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TM/HM/UNIMAT/Pt-III

Date: .09.2020

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,  
III- प्रधानाचार्य भा.रे.रे.प.म.प्र.के. पीपल गांव इलाहाबाद-211011

CPOH WPRKSHOP, Allahabad, Rayanapadu, Kachrapara, Ahmedabad  
Principal, IRTMTC, Pipal Gaon,, Allahabad-211011

Detailed addresses are enclosed herewith.

विषय: Ballast Regulating Machine (SPZ-350) की निरीक्षण जाँच सूची

Sub: Inspection Check list for Ballast Regulating Machine (SPZ-350)

Ballast Regulating Machine (SPZ-350) की निरीक्षण जाँच सूची का मसौदा पत्र सं टीएम/एचएम/बी.आर.एम/पार्ट.IV दि 03.06.2020 द्वारा 30 दिनों के लिये जारी किया गया था, और अंतिम निरीक्षण जाँच सूची पत्र सं टीएम/एचएम/बी.आर.एम/पार्ट.IV दि 19.08.2020 द्वारा 15 दिनों के लिये जारी किया गया था परन्तु क्षेत्रिय रेलवे से कोई टिप्पणी प्राप्त नहीं हुई अब निरीक्षण जाँच सूची को अंतिम रूप में तैयार किया गया है। जिसकी प्रति, आपके सूचनार्थ तथा मशीन के कर्मचारियों जो फील्ड में काम कर रहे हैं के मार्गदर्शन 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 सुधार हेतु ई-मेल/फैक्स / पत्राचार द्वारा अद्योहस्ताक्षरी को भेजे।

Draft Inspection Check list for Ballast Regulating Machine (SPZ-350) has been circulated vide letter no.TM/HM/BRM pt.IV dt.03-06-2020 for 30 days and provisional Inspection Check list circulated vide letter no.TM/HM/BRM pt.IV dt.19-08-2020 for 15 days respectively, but no comments received from Zonal Railways. Now Inspection Check list has been finalised.

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/fax/post.

Email address: hmtmmrdso@gmail.com

DA: As above

(ओम प्रकाश)  
(Om Prakash)  
निदेशक रेलपथ मशीन-III  
Director Track Machine-III

**I- मुख्य अभियन्ता (ट्रैक मशीन)**

- 1.0 मध्य रेलवे, सीएसटी, मुम्बई-400 001
- 2.0 फेयरली प्लेस, पूर्व रेलवे, कोलकाता-700 001
- 3.0 बड़ौदा हाउस, उत्तर रेलवे, नयी दिल्ली-110 001
- 4.0 उत्तरपूर्व रेलवे, गोरखपुर 273012
- 5.0 मालीगांव, उत्तरपूर्व सीमान्त रेलवे, गुवाहाटी-781 011
- 6.0 पार्क टाउन, दक्षिण रेलवे, चेन्नई-600 003
- 7.0 रेल निलयम्, दक्षिण मध्य रेलवे, सिकन्दराबाद-500 371
- 8.0 गार्डन रीच, दक्षिणपूर्व रेलवे, कोलकाता-700 043
- 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)**

- 1.0 सी.पी.ओ.एच. कार्यशाला पो0 धूमनगंज इलाहाबाद-221012
- 2.0 सी.पी.ओ.एच. कार्यशाला, दक्षिण मध्य रेलवे, रायनापाडु, विजयवाडा, जिला कृष्णा, आन्ध्र प्रदेश. 521241
- 3.0 सी.पी.ओ.एच.ए कार्यशाला, पूर्व रेलवे भूतबागान रेलवे कॉलोनी कांचरापारा पी. एस.- बिजपुर पी. ओ.- कांचरापाड़ा 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**

## **INSPECTION CHECK LIST FOR BALLAST REGULATING MACHINE (Srida)**



***Report no.TM-248***

***September -2020***

**RESEARCH DESIGNS & STANDARDS ORGANISATION**

***LUCKNOW- 226 011***

### Inspection of Ballast Regulating Machine, Srida

Name & Designation of Inspecting  
Official :

