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TM/HM/RBMV/Pt-III

Date: 19.03.2020

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|--|---|
| I- मुख्य अभियन्ता (ट्रैक मशीन) सभी क्षेत्रिय रेलवे             | Chief Engineer (Track Machines) All Zonal Railways          |
| II- मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन)                      | Chief Workshop Manager (Track Machines)                     |
| सी.पी.ओ.एच. कार्यशाला इलाहाबाद, रायनापाडु, कचरापारा, अहमदाबाद, | CPOH WPRKSHOP, Allahabad, Rayanapadu, Kachrapara, Ahmedabad |
| III- प्रधानाचार्य भार.रे.प.म.प्र.के. पीपल गांव इलाहाबाद-211011 | Principal, IRTMTC, Pipal Gaon, Allahabad-211011             |

Detailed addresses are overleaf.

विषय: रेल बॉर्न मेन्टेनेंस वेहिकल (आर.बी.एम.वी.) (फूलटास) की क्रिटिकल स्पेयर्स पार्ट्स सूची एवं निरीक्षण जांच सूची

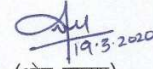
Sub: Critical Spares Part list and Inspection Check list for Rail Borne Maintenance Vehicle (RBMV) (Phooltas)

रेल बॉर्न मेन्टेनेंस वेहिकल (आर.बी.एम.वी.) (फूलटास) की क्रिटिकल स्पेयर्स पार्ट्स सूची एवं निरीक्षण जांच सूची तैयार की गई है। जिसकी प्रति, आपके सूचनार्थ तथा मशीन के कर्मचारियों जो फील्ड में कार्य कर रहे हैं, के मार्गदर्शन हेतु संलग्न है। यद्यपि उपरोक्त सूची बनाते समय सभी सावधानियां बरती गई है, फिर भी यदि कोई त्रुटि हो तो, कृपया अपने सुझावों/टिप्पणियों को सुधार हेतु ई-मेल/फैक्स/पत्राचार द्वारा अद्योहस्ताक्षरी को भेजें।

Critical spare parts list and Inspection Check List for Rail Borne Maintenance Vehicle (RBMV) (Phooltas), have been prepared. A copy of the same is enclosed herewith for your information and guidance of the machine staff working in the field. However, every care have been taken during the preparation of the above said list, the discrepancy noticed, if any, may be brought to the knowledge of the undersigned for further improvement, by e-mail/fax/post.

Email address: hmtmrdso@gmail.com

DA: As above

  
19.3.2020

(ओम प्रकाश)

निदेशक रेलपथ मशीन-III

**I- मुख्य अभियन्ता (ट्रैक मशीन)**

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- 3.0 बड़ौदा हाउस, उत्तर रेलवे, नयी दिल्ली-110 001
- 4.0 उत्तरपूर्व रेलवे, गोरखपुर 273012
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- 9.0 चर्चगेट, पश्चिम रेलवे, मुम्बई-400 020
- 10.0 उत्तर पश्चिम रेलवे, जयपुर-302 001
- 11.0 पूर्व मध्य रेलवे, हाजीपुर-844 101
- 12.0 दक्षिण पश्चिम रेलवे, हुबली-580 023
- 13.0 उत्तर मध्य रेलवे, इलाहाबाद-211 015
- 14.0 पूर्व तट रेलवे, भुवनेश्वर-751 001
- 15.0 पश्चिम मध्य रेलवे, जबलपुर-482 001
- 16.0 दक्षिण पूर्व मध्य रेलवे, बिलासपुर-495 004

**II- मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन)**

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  - 3.0 सी.पी.ओ.एच., कार्यशाला, पूर्व रेलवे, भूतबागान रेलवे कॉलोनी, कांचरापारा, पी. एस.- बिजपुर, पी. ओ.- कांचरापारा, पश्चिम बंगाल-743145
  - 4.0 मुख्य अभियन्ता, सी.पी.ओ.एच., पश्चिम रेलवे, मंडल रेल प्रबंधक कार्यालय, चामुंडा माता मंदिर के पास, नरोड़ा रोड, पोस्ट-सैजपुर बोधा, अहमदाबाद-382345
- III- प्रधानाचार्य भा.रे.रे.प.म.प्र.के. पीपल गांव इलाहाबाद-211011**

