



भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226 011
EPBX (0522) 2451200
Fax (0522) 2458500

Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow - 226 011
DID (0522) 2450115
DID (0522) 2465310



TM/HM/WST/Pt.III

Date : 17-10-2018

- I- मुख्य अभियन्ता (ट्रैक मशीन)
1. मध्य रेलवे, सीएसटी, मुम्बई-400 001
 2. फेयरली प्लेस, पूर्व रेलवे, कोलकाता-700 001
 3. बडौदा हाउस, उत्तर रेलवे, नयी दिल्ली-110 001
 4. उत्तरपूर्व रेलवे, गोरखपुर 273012
 5. मालीगांव, उत्तरपूर्व सीमान्त रेलवे, गुवाहाटी-781 011
 6. पार्क टाउन, दक्षिण रेलवे, चेन्नई-600 003
 7. रेल निलायम, दक्षिण मध्य रेलवे, सिकन्दराबाद-500 371
 8. गार्डन रीच, दक्षिणपूर्व रेलवे, कोलकाता-700 043
 9. चर्चगेट, पश्चिम रेलवे, मुम्बई-400 020
 10. उत्तर पश्चिम रेलवे, जयपुर-302 001
 11. पूर्व मध्य रेलवे, हाजीपुर-844 101
 12. दक्षिण पश्चिम रेलवे, हुबली-580 023
 13. उत्तर मध्य रेलवे, इलाहाबाद-211 015
 14. पूर्व तट रेलवे, भुवनेश्वर-751 001
 15. पश्चिम मध्य रेलवे, जबलपुर-482 001
 16. दक्षिण पूर्व मध्य रेलवे, बिलासपुर-495 004
- II- उप मुख्य अभियन्ता (ट्रैक मशीन)
1. सी.पी.ओ.एच. कार्यशाला पो० धूमनगंज इलाहाबाद-221012
 2. सी.पी.ओ.एच. कार्यशाला, दक्षिण मध्य रेलवे, रायनापाडु, विजयवाड़ा, जिला कृष्णा, आन्ध्र प्रदेश 521241
- 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
Dy Chief Engineer (Track Machines)
CPOH WPRKSHOP, P.O. Dhoomanganj
Allahabad-221012
CPOH WPRKSHOP, South Central Railway,
Rayanapadu, Vijaywada, Dist. -
Krishna, Andhra Pradesh-521241
Principal, IRTMTC, Pipal
Gaon, Allahabad-211011

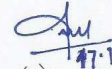
विषय : वी पी आर .02 एम वर्कसाइट टैम्पिंग मशीन प्लैट कार सहित की निरीक्षण जांच सूची का संशोधन -1 ।

Sub: Revision-1 of Inspection Check List of WST (VPR-02M) with flat car.

वी पी आर .02 एम वर्कसाइट टैम्पिंग मशीन प्लैट कार सहित की निरीक्षण जांच सूची (टीएम-रिपोर्ट-144) पत्र सं. टीएम/एच/एम /डब्ल्यूएसटी दि. 27.08.2010 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 सावधानियों 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।

Revision-1 of Inspection Check List of WST (VPR-02M), Worksite Tamping Machine with flat car (TM Report-144) issued vide letter no. TM/HM/WST dated 27-08-2010, 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


(ओम प्रकाश)
निदेशक रेलपथ मशीन-III



भारत सरकार
रेल मंत्रालय

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

वर्कसाइट टैम्पिंग मशीन वी०पी०आर(02 M) की निरीक्षण जांच सूची
(फ्लैट कार सहित)
“मेटेक्स”

Inspection Check List for Worksite Tamping Machine, VPR-02M
(with flat car)
“Metex”

रिपोर्ट संख्या—टी.एम.—144
Report No. TM - 144
(Revision-1 of 2018)

अक्टूबर —2018
October-2018

अनुसंधान अभिकल्प और मानक संगठन
लखनऊ—226011
RESEARCH DESIGNS & STANDARDS ORGANISATION
LUCKNOW- 226 011