Date of Inspection :

Machine No. :

Base Station /division :

Working between stations : From-----To-----

Location of working : Km-----To Km -----

Block hours :

Progress :

S. No	Items	Remarks given by inspecting officer
<b>1.0 General :</b>		
1.1.	Name of SSE/JE	
1.2.	Machine make and model	
1.3.	Year of manufacturing	
1.4.	First POH of M/C 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.	Failure Register filled properly	
1.13.	Pending Maintenance Schedule and reasons Schedule I,II,III,IV,V,VI,VII	

History of Machine:-----  
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<b>2.0</b>	<b>Staff</b>		
2.1.	Strength of staff	Full <input type="checkbox"/>	Deficient <input type="checkbox"/>
2.2.	Group performance	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	V. Good <input type="checkbox"/> Average <input type="checkbox"/>
2.3.	Safety awareness	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	V. Good <input type="checkbox"/> Average <input type="checkbox"/>
2.4.	Competency certificate of SSE/JE	Current <input type="checkbox"/>	Expired <input type="checkbox"/>
2.5.	Staff due for Medical	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.6.	Staff due for training	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.7.	Staff availing rest on due date	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.8.	Availability of staff amenities (as per IRTMM-2019)	Available <input type="checkbox"/>	deficient <input type="checkbox"/>
2.9.	General observation of camping coach	Ok <input type="checkbox"/>	To be maintained <input type="checkbox"/>
2.10.	Condition of machine stabling siding	Ok <input type="checkbox"/>	To be cleaned <input type="checkbox"/>
2.11.	Condition of rest house at stabling station	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
2.12.	Condition of machine base siding	Satisfactory <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
<b>3.0</b>	<b>Safety Items:</b>		
4.1.	Safety equipment as per Annexure-I	Available <input type="checkbox"/>	deficient <input type="checkbox"/>
4.2.	Emergency stop button	Ok <input type="checkbox"/>	Defective <input type="checkbox"/>
4.3.	Fire extinguisher	Valid <input type="checkbox"/>	Date expired <input type="checkbox"/>
4.4.	Validity of Speed Certificate	Provisional <input type="checkbox"/>  Valid upto -----	Final <input type="checkbox"/>
4.5.	Transportation code of the Machine	-----	

S. No.	I t e m s	Agent/Description	Prevailing Condition	
4.0	Oil/water level in tank/container			
4.1.	Hydraulic oil in tank	HLP-68 or equivalent	Ok <input type="checkbox"/>	Need top up <input type="checkbox"/>
4.2.	Diesel tank	HSD	Ok <input type="checkbox"/>	Need top up <input type="checkbox"/>
4.3.	Both Axle gear boxes	SAE-90 or equivalent	Ok <input type="checkbox"/>	Need top up <input type="checkbox"/>
4.4.	Engine lube oil	API CFH4 15W40 or equivalent	Ok <input type="checkbox"/>	Need top up <input type="checkbox"/>
4.5.	Water/ Coolant level in radiator	Coolant	Ok <input type="checkbox"/>	Need top up <input type="checkbox"/>
4.6.	Air lubricator	API CFH4 15W40 or equivalent	Ok <input type="checkbox"/>	Need top up <input type="checkbox"/>
5.0	Lubrication/Greasing			
5.1.	BOTH SIDES SHOULDER PLOUGH & CONVEYOR BELT			
5.1.1.	Cylinder pin	Grease	Done <input type="checkbox"/>	Not Done <input type="checkbox"/>
5.1.2.	Plough arm pin	Grease	Done <input type="checkbox"/>	Not Done <input type="checkbox"/>
5.1.3.	Plough guide	Grease	Done <input type="checkbox"/>	Not Done <input type="checkbox"/>
5.1.4.	Plough tilting pins	Grease	Done <input type="checkbox"/>	Not Done <input type="checkbox"/>
5.1.5.	Cross conveyor belt	Grease	Done <input type="checkbox"/>	Not Done <input type="checkbox"/>
5.2.	FRONT PLOUGH			
5.2.1.	Plough guide	Grease	Done <input type="checkbox"/>	Not Done <input type="checkbox"/>
5.2.2.	Plough cylinder pins	Grease	Done <input type="checkbox"/>	Not Done <input type="checkbox"/>
5.2.3.	Plough arm pins	Grease	Done <input type="checkbox"/>	Not Done <input type="checkbox"/>