**Chief Engineer (Track Machines)**

- CST, C R, Mumbai - 400 001.  
Fairlie Place, E R, Kolkata-700 001.  
Baroda House, N R, New Delhi-110 001.  
N E R, Gorakhpur-273 012.  
Maligaon, N F R, Guwahati -781 011.  
Park Town, S R, Chennai -600 003.  
Rail Nilayam, SCR, Secunderabad-500 371.  
Garden Reach, S E R, Kolkata-700 043.  
Churchgate, W R, Mumbai-400 020  
N W R, Jaipur-302 001.  
E C R, Hazipur-844 101  
SWR, Hubli-580 023  
NCR, Allahabad-211 015  
East Coast Rly, Bhubaneshwar-751 001  
WCR, Jabalpur-482 001  
South East Central Rly, Bilaspur-495 004  
**Chief Workshop Manager (Track Machines)**

- CPOH Workshop, PO. Dhoomanganj Allahabad-221012  
CPOH Workshop, South Central Railway, Rayanapadu, Vijaywada, Dist.-Krishna, Andhra Pradesh-521241  
CPOH Workshop, Eastern Railway, Bhutbagan Railway Colony, Kanchrapara, P.S: Bizpur, P.O.: Kanchrapara, West Bengal-743145  
Chief Engineer. C.P.O.H, Western Railway, Divisional Office, Near Chamunda Mata Mandir, Naroda Road, Post- Saijpur Bogha, Ahmedabad-382345  
**Principal, IRTMTC, PipalGaon, Allahabad-211011**



भारत सरकार  
रेल मंत्रालय

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS

**Inspection Check List  
for  
Rail Borne Maintenance Vehicle (Phooltas)**

REPORT NO. TM- 233

March-2020

अनुसंधान अभिकल्प और मानक संगठन लखनऊ-226011  
**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 for Rail Borne Maintenance Vehicle (Phooltas) is prepared as recommended by OEM and suggestions obtained from machine staff.

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.

March-2020

(Om Prakash)  
Director/Track Machine-III  
RDSO/Lucknow-226011

## Rail Borne Maintenance Vehicle (Phooltas)

**Name & Designation of Inspecting Official :**

**Date of Inspection :**

**Machine No. :**

**Base Station/division :**

**Location of working :**

**Block hours :**

**Progress :**

Sr.No	Items	Remarks given by inspecting officer
<b>1.0</b>	<b>General :</b>	
1.1	Name of supervisor	
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 book filled properly	
1.12	Pending Maintenance Schedule and its reason in Schedule I,II,III,IV,V,VI,VII	
1.13	Failure register updated	
1.14	Reserve stock of consumables and spare parts	

**History of Machine:**-----  
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Sr.No	Items	Prevailing Condition	
1.15	General cleanliness of the machine	Ok <input type="checkbox"/>	To be cleaned <input type="checkbox"/>
1.16	Function of locking devices	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
1.17	Condition of camping coach	Satisfactory <input type="checkbox"/>	Poor <input type="checkbox"/>
1.18	Condition of machine base stabling siding	Satisfactory <input type="checkbox"/>	Poor <input type="checkbox"/>
1.19	Condition of rest house at stabling station if available	Satisfactory <input type="checkbox"/>	Poor <input type="checkbox"/>
1.20	Provision of water & electric supply at stabling station	Available <input type="checkbox"/>	Not available <input type="checkbox"/>
1.21	Back-up system of machine	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
1.22	Condition of tools & plants (spanner, wrench etc.)	Ok <input type="checkbox"/>	To be replaced <input type="checkbox"/>
1.23	Material available at site {as per critical spares parts list of RBMV (Phooltas) issued by RDSO/LKO}	Yes <input type="checkbox"/>	No <input type="checkbox"/>
1.24	Condition of Genset	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>

