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क्रमांक 24

TM/HM/WST/Pt.III

Date: 22-04-2020

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II-	मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन) सी.पी.ओ.एच. कार्यशाला इलाहाबाद, रायनापाड़ा, कंचरापारा, अहमदाबाद,	Chief Workshop Manager (Track Machines) CPOH Workshop, Allahabad, Rayanapadu, Kachrapara, Ahmedabad
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विषय: वर्कसाइट टैम्पर वी पी आर -02 एम की क्वांटिकल स्पेयर्स पार्ट सूची का संशोधन -1.
Sub: Critical Spares parts list Revision-1 for Worksite Tamper VPR-02M..

वर्कसाइट टैम्पर वी पी आर -02 एम की क्वांटिकल स्पेयर्स पार्ट सूची 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/ फैक्स/पत्राचार द्वारा अद्योहस्ताक्षरी को भेजें।

Revision-1 of Critical Spares Part lists of Worksite tamper VPR-02M 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 brought to the knowledge of the undersigned for further improvement, by email/fax/post.

Email id - hmtmrdso@gmail.com

DA: As above


22/4/2020
(ओम प्रकाश)

निदेशक रेलपथ मशीन -III

P.T.O

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INDIAN RAILWAYS

CRITICAL SPARES OF TRACK MACHINES

BOOKLET FOR WORK SITE TAMPERS

WST (VPR-02M)

April-2020

PREFACE

For maintenance of any machine, timely availability of spare parts and consumables play an important role. Thus, to keep the machine in sound condition, first and foremost prerequisite is availability of spares and consumables. As there are thousands of items/spares which are required for maintenance of machine, it is very much required to identify critical spares which are vital and in turn, to ensure availability of such spares well within the scheduled time.

On the basis of experience of Track machine working on Indian Railways, a need for revision of list was felt. Accordingly, Revision-1 for critical spares of **WST (VPR-02M)** have been prepared. It may be noted that this is the list of spares required for the normal maintenance of the machine for one year only and does not include the spares required for IOH, POH and other spl. Maintenance. Requirement for such schedule maintenance (IOH/POH) and emergency maintenance/attention, may be assessed separately on need basis by zonal railways itself

April-2020

(Om Prakash)
Director Track Machine-III

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SITE = At Machine , STMD= Satellite Machine Depot, ZTMD= Zonal Track Machine Depot

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
A.ENGINE MODEL NO- Diesel Engine QSM11-C360 CUMMINS							
1.	Self-starter	Make Delco Remy P/ N. 3400698, 24V102A 19011175	1	6	1	0	0
2.	Alternator BOSCH make	Make Delco Remy P/N- 3400698 ,24V100A 19011175	1	6	0	0	0.2*
3.	Lube Oil	15W40 Blue Premium	35 lts.	0.2	120 lts	65 lts	65 lts
4.	Lube oil filter	53-332-00-03	1	0.2	2	1	2
5.	Air cleaner (inner)	AF 4554M Fleet Gurad/ Cummins Part No. 103170854	1	0.5	1	0	1
6.	Air cleaner (outer)	AF 4553M Fleet Gurad/ Cummins Part No. 103320854	1	0.5	1	0	1
7.	V-belt	A54(3),A78(3),B78(3)	9	0.5	6	6	6
8.	Lub. Oil Pressure gauge	PVA 20-A-100-CB	1	6	0	0	0.2*
9.	Lub. Oil pressure switch	Cummins	1	6	0	0	0.2*
10.	Temperature Switch	Cummins	1	6	0	0	0.2*
11.	Temperature gauge and sensor	Gauge Part No. PVA-20-B-120c-CB	1	6	0	0	0.2*
12.	Shut down coil	Cummins	1	6	0	0	0.2*
13.	Water Temperature gauge	PVA-20-B-120C-CB	1	6	0	0	0.2*
14.	Fuel filter (Primary-1,Secondary-1)	Primary Cummins Part No. AX1006742 Fleet guard Part No. FS1000, Secondary Cummins Part No. 1006742	2	0.3	2	2	2

