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TM/HM/TRT/Pt-III

Date: 23-01-2020

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

विषय: ट्रैक रिलेइंग ट्रेन (टी०आर०टी०) मशीन की निरीक्षण जाँच सूची (संशोधन-1)

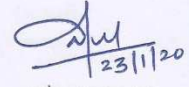
Sub: Inspection Check List for Track Relaying Train (TRT) Revision-1

ट्रैक रिलेइंग ट्रेन (टी०आर०टी०) की निरीक्षण जाँच सूची का (संशोधन-1) तैयार की गयी है। जिसकी प्रति, आप के सूचनार्थ तथा मशीन के कर्मचारियों जो फील्ड में कार्य कर रहे हैं के मार्गदर्शन हेतु संलग्न है। यद्यपि उपरोक्त संशोधन बनाते समय सभी सावधानियाँ बरती गई हैं, फिर भी यदि कोई त्रुटि हो तो, कृपया अपने सुझावों/ टिप्पणियों को सुधार हेतु ई-मेल/फैक्स ध्वजाचार द्वारा अद्योहस्ताक्षरी को भेजे।

Revision-1 of Inspection Checklist for Track Relaying Train (TRT) has been prepared. A copy of the same is being enclosed herewith for your information and guidance of the machine staff working in the field. However every care has been taken during revision 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.

(E-mail: hmtmrdso@gmail.com)

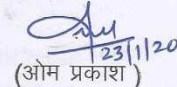
DA: As above


23/1/20

(ओम प्रकाश)

निदेशक रेलपथ मशीन -III

Copy : 1. Executive Director/ Track (MC), Railway Board, Rail Bhawan, New Delhi- 110001.
2. Director/IRCEN, Pune-411001.


23/1/20

(ओम प्रकाश)

निदेशक रेलपथ मशीन -III

P.T.O.

I- मुख्य अभियन्ता (ट्रैक मशीन)

- 1.0 मध्य रेलवे, सीएसटी, मुम्बई-400 001
- 2.0 फेयरली प्लेस, पूर्व रेलवे, कोलकाता-700 001
- 3.0 बड़ोदा 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 निलयम, 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

Chief Engineer (Track Machines)

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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

II- मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन)

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- 2.0 सी.पी.ओ.एच. कार्यशाला, दक्षिण मध्य रेलवे, रायनापाडु, विजयवाडा, जिला कृष्णा, आन्ध्र प्रदेश. 521241
- 3.0 सी.पी.ओ.एच. कार्यशाला, पूर्व रेलवे भूतबगान रेलवे कॉलोनी कचरापारा पी.एस.-बिजपुर पी.ओ.-कांचरापारा पश्चिम बंगाल-743145
- 4.0 मुख्य अभियन्ता, सी.पी.ओ.एच., पश्चिम रेलवे मंडल रेल प्रबन्धक कार्यालय, चामुंडा माता मंदिर के पास नरोडा रोड, पोस्ट, सैजपुर बोधा, अहमदाबाद-382345

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

III- प्रधानाचार्य मारेरे.प.म.प्र.के. पीपल गांव इलाहाबाद-211011**Principal, IRTMTC, Pipal Gaon, Allahabad-211011**



**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS**

**INSPECTION CHECK LIST
OF
TRACK RELAYING TRAIN
(P811S)**



Report No- 107
(Revision-1)
January-2020

अनुसंधान अभिकल्प और मानक संगठन लखनऊ-226011
RESEARCH DESIGNS AND 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-2017 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 Revise Inspection check list for Track Relaying Train Machine (TRT) is prepared as recommended by OEM and suggestions received from different Railways.

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.

January-2020

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

TRACK RELAYING TRAIN

Name & Designation of Inspecting Officer :

Date of Inspection :

Machine No. :

Base Station /Division/Zone :

Location of work /Block Section / Road :

Block hours :

Progress :

S. No	Items	Remarks given by inspecting officer	
1.	General :		
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 reasons in Schedule I,II,III,IV,V,VI,VII		
1.13	Failure register updated		
1.14	Reserve stock of consumables and spare parts		
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"/>

S.No	Items	Prevailing Condition	
1.21	Pre and Post preparation for machine operation being done	Yes <input type="checkbox"/>	No <input type="checkbox"/>
1.22	Back-up system of machine	Satisfactory <input type="checkbox"/>	Poor <input type="checkbox"/>
1.23	Condition of tools & plants (spanner, wrench etc.)	Ok <input type="checkbox"/>	To be replaced <input type="checkbox"/>
1.24	Material available at site {as per critical spares parts list of TRT issued by RDSO/LKO}	Yes <input type="checkbox"/>	No <input type="checkbox"/>

History of Machine :

