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TM/HM/UNI/pt.IV

Date : 04-11-2017

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  14. पूर्व तट रेलवे, भुवनेश्वर-751 001
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**Chief Engineer (Track Machines)**

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विषय : Unimat 08-275 & 08-275 3S की निरीक्षण जांच सूची के संशोधन -1  
Sub: Revision-1 of Inspection check list of Unimat 08-275 & 08-275 3S

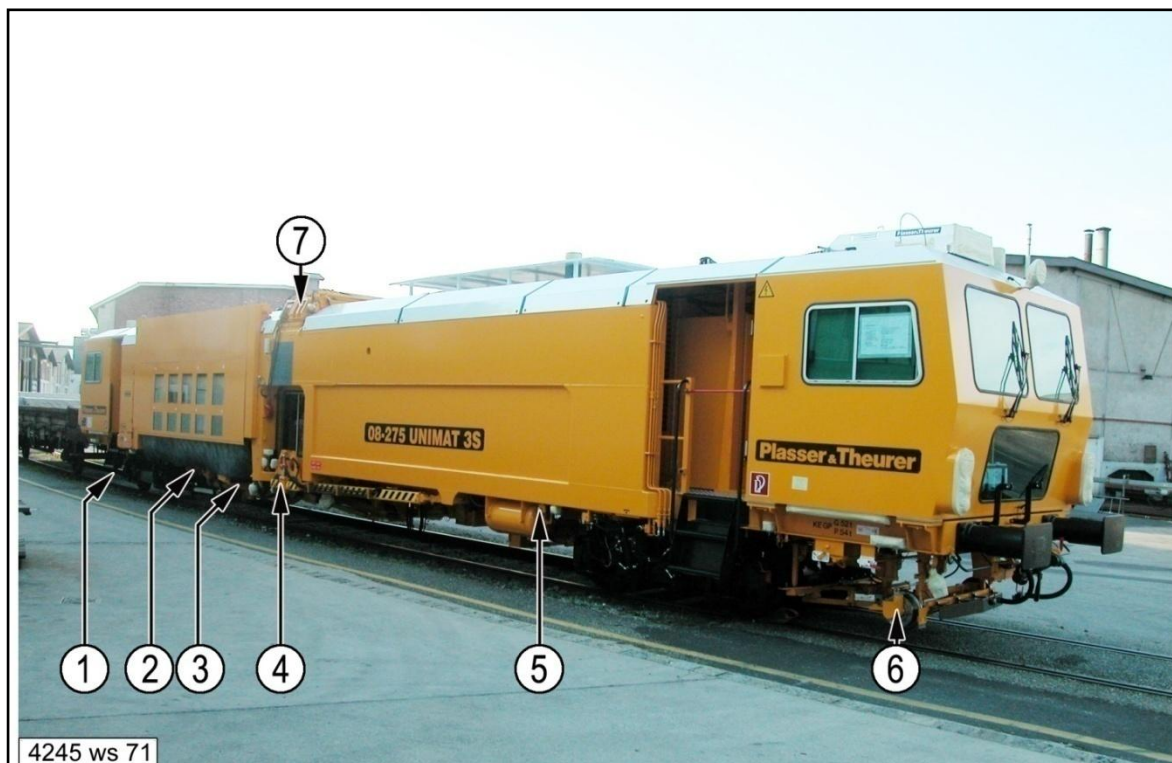
Unimat 08-275 & 08-275 3S की निरीक्षण जांच सूची (टीएम-रिपोर्ट-71) पत्र सं. टीएम/एच/एम /15 सितम्बर का संशोधन - 1 तैयार किया गया है। जिसकी प्रति, आपके सूचनार्थ तथा मशीन के कर्मचारियों जो फील्ड में काम कर रहे हैं, के मार्गदर्शन हेतु संलग्न है। यद्यपि उपरोक्त संशोधन बनाते समय सभी सावधानियाँ बरती गई हैं, फिर भी यदि कोई त्रुटि हो तो, कृपया अपने सुझावों/ टिप्पणियों को सुधार हेतु ई-मेल/ फ़ैक्स/पत्राचार द्वारा अद्योहस्ताक्षरी को भेजे।

Revision-1 for the Inspection check list (TM Report-71) of Unimat 08-275 & 08-275 3S, issued vide letter no. TM/HM/15 Sept. 2004, has 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 has been taken during revision of the above said list, the discrepancy noticed, if any, may be come to the knowledge of the undersigned for further improvement, by email/fax/post.