*MINIMUM QUANTITY 1

S.No	Brief description	Part no.	Nos per M/C	Estt. lifecycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
A.VALVE							
1	Servo valve for lining	D6333R16KA1MONSM2	3	6	0	0	0.5
2	Check valve for emergency backup	NV-8	1	6	0	0	0.2
3	Check valve for hydraulic cooler	530.25.00	2	6	0	0	0.3
4	Check valve for lining	G 51-34	1	6	0	0	0.2
5	Check Valve	MKOB-32/3F1	2	6	0	0	0.3
6	Check Valve for small squeezing cylinder	MKOB-25/3F2	1	6	0	0	0.2
7	Check Valve	G51-35	5	6	0	0	0.8
8	Throttle Valve with Check valve for driving	KVM K 25.G1.1	1	6	0	0	0.2
9	Throttle Valve with Check valve for big squeezing cylinder	KVM K 10G1.1	2	6	0	0	0.3
10	Pilot operated check valve for T/U transverse displacement	GZM-6/3M 04	2	6	0	0	0.3
11	Valve	1023.67.27.002	1	6	0	0	0.2
12	Valve	BB-4/320	5	6	0	0	1
13	Safety Valve for vibration pressure	MKPB-25/3F1B2	2	6	0	0	0.3
14	Safety Valve for system pressure	MKPB-25/3F1B2	1	6	0	0	0.2
15	Safety Valve	MKPB-16/3F3P2 24	1	6	0	0	0.2
16	Hydraulic Control Valve	TU22.1.020-100-95	2	6	0	0	0.3
17	Hydraulic Control Valve for lifting	KV4/3-5KO-6-G2	2	6	0	0	0.3
18	Valve Installation for hydraulic motor for vibration	1023.67.27.000	2	6	0	0	0.3
19	Hydraulic Control Valve for bypass valve	KV-4/2-5KO-6-G45B	1	6	0	0	0.2
20	Hydraulic Control Valve for for bypass valve	KV-4/3-5KO-6-G45B	2	6	0	0	0.3

*MINIMUM QUANTITY 1

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
23.	Hydraulic Control Valve for lining holding	KV-3/2-5KO-6-G41A	2	6	0	0	0.3
24.	Hydraulic Control Valve for Rail clamp	KV-4/3-5KO-10-G6	1	6	0	0	0.2
25.	Hydraulic Control Valve for squeezing	KV-4/2-5KO-6-G51A	1	6	0	0	0.2
26.	Hydraulic Control Valve for tamping unit sliding	KV-4/3-5KO-6-G6	2	6	0	0	0.3
27.	Hydraulic Control Valve for squeezing of tamping unit	KV-4/2-5KO-10-G51A	4	6	0	0	0.6
28.	Hydraulic check valve for fan drive	KV4/2-5KO-10-G51A	2	6	0	0	0.3
29.	Hydraulic check valve for breaking in working mode	KV4/2-5KO-10-G51A	1	6	0	0	0.2
30.	Hydraulic Control Valve for hyd.converter	6.62.06.100	1	6	0	0	0.2
31.	Stop Valve(Remote control of relief valve)	BB-4/320	1	6	0	0	0.2 [*]
32.	Reducing Valve for setting squeezing pressure	MKRV-10/3MP2	2	6	0	0	0.3 [*]
33.	Relief valve for working system	R4U-10-533,10AI	1	6	0	0	0.2
34.	Proportional Hydraulic Control Valve for lifting & lowering of tamping unit	DPZO –A-3713L5/DE18	2	6	0	0	0.3
35.	Fluid check valve	T51-34 TU2-053-1649-83	1	6	0	0	0.2
36.	Fluid check valve for axle & Boggie support cylinder	MKOB-16/3f1	1	6	0	0	0.2
B. PUMP							
1.	Lubrication Pump for transmission gear box	6.04.02.620	5	6	0	0	1
2.	Pump for oil cooler fan	310.4.56.03.06	1	6	0	0	0.2
3.	Pump for vibration (LHS)	310.4.160.04.06	1	6	0	0	0.2
4.	Pump for vibration (RHS)	310.4.160.03.06	1	6	0	0	0.2
5.	Pump for system pressure	310.4.112.04.06	1	6	0	0	0.2
6.	Pump for system pressure	310.4.112.03.06	1	6	0	0	0.2

