	Ok		To be replaced				
1.24.	Spare available at site (as per critical spares parts list of machine issued by RDSO/LKO).	Yes		No				
1.25.	Condition of Gen-set/Welding Plant if available.	Ok		To be attended				
1.26.	Over all condition of machine health.	Excellent		Very good				
		Good		Average				
Remarks	:							
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Sr.	I t e m s	Prevailing	Conditions	Prevailing Co	nditions
no.		Deutz BF6M- 1015CP		Deutz BF6M-1015CP	
		(1st engine)		(2 nd engine)	
2.0	ENGINE:				
2.1.	Engine hours on date		ERH		ERH
2.2.	Last top overhauling of the Engine if done	Dated	ERH	Dated	ERH
2.3.	Starting problem	Yes	No	Yes	No
2.4.	Condition of smoke	White	Black	White	Black
2.5		Normal		Normal	
2.5.	Engine temperature during working	Actual	° C	Actual	° C
,	(Optimum range750 c to 850 c for both engine)				
	Thermostat working	Ok	Need attention	Ok	Needattention
2.6.	Leakage in head gasket	Yes	No	Yes	No
2.7.	V-belt condition and tension	Ok	To be tightened	Ok	To be tightened
2.8.	Function of air compressor	Ok	Need attention	Ok	Need attention
2.9.	Leakage of water from water pump, seal hose and radiator	Ok	Need attention	Ok	Need
2.10.	RPM of the Engine (rated 2200)	Actual Actual			
2.11.	Calibration of Fuel Injectors (to be done after every 2000 hrs)	done	due	done	due
2.12.	Calibration of fuel injection pump (to be done after every 2000 hrs)	done	due	done	due
2.13.	Change of Air Cleaner filters (1000 Hrs duration)	done	due	done	due
2.14.	Change of engine oil (250 Hrs duration)	done	due	done	due
2.15.	Change of lub oil filter (250 Hrs duration)	done	due	done	due
2.16.	Change of fuel pre filter (500 Hrs duration)	done	due	done	due
2.17.	Engine oil pressure Minimum 3.0 kg/cm2 at idle rpm	Ok	Need attention	Ok	Need attention
	Minimum 5.0 Kg/cm² on rated rpm after 2 hours working	Ok	Need attention	Ok	Need attention
2.18.	Tightness of engine mounting bolts	Ok	Need attention	Ok	Need attention
2.19.	Overall condition of engine	Ok	Not satisfactory	Ok	Not satisfactory

Sr.	I t e m s			Condition			iling Co		
no.		Deutz BF6M- 1015CP Deutz BF6M-10150			015CP				
			ngine)			(2 ^{na} e	ngine)		
2.20.	Whether working gauges/display are		er or no			1.7			
	a) R.P.M i) In working cabin	Yes		No		Yes		No	
	ii) In rear cabin	Yes		No		Yes		No	
	b) Lub. oil/Hyd. oil Pressure (In working cabin)	Yes		No		Yes		No	
	c) Lub. oil temp. (In working cabin)	Yes		No		Yes		No	
	d) Speedometer i) in rear cabin	Yes		No		Yes		No	
	ii) Working cabin	Yes		No		Yes		No	
	e) Pneumatic pressure gauge	Yes		No		Yes		No	
	f) Hydraulic oil level gauge	Yes		No		Yes		No	
	g) Hydraulic oil temperature gauge	Yes		No		Yes		No	
2.21.	Condition of battery terminals	Ok		To be tightene	ed	Ok		To be tightene	d
2.22.	Battery charging system	Ok		Not satisfac	tory	Ok		Not satisfac	tory
2.23.	Condition of batteries	Ok		Not satisfac	torv	Ok		Not satisfac	tory
2.24.	Electrolyte level in batteries (Plates should be embedded in electrolyte)	Ok		Need top up		Ok		Need Top up	
2.25.	Specific gravity of electrolyte (min 1.24)	Ok		Less		Ok		Less	
2.26.	Engine radiator coolant level	Ok		Less		Ok		Less	
2.27.	Any abnormal sound	Yes		No		Yes		No	
Remarks:									
	I NJ.								
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S.N.	Items	Agent / Description	Prevaili	ing Condition	
3.0	OIL LEVELS				_
3.1.	Hydraulic oil	SHELL TELLUS S2 VX 68	Ok	Need Top up	
3.2.	Diesel tank	HSD	Ok	Need Top up	
3.3.	Axle gear box	SHELL TELLUS S2 VX 68	Ok	Need Top up	
3.4.	Main gear box	SHELL TELLUS S2 VX 68	Ok	Need Top up	
3.5.	Engine lube oil	SHELL RIMULA R6 LM 10W-40	Ok	Need Top up	
3.6.	Conveyor gear box	SHELL TELLUS S2 VX 68	Ok	Need Top up	
3.7.	Turn table container	SHELL TELLUS S2 VX 68	Ok	Need Top up	
3.8.	Turret drum container	SHELL TELLUS S2 VX 68	Ok	Need Top up	
3.9.	Swivel drive for waste Conveyor	SHELL TELLUS S2 VX 68	Ok	Need Top up	
3.10.	Vibration drum	SHELL TELLUS S2 VX 68	Ok	Need Top up	
3.11.	Tensioning cylinder	SHELL TELLUS S2 VX 68	Ok	Need Top up	
4.0	POWER TRANSMISS	ION		1 1	
4.1.	Oil leakage in gear boxe	es	Yes	No	
4.2.	Play in universal joint		Ok	To be attended	
4.3.	Clutch adjustment		Ok	To be adjusted	
4.4.	Greasing of all Cardon s	shaft	Done	Not done	
5.0	FILTER			,	
5.1.	Change of Hydraulic Su every 1000 Engine hrs.)	` . , `	Done	Not done	
5.2.	Change of return filters 500 Engine hrs.	of Dredger drum at every	Done	Not done	
5.3.	Change of superfine filte Engine hrs.	er (3nos.) at every 500	Done	Not done	
5.4.	Change of Main gearbox 500 Engine hrs.	x oil filter (2Pcs) at every	Done	Not done	
5.5.	Change of Dredger drur 1000 Engine hrs.	n gearbox filter at every	Done	Not done	
5.6.	Change of Screen drive 1000 Engine hrs.	filter (2Pcs) at every	Done	Not done	
5.7.	Change of axle gear box 1000h or annually.	x aeration filters every	Done	Not done	

