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TM/HM/MPT/Pt.III

Date: - 01-2021

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II- मुख्य कार्यशालाप्रबन्धक (ट्रैक मशीन) सी.पी.ओ.एच. कार्यशालाइलाहाबाद, रायनापादु, कंचरापारा, अहमदाबाद,	Chief Workshop Manager (Track Machines) CPOH Workshop, Allahabad, Rayanapadu, Kachrapara, Ahmedabad
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विषय : यूनिमेट 275 एस एच एम एफ आई मशीन सं.(56564-590,56650-657) की क्रिटिकल स्पेयर्स पार्ट सूची ।

Sub: Critical Spares parts list of UNIMAT 275 SH MFI M/C No.56564-590, 56650-657.

ओईएम मैनुअल के आधार पर यूनिमेट एस एच एम एफ आई मशीन सं.(56564.590,56650.657) की क्रिटिकल स्पेयर्स पार्ट सूची का मसौदा तैयार कर टीएम/एच एम/एम ०पी.टी.०,पार्ट- I।I दि. 27.11.2020 द्वारा जारी किया गया था और अंतिम क्रिटिकल स्पेयर्स पार्ट सूची पत्र सं टीएम/एचएम/ /एम ०पी.टी.०, /पार्ट. III दि 01.01.2021 द्वारा 15 दिनों के लिये सभी क्षेत्रिय रेलवे को जारी किया गया था। सभी क्षेत्रिय रेलवे में से केवल उत्तर पूर्व रेलवे से सुझाव/ टिप्पणी प्राप्त हुआ, जिसके आधार पर क्रिटिकल स्पेयर्स पार्ट सूची को अंतिम रूप से 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 सूची 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 भेजे ।

Based on OEM manual and Comments/suggestions received from N.E. Railway Draft Critical Spares parts list for UNIMAT SH MFI M/C NO.56564-590, 56650-657, was prepared and circulated vide letter no. TM/HM/MPT,pt.III dated 27/11/2020 for 30 days and provisional Critical Spares parts list circulated vide letter no. TM/HM/MPT,pt.III dated 01/01/2021 for 15 days respectively. After circulating to all zonal railways, suggestions/ Comments received from only one zonal railway (N.E. Railway).Hence the Inspection Check List has been finalized on the basis of suggestions/ Comments received from N.E. Railway.

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 preparation 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.

DA: As above
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PRAKASH
Date: 2021.02.01
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(ओमप्रकाश)
निदेशक रेलपथ मशीन -III

P.T.O.