*MINIMUM QUANTITY 1

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
C. MOTOR							
1.	Hyd. Motor for oil cooler fan	310.2.28.01.03	2	6	0	0	0.3*
2.	Hyd. Driving Motor	OMV.500.151B3102	2	6	0	0	0.3*
3.	Hyd. Motor for T/U vibration	410.0.107.WA4F10	2	6	0	0	0.3*
D. FILTER ELEMENT							
1.	Pressure Filter	CCH-802-FVT	2	0.5	2	1	1
2.	Servo Filtering element	DL 40-60.3E	2	0.25	4	2	2
3.	Return filter(Drain filter)	RSC-410-FVIFS-1	1	0.5	1	1	0
E. CYLINDER							
1.	Hyd. Cylinder for lifting & lowering of tamping unit	1023.40.04.000-01	2	6	0	0	0.3
2.	Hyd. Cylinder for Rear boggie support cylinder	GC 1023.07.62.000	4	6	0	0	0.6
3.	Hyd. Cylinder for Front boggie support cylinder	GC 1023.07.62.000	2	6	0	0	0.3
4.	Hyd. Cylinder for tamping unit horizontal displacement	GC 1023.07.62.000	2	6	0	0	0.3
5.	Hyd. Cylinder for small squeezing cylinder	1023.41.08.000-01	4	6	0	0	0.6*
6.	Hyd. Cylinder for small squeezing cylinder(LH)	1023.410.000.01	2	6	0	0	0.3
7.	Hyd. Cylinder for small squeezing cylinder(RH)	1023.410.000.01	2	6	0	0	0.3
8.	Hyd. Cylinder for squeezing	1023.41.10.000-01	4	6	0	0	0.6
9.	Hyd. Cylinder for big squeezing cylinder	1023.41.19.000-01	4	6	0	0	0.6
10.	Hyd. Cylinder for big squeezing cylinder	1023.41.21.000-01	4	6	0	0	0.6
11.	Hyd. Cylinder for rail clamp	1023.48.63.000	4	6	0	0	0.6
12.	Hyd. Cylinder for axle support	6.04.61.000	6	6	0	0	1
13.	Hyd. Cylinder for lifting	1023.48.65.000	2	6	0	0	0.3
14.	Hyd. Cylinder for Lining	1023.48.64.000.02	2	6	0	0	0.3
15.	Hyd. Cylinder for brake drive	GC 1023.06.62.000	2	6	0	0	0.3

*MINIMUM QUANTITY 1

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
F. SEAL KIT & O' RING							
1.	Seal for Hyd. Cylinder	1023.40.04.000-01	2	1	1	1	0
2.	Seal for Hyd. Cylinder	GC 1023.07.62.000	4	1	2	2	0
3.	Seal for Hyd. Cylinder	GC 1023.07.62.000	2	1	1	1	0
4.	Seal for Hyd. Cylinder	GC 1023.07.62.000	2	1	1	1	0
5.	Seal for Hyd. Cylinder	1023.41.08.000-01	4	1	2	2	0
6.	Seal for Hyd. Cylinder	1023.410.000.01	2	1	1	1	0
7.	Seal for Hyd. Cylinder	1023.410.000.01	2	1	1	1	0
8.	Seal for Hyd. Cylinder	1023.41.10.000-01	4	1	2	2	0
9.	Seal for Hyd. Cylinder	1023.41.19.000-01	4	1	2	2	0
10.	Seal for Hyd. Cylinder	1023.41.21.000-01	4	1	2	2	0
11.	Seal for Hyd. Cylinder	1023.48.63.000	4	1	2	2	0
12.	Seal for Hyd. Cylinder	6.04.61.000	6	1	3	3	0
13.	Seal for Hyd. Cylinder	1023.48.65.000	2	1	2	0	0
14.	Seal for Hyd. Cylinder	1023.48.64.000.02	2	1	2	0	0
15.	Seal for Hyd. Cylinder	GC 1023.06.62.000	2	1	2	0	0
G.ADAPTOR/ DUMY PLUG/ REDUCER							
1.	Adapter	6.36.07.000	1	6	1	0	0
2.	Adapter	91.31.00.022	1	6	1	0	0
H. HOSE							
1.	HOSE(600mm)	43.60.01.100-07	3	6	1	0	0.5*
2.	HOSE(800mm)	43.60.01.100-15	10	6	1	0	1.6*
3.	HOSE(2300mm)	43.60.01.100-29	1	6	1	0	0.2*
4.	HOSE(2800mm)	43.60.01.100-34	1	6	1	0	0.2*
5.	HOSE(1000mm)	43.60.01.300-12	1	6	1	0	0.2*
6.	HOSE(1200mm)	43.60.01.100-18	5	6	1	0	1
7.	HOSE(800mm)	43.60.01.100-11	1	6	1	0	0.2*
8.	HOSE(1100mm)	43.60.01.300-13	1	6	1	0	0.2*
9.	HOSE(1600mm)	43.60.01.300-18	1	6	1	0	0.2*
10.	HOSE(1200mm)	43.60.01.300-14	2	6	1	0	0.3*