S.No.	Items	Prevailing Condition	
2.	Mode of Working		
I.	Pre Tamping Operations being Done	Yes <input type="checkbox"/>	No <input type="checkbox"/>
II.	Post Tamping Operations being Done	Yes <input type="checkbox"/>	No <input type="checkbox"/>
III.	Depth of Clean Cushion under Sleeper (required min. is 150 mm)	Ok <input type="checkbox"/>	Less <input type="checkbox"/>
IV.	Condition of Ballast	Caked <input type="checkbox"/>	Clean <input type="checkbox"/>
V.	Lining working mode	smoothing <input type="checkbox"/>	design <input type="checkbox"/>
VI.	Levelling working mode	proportional <input type="checkbox"/>	design <input type="checkbox"/>
VII.	Method of input data	Manual <input type="checkbox"/>	computer <input type="checkbox"/>
VIII.	Parameter measured by computer	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3.	Staff		
I.	Strength of staff	Full <input type="checkbox"/>	Deficient <input type="checkbox"/>
II.	Safety awareness	Excellent <input type="checkbox"/> Good <input type="checkbox"/>	V. Good <input type="checkbox"/> Average <input type="checkbox"/>
III.	Competency certificate of SSE/JE	Current <input type="checkbox"/>	Expired <input type="checkbox"/>
IV.	Staff due for Medical	Yes <input type="checkbox"/>	No <input type="checkbox"/>
V.	Staff due for training	Yes <input type="checkbox"/>	No <input type="checkbox"/>
VI.	Staff availing rest on due date	Yes <input type="checkbox"/>	No <input type="checkbox"/>
VII.	Staff amenities(As per latest correction slip)	Available <input type="checkbox"/>	deficient <input type="checkbox"/>
VIII.	Condition of machine base siding	Satisfactory <input type="checkbox"/>	Not satisfactory <input type="checkbox"/>

Remarks.

4.Safety Items:				
S. 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.	Fire extinguisher	Valid	<input type="checkbox"/>	Date expired <input type="checkbox"/>
IV.	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"/>
V.	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"/>

5.Oil/water/level in tank/container				
S. No.	Items	Agent/Description	Prevailing Condition	
I.	Hydraulic oil	Shell Tellus T-46 or equivalent	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
II.	Radiator	Water with coolant	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
III.	Transmission gear box	SWA 32 / Shell Tellus -32	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
IV.	Fuel	HSD Oil	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
V.	Intermediate drive shaft Housing	SAE-90	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
VI.	Reduction Gear Box	SAE-90	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
VII.	Engine lube oil	15W-40 CF4	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
VIII.	Pump gear box	SAE90	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
IX.	Driving Axle Gear Box I	SAE-90	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
X.	Driving Axle Gear Box II	SAE-90	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>
XI.	Compressor lube oil (if used)	SP-100	OK	<input type="checkbox"/> Need top up <input type="checkbox"/>

Remarks.

6. Lubrication (Oiling & Greasing as per Maintenance Schedule)

S.No.	Item	Agent / Description	Prevailing Condition	
6.1 Tamping units				
I.	Vibration shaft main bearing LHS	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
II.	Vibration shaft main bearing RHS	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
III.	Tamping unit guide column LHS	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
IV.	Tamping unit guide column RHS	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
V.	Connecting rod bearing of squeezing cylinder lateral shifting cylinder, adjusting cylinder, lifting cylinder, frame slewing cylinder and slewing pin	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
VI.	Tamping unit guiding plate and deflection pulley	Grease RR3 or Equivalent	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				
6.2 Lifting and lining units				
I.	Lifting cylinder pivot	ShellTellus-100	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
II.	Clamp bolt & Clamp	Grease RR3 or Equivalent	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.	Lining roller LHS	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
V.	Lining roller RHS	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
6.3 Cardon shaft				
I.	Engine to transmission gear box	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
II.	transmission gear box to Intermediate shaft drive	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
III.	Intermediate shaft drive to Driving axles I	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
IV.	Axles I to Axles II	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
V.	Engine to pump gear box	Grease RR3 or Equivalent	Done <input type="checkbox"/>	Not done <input type="checkbox"/>

6.4 Miscellaneous					
S.No.	Item	Agent / Description	Prevailing Condition		
I.	Sensing rod , guide bush and deflection pulley of Measuring bogie	Grease RR3 or Equivalent	Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
II.	Torque arm pivot	Grease RR3 or Equivalent	Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
III.	All balls and socket pivot point	Oil Servo system- 100	Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
IV.	Sensing feeler rod, tensioning trolley, guide bush and chord displacement assembly of Front tension bogie.	Grease RR3 or Equivalent	Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
V.	Brake linkage, brake lever bearing & Brake rod	Grease RR3 or Equivalent	Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
VI.	Guide rod & lateral plate of measuring trolley	Oil Servo system- 100	Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
VII.	Guide rod of lining trolley	Grease RR3 or Equivalent	Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
VIII.	Suspension of machine bogie	Grease RR3 or Equivalent	Done	<input type="checkbox"/>	Not done <input type="checkbox"/>
7. Gauges and meters working status					
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 gauge		Ok	<input type="checkbox"/>	Need attention <input type="checkbox"/>
VI.	Engine Temperature gauge		Ok	<input type="checkbox"/>	Need attention <input type="checkbox"/>
VII.	Transmission gear box oil pressure gauge		Ok	<input type="checkbox"/>	Need attention <input type="checkbox"/>
VIII.	Transmission gear box oil temperature gauge		Ok	<input type="checkbox"/>	Need attention <input type="checkbox"/>

Remarks.

