



भारत सरकार - रेल मंत्रालय  
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TM/HM/SBCM/PL.III

Date: 20-03-2019

- |      |  |   |
|------|--|---|
| I-   | मुख्य अभियन्ता (ट्रैक मशीन)  | Chief Engineer (Track Machines)   |
| 1.   | मध्य रेलवे, कोएलार, गुवाहटी-400 001  | CST, C R, Mumbai - 400 001.   |
| 2.   | फैरली प्लेस, पूर्व रेलवे, कोलकाता-700 001  | Fairlie Place, E R, Kolkata-700 001.  |
| 3.   | बार्दा हाउस, उत्तर रेलवे, नयी दिल्ली-110 001   | Baroda House, N R, New Delhi-110 001.   |
| 4.   | उत्तराखण्ड रेलवे, गोरखपुर-273 012  | N E R, Gorakhpur-273 012.   |
| 5.   | मालिगाँव, उत्तराखण्ड सीमा रेलवे, गुवाहटी-781 011   | Maligaon, N F R, Guwahati -781 011.   |
| 6.   | पार्क टाउन, दक्षिण रेलवे, चेन्नई-600 003   | Park Town, S R, Chennai-600 003.  |
| 7.   | रेल निलय, दक्षिण मध्य रेलवे, सिकंदराबाद-500 371  | Rail Nilayam, SCR, Secunderabad-500 371.  |
| 8.   | गार्डन रीच, दक्षिणपूर्व रेलवे, कोलकाता-700 003   | Garden Reach, S F R, Kolkata-700 003.   |
| 9.   | चर्चगट, पश्चिम रेलवे, गुवाहटी-400 020  | Churchgate, W R, Mumbai-400 020   |
| 10.  | उत्तर मणि रेलवे, जयपुर-302 001   | N W R, Jaipur-302 001.  |
| 11.  | पूर्व मध्य रेलवे, हाजपुर-844 101   | E C R, Hazpur-844 101   |
| 12.  | दक्षिण पश्चिम रेलवे, हुबली-580 023   | SWR, Hubli-580 023  |
| 13.  | उत्तर मध्य रेलवे, इलाहाबाद-211 012   | NCR, Allahabad-211 012  |
| 14.  | पूर्व रेलवे, भुवनेश्वर-751 001   | East Coast Rly, Bhubaneswar-751 001   |
| 15.  | पश्चिम मध्य रेलवे, जबलपुर-482 001  | WCR, Jabalpur-482 001   |
| 16.  | दक्षिण पूर्व मध्य रेलवे, बिलासपुर-495 004  | South East Central Rly, Bilaspur-495 004  |
| II-  | उप मुख्य अभियन्ता (ट्रैक मशीन)   | Dy Chief Engineer (Track Machines)  |
| 1.   | सी.पी.ओ.एच. कार्यशाला पी. धूमनगर, इलाहाबाद-211012  | CPOH workshop, P. Dhoomnagar, Allahabad-211012  |
| 2.   | सी.पी.ओ.एच. कार्यशाला दक्षिण मध्य रेलवे, रायनापाडु, विजयवाड़ा जिला कृष्णा, आंध्र प्रदेश-521241 | CPOH workshop, South Central Railway, Rayanapadu, Vijaywada. Dist.-Krishna, Andhra Pradesh-521241 |
| III- | प्रधानाचार्य भारोपेय म.प्र. के. पीपल गंव, इलाहाबाद-211012                                      | Principal, Baroipaya M.P. Ke. Pipal Gao, Allahabad 211012   |

विषय SBCM (FRM-80) मशीन की अनुसंधान अनुसूची पुस्तिका (पुनरीक्षण 1) एवं निरीक्षण जांच सूची (पुनरीक्षण-1)।

Sub: Maintenance schedule manual (Rev-1) and inspection check list (Rev-1) for SBCM (FRM-80).