*MINIMUM QUANTITY 1

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
11.	HOSE(1400mm)	43.60.01.300-16	1	6	1	0	0.2*
12.	HOSE(1800mm)	43.60.01.300-20	2	6	1	0	0.3*
13.	HOSE(2100mm)	43.60.01.300-23	1	6	1	0	0.2*
14.	HOSE(2200mm)	43.60.01.300-24	1	6	1	0	0.2*
15.	HOSE(1400mm)	43.60.01.500-12	1	6	1	0	0.2*
16.	HOSE(2100mm)	43.60.01.500-19	1	6	1	0	0.2*
17.	HOSE(3500mm)	43.60.01.500-30	1	6	1	0	0.2*
18.	HOSE(1000mm)	43.60.01.700-08	1	6	1	0	0.2*
19.	HOSE(1200mm)	43.60.01.700-10	6	6	1	0	1
20.	HOSE(1300mm)	43.60.01.700-11	1	6	1	0	0.2*
21.	HOSE(1700mm)	43.60.01.700-15	1	6	1	0	0.2*
22.	HOSE(1400mm)	43.60.01.700-12	3	6	1	0	0.5*
23.	HOSE(1600mm)	43.60.01.700-14	1	6	1	0	0.2*
24.	HOSE(1800mm)	43.60.01.700-16	1	6	1	0	0.2*
25.	HOSE(2100mm)	43.60.01.700-19	1	6	1	0	0.2*
26.	HOSE(2400mm)	43.60.01.700-22	1	6	1	0	0.2*
27.	HOSE(2500mm)	43.60.01.700-23	1	6	1	0	0.2*
I.OTHERS							
1.	Oil Cooler	13P100.00.000.10	1	6	0	0	0.2*
2.	Oil Cooler	13P100.00.000.06	1	6	0	0	0.2*
3.	Hydraulic accumulator for system pressure	AS35P360CG0	1	6	0 0	0	0.2*
4.	Guiding column	90.34.00.001	2	6	0	0	0.3*
5.	Retainer	6.50.01.000	4	6	0	0	0.6*
6.	Pressure gauge,axial fitting, front	MP3-Y-250-1,5	1	6	0	0	0.2*
7.	Clogging indicator	UPF-O,25E	2	6	0	0	0.3*
8.	Breather	20OST 2G 45-2-86	2	2	0	0	1
9.	Pressure gauge	MPU 2-16-15	1	6	0	1	0.2*
10.	Hyd.oil level Transducer	DEM/02-2-01	2	6	0	0	0.3*
11.	Hyd. converter	6.62.06.100	1	6	0	0	0.2*