DA: As above

(मुक्ति भूदनागर)  
कार्यकारी निदेशक, रेलपथमशीन

## INSPECTION CHECK LIST FOR P&C TAMPING MACHINE (08-275 & 08-275-3S)



REPORT NO TM- 71  
(Revision 1 of 2004)  
November -2017

## INSPECTION OF UNIMAT 2S&3S

Name & Designation of Inspecting  
Official :

Date of Inspection :

Machine No. :

Base Station/division :

Location of working :

Block hours :

progress :

### 1. General :

S. No	Items	Remarks given by inspecting officer
I.	Name of supervisor	
II.	Machine make	
III.	Year of manufacturing	
IV.	First POH of Machine done on	
V.	Last IOH of M/C done on	
VI.	Next IOH of M/C due on	
VII.	Last POH of M/C done on	
VIII.	Next POH of M/C due on	
IX.	Last POH of camping coach done on	
X.	Next POH of camping coach due on	
XI.	All log book filled properly	
XII.	Pending Maintenance Schedule and reasons Schedule I,II,III,IV,V,VI,VII	

History of Machine:-----  
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S. No.	I t e m s	Prevailing Condition	
<b>2.</b>	<b>Mode of Working</b>		
I.	Pre and Post Tamping Operations being Done	Yes <input type="checkbox"/>	No <input type="checkbox"/>
II.	Depth of Clean Cushion under Sleeper (required min. is 150 mm)	Actual—	
		OK <input type="checkbox"/>	Less <input type="checkbox"/>
III.	Condition of Ballast	Caked <input type="checkbox"/>	clean <input type="checkbox"/>
IV.	Lifting working mode	Proportional (smoothing) <input type="checkbox"/>	design <input type="checkbox"/>
V.	Working method	Manual <input type="checkbox"/>	Measuring run <input type="checkbox"/>
VI.	Hydraulic leakage from circuit	Location ----- <input type="checkbox"/>	
VII.	Pneumatic leakage from circuit	Location ----- <input type="checkbox"/>	
VIII.	Overall condition of the Machine health	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	Very good <input type="checkbox"/> Average <input type="checkbox"/>
IX.	Application of brake a) Service brake b) Emergency brake c) Brake during working d) Hand operated brake	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
X.	Application of service brake	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
XI.	Overall Machine working performance	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>

**Remarks.**

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### 3. Oil/water/level in tank/container

S. No.	Items	Agent / Description	Prevailing Condition	
I.	Hydraulic oil	Tellus Oil TE46(Shell)	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
II.	Radiator	cooling agent/Water	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
III.	ZF Gear Box	Rimula super (Shell)	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
IV.	Intermediate Gear Box	Spirax G80W90(Shell)	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
V.	Reduction Gear Box	Spirax G80W90(Shell)	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
VI.	Engine Lube oil	Rimula super15W40(Shell)	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
VII.	Change Lube oil on due date (After every 300hrs)	Rimula super15W40(Shell)	done <input type="checkbox"/>	not done <input type="checkbox"/>
VIII.	Air oiler	Tellus Oil TE46(Shell)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
IX.	Vibration shaft main bearing	Tellus Oil S-100(Shell)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
X.	Centralized lubrication unit (if provided)	Shell Alvaina Grease RL2	Yes <input type="checkbox"/>	No <input type="checkbox"/>
XI.	Tamping arm bearing	Tellus Oil S-100(Shell)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
XII.	Driving Axle Gear Box I	Spirax G80W90(Shell)	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
XIII.	Driving Axle Gear Box II	Spirax G80W90(Shell)	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
XIV.	Power Axle Gear Box III	Spirax G80W90(Shell)	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>
XV.	Compressor lube oil (if used)	CF-4 15W40	OK <input type="checkbox"/>	Need top up <input type="checkbox"/>

\*equivalent of servo system HLP68N list issued by RDSO vide I.n.TM/HM/Oils dated dt.26/07/2012

Remarks-----  
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#### 4.Filters

S. No.	I t e m s	Prevailing Condition Remark	
I.	Cleaning of Air Cleaner filters outer (1no) (Cleaned after every 250hrs or on dirt indication and change after 1000hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
II.	Change of air cleaner inner (1no) ( after every 1000hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
III.	Change of engine oil filters (1no) ( after every 300 hrs )	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
IV.	Change of diesel filters (2nos) (To be done after every 300 hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
V.	Change of ZF gear box filter (1no) ( after every 500hrs or on choke indication)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
VI.	Change of Servo valve filter (2nos) (after every 250hrs or on choke indication)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
VII.	Change of proportional valve filter (2no) ( after every 250hrs or on choke indication)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
VIII.	Change of return filter (2nos) ( after every 500hrs or on choke indication)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
IX.	Change of suction filter (3nos) (after every 500hrs or on choke indication)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
X.	Change of air dryer filter if used (2nos) (after every 500hrs or at least once year)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>

Remarks-----  
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## 5.Lubrication (Oiling & Greasing as per maintenance schedule)