S. No.	Items	Prevailing Condition	
6.0	ENGINE:		
6.1.	Engine Model & no.:	,260 HP QSNT-C360 @2200 RPM	
6.2.	Engine hours on date-		
6.3.	Last Over-hauling/Change of the Engine	Date- ERH- Overhauled <input type="checkbox"/> Change <input type="checkbox"/>	
6.4.	Last Over-hauling/Change of the Alternator	Date- ERH- Overhauled <input type="checkbox"/> Change <input type="checkbox"/>	
6.5.	Last Over-hauling/Change of the Self Starter	Date- ERH- Overhauled <input type="checkbox"/> Change <input type="checkbox"/>	
6.6.	Last Over-hauling/Change of air compressor	Date- ERH- Overhauled <input type="checkbox"/> Change <input type="checkbox"/>	
6.7.	Over-hauling of the Engine as per Maintenance Schedule hrs-----	Due <input type="checkbox"/>	Not due <input type="checkbox"/>
6.8.	Starting problem	No <input type="checkbox"/>	Required attention <input type="checkbox"/>
6.9.	Condition of smoke	White <input type="checkbox"/> <input type="checkbox"/> Normal	Black <input type="checkbox"/> <input type="checkbox"/> Grey
6.10.	Engine temperature during working after 2 hrs.	Actual ----- °C Ok <input type="checkbox"/> Required attention <input type="checkbox"/>	
6.11.	Condition of Engine Hoses	Ok <input type="checkbox"/>	To be Replaced <input type="checkbox"/>
6.12.	RPM of the Engine	Actual--- Rated----- Ok <input type="checkbox"/> Need attention <input type="checkbox"/>	
6.13.	Battery charging circuit	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.14.	Engine Oil Pressure a) Pressure at rated RPM 4.0 kg/cm <sup>2</sup> b) Pressure at idle RPM 1.5 kg/cm <sup>2</sup>	a)----- b)-----	



S. No.	I t e m s	Prevailing Condition	
6.15.	Leakage in Head gasket If any, cylinder no.-----	No <input type="checkbox"/>	Yes <input type="checkbox"/>
6.16.	V- Belts condition and tension	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
6.17.	Changing of Engine oil (after every 200 hrs.)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
6.18.	Cleaning of Air Cleaner filters outer (1-No, Cleaned after every 250 hrs or on dirt indication and change after every 1000 hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
6.19.	Changing of air cleaner inner (1no) ( after every 1000 hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
6.20.	Changing of engine oil filters (1no) ( after every 200 hrs )	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
6.21.	Changing of diesel filters (2 nos) (To be change after every 200 hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
6.22.	Calibration of Fuel Injectors Every- 2000 hrs	Due <input type="checkbox"/>	Not due <input type="checkbox"/>
6.23.	Calibration of fuel injection pump Every- 2000 hrs	Due <input type="checkbox"/>	Not due <input type="checkbox"/>
6.24.	Change of coolant filter(WF-2072) ( after every 200 hrs )	Due <input type="checkbox"/>	Not due <input type="checkbox"/>
<b>7.0</b>	<b>Electrical and Electronics</b>		
7.1	Condition of battery terminals	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
7.2	Condition of batteries	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
7.3	Electrolyte level in batteries (Plates should be embedded in electrolyte)	Ok <input type="checkbox"/>	Need top up <input type="checkbox"/>
7.4	Specific gravity of electrolyte (min 1240)	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
7.5	Function of signaling equipment (electrical horn, Pn. Horn, lighting, Hooter)	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
7.6	All electrical lights	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
7.7	Sensing of all locking devices	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
7.8	Working of all sensing devices	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
7.9	Safety circuit for Engine	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>