*MINIMUM QUANTITY 1

VPR-02M
MECHANICAL

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STMT	ZTMD
A. Shaft (vibration+ cardon)							
1.	Cardan shaft(Engine to funk gear box)	257-2202010-17	1	6	0	0	0.2*
2.	Cardan shaf(Engine toTransmission gear box)	2-224334	1	6	0	0	0.2*
3.	Cardan shaft(Transmission gear box to Intermediate shaft drive)	KPM3-2205010-02	1	6	0	0	0.2*
4.	Cardan shaft(Intermediate shaft drive to Driving Axle I)	KPM1-2205010-02T1	1	6	0	0	0.2*
5.	Cardan shaft(Axle I to Axle II)	-	1	6	0	0	0.2*
B. Bolt and Nut							
1.	Bolt	M10-6gx30.46	40	6	2	2	2
2.	Bolt	M10-6gx20.46	106	6	6	6	6
3.	Bolt	M10-6gx20.46.029	40	6	2	2	2
4.	Bolt	M12-6gx30.46.029	14	6	1	1	1
5.	Bolt	M12-6gx30.46	12	6	1	0	1
6.	Bolt	M12-6gx35.46.029	28	6	2	0	2
7.	Bolt	M16-6gx60.46.029	23	6	2	0	2
8.	Bolt	M16-6gx40.46.029	9	6	1	0	1
9.	Nut	M20-6H.5.029	15	6	1	0	1
10.	Nut	M16-6H.5.029	26	6	2	1	1
11.	Nut	M10-6H.5	18	6	1	1	1
12.	Nut	M6-6H.5.029	4	6	1	0	0
13.	Nut	M10-6H.5.029	4	6	1	0	0
14.	Nut	M12x1.25--6H.5.029	4	6	1	0	0
15.	Nut	M10-6H.5.029	8	6	1	0	0
16.	Nut	M6-6H.5.029	8	6	1	0	0
17.	Stud	M20-6gx90.66.029	4	6	1	0	0
18.	Stud	M20-6gx115.66.029	8	6	1	0	0

*MINIMUM QUANTITY 1

VPR-02M**MECHANICAL**

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STMT	ZTMD
C.BEARING							
1.	Roller Bearing for Lifting and lining	4074913	16	6	0	0	3
2.	Roller Bearing	60-4244914	8	6	0	0	1
3.	Ball Bearing for Lifting and lining	8211	8	6	0	1	0
4.	T/U Bearing	70-42219 DT	4	2	0	0	2
5.	T/U Bearing	70-32520 LM	2	2	0	0	1
6.	T/U Bearing	80-220	1	2	0	0	0.5*
7.	T/U Bearing	30-42516 LM	2	2	0	0	1
8.	T/U Bearing	30-232516 LM	2	2	0	0	1
9.	Bearing	20-32520M	2	6	0	0	0.3*
10.	Bearing	20-42520M	2	6	0	0	0.3*
11.	Bearing	8110	1	6	0	0	0.2*
C.OTHERS							
1.	Pressure gauge	MT-I-NB-60-250X4	1	6	0	0	0.2*

*MINIMUM QUANTITY 1

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STM T	ZTM D
A. Printed circuit board							
1.	Control unit PCB for T/U both side	1023.14.21.280	1	6	0	0	0.2*
2.	Power PCB	461.161.432	3	6	0	0	0.5*
3.	Tamping unit PCB	161.14.21.210	2	6	0	0	0.3*
4.	Lifting unit PCB	161.14.22.330	1	6	0	0	0.2*
5.	Lining unit PCB	161.11.73.210	1	6	0	0	0.2*
6.	Pendulam PCB	161.14.22.220	1	6	0	0	0.2*
B. Relays & Sensor							
1.	Relay	G7L-1A-T 24VDC	2	6	0	0	0.3*
2.	Relay	2 PC4,521.901Ro.425.001tu	1	6	0	0	0.2*
3.	Relay	G2R-1-SNDI 24VDC	15	6	2	0	0.5*
4.	Relay	MY4IN-D2,24VDC	4	6	0	0	0.6*
5.	Relay	MY4IN-D2,12VDC	11	6	1	0	1
6.	Relay	PHE-31,24V	2	6	0	0	0.3*
7.	Automatic circuit breaker	TU16-526,015-83 A3C-10	10	6	1	0	0.6*
8.	Automatic circuit breaker	TU16-526,015-83 A3C-2	1	6	0	0	0.2*
9.	Automatic circuit breaker	TU16-526,015-83 A3C-5	5	6	0	0	0.8*
10.	Potenimetric setting device	1023.14.23.300	2	6	0	0	0.2*
11.	Potenimeter of setting device	MCB□.461161.545	1	6	0	0	0.2*
C.Transducer & Potentiometer							
1.	Transducer	24.3802.	1	6	1	0	0.2*
2.	Height Transducer	ELT-2044.00C Re	1	6	1	0	0.2*
3.	Height Transducer	ELT-2044.00C Le	1	6	1	0	0.2*
4.	Pendulum Transducer	EL-T133.00TS	1	6	1	0	0.2*
D.OTHERS							
1.	Electric Motor	62.3730 24 V-5Vt.2500rpm.	2	6	0	0	0.3*
2.	Speed indicator	12.3802	1	6	0	0	0.2*