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2.0	फेयरली प्लेस, पूर्व रेलवे, कोलकाता-700 001	Fairlie Place, E R, Kolkata-700 001.
3.0	बड़ौदा हाउस, उत्तर रेलवे, नयी दिल्ली-110 001	Baroda House, N R, New Delhi-110 001.
4.0	उत्तरपूर्व रेलवे, गोरखपुर 273012	N E R, Gorakhpur-273 012.
5.0	मालीगांव, उत्तरपूर्व सीमान्त रेलवे, गुवाहाटी-781 011	Maligaon, N F R, Guwahati -781 011.
6.0	पार्क टाउन, दक्षिण रेलवे, चेन्नई-600 003	Park Town, S R, Chennai -600 003.
7.0	रेल निलयम, दक्षिण मध्य रेलवे, सिकन्दराबाद-500 371	Rail Nilayam, SCR, Secunderabad-500 371.
8.0	गार्डन रीच, दक्षिणपूर्व रेलवे, कोलकाता-700 043	Garden Reach, S E R, Kolkata-700 043.
9.0	चर्चगेट, पश्चिम रेलवे, मुम्बई-400 020	Churchgate, W R, Mumbai-400 020
10.0	उत्तर पश्चिम रेलवे, जयपुर-302 001	N W R, Jaipur-302 001.
11.0	पूर्व मध्य रेलवे, हाजीपुर-844 101	E C R, Hazipur-844 101
12.0	दक्षिण पश्चिम रेलवे, हुबली-580 023	SWR, Hubli-580 023
13.0	उत्तर मध्य रेलवे, इलाहाबाद-211 015	NCR, Allahabad-211 015
14.0	पूर्व तट रेलवे, भुवनेश्वर-751 001	East Coast Rly, Bhubaneswar-751 001
15.0	पश्चिम मध्य रेलवे, जबलपुर-482 001	WCR, Jabalpur-482 001
16.0	दक्षिण पूर्व मध्य रेलवे, बिलासपुर-495 004	South East Central Rly, Bilaspur-495 004
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2.0	सी.पी.ओ.एच. कार्यशाला, दक्षिण मध्य रेलवे, रायनापाड़ा, विजयवाड़ा, जिला कृष्णा, आन्ध्र प्रदेश. 521241	CPOH Workshop, South Central Railway, Rayanapadu, Vijaywada, Dist.- Krishna, Andhra Pradesh-521241
3.0	सी.पी.ओ.एच. कार्यशाला, पूर्व रेलवे, भूतबागान, रेलवेकॉलोनी, कंचरापाड़ा, पी.एस- बिजपुर पो0 कंचरापाड़ा, पश्चिम बंगाल -743145	CPOH Workshop, Eastern Railway, Bhutbagan Railway Colony, Kanchrapara, P.S: Bizpur, P.O.: Kanchrapara, West Bengal-743145
4.0	मुख्य अभियन्ता, सी.पी.ओ.एच, पश्चिम रेलवे, मंडल रेल प्रबंधक कार्यालय, चामुंडा, माता मंदिर के पास, नरोड़ा रोड, पो0 सैजपुर बोधा, अहमदाबाद-382345	Chief Engineer. C.P.O.H, Western Railway, Divisional Office, Near Chamunda Mata Mandir, Naroda Road, P.O. - Saijpur Bogha, Ahmedabad-382345
III-	प्रधानाचार्य भारे.रे.प.म.प्र.के. पीपल गांव इलाहाबाद-211011	Principal, IRTMTC, PipalGaon, Allahabad-211011

INDIAN RAIWAYS
CRITICAL SPARES OF TRACK MACHINES
UNIMAT 275 SH MFI
(M/C NO.56564-590, 56650-657)

2020-2021

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 this list was felt. Accordingly, critical spares parts list for UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657 has 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.

(Om Prakash)
Director Track Machine-III

(i)

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SITE- At machine

STMD - Satellite depot

ZTMD - Zonal depot

(ii)