**History of Machine:**-----  
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Sr.no.	I t e m s	Prevailing Conditions Cummins NT-855 R (1 <sup>st</sup> engine)		Prevailing Conditions Cummins NT-855 R (2 <sup>nd</sup> engine)	
<b>2.0</b>	<b>ENGINE: NT 855 R (02 Nos.)</b>				
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 <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.4	Condition of smoke	White <input type="checkbox"/> Normal <input type="checkbox"/>	Black <input type="checkbox"/>	White <input type="checkbox"/> Normal <input type="checkbox"/>	Black <input type="checkbox"/>
2.5	Leakage in Head gasket	Yes <input type="checkbox"/> Head no .....	No <input type="checkbox"/>	Yes <input type="checkbox"/> Head no ....	No <input type="checkbox"/>
2.6	Belt condition and tension	Ok <input type="checkbox"/>	To be tightened <input type="checkbox"/>	Ok <input type="checkbox"/>	To be tightened <input type="checkbox"/>
2.7	Calibration of fuel injection pump (to be done after every 2000 hrs)	done <input type="checkbox"/>	due <input type="checkbox"/>	done <input type="checkbox"/>	due <input type="checkbox"/>
2.8	RPM of the Engine (Rated 2100)	Actual-----		Actual-----	
2.9	Calibration of Fuel Injectors (to be done after every 2000 hrs)	done <input type="checkbox"/>	due <input type="checkbox"/>	done <input type="checkbox"/>	due <input type="checkbox"/>
2.10	Change of Air Cleaner filters (1000 Hrs duration)	Dated <input type="checkbox"/>	ERH <input type="checkbox"/>	Dated <input type="checkbox"/>	ERH <input type="checkbox"/>
2.11	Change of engine oil (300 Hrs duration)	done <input type="checkbox"/>	Not done <input type="checkbox"/>	done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.12	Change of lub oil filter (300 Hrs duration)	done <input type="checkbox"/>	Not done <input type="checkbox"/>	done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.13	Engine oil pressure a) 1.5 Kg/cm <sup>2</sup> at idle rpm b) 2.5 Kg/ cm <sup>2</sup> on load after 2 hours working	Ok <input type="checkbox"/> Ok <input type="checkbox"/>	need attention <input type="checkbox"/> need attention <input type="checkbox"/>	Ok <input type="checkbox"/> Ok <input type="checkbox"/>	need attention <input type="checkbox"/> need attention <input type="checkbox"/>
2.14	Engine temperature after two hours working (Optimum range 75 <sup>0</sup> c to 85 <sup>0</sup> c for both engine)	_____ °C		_____ °C	
2.15	Any abnormal sound	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.16	Overall condition of engine	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>



Sr. no.	I t e m s	Prevailing Conditions	
2.1	<b>Power Pack Engine (Mahindra – model no. 575 GS)</b>		
2.1.1	Last top overhauling of the Engine if done	Dated _____	.....ERH
2.1.2	Starting problem	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.1.3	Condition of smoke	White <input type="checkbox"/> Normal <input type="checkbox"/>	Black <input type="checkbox"/>
2.1.4	Leakage in head gasket	Yes <input type="checkbox"/> Head no.....	No <input type="checkbox"/>
2.1.5	Belt condition and tension	Ok <input type="checkbox"/>	To be tightened <input type="checkbox"/>
2.1.6	Calibration of fuel injection pump (to be done after every 2000 hrs)	Done <input type="checkbox"/>	Due <input type="checkbox"/>
2.1.7	RPM of the Engine (Rated 2100)	Actual-----	
2.1.8	Calibration of fuel Injectors (to be done after every 2000 hrs)	Done <input type="checkbox"/>	Due <input type="checkbox"/>
2.1.9	Change of engine oil (300 Hrs duration)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.1.10	Change of lub oil filter (300 Hrs duration)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.1.11	Any abnormal sound	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.1.12	Overall condition of engine	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
2.2	<b>Genset (Kirlosker- KGI-7.5 AS 1/7.5 KVA)</b>		
2.2.1	Last top overhauling of the Engine, if done	Dated _____	.....ERH
2.2.2	Starting problem	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.2.3	Condition of smoke	White <input type="checkbox"/> Normal <input type="checkbox"/>	Black <input type="checkbox"/>
2.2.4	Leakage in Head gasket	Yes <input type="checkbox"/> Head no.....	No <input type="checkbox"/>
2.2.5	Belt condition and tension	Ok <input type="checkbox"/>	To be tightened <input type="checkbox"/>
2.2.6	RPM of the Engine (Rated 2100)	Actual-----	
2.2.7	Calibration of fuel Injectors (to be done after every 2000 hrs)	Done <input type="checkbox"/>	Due <input type="checkbox"/>
2.2.8	Change of engine oil (300 Hrs duration)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.2.9	Change of lub oil filter (300 Hrs duration)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.2.10	Any abnormal sound	Yes <input type="checkbox"/>	No <input type="checkbox"/>