8. Engine Model no.:

Engine hours on date-

S.no	Items	Prevailing Condition	
I.	Last Over-hauling of the Engine	Date-	ERH-
II.	Over-hauling of the Engine as per Main. Schedule	Due <input type="checkbox"/>	Not due <input type="checkbox"/>
III.	Starting problem	No <input type="checkbox"/>	Required attention <input type="checkbox"/>
IV.	Condition of smoke	White <input type="checkbox"/> Normal <input type="checkbox"/>	Black <input type="checkbox"/>
V.	Engine temperature during working after 2 hrs. Optimum 75 °c to 85°c	Actual ----- °C	
		Ok <input type="checkbox"/>	Required attention <input type="checkbox"/>
VI.	Leakage in Head gasket	No <input type="checkbox"/>	Yes <input type="checkbox"/> (Head no.-)
VII.	Compressor leakage	Yes <input type="checkbox"/>	No <input type="checkbox"/>
VIII.	Belt condition and tension	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
IX.	Leakage of water from water pump, seal hose and radiator	No <input type="checkbox"/>	Required attention <input type="checkbox"/>
X.	RPM of the Engine (rated 2100)	Actual---	
		Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
XI.	Engine Oil Pressure a) Pressure at rated RPM 2.5 to 4 kg/cm ² b) Pressure at idle RPM 1 to 2 kg/cm ²	Actual--- Actual---	
XII.	Change of Engine oil (after every 250 hrs.)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
XIII.	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"/>
XIV.	Change of air cleaner inner (1no) (after every 1000 hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
XV.	Change of engine oil filters (1no) (after every 250 hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
XVI.	Change of diesel filters (2nos) (To be done after every 250 hrs)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
XVII.	Overall condition of Engine	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>

Remarks-----

9.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.	Electrolyte level in batteries (Plates should be embedded in electrolyte)	Ok	<input type="checkbox"/>	Need top up	<input type="checkbox"/>
IV.	Specific gravity of electrolyte (min 1.24)	Ok	<input type="checkbox"/>	Less	<input type="checkbox"/>
V.	Battery charging meter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VI.	Battery voltage meter	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VII.	Condition of alternator	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VIII.	Condition of Depth transducer LHS	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
IX.	Condition of Depth transducer RHS	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
X.	Condition of lining transducer	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XI.	Condition of measuring transducer	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XII.	Condition of Height transducer LHS	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XIII.	Condition of Height transducer RHS	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XIV.	Working of lining galvanometer	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XV.	Working of X- Level galvanometer (1nos)	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XVI.	Working of Lifting indication voltmeter LHS	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XVII.	Working of Lifting indication voltmeter RHS	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XVIII.	Safety circuit for Engine	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XIX.	Safety circuit for Driving	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XX.	Lights (head light & back light etc.)	Working	<input type="checkbox"/>	To be attended	<input type="checkbox"/>

Remarks

10. 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.	Clearance between brake shoes and wheel	Ok	<input type="checkbox"/>	To be changed	<input type="checkbox"/>
IV.	Working of brake application	Satisfactory	<input type="checkbox"/>	To be changed	<input type="checkbox"/>
V.	Working of unloader valve	Satisfactory	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VI.	Locking system of lifting/lining units	Satisfactory	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VII.	Locking system of tamping units	Satisfactory	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
VIII.	Locking system of lining trolley	Satisfactory	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
IX.	Locking system of front feeler trolley	Satisfactory	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
X.	Locking system of measuring feeler trolley	Satisfactory	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XI.	Pneumatic pressure gauge (system)	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XII.	Pneumatic brake pressure (3.8 bar)	Ok	<input type="checkbox"/>	Need attention	<input type="checkbox"/>
XIII.	Change of air dryer filter if used (2nos) (after every 500hrs or at least once a year)	Done	<input type="checkbox"/>	Not done	<input type="checkbox"/>
XIV.	Pneumatic leakage from circuit	Location -----			