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					ENGINE		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
1.1.0 Engine (CUMMINS QSN-14L,405 HP @2100 RPM)							
1.1.1	Lube oil	15W 40 CI4/CI-4 Plus	50liters	0.50	50 lts	50lts	50lts
1.1.2	Lube oil filter element	3401544	1	0.50	2	1	1
1.1.3	Fuel filter element	5317717	1	0.50	2	1	1
1.1.4	Fuel water separator	4345001	1	0.50	2	1	1
1.1.5	Coolant filter	4072352	1	0.50	2	1	1
1.1.6	Air cleaner outer	4020551	1	1	1	0	0
1.1.7	Air cleaner inner	4020552	1	1	1	0	0
1.1.8	V-Belt Ribbed	5483426	1	2	0	0.5	0
1.1.9	V-Belt for accessories drive	339A112003896675	1	2	0	0.5	0
1.1.10	Alternator 28V 120A	081852021	1	6	1	0	0
1.1.11	Alternator 28V 55A	081769643	1	6	1	0	0
1.1.12	V-Belt-MARATHON 2	AVX13-1060LA/A-41	1	2	2	1	1
1.1.13	Battery	12V DC,200AH+12V DC, 70AH	4(2+2)	2	0	0	2
1.1.14	Water Filter	4072352	1	2	0	0.5	0
1.1.15	Coolant	DCA -4 (Premix)	110liters	6	10	0	10
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					HYDRAULICS		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
2.1.0	Valve						
2.1.1	Check Valve	HY151.18	1	6	0	0	0.2
2.1.2	Solenoid valve	HY157.44-A	2	6	0	0	0.3*
2.1.3	Pressure Relief Valve	HY511.06	2	6	0	0	0.3*
2.1.4	Pressure Relief Valve	HY511.15	1	6	0	0	0.2
2.1.5	Cut-Off Valve	HY511.11	1	6	0	0	0.2
2.1.6	Cut Off Valve Block	HY151.127-2	1	6	0	0	0.2
2.1.7	Cut-Off Valve	HY511.12	1	6	0	0	0.2
2.1.8	Check Valve	HY151.19	1	6	0	0	0.2
2.1.9	Pressure Relief Valve	HY511.08	1	6	0	0	0.2
2.1.10	Valve	HY6RSX-B	2	6	0	0	0.3*
2.1.11	Safety valve	HY56R	5	6	0	0	1
2.1.12	Flow control valve	HY157.106/270	1	6	0	0	0.2
2.1.13	Safety valve	HY511.50/350	1	6	0	0	0.2
2.1.14	Solenoid valve	HY157.44-A	1	6	0	0	0.2
2.1.15	Check valve	HY151.33/5BAR16	2	6	0	0	0.3*
2.1.16	Reducing valve	HY55R-B	2	6	0	0	0.3*
2.1.17	Valve	HY151.199	1	6	0	0	0.2*
2.1.18	Flow control valve	HY157.106/270	2	6	0	0	0.3*
2.1.19	Prop. Control valve	HYA16-RPE2-150.DSO728/10	4	6	0	0	0.6*
2.1.20	Valve	HY-V10-RSD-ET-B	4	6	0	0	0.6*
2.1.21	Valve	HY6RSJ-B	7	6	0	0	1
2.1.22	Check valve	HY155.12	8	6	0	0	1
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					HYDRAULICS		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
2.1.23	Valve	HY6RSE-B	2	6	0	0	0.3*
2.1.24	Valve	HY10RSG-C	2	6	0	0	0.3*
2.1.25	Servo valve	EL-T76.00-MO	3	6	0	0	0.5*
2.1.26	Valve	HY10RSX-C	1	6	0	0	0.5*
2.1.27	Valve	HY6RSD-B	2	6	0	0	0.3*