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S.No	Items	Prevailing Condition			
2. Engine Model No.: 855 C (P811S) Engine hours----- On date-----					
2.1	Radiator coolant level	Ok	<input type="checkbox"/>	Less	<input type="checkbox"/>
2.2	HSD oil level	Ok	<input type="checkbox"/>	Less	<input type="checkbox"/>
2.3	Engine lube oil level	Ok	<input type="checkbox"/>	Less	<input type="checkbox"/>
2.4	Starting problem	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
2.5	Condition of smoke	White	<input type="checkbox"/>	Black	<input type="checkbox"/>
		Normal	<input type="checkbox"/>	Blue	<input type="checkbox"/>
2.6	Engine temperature after 2 Hrs working	Actual ----- °C			
2.7	Leakage in Head gasket	No	<input type="checkbox"/>	Yes (Head no.-)	<input type="checkbox"/>
2.8	Electrolyte level in batteries	Ok	<input type="checkbox"/>	Less	<input type="checkbox"/>
2.9	Specific gravity of electrolyte (min 1.24)	Ok	<input type="checkbox"/>	Less	<input type="checkbox"/>
2.10	Compression leakage	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
2.11	V-Belt tension	Ok	<input type="checkbox"/>	To be tightened	<input type="checkbox"/>
2.12	Condition of V-belts	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
2.13	Leakage in engine hoses	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
2.14	Condition of battery terminals	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
2.15	RPM of the Engine	Ok	<input type="checkbox"/>	Need attention (Rated rpm.....)	<input type="checkbox"/>
2.16	Engine oil pressure	Actual---			
2.17	a) 1.5 Kg/cm ² at idle speed b) 2.5 Kg/ cm ² on rated speed after 2 hours working				
2.18	Last change of Air Cleaner element	Done	<input type="checkbox"/>	Due	<input type="checkbox"/>
		Date.....			
2.19	Last change of engine oil	Done	<input type="checkbox"/>	Due	<input type="checkbox"/>
		Date.....			
2.20	Last change of engine oil filters	Done	<input type="checkbox"/>	Due	<input type="checkbox"/>
		Date.....			
2.21	Last change of diesel filters	Done	<input type="checkbox"/>	Due	<input type="checkbox"/>
		Date.....			
2.22	Last changing / Replacement of batteries	Done	<input type="checkbox"/>	Due	<input type="checkbox"/>
		Date.....			
2.23	Last change of self starter	Done	<input type="checkbox"/>	Due	<input type="checkbox"/>
		Date.....			
2.24	Last Change of air compressor	Done	<input type="checkbox"/>	Due	<input type="checkbox"/>
		Date.....			
2.25	Last repair / change of alternator	Done	<input type="checkbox"/>	Due	<input type="checkbox"/>
		Date.....			
2.26	Last over-hauling of the Engine	Done	<input type="checkbox"/>		
		Date.....			

S.No	Items	Prevailing Condition	
2.27	Last calibration of fuel injection pump	Done <input type="checkbox"/> Date.....	Due <input type="checkbox"/>
2.28	Last calibration of Fuel Injectors	Done <input type="checkbox"/> Date.....	Due <input type="checkbox"/>
2.29	Whether working gauges are in order	Done <input type="checkbox"/> Date.....	Due <input type="checkbox"/>
	(a) R.P.M.	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
	(b) Oil Pressure	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
	(c) Temperature	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
	(d) Battery charging	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.	Main Machine :		
3.1	Sled chain lubrication by lube oil	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.2	N.T. rubber pads by lube oil	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.3	Clutch and drive shafts universals by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.4	Old sleeper pick up mechanism by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.5	New sleepers drop mechanism by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.6	Magazine rollers by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.7	Dynamic plow by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.8	Conveyor shaft bearings by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.9	Conveyor chain by lube oil	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.10	Cardon shaft by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.11	All thread in and thread out rollers by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.12	Pump control linkage by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.13	Track laying frame stabilizer arms by grease	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.14	Tightness of all nuts & bolts	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.15	Sled chain Tension	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.16	Fingers of pick up unit	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.17	Condition of sled rollers	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.18	Sled chain Lubrication	Done <input type="checkbox"/>	Not done. <input type="checkbox"/>
3.19	N.T.rubber pads Lubricated	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
3.20	Clutch and drive shafts universals Greasing	Done <input type="checkbox"/>	Not done <input type="checkbox"/>