S.N.	Items	Prevaili	ng Cond	ition
5.8.	Change of hydraulic return filter cartridge (2Pcs) (at every 1000hrs*)	Done		Not done
5.9.	Change of Conveyor belt gearbox filter cartridge (at every 1000hrs*)	Done		Not done
5.10.	Change of Driving Pump Line Filter (2Pcs)(at every 1000hrs*).	Done		Not done
5.11.	Change of Hydraulic passage through filter (2Pcs) (at every 1000hrs*).	Done		Not done
5.12.	Change of Hydac filter (at every 1000hrs*)	Done		Not done
5.13.	Change of aeration filter of Screen drive (at every 1000hrs).	Done		Not done
5.14.	Change of Air drier filter and granulate cartridge (at every 1000hrs).	Done		Not done
5.15.	Change of aeration filter of Main gearbox 1 and 2 (at every 1000hrs).	Done		Not done
5.16.	Change of aeration filter of Dredger drum gearbox (at every 1000hrs).	Done		Not done
5.17.	Change of aeration filter of Hydraulic tank (at every 1000hrs).	Done		Not done
5.18.	Change of aeration filter of Fuel tank (at every 1000hrs).	Done		Not done
5.19.	Change of aeration filter of axle gearbox (4 nos.) (at every 1000hrs).	Done		Not done
filter e	*If for any filter,the gauge indication is within the re element has to be changed.	ed range/p	oilot lamp	is lightening, the
6.0	EXCAVATION UNIT			
6.1.	Greasing of Descending corner rollers	Ok		To be done
6.2.	Working of grease pump (Pneumatic)	Ok		To be done
6.3.	Condition of Guide roller	Satisfac		To be attended No.
6.4.	Condition of Wear plates	Satisfac	tory	To be attended No.
6.5.	Condition of excavating chain & finger	Ok		To be attended
6.6.	Condition of cutter bar	Ok		To be attended
7.0	SCREENING UNIT & DISTRIBUTOR			
7.1.	Condition of ballast distribution chute	Ok		
7.2.	Vibration of the screening unit	Ok		Unsatisfactory
				Unsatisfactory

S.N.	Items	Prevail	ling Con	dition	
7.3.	Greasing of screen guide plates	Ok		To be done	
7.4.	Condition of screen meshes & chute plates	Ok		To be replaced	
7.5.	Condition of wing plate	Ok		To be replaced	
7.6.	Condition of rubber pads	Ok		To be replaced	
7.7.	Whether screen is clean or not	Ok		Not clean	
8.0	TRACK LIFTING & SLEWING DEVICES				
8.1.	Greasing of lifting unit guide column	Ok		To be done	
8.2.	Greasing of rail clamp pivot pins	Ok		To be done	
8.3.	Greasing of roller clamp housing	Ok		To be done	
8.4.	Greasing of locking devices pivots	Ok		To be done	
8.5.	Tightness of roller bracket locking	Ok		To be tightened	
8.6.	Clearance of lifting roller disc below the rail head in lower conditions- Rear - 5 mm Front - 12 mm	Ok		To be adjusted	
8.7.	Working of slewing devices	Ok		Unsatisfactory	
8.8.	Working of lifting cylinder	Ok		Unsatisfactory	
8.9.	Greasing of lifting roller bearing	Ok		To be done	
8.10.	Condition of lifting roller disc	Ok		Unsatisfactory	
Remarks:					