2.1.28	Reducing Valve	HY511.65-P/50	2	6	0	0	0.3*
2.1.29	Valve	HY6RSE-B	2	6	0	0	0.3*
2.1.30	Valve	HY10RSJ-C	2	6	0	0	0.3*
2.1.31	Check Valve	HY155.11	2	6	0	0	0.3*
2.1.32	Valve	HY6RSJ-B	5	6	0	0	1
2.1.33	Safety Valve	HY151.215	1	6	0	0	0.5*
2.1.34	Valve	HY10RSD-C	1	6	0	0	0.5*
2.1.35	Check Valve	HY151.33/0,5BAR12	1	6	0	0	0.5*
2.1.36	Valve	HY6RSD-B	2	6	0	0	0.3*
2.1.37	Plug-In Check Valve	HY6RS/EINSTECK-RSV	1	6	0	0	0.5*
2.1.38	Valve	HY10RSD-C	2	6	0	0	0.3*
2.1.39	Valve	HY511.14/150	2	6	0	0	0.3*
2.1.40	Valve	HY24RSJ-ET-B	2	6	0	0	0.3*
2.1.41	Double Shock Valve	HY157.27-160BAR	2	6	0	0	0.3*
2.1.42	2-Way Valve	HY157.50	2	6	0	0	0.3*
2.1.43	Check Valve	HY151.217/5BAR	1	6	0	0	0.5*
2.2.0 Motor							
2.2.1	Hydraulic Motor	HY90.N52	1	6	0	0	0.2*
2.2.2	Hydraulic Motor	HY90.N42	2	6	0	0	0.4*
2.2.3	Hydraulic Motor	HY916N800	2	6	0	0	0.4*
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					HYDRAULICS		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
2.2.4	Hydraulic Motor	S14-13614	1	6	0	0	0.2*
2.3.0 Pump							
2.3.1	Triple Pump	HY832X38.22.03LI	1	6	0	0	0.2*
2.3.2	Triple Pump	HY842X28.28.17RE	1	6	0	0	0.2*
2.3.3	Triple Pump	HY832X17.14.06LI	1	6	0	0	0.2*
2.3.4	Emergency Pump Unit	HY40.510P	1	6	0	0	0.2*
2.3.5	Single Pump	HY701.X12RE	2	6	0	0	0.3*
2.3.6	Single Pump	HY701.X12LI	2	6	0	0	0.3*
2.4.0 Filter Element							
2.4.1	Filter	HY-S501.460.150	3	0.5	2	2	2
2.4.2	Filter Cartridge	HY-S501.460.150ES	3	0.5	2	2	2
2.4.3	Return Line Filter	HY-R501.330.10A	2	0.5	1	1	2
2.4.4	Filter Cartridge	HY-R501.330.10A/H/ES	2	0.5	1	1	2
2.4.5	Oil-Filter Unit	HY-501.03.05	1	0.5	1	1	0
2.4.6	Filter Cartridge	HY-501.03.05/ES	1	0.5	1	1	0
2.4.7	Filter Cartridge	HY-D501.32.10ES	1	0.25	2	1	1
2.4.8	Filter	HY-D501.32.10 H	1	0.25	2	1	1
2.4.9	Filter	DL40.60E	2	0.25	4	2	2
2.4.10	Filter	HY-D501.225.25	1	0.50	1	1	0
2.4.11	Filter Cartridge	HY-D501.225.25H/ES	1	0.50	1	1	0
2.5.0 Cylinder							
2.5.1	Squeezing Cylinder	HZS-A.201.134	2	1	0	0	2
2.5.2	Squeezing Cylinder	HZS-G.201.135	2	1	0	0	2
2.5.3	Squeezing Cylinder	HZS-A.163.143	2	1	0	0	2
2.5.4	Squeezing Cylinder	HZS-G.163.144	2	1	0	0	2
2.5.5	Unit Lift Cylinder	HZDGB.063.036.0800.1.00 1HW	2	6	0	0	0.3*
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					HYDRAULICS		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
2.5.6	Unit Lift Cylinder(inner)	HZDGB.063.036.0765.1.01 0HW	2	6	0	0	0.3*
2.5.7	Vibration Shaft	CU20.300-15	1	6	0	0	0.2*