Remarks-----

11. Hydraulic Pressure and Operation

SI no.	Items	Prevailing Condition	
		Recommended value	Actual value
I.	System Pressure	130-140 bar	
II.	High Pressure System	150 bar	
III.	Squeezing pressure for concrete sleepers	110 -120 bar	
IV.	Accumulator pressure	85 ±5 bar	
V.	Vibration pressures	150-170 bar	
VI.	Working brake pressure(Hydraulic)	110-140 bar	
VII.	Air pressure	6--7 bar	
VIII.	Hydraulic Oil Temperature after working of machine for 2 hrs. (Max limit 76 ⁰ c)	----- °C	
IX.	Change of Servo valve filter (2nos) (after every 250hrs or on choke indication)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
X.	Change of pressure filter (38PI 2000E250-2nos) (after every 500hrs or on choke indication)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
XI.	Change of return filter (1nos) (after every 500hrs or on choke indication)	Done <input type="checkbox"/>	Not done <input type="checkbox"/>
XII.	Hydraulic oil pressure meters	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>
XIII.	Hydraulic driving pressure meter (working)	Ok <input type="checkbox"/>	Need attention <input type="checkbox"/>

Remarks-----

12. Miscellaneous:

SI no.	Items	Prevailing Condition	
I.	Condition of tamping bank	Noisy	Smooth
II.	Condition of tamping tools	Ok	To be replaced
III.	Adjustment of track lifting roller height LHS	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
IV.	Adjustment of track lifting roller height RHS	Ok <input type="checkbox"/>	To be adjusted <input type="checkbox"/>
V.	Correction of alignment	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
VI.	Performance of Tamping unit up/down	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
VII.	Performance of Lifting & Levelling	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>
VIII.	Condition of brake shoes	Ok <input type="checkbox"/>	To be changed <input type="checkbox"/>
IX.	Hydraulic leakage from circuit	Location -----	
X.	No. of tamping arms developed play	Nos.	
XI.	Actual no. of tools with which machine is working	Nos.	
XII.	Condition of machine working tools (Spanner set etc.)	Satisfactory <input type="checkbox"/>	To be replaced <input type="checkbox"/>
XIII.	Spares available at site (as per Critical spares parts list)	Available <input type="checkbox"/>	deficient <input type="checkbox"/>
XIV.	Overall condition of the Machine health	Excellent <input type="checkbox"/> Very good <input type="checkbox"/>	Good <input type="checkbox"/> Average <input type="checkbox"/>
XV.	Overall Machine working performance	Satisfactory <input type="checkbox"/>	Need attention <input type="checkbox"/>

Remarks

Signature of inspecting authority

Annexure - I

List of Safety Equipments

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 colour Lamps/LED torch	2 nos.	
5.	Chain & Padlock	1 set	
6.	Point 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 flags	2 nos.	
13.	Walky talky with same frequency of SM, guard and loco pilots	2 nos.	
14.	Portable telephone	1 no.	
15.	Internal communication system walky talky and /or head mounting system	1 set	
16.	First Aid Box	1 no	
17.	Skids	4 nos.	
18.	Working time table of section where machine working	1 copy	
19.	G&SR book with up to date amendment slips	1 copy	
20.	4 cell flasher light/ LED torch,6watt() (rechargeable)	1 no.	
21.	Safety helmets	For each Machine staff	
22.	Protective clothing, safety shoes and safety gloves	For each Machine staff	
23.	Track Machine Manual with up to date correction slip	1 no.	
24.	Accident Manual	1 no.	
25.	Fire extinguisher	2 nos.	
26.	Hooter (Manually/ Remote)	2 nos.	
27.	Hydraulic Hand Pump	1 no.	
28.	Tail Lamp	1 no.	
29.	Emergency pneumatic/Hydraulic hose off sizes (complete with end fittings)	1 no.	

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

ACKNOWLEDGEMENT

Following officers and staff have made their valuable contributions in finalization of the Inspection Check List for Worksite Tamping Machine, VPR-02M, with flat car

RAILWAYS

1. SHRI Ravi Prakash SSE/TM/NCR
2. SHRI Sanjay Kannoja SSE/TM/NCR

RDSO

1. SHRI Muslim Ahmad ARE/TM
2. " " A.K. Srivastava SSE//TM
3. " " D.G.Sharma SSE/ENGG/TM

12-10-2018