SBCM (FRM-80) मशीन की अनुसंधान अनुसूची पुस्तिका (पुनरीक्षण 1) एवं निरीक्षण जांच सूची (पुनरीक्षण-1) तैयार की गई है। निम्नलिखित प्रती, आपके सूचना के लिए मशीन के कार्यकारी जो कोड में काम कर रहे हैं, के मार्गदर्शन हेतु संलग्न है। यद्यपि हमने पुनरीक्षण करने वाले सभी आवश्यकताओं को ध्यान में रखा है, फिर भी यदि कोई त्रुटि हो तो, कृपया अपने सुझावों/टिप्पणियों को सुधार हेतु ई-मेल/फैक्स/पत्राचार द्वारा अधीनस्थों को भेजें।

Maintenance schedule manual (Rev-1) and inspection check list (Rev-1) for Shoulder Ballast Cleaning Machine (FRM-80) have been prepared. 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 revisions 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.

DA: As above

Copy to:

1. Executive Director/Track(MC), Railway Board, New Delhi-110001
2. Director/IRICEN, Pune-411001

  
20.3.19  
(अनिल प्रकाश)  
निदेशक रेलपथ मशीन-III  
  
20.3.19  
(अनिल प्रकाश)  
निदेशक रेलपथ मशीन-III





भारत सरकार  
रेल मंत्रालय

GOVERNMENT OF INDIA  
**MINISTRY OF RAILWAYS**

शोल्डर बैलास्ट क्लीनिंग मशीन (एफ.आर.एम-80)  
की निरीक्षण जांच सूची

**INSPECTION CHECK LIST FOR SHOULDER BALLAST  
CLEANING MACHINE (FRM-80)**

रिपोर्ट संख्या: टी.एम.-91 संशोधन-1  
**Report No.TM -91(Rev.-1)**

मार्च-2019  
**March-2019**

अनुसंधान अभिकल्प और मानक संगठन  
लखनऊ-226011

**RESEARCH DESIGNS & STANDARDS ORGANISATION  
LUCKNOW- 226 011**



## INSPECTION CHECK LIST FOR SHOULDER BALLAST CLEANING MACHINE (FRM-80)

**Name & Designation of Inspecting Official :**  
**Date of Inspection :**  
**Machine No. :**  
**Base Station/Division :**  
**Working between station : From\_\_\_\_\_ To\_\_\_\_\_**  
**Location km : From\_\_\_\_\_ To\_\_\_\_\_**  
**Block hours :**  
**Progress :**  
**Remarks :**

S. 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 books filled properly	
1.12	Pending Maintenance Schedule and its reasons in Schedule I,II,III,IV,V,VI,VII	
1.13	Failure register updated	
1.14	Reserve stock of consumables and spare parts	







Sr.no.	I t e m s	Prevailing Conditions	
<b>2.0 ENGINE:- TBD 234 V 12 GREAVES/Cummins VTS 1710 L</b>			
2.1	Engine hours on date	_____ ERH	
2.2	Last top overhauling of the Engine if done	Dated _____	.....ERH
2.3	Starting problem	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.4	Condition of Self starter	Ok <input type="checkbox"/>	need attention <input type="checkbox"/>
2.5	Condition of smoke	White <input type="checkbox"/> Normal <input type="checkbox"/>	Black <input type="checkbox"/>
2.6	Leakage in Head gasket	Yes <input type="checkbox"/> Head no .....	No <input type="checkbox"/>
2.7	Belt condition and tension	Ok <input type="checkbox"/>	To be tightened <input type="checkbox"/>
2.8	Calibration of fuel injection pump/PT pump (to be done after every 2000 hrs)	done <input type="checkbox"/>	due <input type="checkbox"/>
2.9	RPM of the Engine (Rated 2200)	Actual-----	
2.10	Calibration of Fuel Injectors (to be done after every 2000hrs)	done <input type="checkbox"/>	due <input type="checkbox"/>
2.11	Change of Air Cleaner filters (500 Hrs Duration)	Dated <input type="checkbox"/>	ERH <input type="checkbox"/>
2.12	Change of engine oil (250/300 Hrs duration)	done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.13	Change of lub oil filter (250/300 Hrs duration)	done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.14	Engine oil pressure a) 1.5 Kg/cm <sup>2</sup> at idle speed 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"/>
2.15	Engine temperature after two hours working (Optimum range 75 <sup>0</sup> c to 85 <sup>0</sup> c)	.....°C	
2.16	Any abnormal sound	Yes <input type="checkbox"/>	No <input type="checkbox"/>