2.5.8	Vibration Shaft	CU20.300-16	1	6	0	0	0.2*
2.5.9	Vibration Shaft	CU20.300-5	1	6	0	0	0.2*
2.5.10	Vibration Shaft	CU20.300-6	1	6	0	0	0.2*
2.5.11	Cylinder	W33.200C	4	6	0	0	0.6*
2.6.0 Seal Kit							
2.6.1	Seal kit rail clamp cylinder	E-150-180DS	4	1	1	2	1
2.6.2	Seal kit	HY-S501.460.150/DS	3	1	2	1	0
2.6.3	Seal kit	HY511.12DS	2	1	1	1	0
2.6.4	Seal kit	HY157.44DS-A	2	1	1	1	0
2.6.5	Seal kit	HY511.11DS	1	1	1	0	0
2.6.6	Seal kit	HY151.18DS	1	1	1	0	0
2.6.7	Seal kit	HY511.11DS	1	1	1	0	0
2.6.8	Seal kit	HY511.12DS	1	1	1	0	0
2.6.9	Seal kit	HY151.19DS	1	1	1	0	0
2.6.10	Seal kit	HY511.08DS	1	1	1	0	0
2.6.11	Seal kit	HY156.08H-DS	1	1	1	0	0
2.6.12	Seal kit	HY156.09DS	2	1	1	1	0
2.6.13	Seal kit	HY56R/DS	5	1	3	2	0
2.6.14	Seal kit	S14-09944	13	1	7	6	0
2.6.15	Seal kit	HY511.50/350	1	1	1	0	0
2.6.16	Seal kit	HY511.50/350/DS	1	1	1	0	0
2.6.17	Seal kit	HY157.44DS-A	1	1	1	0	0
2.6.18	Seal kit	HY152.01DS	1	1	1	0	0
2.6.19	Seal kit	HY55R/DS	2	1	1	1	0
2.6.20	Seal kit	HY152.01DS	4	1	2	2	0
2.6.21	Seal kit flow control valve	HY157.106/270/DS	2	1	1	1	0
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					HYDRAULICS		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
2.6.22	Seal kit proportional valve suction	HY-D501.32.10/DS	1	1	1	0	0
2.6.23	Seal kit	HY-V10/DS	4	1	2	2	0
2.6.24	Seal kit proportional control valve	HYA16-RPE/DS	4	1	2	2	0
2.6.25	Seal kit check valve	HY155.19DS	8	1	5	3	0
2.6.26	Seal kit valve	HY6RSD-DS	18	1	10	8	0
2.6.27	Seal kit	HY10RSD-DS	7	1	2	2	3
2.6.28	Seal kit servo valve	DL40.60E-DS	2	1	1	1	0
2.6.29	Seal kit	HY152.03DS	1	1	1	0	0
2.6.30	Seal kit	HY152.01DS	2	1	1	1	0
2.6.31	Seal kit	HY155.11DS	2	1	1	1	0
2.6.32	Seal kit	HY10RSD-DS	1	1	1	0	0
2.6.33	Seal kit	HY511.31DS	2	1	1	1	0
2.6.34	Seal kit	HY100.02DS/D	2	1	1	1	0
2.6.35	Seal kit	HY24RSH-DS	2	1	1	1	0
2.6.36	Seal kit	HY916N/DS	3	1	1	1	1
2.6.37	Seal kit	HY-D501.225.25DS	1	1	1	0	0
2.6.38	Seal kit	HY701/DS-7BAR	1	1	1	0	0
2.6.39	Seal kit	HY832X/DS	1	1	1	0	0
2.6.40	Seal kit	HY842X/DS	1	1	1	0	0
2.6.41	Seal Kit	S24-25575	1	1	1	0	0
2.7.0 Hoses							
2.7.1	Hose	2781-6	1	6	1	0	0
2.7.2	Hose (Length=900mm)	2781-6	1	6	1	0	0
2.7.3	Hose	2020-01-00.31	1	6	1	0	0
2.7.4	Hose (Length = 280 mm)	2781-4	1	6	1	0	0
2.7.5	Hose (Length = 650 mm)	2781-4	1	6	1	0	0
2.7.6	Hose (Length = 365 mm)	2781-12	1	6	1	0	0
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					HYDRAULICS		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