*MINIMUM QUANTITY 1

VPR-02M
PNEUMATICS

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STMT	ZTMD
A. Cylinders & Seal Kit							
1.	Pneumatic Cylinder for Datum & T/U locking etc.	PC1023.81.14.000-02	11	6	0	0	2
2.	Pneumatic Cylinder for lifting & lowering of sensing trolley	PC1023.81.12.000-01	11	6	0	0	2
3.	Pneumatic Cylinder for tensioning of leveling & lining chord	PC1023.81.11.000-03	3	6	0	0	0.5*
4.	Pneumatic Cylinder for clapper cylinder	94.31.09.200	8	6	0	1	0.3*
5.	Pneumatic Cylinder for lifting & lowering of lining trollies	PC1023.81.11.000-04	2	6	0	0	0.3*
6.	Pneumatic control valve(2way valve)	P-RK3.3UHL TUY00223800.012-96	8	6	0	1	0.3*
7.	Reducing Pneumatic valve	P-KRM 122-12YHL4	3	6	0	0	0.5*
8.	Pneumatic control valve(4 way valve)	B71-22M-02 UHL4 TU4151-002-00221287-96	4	6	0	0	0.6*
9.	Cutout cock	1-10(usl ,No.168) TU24.05.10.105-94	1	6	0	0	0.2*
10.	Electro-pneumatic valve	VV-32 U3,24V	5	6	0	0	0.8*
11.	Braking pneumatic system	161.80.00.000	1	6	0	0	0.2*
12.	Pneumatic system of Transmission control	161.35.00.000	1	6	0	0	0.2*
B. Valves							
1.	Reducing valve	No.384-2 TU24.04.770-77	2	6	1	0	0
2.	Check valve	1-149conv.No.176) TU3184-071-05756760-2005	2	6	1	0	0
3.	Pneumatic throttle valve	P-DK-6-2UHL4 TU 4151-008-00221287-99	1	6	1	0	0
4.	Idle run valve	No.541 TU37.006.048-73	1	6	0	0	1

*MINIMUM QUANTITY 1

VPR-02M**PNEUMATICS**

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STMT	ZTMD
5.	Safety valve	2-2Y 1(conv.No.E-216) OST24.290.15-86	2	6	1	0	0
6.	Emergency stop valve	520(conv.No.138)TU24.05.10.11 3-94	2	6	0	0	0.3*
c. Others Spares							
1.	Filter	E-114 TU24.4.770-77	4	0.5	4	2	2
2.	Auxiliary brake valve	No.254-1 T3 TU24.05.424-88	2	6	0	0	0.3*
3.	Pressure gauge	MP-2-10-1.5	2	6	0	0	0.3*
4.	Pressure gauge	MP3-U-10-1.5	2	6	0	0	0.3*
5.	Selector valve	5-1(conv.No.3PK) OST24.290.15-86	2	6	0	0	0.3*
6.	Pressure regulator	No.348-2	1	6	0	0	0.2*
7.	Pressure gauge	M043-F10	3	6	0	0	0.5*

*MINIMUM QUANTITY 1

ACKNOWLEDGEMENT

Following officers and staff have made their valuable contributions in finalization of the Revision-1 for Critical spares Part List of VPR-02M.

RAILWAYS

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