Sr.no.	I t e m s	Prevailing Conditions TBD 234 V 12/Cummins VTS 1710 L	
2.17	Whether working gauges/display are in order or not		
	a) R.P.M i) In working 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 (In working cabin)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	c) Water & Lub. oil temp. (In working cabin)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	d) Speedometer/ Tachometer i) In working 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	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	f) Hydraulic oil level gauge	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	g) Hydraulic oil temp. gauge	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.18	Change of diesel filters (250/300 Hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
2.19	Condition of battery terminals	Ok <input type="checkbox"/>	To be tightened <input type="checkbox"/>
2.20	Battery charging system	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
2.21	Condition of batteries	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
2.22	Electrolyte level in batteries (Plates should be embedded in electrolyte)	Ok <input type="checkbox"/>	Need Top up <input type="checkbox"/>
2.23	Specific gravity of electrolyte (min 1.24)	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
2.24	Condition of silencer asbestos rope	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>
2.25	Function of air compressor	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
2.26	Condition of water radiator	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
2.27	Overall condition of engine	satisfactory <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>

Remark :-----  
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S. No.	Items	Agent / Description	Prevailing Condition	
<b>3.0 OIL LEVELS</b>				
3.1	Hydraulic oil	HLP - 68 /equivalent	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
3.2	Diesel tank	HSD	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
3.3	Axle gear box	HLP – 68/equivalent	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
3.4	Main gear box	HLP – 68/equivalent	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
3.5	Engine lube oil	15W40CF4/equivalent	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
3.6	Conveyor gear box	HLP – 68/equivalent	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
3.7	Turn table container	HLP – 68/equivalent	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
3.8	Turret drum container	HLP - 68 /equivalent	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
3.9	Vibration drum	HLP – 68/equivalent	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
<b>4.0 POWER TRANSMISSION:</b>				
4.1	Oil leakage in gear boxes	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
4.2	Play in universal joint	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>	
4.3	Clutch adjustment	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>	
4.4	Greasing of Cardon shaft	done <input type="checkbox"/>	Not done <input type="checkbox"/>	
4.5	Condition of master cylinder of clutch	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>	
4.6	Condition of torque support	Ok <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>	
<b>5.0 EXCAVATION UNIT:</b>				
5.1	Condition of Wear plates	Satisfactory <input type="checkbox"/>	To be attended <input type="checkbox"/> No. ....	
5.2	Condition of excavating chain & Finger	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>	
5.3	Central lubrication system	Working <input type="checkbox"/>	Not working <input type="checkbox"/>	