S.N.	Items	Prevailing Condition			
9.0	HYDRAULIC AND PNEUMATIC PRESSUF	RE & TEM	PERATUR	RE	
9.1.	Transit drive pressure (Max.m 380 bar)	Ok		To be	
2.2				adjusted	
9.2.	Chain drive pressure (Max.m 350 bar)	Ok		To be adjusted	
9.3.	Vibration pressure (Max.m 350 bar)	Ok		To be	
				adjusted	
9.4.	Conveyor belt pressure (Max.m 200 bar)	Ok		To be adjusted	
9.5.	Cooler pressure (Max.m 120 bar)	Ok		To be adjusted	
9.6.	Maximum Hydraulic oil temperature	Ok		To be	$\overline{}$
	during work (below than 80 0c)	OK		adjusted	
9.7.	Pneumatic pressure (Maxm 7 bar)	Ok		To be adjusted	
10.0	CONVEYOR BELTS			aujusteu	
		0.1		- ·	
10.1.	Condition of conveyor belts	Ok		To be replaced	
10.2.	Tension in the conveyor belts	Ok		To be	
10.2	,			adjusted	
10.3.	Hydraulic slew ability of waste conveyor belts (left & right)	Ok		Unsatisfactory	
10.4.	Hydraulic slew ability of conveyor belts for movement	Ok		Unsatisfactory	′
10.5.	Proper positioning of waste conveyor belts (It should be at lower position)	Ok		Unsatisfactory	
10.6.	Locking / unlocking devices of conveyor belt	Working		Not working	
10.7.	Greasing of main conveyor bearing (50 Hrs)	Ok		To be done	
10.8.	Condition of idle rollers	Ok		To be replaced	
10.9.	Condition of conveyor safety system	Working		Not	
				working	
11.0	ELECTRICAL AND ELECTRONICS				
11.1.	Working Head light, Tail light and other light	Working		Not working	
11.2.	Emergency stop button/switches	Working		Not working	
Remar	ks:			Working	
Teman	as.				

S.N.	Items	Pre	vailing C	ondition	
Cond.	Electrical and Electronics				
11.3.	Audible warning system	Working		Not working	
11.4.	Flasher light	Working		Not working	
11.5.	Hooter	Working		Not working	
11.6.	Working of Electric Horns	Ok		Need attantion	
11.7.	Defective/Released PCB available with machine	Part no			
12.0	PNEUMATICS				
12.1.	Condition and clearance of brake shoes	Ok		To be attended	
12.2.	Drain all drip cups	Ok		To be attended	
12.3.	Condition of pneumatic plough cylinder	Working		Not working	
12.4.	Condition of KE valve (indirect brake)	Working		Not working	
12.5.	Pneumatic horn	Working		Not working	
12.6.	Pneumatic lubricator	Working		Not working	
13.0	UNDER FRAME INSPECTION				
13.1.	UNDER FRAME				
13.1.1.	Visual Inspection of centre pivot mounting Bolts and Mounting of Suspension system ,Bogie Frame etc.	Ok		To be attended	
13.1.2.	Examine the shock absorber for damages.	Ok		To be attended	
13.1.3.	Visual Inspect centre pivot cover.	Ok		To be attended	
13.1.4.	Check condition of head stock/sole bar of centre buffer Coupler.	Ok		To be attended	
13.2.	BOGIE FRAME & WHEELS				
13.2.1.	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		Not done	
13.2.2.	Visual Inspection of wheels and under gear for any infringement.	Ok		To be attended	
13.2.3.	Visually inspect all the welding locations.	Ok		To be attended	
13.2.4.	Visually check the suspension brackets.	Ok		To be attended	