S.No.	Item	Agent / Description	Prevailing Condition	
5.1Tamping units				
I.	Vibration shaft main bearing	Grease shell alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
II.	Tamping unit guide column	Grease shell alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
III.	Connecting rod bearing of squeezing cylinder lateral shifting cylinder, adjusting cylinder, lifting cylinder, frame slewing cylinder and slewing pin	Grease shell alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
IV.	Tamping unit guiding plate and deflection pulley	Grease shell alvania RL2	Yes <input type="checkbox"/>	No <input type="checkbox"/>

**Note-** if machine is equipped with auto greasing unit for some part/section working of it should be ensured time to time

### 5.2 Lifting and lining units

I.	Lifting cylinder pivot	ShellTellus-100	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
II.	Clamp bolt & Clamp	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
III.	Locking device of lifting/ lining unit	ShellTellus-100	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
IV.	Sliding plate	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
V.	Lining roller	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
VI.	Vertical/longitudinal hook guide	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>

Remarks-----  
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S.No.	Item	Agent / Description	Prevailing Condition	
5.3Cardon shaft				
I.	Engine to ZF gear box	Grease Shell Alvania RL2 /	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
II.	ZF to power divider gear box	Grease Shell Alvania grease RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
III.	Power divider gear box to driving axle-I	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
IV.	Power divider gear box to Intermediate shaft drive	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
V.	Intermediate shaft to Driving axle-II	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
5.4 Miscellaneous				
I.	Sensing rod , guide bush and deflection pulley of Measuring bogie	Oil Servo system- 100	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
II.	Torque arm pivot	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
III.	King pin pivot	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
IV.	Gear box flange cover of driving and idle bogies	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
V.	All balls and socket pivot point	Oil by Servo system- 100	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
VI.	Sensing feeler rod, tensioning trolley, guide bush and chord displacement assembly of Front tension bogie.	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
VII.	Brake linkage, brake lever bearing & Brake rod	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
VIII.	Guide rod & lateral plate of measuring trolley	Oil Servo system- 100	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
IX.	Lateral guide & guide rod of lining trolley	Grease Shell Alvania RL2	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
X.	Suspension of machine bogie	Grease Shell Alvania RL2		

Remarks-

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6.Engine Model no.:

Engine hours on date-

S.no	Items	Prevailing Condition	
I.	Over-hauling of the Engine as per Main. Schedule	Due <input type="checkbox"/>	Not due <input type="checkbox"/>
II.	Starting problem	No <input type="checkbox"/>	Required attention <input type="checkbox"/>
III.	Condition of smoke	White <input type="checkbox"/> Normal <input type="checkbox"/>	Black <input type="checkbox"/>
IV.	Engine temperature during working Cummins Engine: Optimum 75 to 85°C	Actual ----- °C	
		Ok <input type="checkbox"/>	Required attention <input type="checkbox"/>
V.	Leakage in Head gasket	No <input type="checkbox"/>	Yes <input type="checkbox"/> (Head no.- )
VI.	Compressor leakage	Yes <input type="checkbox"/>	No <input type="checkbox"/>
VII.	Belt condition and tension	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
VIII.	Leakage of water from water pump, seal hose and radiator	No <input type="checkbox"/>	Required attention <input type="checkbox"/>
IX.	RPM of the Engine (rated 2100)	Actual---	
		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
X.	Engine oil pressure (minimum)		
XI.	<b>Engine CUMMINS</b> Minimum 1-2 Kg/cm <sup>2</sup> at idle rpm Minimum 3-7 Kg/cm <sup>2</sup> on rated rpm after 2 hours working	Actual--- Actual---	
XII.	Overall condition of Engine	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>

Remarks

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## 7. Electrical and Electronics

S.no	Items	Prevailing Condition			
I.	Condition of battery terminals	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
II.	Condition of batteries	Ok	<input type="checkbox"/>	Not satisfactory	<input type="checkbox"/>
III.	Condition of self starter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
IV.	Condition of alternator	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
V.	Condition of Height transducer (2nos)	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VI.	Working of Lining galvanometer	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VII.	Working of X- Level galvanometer (2nos)	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VIII.	Working of Lifting indication voltmeter LHS	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
IX.	Working of Lifting indication voltmeter RHS	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
X.	Safety circuit for Engine	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XI.	Safety circuit for Driving	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XII.	Electrolyte level in batteries (Plates should be embedded in electrolyte)	Ok	<input type="checkbox"/>	Need top up	<input type="checkbox"/>
XIII.	Specific gravity of electrolyte (min 1.24)	Ok	<input type="checkbox"/>	Less	<input type="checkbox"/>

Remarks

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## 8. Gauges and meters working status