Remark :-----  
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S. No.	Items	Prevailing Condition	
<b>6.0 SCREENING UNIT &amp; DISTRIBUTOR:</b>			
6.1	Working of ballast distribution chute	Ok <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>
6.2	Vibration of the screening unit	Ok <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>
6.3	Greasing of screen bearing	Ok <input type="checkbox"/>	To be done <input type="checkbox"/>
6.4	Condition of screen meshes & chute plates	Ok <input type="checkbox"/>	To be replaced <input type="checkbox"/>
6.5	Condition of flapper cylinder	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
6.6	Condition of wing plate	Ok <input type="checkbox"/>	To be replaced <input type="checkbox"/>
6.7	Condition of rubber pads	Ok <input type="checkbox"/>	To be replaced <input type="checkbox"/>
6.8	Weather screen is clean or not	clean <input type="checkbox"/>	not clean <input type="checkbox"/>
6.9	Working condition of ballast regulating system	Ok <input type="checkbox"/>	To be attend <input type="checkbox"/>
<b>7.0 HYDRAULIC AND PNEUMATIC PRESSURE &amp; TEMPERATURE</b>			
7.1	Work drive pressure (Max. <sup>m</sup> 380 bar)	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
7.2	Chain drive pressure (Max. <sup>m</sup> 340 bar)	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
7.3	Vibration pressure (Max. <sup>m</sup> 340 bar)	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
7.4	Oil cylinder pressure (Max. <sup>m</sup> 120 bar)	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
7.5	Conveyor belt pressure (Max. <sup>m</sup> 200 bar)	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
7.6	Cooler pressure (Max. <sup>m</sup> 120 bar)	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
7.7	Maximum Hydraulic oil temperature during work (below than 80 °c)	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
7.8	Pneumatic pressure (Max. <sup>m</sup> 7 bar)	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
<b>8.0 CONVEYOR BELTS:</b>			
8.1	Condition of conveyor belts	Ok <input type="checkbox"/>	To be replaced <input type="checkbox"/>
8.2	Tension in the conveyor belts	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
8.3	Hydraulic slew ability of waste conveyor belts (left & right)	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
8.4	Hydraulic slew ability of conveyor belts for movement	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
8.5	Proper positioning of waste conveyor belts (It should be at lower position)	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
8.6	Locking/unlocking devices of conveyor belt	Working <input type="checkbox"/>	Not working <input type="checkbox"/>



S. No.	I t e m s	Prevailing Condition	
8.7	Condition of waste conveyor safety system	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
8.8	Greasing of main conveyor bearing (50 Hrs)	Ok <input type="checkbox"/>	To be done <input type="checkbox"/>
8.9	Condition of idle rollers	Ok <input type="checkbox"/>	To be replaced <input type="checkbox"/>
<b>9.0 ELECTRICAL AND ELECTRONICS</b>			
9.1	Working Head light, Tail light and other light	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
9.2	Flasher light	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
9.3	Hooter	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
9.4	Working of Electric Horn	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
9.5	Defective /Released PCB available with machine	Part no .....	
<b>10.0 PNEUMATICS</b>			
10.1	Condition and clearance of brake shoes	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
10.2	Condition of pneumatic plough cylinder	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
10.3	Condition of KE valve (indirect brake)	Working <input type="checkbox"/>	Not working <input type="checkbox"/>
<b>11.0 UNDER FRAME INSPECTION</b>			
<b>11.1 UNDER FRAME</b>			
11.1.1	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"/>
11.1.2	Examine the shock absorber for damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.1.3	Visual Inspect centre pivot cover.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.1.4	Check condition of head stock/sole bar of centre buffer Coupler.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>11.2 BOGIE FRAME &amp; WHEELS</b>			
11.2.1	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"/>
11.2.2	Visual Inspection of wheels and under gear for any infringement.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.2.3	Visually inspect all the welding	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>



	locations.		
<b>S. No.</b>	<b>I t e m s</b>	<b>Prevailing Condition</b>	
11.2.4	Visually check the suspension brackets.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.3	<b>Brake Rigging</b>		
11.3.1	Visually check the rubbing plates.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.3.2	Examine brake beams breakages/ damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.3.3	Inspection of Brake hanger bracket and torque support for damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.4	<b>Draw Gear</b>		
11.4.1	Check condition of the screw coupling and replace if required.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.4.2	Examine draw hook, draw bars, rubber pads for damages	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.4.3	Ensure that wear at any section on draw hook should not exceed 10 mm.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
11.4.4	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"/>
11.5	<b>Buffing Gear</b>		
11.5.1	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"/>
11.5.2	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"/>
11.5.3	Visually examine the buffers casing for cracks/damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
<b>12.0</b>	<b>STAFF</b>		
12.1	Strength of staff as per IRTMM (second Edition)-2017	Full <input type="checkbox"/>	Deficient <input type="checkbox"/>
12.2	Safety awareness	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	Very good <input type="checkbox"/> Average <input type="checkbox"/>