Sr. no.	I t e m s	Prevailing Conditions	
2.2.11	Overall condition of engine	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
2.2.12	<b>Whether working gauges/display are in order or not</b>		
	a) R.P.M i) In front cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	ii) In rear cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	b) Lub. oil/Hyd. oil Pressure i) In front cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	ii) In rear cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	c) Lub. oil temp. i) In front cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	ii) In rear cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	d) Speedometer i) In front cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	ii) In rear cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	e) Pneumatic pressure gauge i) In front cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	ii) In rear cabin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.2.13	Change of diesel filters (300 Hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.2.14	Condition of silencer asbestos rope (cloth).	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
2.2.15	Function of air compressor	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>

Remarks:-

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S. No.	Items	Prevailing Condition	
<b>3.0</b>	<b>Working Condition</b>		
3.1.	Infringement, if any	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3.2.	Hydraulic leakage from circuit	Location -----	
3.3.	Pneumatic leakage from circuit	Location -----	
3.4.	Overall condition of the Machine health	Excellent <input type="checkbox"/>	Very good <input type="checkbox"/>
		Good <input type="checkbox"/>	Average <input type="checkbox"/>
3.5.	Application of brake Direct/Indirect	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.6.	Emergency backup system	Fuctioning <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.7.	Clearance between brake and wheel (max.3-5 mm)	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.8.	Overall Machine working performance	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>4.0</b>	<b>Crane</b>		
4.1	Condition of Crane.	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.2	Condition of Trestle assembly	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.3	Condition of Column assembly	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.4	Condition of main boom	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.5	Condition of extension boom	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.6	Condition of lifting hook	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.7	Condition of control levers	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.8	Condition of hydraulic cylinders	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.9	Hydraulic oil temperature while working of machine (max limit 70 <sup>0</sup> c)	----- °C	
<b>5.0</b>	<b>Lubrication (Oiling &amp; Greasing as per maintenance schedule)</b>		
5.1	All balls and socket pivot point	Oil by Servo system- 100	Done <input type="checkbox"/> Not done <input type="checkbox"/>
5.2	Brake linkage, brake lever bearing & Brake rod	Grease Shell Alvania RL2	Done <input type="checkbox"/> Not done <input type="checkbox"/>
5.3	All lubrication points of crane	Grease Shell Alvania RL2	Done <input type="checkbox"/> Not done <input type="checkbox"/>

Remarks:-----  
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Sr.no	Items	Prevailing Condition	
<b>6.0</b>	<b>Electrical and Electronics</b>		
6.1	Condition of battery terminals	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.2	Condition of batteries (24V & 110V)	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
6.3	Electrolyte level in batteries (24V) (Plates should be embedded in electrolyte)	Ok <input type="checkbox"/>	Need top up <input type="checkbox"/>
6.4	Specific gravity of electrolyte (min 1.24)	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
6.5	Condition of self starter	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.6	Condition of alternator	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.7	Safety circuit for Engine	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.8	Safety circuit for Driving	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.9	Safety circuit for crane operation	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.10	Condition of head lights	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.11	Condition of marker lights	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.12	Condition of flasher lights	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.13	Condition of electrical cables	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.14	Condition of electrical switches	Ok <input type="checkbox"/>	To be changed <input type="checkbox"/>
<b>7.0</b>	<b>Pneumatic</b>		
7.1	Condition of brake shoes	Satisfactory <input type="checkbox"/>	To be changed <input type="checkbox"/>
7.2	Leakage from pneumatic circuits	No <input type="checkbox"/>	Need attention <input type="checkbox"/>
7.3	Condition of air drier	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
7.4	Condition of air oiler	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>8.0</b>	<b>Hydraulic Pressure and Operation</b>		
<b>Sr. no</b>	<b>Items</b>	<b>Recommended value</b>	<b>Actual value</b>
8.1	System Pressure	140-150	
8.2	Air pressure	7-8 Kg/cm <sup>2</sup>	