S.N.	Items	Prevailing Condition		
13.3.	BRAKE RIGGING	I		
13.3.1.	Visually check the rubbing plates.	Ok	To be attended	
13.3.2.	Examine brake beams breakages/ damages.	Ok	To be attended	
13.3.3.	Inspection of Brake hanger bracket , torque support , cardan shaft hanger brackets for damages	Ok	To be attended	
13.4.	DRAW GEAR			
13.4.1.	Check condition of th screw coupling/CBC coupling and replace if required.	Ok	To be attended	
13.4.2.	Examine draw hook ,draw bars, rubber pads for damages	Ok	To be attended	
13.4.3.	Ensure that wear at any section on draw hook should not exceed 10 mm.	Ok	To be attended	
13.4.4.	Ensure that wear on screw coupling shackle pins, trunion pins, shackle/link holes and draw hook holes should not exceed 3 mm.	Ok	To be attended	
13.5.	BUFFING GEAR			
13.5.1.	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	To be attended	
13.5.2.	Examine for corrosion of sole bar and other under frame member with track light or inspection lamp.	Ok	To be attended	
13.5.3.	Visually examine the buffers casing for cracks/damages.	Ok	To be attended	
14.0	STAFF			
14.1.	Strength of staff as per IRTMM (Second Edition)-2019	Full	Deficient	
14.2.	Safety awareness	Excellent	Very good	
		Good	Average	
14.3.	Staff due for Medical	Yes	No	
14.4.	Staff due for training	No	Overdue	
14.5.	Competency certificate of the Operator	Current	Expired	
14.6.	Staff availing rest on due date	Yes	No	
14.7.	Staff amenities as per up to date IRTMM (Second Edition)-2019	Satisfactory	Poor	

S.N.	Items	Prevailing Condition			
15.0	SAFETY ITEMS				
15.1.	Safety equipment as per Annexure-I	Available	Deficient		
15.2.	Working of safety Emergency Braking System of the machine	Ok	Defective		
15.3.	Working of parking Braking System	Ok	Defective		
15.4.	Fire extinguisher	Current	Expired (Date)		
15.5.	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	Not done		
Remarks:					
n.					
Da	ıte	Signature of inspe	cting authority		

Annexure-I

List of Safety Equipments

S.No.	Description	Quantity		Status	
1.	Detonators in a tin case	1box	Available		Deficient
			Valid upto		
2.	H.S. flag red	2nos.	Available		Deficient
3.	H.S. flag green	1nos.	Available		Not available
4.	H.S. Tri Colour lamps/LED lamps	2nos.	Available		Deficient
5.	Chain & Padlock	1set	Available		Not available
6.	Point Clamp with Padlock	2nos.	Available		Deficient
7.	50t jack traverse type*	2nos.	Available		Deficient
8.	Crow bars	2nos.	Available		Deficient
9.	Wooden blocks off sizes	8nos.	Available		Deficient
10.	Gauge cum level	1no.	Available		Not available
11.	Rail thermometer(dial type)	1no.	Available		Not available
12.	Banner flag	2nos.	Available		Deficient
13.	Walki -talki	1nos.	Available		Not available
14.	First Aid Box	1no.	Available		Deficient
			Valid upto		
15.	Skids	4nos.	Available		Deficient
16.	Working time table of section where machine working	1сору	Available		Not available
17.	G & SR book with up- to-date amendment slips	1copy	Available		Not available
18.	4cell flasher light/LED torch,6watt	1no.	Available		Not available
19.	LED Petromax /Lamps	1no.	Available		Not available
20.	Safety helmets	For each Machine staff	Available		Deficient
	ist of jacks sent to railway approval which is awaited.	bd. vide I no	.TM/HM/1, V	ol-II dated	d 22/.08.2019 for

S.No.	Description	Quantity		Statu	IS
21.	Protective clothing, safety shoes and safety gloves	For each Machine staff	Available		Deficient
22.	Track Machine Manual with latest correction slips.	1no.	Available		Not available
23.	Accident Manual with latest correction slips.	1no.	Available		Not available
24.	Fire extinguisher	1no.	Available Valid upto-		Not available
25.	Hooter(Manual/Remote)	2nos	Available		Deficient
26.	Hydraulic Hand Pump	1no.	Available		Not available
27.	Emergency pneumatic/Hydraulic hose off sizes (complete with end fittings)	1set	Available		Deficient

ACKNOWLEDGEMENT

Following officers and staff have made their valuable contributions in preparation of Inspection Check List for Ballast Cleaning Machine (RM-80-92U, Machine Sr.No.57088-57105 & 57165-57175)

RAILWAYS

1.	Shri Prasanth kumar	SSE/TM/NR
2.	Shri Mahesh Kumar	SSE/TM/NR
3.	Shri Bhupendra	JE/TM/NR
4.	Shri Udayveer Singh Meena	SSE/NCR
5.	Shri Ashish Negi	SSE/NCR

RDSO

1.	Shri Rakesh Tiwari	ARE/TM
2.	Shri Ved Prakash Srivastava	SSE/TM
3.	Shri D G Sharma	SSE/Civil

28-02-2024