2.7.7	Hose Nipple	432-23030-1	10	6	1	1	0
2.7.8	Hose Nipple	532-30739-1	2	6	1	0	0
2.7.9	Filling Hose	UD320.82	1	6	1	0	0
2.7.10	Hose Clip	ABA-200-231/12	1	6	1	0	0
2.7.11	Hose Clip	ABA-226-256/12	1	6	1	0	0
2.7.12	Air Hose Complete	1138903	2	6	1	0	0
2.7.13	Armaflex Hose	F88-88X10	1	6	1	0	0
2.7.14	Hose (Length = 10m)	477RH-5	1	6	1	0	0
2.7.15	Hose (Length = 10m)	477RH-8	1	6	1	0	0
2.7.16	Refrigerant hose NW 13	67780B	1	6	1	0	0
2.7.17	Refrigerant hose NW 10	67779B	1	6	1	0	0
2.7.18	Hose	4DX1MM	1	6	1	0	0
2.7.19	Corrugated Hose/Halogen-Free	PCST-07B-EN	1	6	1	0	0
2.7.20	Hose Screw-Connection	BVNV-M12M-EN	2	6	1	0	0
2.7.21	Corrugated Hose/Halogen-Free	PCST-07B-EN	1	6	1	0	0
2.7.22	Hose Pipe	0750.147.048	1	6	1	0	0
2.7.23	Filling Hose	UD320.82	1	6	1	0	0
2.7.24	Hose Pipe	R02-4x700	2	6	1	0	0
2.7.25	Hose Pipe	R02-4x2050	12	6	2	0	0
2.7.26	Hose Pipe	R02-6x700	2	6	1	0	0
2.7.27	Hose Pipe	R02-6x2750	2	6	1	0	0
2.7.28	Hose Pipe	R02-6x1650	1	6	1	0	0
2.7.29	Hose Pipe	R02-6x5000	1	6	1	0	0
2.7.30	Hose Pipe	R02-8x650	1	6	1	0	0
2.7.31	Hose Pipe	R02-8x1400	1	6	1	0	0
2.7.32	Hose Pipe	R02-8x3900	1	6	1	0	0
2.7.33	Hose Pipe	R02-10x550	1	6	1	0	0
2.7.34	Hose Pipe	R02-10x1600	1	6	1	0	0
2.7.35	Hose Pipe	R02-10x2400	1	6	1	0	0
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					HYDRAULICS		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
2.7.36	Hose Pipe	R02-10x3900	1	6	1	0	0
2.7.37	Hose Pipe	R02-10x6750	1	6	1	0	0
2.7.38	Hose Pipe	R02-12x650	1	6	1	0	0
2.7.39	Hose Pipe	R02-12x1250	5	6	1	0	0
2.7.40	Hose Pipe	R02-12x2900	1	6	1	0	0
2.7.41	Hose Pipe	R02-12x3600	1	6	1	0	0
2.7.42	Hose Pipe	R02-16x700	1	6	1	0	0
2.7.43	Hose Pipe	R02-16x1600	1	6	1	0	0
2.7.44	Hose Pipe	R02-16x2250	1	6	1	0	0
2.7.45	Hose Pipe	R02-16x3250	1	6	1	0	0
2.7.46	Hose Pipe	R02-16x5200	2	6	1	0	0
2.7.47	Hose Pipe	GH506-12x670	1	6	1	0	0
2.7.48	Hose Pipe	GH506-12x1480	1	6	1	0	0
2.7.49	Hose Pipe	2755-10x4000	1	6	1	0	0
2.7.50	Hose Pipe	2755-10x1850	1	6	1	0	0
2.7.51	Hose Pipe	2755-10x4000	1	6	1	0	0
2.7.52	Hose Pipe	2755-16x700	1	6	1	0	0
2.7.53	Hose Pipe	2755-16x1700	1	6	1	0	0
2.7.54	Hose Pipe	2755-16x3300	1	6	1	0	0
2.7.55	Hose Pipe	R5R-6x450	1	6	1	0	0
2.7.56	Hose Pipe	R5R-6x1350	1	6	1	0	0
2.7.57	Hose Pipe	R5R-6x2100	1	6	1	0	0
2.7.58	Hose Pipe	R5R-6x4300	1	6	1	0	0
2.7.59	Hose Pipe	R5R-10x700	1	6	1	0	0
2.7.60	Hose Pipe	R5R-10x1850	1	6	1	0	0
2.7.61	Hose Pipe	R5R-10x2750	1	6	1	0	0