S. no.	I t e m s	Prevailing Condition	
9.0	UNDER FRAME INSPECTION		
9.1	UNDER FRAME		
9.1.1	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"/>
9.1.2	Examine the shock absorber for damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.1.3	Visual Inspect centre pivot cover.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.1.4	Check condition of head stock/sole bar of centre buffer coupler.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.2	BOGIE FRAME & WHEELS		
9.2.1	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"/>
9.2.2	Visual Inspection of wheels and under gear for any infringement.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.2.3	Visually inspect all the welding locations.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.2.4	Visually check the suspension brackets.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.3	Brake Rigging		
9.3.1	Examine brake beams breakages/ damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.3.2	Inspection of Brake hanger bracket , torque support, cardan shaft hanger brackets for damages	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.4	Draw Gear		
9.4.1	Check condition of the screw coupling/CBC coupling and replace if required.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.4.2	Examine draw hook, draw bars, rubber pads for damages	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.4.3	Ensure that wear at any section on draw hook should not exceed 10 mm.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.4.4	Ensure that wear on screw coupling shackle pins, trunion pins, shackle/link holes and draw hook holes should not exceed 3 mm.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.5	Buffing Gear		
9.5.1	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 <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.5.2	Visually examine the buffers casing for cracks/damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
9.5.3	Examine for corrosion of sole bar and other under frame member with track light or inspection lamp.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>

S. no.	I t e m s	Prevailing Condition	
<b>10.0</b>	<b>Miscellaneous:</b>		
10.1	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"/>
10.2	Ultrasonic testing of axles of machine shall be done between 40,000 to 45,000 kms of running engine hours or three years, whichever is earlier.	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
<b>11.0</b>	<b>Safety Items and Staff Matter:</b>		
11.1	Safety equipment as per Annexure-I	Available <input type="checkbox"/>	Deficient <input type="checkbox"/>
11.2	Working of safety Emergency Braking System of the machine	Ok <input type="checkbox"/>	Defective <input type="checkbox"/>
11.3	Competency certificate of operator	Current <input type="checkbox"/>	Expired <input type="checkbox"/>
11.4	Strength of staff	Full <input type="checkbox"/>	deficient <input type="checkbox"/>
11.5	Safety awareness	Excellent <input type="checkbox"/>	V. Good <input type="checkbox"/>
		Good <input type="checkbox"/>	Average <input type="checkbox"/>
11.6	Staff due for Medical	Yes <input type="checkbox"/>	No <input type="checkbox"/>

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

## Annexure - I

### List of Safety Equipments

S. No.	Description	Quantity	Available Yes (✓)/No (x)
1.0	Detonators in a tin case	1 box	
2.0	H.S. flag red	2 nos.	
3.0	H.S. flag green	1 nos.	
4.0	H.S. Tri colour lamps	2 nos.	
5.0	Chain & Padlock	1 set	
6.0	Clamp with Padlock	2 nos.	
7.0	10 t jack with terfor*	2 nos.	
8.0	Crow bars	2 nos.	
9.0	Wooden blocks off sizes	8 nos.	
10.0	Rail thermometer (dial type)	1 no.	
11.0	Banner flag	2 nos.	
12.0	Walkie Talkie	2 nos.	
13.0	First Aid Box	1 no	
14.0	Skids	2 nos.	
15.0	Working time table of section where machine working	1 copy	
16.0	G&SR book with upto date amendment slips	1 copy	
17.0	4 cell flasher light	1 no.	
18.0	Petromax /LPG lamps	1 no.	
19.0	Safety helmets	Machine staff	
20.0	Protective clothing, safety shoes and safety gloves	Machine staff	
21.0	Track Machine Manual	1 no.	
22.0	Accident Manual	1 no.	
23.0	Fire extinguisher	1 no.	
24.0	Hooter (Manual/Remote)	2 nos.	
25.0	Hydraulic Hand Pump	1 no.	
26.0	Emergency pneumatic/Hydraulic hose off sizes suiting to different systems of machine(complete with end fittings)	1 no.	
* List of jacks sends to Railway Board for approval.			

**Note:** Inspecting official should wear the protective equipment when doing the inspection of machine.

## **ACKNOWLEDGEMENT**

Following officer and staff have made their valuable contributions in finalization of the inspection check list for Rail Borne Maintenance Vehicle (Phooltas)

### **RAILWAYS:-**

1.	S/SHRI	Yogesh Patel	SSE/TM/SECR
2.	S/SHRI	Raja Varma	SSE/TM/SWR
3.	S/SHRI	Umesh Kumar Gupta	JE/TM/NCR

### **RDSO:-**

1.	S/SHRI	Muslim Ahmad	ARE/TM
2.	S/SHRI	A. K. Srivastava	SSE/TM
3.	S/SHRI	Ravi Kumar	SSRE/TM