S.No	Items	Prevailing Condition	
3.21	Condition of sled sprocket and chains	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.22	Condition of Rail alignment rollers	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.23	Leakage from hydraulic system	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.24	Leakage from exhaust vent	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.25	Clearance between brake shoes and wheels	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.26	Condition of machine working tools	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
3.27	All log books filled properly	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4. GANTRY			
4.1	Coolant level in radiator	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
4.2	Engine lube oil level	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
4.3	Hydraulic oil level	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
4.4	Lube oil pressure after 2 Hrs working	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.5	V-Belt tension	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.6	Brake application	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.7	Tightness of nuts & bolts	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.8	Condition of brake shoes	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.9	Condition of lock pins of all bridges and gantry rails of BRH	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.10	Leakage from exhaust vent	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.11	Condition of Rope	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.12	Condition of drive chain for excess wear & developing cracks	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.13	Condition of bearing, pins and gear teeth for excessive wear	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
4.14	Gantry wheel bearings	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
4.15	Intermediate gear bearings	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
4.16	Cardon shafts	Done <input type="checkbox"/>	Not done <input type="checkbox"/>

S.No	Items	Prevailing Condition	
Under Frame Inspection			
5.1. Under Frame			
5.1.1.	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"/>
5.1.2.	Examine the shock absorber for damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.1.3.	Check condition of head stock/sole bar of centre buffer Coupler	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.1.4.	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"/>
5.1.5.	Examine the shock absorber for damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.1.6.	Check condition of head stock/sole bar of centre buffer Coupler	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.2. Bogie frame & Wheels			
5.2.1.	Visual Inspection of wheels and under gear for any infringement	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.2.2.	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"/>
5.2.3.	Visually inspect all the welding locations.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.2.4.	Visually check the suspension brackets.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.3. Brake Rigging			
5.3.1.	Visually check the rubbing plates.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.3.2.	Examine brake beams breakages/ damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.3.3.	Inspection of Brake hanger bracket , torque support , cardan shaft hanger brackets for damages	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>

S.No	Items	Prevailing Condition	
5.4. Draw Gear			
5.4.1.	Check condition of the screw coupling and replace if required.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.4.2.	Examine draw hook ,draw bars, rubber pads for damages	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.4.3.	Ensure that wear at any section on draw hook should not exceed 10 mm.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.4.4.	Ensure that wear on screw coupling shackle pins, trunion pins, shackle/link holes and draw hook holes should not exceed 3mm.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.4.5.	Check condition of draw beam and locking pins on it.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.4.6.	Examine visually draft key locking pins.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.5. Buffing Gear			
5.5.1.	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"/>
5.5.2.	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"/>
5.5.3.	Visually examine the buffers casing for cracks/damages.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.6. Running Gear and Wheels			
5.6.1.	Visually inspect axle box covers.	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.6.2.	Inspect wheel tread for shattered rim, spread rim, shelled tread, thermal cracks, heat checks	Ok <input type="checkbox"/>	To be attended <input type="checkbox"/>
5.6.3.	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"/>
Any other remarks by Inspecting Officer :			

Signature of inspecting authority

LIST OF SAFETY TOOLS

S.No.	Description	Quantity
1	Red hand signal flags	2 Nos
2	Green hand signal flags	1 No
3	Tri- colour hand signal lamps/LED torch	2 Nos
4	Chain With Padlock	2 Nos.
5	Fire Extinguisher	1 No
6	Hooter (Manually Controlled)	2 Nos.
7	Jack 50t Traverse type	2 Nos.
8	Wooden Blocks	10 Nos.
9	Crow bars	4 Nos.
10	Hydraulic hand pump	1 No.
11	Emergency Hydraulic hose off size suiting to different machines (complete with end fitting)	-
12	Machine Specific Equipment if any.	-
13	Fog signals (detonators) in a tin case	10 Nos.
14	A copy of working time table of this section where the machine is working	1 No
15	G & SR book with up to date amendment slips	1 No.
16	4 cells flasher light LED lamp cum flasher light (rechargeable)	1 No.
17	Banner flags	2 Nos.
18	First aid Box	1 No
19	Skids	2 Nos
20	Safety Helmet for all machine staff	For all Staff
21	Protection clothing , safety shoes and safety gloves	For all Staff
22	Walkie talkie with frequency of SM, guard and loco pilots	2 Nos
23	Internal communication system Walkie talkie and / or head mounting system	For all Staff
24	Track machine manual with up to date correction slip	1 No
25	Accident manual	1 No
26	Tail Lamp	1 No
27	Wire rope 2 meters and 9 meters with close loop	01 No each

ACKNOWLEDGEMENT

Following officers and staff have made their valuable contributions in finalization of the Inspection Check List for Track Relaying Train (P811S).

RAILWAYS

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|----|------------------|---------------|
| 1. | SRI P.K. MISHRA | SSE/TM/TRT/NR |
| 2. | " VIBHUTI SHARMA | SSE/TM/TRT/NR |
| 3. | " B.D.S.Rawat | SSE/TM/TRT/NR |

RDSO

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|----|--------------------|---------|
| 1. | SRI Muslim Ahmad | ARE/TM |
| 2 | " Prem Kumar | SSRE/TM |
| 3. | " V.P. Srivastava, | SSE/TM |