S. No.	I t e m s	Prevailing Condition			
<b>8.0</b>	<b>Pneumatic</b>				
8.1	Locking devices working properly	Yes	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
8.2	Condition and clearance of brake shoes 5-7 mm	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
8.3	Functioning of emergency brake (If provided)	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
8.4	Functioning of parking brake	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
8.5	Direct acting brake	Ok	<input type="checkbox"/>	Defective	<input type="checkbox"/>
8.6	Indirect acting brake	Ok	<input type="checkbox"/>	Defective	<input type="checkbox"/>
8.7	Condition of air unloader	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
8.8	Condition of air dryer	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
8.9	Changing of filter cartridge ( at every 500 hrs.)	Done	<input type="checkbox"/>	Not done	<input type="checkbox"/>
8.10	Changing of Granulate cartridge of Air drier ( at every 2000 hrs.)	Done	<input type="checkbox"/>	Not done	<input type="checkbox"/>
8.11	Condition of air lubricator	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
8.12	Condition of pneumatic hoses	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
8.13	Function of KE valve	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
<b>9.0</b>	<b>Mechanical</b>				
9.1	Functioning of axle engage/disengage cylinder guide rod.	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
9.2	Tightness & condition of sweeping elements	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
9.3	Oil leakage in gear boxes	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
9.4	Condition of fasten brush (Rail head cleaner)	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
9.5	Condition of cross conveyor belt of ballast regulator	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
9.6	Condition of replier plough LH & RH	Ok	<input type="checkbox"/>	Need Attention	<input type="checkbox"/>

S. No.	Items	Prevailing Condition	
9.7	Check structural elements for damages, cracks, deformation etc.	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>10.0</b>	<b>Hydraulic</b>		
10.1	Cooling system of hydraulic circuit	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
10.2	General condition of Hydraulic hoses	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
10.3	Any rubbing in hydraulic hoses	No <input type="checkbox"/>	Yes (Location)- <input type="checkbox"/>
10.4	Leakage of oil from hydraulic circuit	No <input type="checkbox"/>	Yes (Location)- <input type="checkbox"/>
10.5	System pressure for rated settings	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
10.6	Changing of Hydraulic suction filter (immediately replaced when dirt indicator points to the "caution "zone, however after every 500 engine hrs.)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
10.7	Changing of Hydraulic suction filter (Immediately replaced when dirt indicator points to the "caution "zone, however after every 250 engine hrs.)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
10.8	Changing of Hydraulic return filter (1no) ( after every 500 hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
10.9	Changing of Trabold filters ( after every 500 hrs )	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
10.10	Changing of Hydraulic tank breather filter (1no) (To be change after every 1000 hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
<b>11.0</b>	<b>Miscellaneous</b>		
11.1	Condition of machine working tools (Spanner set etc.)	Satisfactory <input type="checkbox"/>	To be replaced <input type="checkbox"/>
11.2	Spares available at site (as per Critical spares parts list)	Available <input type="checkbox"/>	deficient <input type="checkbox"/>
11.3	Log books & Schedule registers are filled properly.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
11.4	General cleanliness of the machine	Ok <input type="checkbox"/>	To be cleaned <input type="checkbox"/>
11.5	Machine protection is being done by PWI	Yes <input type="checkbox"/>	No <input type="checkbox"/>