S.no	Items	Prevailing Condition			
I.	RPM meter in Working Cabin	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
II.	RPM meter in Front Cabin	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
III.	Speedometer/Tachometer working Cabin	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
IV.	Speedometer/Tachometer front Cabin	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
V.	Engine Oil Pressure meter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VI.	Engine Temperature meter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VII.	ZF oil pressure meter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VIII.	ZF oil temperature meter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
IX.	Battery charging meter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
X.	Battery voltage meter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XI.	Hydraulic oil pressure meters	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XII.	Hydraulic driving pressure meters	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XIII.	Pneumatic pressure meter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>

Remarks

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## 9. Pneumatic

I.	Air Oiler working properly	Yes <input type="checkbox"/>	Need attention <input type="checkbox"/>
II.	Water separator working properly	Yes <input type="checkbox"/>	Need attention <input type="checkbox"/>
III.	Working of dip cup	Yes <input type="checkbox"/>	Need attention <input type="checkbox"/>
IV.	Clearance between brake shoes and wheel	Ok <input type="checkbox"/>	To be changed <input type="checkbox"/>
V.	Working of brake application	Satisfactory <input type="checkbox"/>	To be changed <input type="checkbox"/>
VI.	Working of unloader valve	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
VII.	Locking system of lifting/lining units	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
VIII.	Locking system of tamping units	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
IX.	Locking system of lining trolley	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
X.	Locking system of front feeler trolley	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
XI.	Locking system of measuring feeler trolley	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>

Remarks

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## 10. Hydraulic Pressure and Operation

Sl no.	Items	Prevailing Condition	
		Recommended value	Actual value
I.	System Pressure	135-150bar	
II.	High Pressure System	150 bar	
III.	Squeezing pressure for concrete sleepers	135 -140 bar	
IV.	Accumulator pressure	85 bar (max)	
V.	Vibration pressures	185 bar -----	
VI.			
	Tamping unit interlocking pressure	80 bar	
VII.	Emergency pump pressure	130 bar ---- -----	
VIII.	Air condition pressure	210 bar ----- -----	
IX.	Hydraulic. brake pressure	30 to 70 bar --- -----	
X.	Air pressure	6-7 Kg/cm <sup>2</sup>	
XI.	ZF oil pressure	12-14 bar	
XII.	Hydraulic Oil Temperature after working of machine for 2 hrs. (Max limit 76 <sup>0</sup> c)	----- °C	

Remarks

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## 11.Miscellaneous:

Sl no.	Items	Prevailing Condition	
I.	Adjustment of track lifting roller height LHS	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
II.	Adjustment of track lifting roller height RHS	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
III.	Correction of alignment	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
IV.	Performance of Tamping unit up/down	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
V.	Performance of Lifting & Levelling	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
VI.	Condition of brake shoes	Ok <input type="checkbox"/>	To be changed <input type="checkbox"/>
VII.	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"/>
VIII.	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"/>

## 12.Safety Items and Staff Matter:

Sl no.	Items	Prevailing Condition	
I.	Safety equipment as per Annexure-I	Available <input type="checkbox"/>	deficient <input type="checkbox"/>
II.	Working of safety Emergency Braking System of the machine	Ok <input type="checkbox"/>	Defective <input type="checkbox"/>
III.	Competency certificate of operator	Current <input type="checkbox"/>	Expired <input type="checkbox"/>
IV.	Strength of staff	Full <input type="checkbox"/>	deficient <input type="checkbox"/>
V.	Safety awareness	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	V. Good <input type="checkbox"/> Average <input type="checkbox"/>
VI.	Staff due for Medical	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Remarks

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**Signature of inspecting authority**

**List of Safety Equipments**

S.No.	Description	Quantity
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 colour lamps	2 nos.
5.	Chain & Padlock	1 set
6.	Clamp with Padlock	2 nos.
7.	10 t jack	2 no.
8.	Crow bars	4nos.
9.	Wooden blocks of different sizes	4nos.
10.	Gauge cum level	1 no.
11.	Rail thermometer (dial type)	1 no.
12.	Banner flag	2 nos.
13.	Walky talky	2 nos.
14.	First Aid Box	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	1 no.
19.	LED Petromax	1 no.
20.	Safety helmets	For each Machine staff
21.	Protective clothing, safety shoes and safety gloves	For each Machine staff
22.	Track Machine Manual	1 no.
23.	Accident Manual	1 no.
24.	Fire extinguisher	1 no.
25.	Hooter (Manually/ Remote)	2 nos.
26.	Hydraulic Hand Pump	1 no.
27.	Emergency pneumatic/Hydraulic hose of sizes suiting to different machines(complete with end fittings)	1 no.

## ACKNOWLEDGEMENT

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### RAILWAYS

1. SHRI Vijay Kumar SSE/TMC/NCR

### RDSO

1. SHRIMuslim Ahmad ARE/TM
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