12.3	Staff due for Medical	.....	
<b>S. No.</b>	<b>I t e m s</b>	<b>Prevailing Condition</b>	
12.4	Competency certificate of the Operator	Current <input type="checkbox"/>	Expired <input type="checkbox"/>
12.5	Staff due for training	.....	Overdue <input type="checkbox"/>
12.6	Staff availing rest on due date	Yes <input type="checkbox"/>	No <input type="checkbox"/>
12.7	Staff amenities as per up to date IRTMM (Second Edition)-2017.	Satisfactory <input type="checkbox"/>	Poor <input type="checkbox"/>
<b>13.0 SAFETY ITEMS:</b>			
13.1	Safety equipment as per Annexure-I	Available <input type="checkbox"/>	deficient <input type="checkbox"/>
13.2	Working of safety Emergency Braking System of the machine	Ok <input type="checkbox"/>	Defective <input type="checkbox"/>
13.3	Fire extinguisher	Current <input type="checkbox"/>	Expired (Date.....) <input type="checkbox"/>
13.4	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"/>

Remark :-----  
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Date.....

Signature of inspecting officer



**List of Safety Equipments**

Sr. No.	Description	Quantity	Available Yes (√)/No (x)
1.	Red hand signal flags	2 Nos.	
2.	Green hand signal flag	1 No.	
3.	Tri- colour hand signal lamps/LED torch	2 Nos.	
4.	Chain With Padlock	2 Nos.	
5.	Fire Extinguisher	One per cabin	
6.	Hooter ( Manually Controlled)	2 Nos.	
7.	Jack 10 t	2 Nos.	
8.	Jack 50 t	1 No	
9.	Wooden Blocks	4 Nos.	
10.	Crow bars	4 Nos.	
11.	Hydraulic hand pump	1 No.	
12.	Emergency Pneumatic/Hydraulic hose off size suiting to different machines (complete with end fitting )	As per requirement	
13.	Wire rope with close loops at both ends 2 meters and 9 meters long one of each length	As per requirement	
14.	Machine Specific Equipment if any.	As per requirement	
15.	Fog signals ( detonators ) in a tin case	10 Nos.	
16.	A copy of working time table of this section where the machine is working	1 No.	
17.	G & SR book with up to date amendment slips	1 No.	
18.	4 cells flasher light LED lamp cum flasher light (rechargeable )	1 No.	
19.	Banner flags	2 Nos.	
20.	First aid Box	1 No.	
21.	Skids	2 Nos.	
22.	Safety helmet, protection clothing, safety shoes, safety gloves etc.	All machine staff	
23.	Walkie talkie with frequency of SM, guard and loco pilots	2 Nos.	
24.	Internal communication system walkie talkie and /or head mounting system	-	
25.	Track machine manual with up to date correction slip	1 No.	
26.	Accident manual	1 No.	
27.	Tail Lamp	1 No.	

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



## **ACKNOWLEDGEMENT**

Following officer and staffs have made their valuable contributions in finalization of inspection check list (Rev.1) for Shoulder Ballast Cleaning Machine (FRM-80)

### **RAILWAYS :-**

- |    |                      |             |
|----|----------------------|-------------|
| 1. | Shri Babu Lal Bairwa | SSE/TMC/NCR |
|----|----------------------|-------------|

### **RDSO:-**

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|----|-----------------------|---------|
| 1. | Shri Muslim Ahmad     | ARE/TM  |
| 2. | Shri V. P. Srivastava | SSE/TM  |
| 3. | Shri Ravi Kumar       | SSRE/TM |