S. No.	I t e m s	Prevailing Condition	
11.6	Post ballast profile	Satisfactory <input type="checkbox"/>	Not Satisfactory <input type="checkbox"/>
11.7	Overall condition of the Machine health	Excellent <input type="checkbox"/> Very good <input type="checkbox"/>	Good <input type="checkbox"/> Average <input type="checkbox"/>
11.8	Overall Machine working performance	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
<b>12.0</b>	<b>Under Frame Inspection</b>		
<b>12.1</b>	<b>Under Frame</b>		
12.1.1	Visual Inspection of Mounting of Suspension system ,Bogie Frame etc.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.1.2	Examine the Maggie spring for damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.1.3	Check condition of head stock/sole bar of universal Coupler	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.2</b>	<b>Bogie frame &amp; Wheels</b>		
12.2.1	Visual Inspection of wheels and under gear for any infringement	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.2.2	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"/>
12.2.3	Visually inspect all the welding locations.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.2.4	Visually check the suspension brackets.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.3</b>	<b>Brake Rigging</b>		
12.3.1	Visually check the rubbing plates.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.3.2	Examine brake beams breakages/ damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.3.3	Inspection of Brake hanger bracket , torque support , cardan shaft hanger brackets for damages	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.4</b>	<b>Draw Gear</b>		
12.4.1	Check condition of the screw coupling or CBC and replace if required.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>

S. No.	I t e m s	Prevailing Condition	
12.4.2	Examine draw hook ,draw bars, rubber pads for damages	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.4.3	Ensure that wear at any section on draw hook should not exceed 10 mm.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.4.4	Ensure that wear on screw coupling shackle pins, trunnion 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	Check condition of draw beam and locking pins on it.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.4.6	Examine visually draft key locking pins.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.5</b>	<b>Buffing Gear</b>		
12.5.1	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"/>
12.5.2	Examine for 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	Visually examine the buffers casing for cracks/damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.6</b>	<b>Running Gear and Wheels</b>		
12.6.1	Visually inspect axle box covers.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
12.6.2	Inspect 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>13.0</b>	Any other remarks by Inspecting Officer----- -----		

**Signature of inspecting authority**

## List of Safety Equipment's

S.No.	Description	Quantity	Available Yes (✓)/ No(x)
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 color Lamps/LED torch	2 nos.	
5.	Chain & Padlock	1 set	
6.	Switch Clamp with Padlock	2 nos.	
7.	25 t jack* with traverser	2 no.	
8.	Crow bars	4nos.	
9.	Wooden blocks of different sizes	8nos.	
10.	Rail thermometer (dial type)	1 no.	
11.	Banner flags	2 nos.	
12.	Walky talky with same frequency of SM, guard and loco pilots	2 nos.	
13.	Portable telephone	1 no.	
14.	First Aid kit	1 no	
15.	Skids	4 nos.	
16.	Working time table of section where machine working	1 copy	
17.	G&SR book with up to date amendment slips	1 copy	
18.	4 cell flasher light/ LED torch,6watt() (rechargeable)	1 no.	
19.	Safety helmets	For each Machine staff	
20.	Protective clothing, safety shoes and safety gloves	For each Machine staff	
21.	High visibility warning clothes	For each Machine staff	
22.	Track Machine Manual with up to date correction slip	1 no.	
23.	Accident Manual	1 no.	
24.	Fire extinguisher	2 nos.	
25.	Hooter (Manually/ Remote)	2 nos.	
26.	Hydraulic Hand Pump	1 no.	
27.	Tail Lamp	1 no.	
28.	Emergency pneumatic/Hydraulic hose off sizes (complete with end fittings)	1 no.	

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

- I Inspecting official should wear the safety items 19 to 21 while doing the inspection.
- II All the working units should be properly locked and a tag should be attached to the unit showing the name of person who has locked the unit.

## ACKNOWLEDGEMENT

Following officers and staff have made their valuable contribution in preparation of Inspection Check List for BRM (Srida).

### RAILWAY.

S/SRI

### RDSO

S/SRI

- |    |                 |         |
|----|-----------------|---------|
| 1. | Muslim Ahmad    | ARE/TM  |
| 2. | A.N..Srivastava | SSRE/TM |
| 3. | A.K.Srivastava  | SSE/TM  |