2.7.62	Hose Pipe	R5R-10x6300	1	6	1	0	0
2.7.63	Hose Pipe	R5R-16x700	1	6	1	0	0
2.7.64	Hose Pipe	R5R-16x1250	1	6	1	0	0
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					HYDRAULICS		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
2.7.65	Hose Pipe	R5R-16x3400	1	6	1	0	0
2.7.66	Hose Pipe	R5R-24x700	1	6	1	0	0
2.7.67	Hose Pipe	R5R-24X1650	1	6	1	0	0
2.7.68	Hose Pipe	R5R-24X4000	1	6	1	0	0
2.7.69	Hose Pipe	NW2-400BARX1800	1	6	1	0	0
2.7.70	Hose Pipe	NW2-400BARX2300	1	6	1	0	0
2.7.71	Hose Pipe	8.4X2.1X300	1	6	1	0	0
2.7.72	Hose Pipe	8.4X2.1X2800	1	6	1	0	0
2.7.73	Hose Pipe	8.4X2.1X5800	1	6	1	0	0
2.8.0 OTHERS							
2.8.1	Pressure Gauge	HY154.25	2	6	0	0	0.3*
2.8.2	Pressure Gauge	HY154.03	1	6	0	0	0.2*
2.8.3	Bladder Accumulator 20 L	HY156.03H-40	1	6	0	0	0.2*
2.8.4	Bladder Accumulator 32 L	HY156.09H-40	2	6	0	0	0.3*
2.8.5	Temperature Switch	232.011/017/017	1	6	0	0	0.2*
2.8.6	Oil Cooler	HY157.100/SILENCE	2	6	0	0	0.3*
2.8.7	Stopcock	HY152.01-H	5	6	0	0	0.8*
2.8.8	Stopcock	HY152.03	1	6	0	0	0.2*
2.8.9	Stopcock	HY152.01-H	2	6	0	0	0.3*
2.8.10	Stopcock	HY152.01-H	2	6	0	0	0.3*
2.8.11	Pressure Switch	64.07.1000.57	1	6	0	0	0.2*
2.8.12	Check Throttle	HY100.02	2	6	0	0	0.3*
2.8.13	Pump Cartridge	S14-13615	1	6	0	0	0.2*
2.8.14	Safety Valve For Accumulator	HY511.64/330	2	6	0	0	0.3*
2.8.15	Unit Lifting Device	CA15.470	1	6	0	0	0.2*
2.8.16	Filling Filter	ELF3+DICHTUNG	1	6	0	0	0.2*
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					MECHANICAL		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
3.1.0 Bearing							
3.1.1	Cylindric Roller Bearing	NUP2313EM1C3/XL	8	1	2	2	4
3.1.2	Cylindric Roller Bearing	NU2313EM1C3/XL	8	1	2	2	4
3.1.3	Vibration Shaft Bearing	U20.220P	2	1	2	0	0
3.1.4	Vibration Shaft Bearing	U20.221P	1	1	1	0	0
3.1.5	Vibration Shaft Bearing	U20.223P	1	1	1	0	0
3.1.6	Shaft With Bearing	S14-13611-0	1	4	0	0	0.25*
3.1.7	Shaft With Bearing	S14-68374	1	4	0	0	0.25*
3.1.8	Shaft With Bearing	S14-13611-0	1	4	0	0	0.25*
3.2.0 Shaft (vibration+ cardon)							
3.2.1	Cardan shaft	KGW180.1000.110.00	1	6	0	0	0.2*
3.2.2	Cardan Shaft Flange	UD61.10074	2	6	0	0	0.3*
3.2.3	Cardan shaft	LZ1330LA110/CA72.1409	2	6	0	0	0.2*
3.2.4	Cardan shaft	KGV180.1150.110.80	1	6	0	0	0.3*
3.2.5	Cardan shaft	KGW180.1100.110.00	1	6	0	0	0.2*
3.2.6	Cardan shaft Catcher	UD72.1450-I	1	6	0	0	0.2*
3.2.7	Cardan Shaft Catcher	UD72.1450-VI	6	6	0	0	1
3.2.8	Vibration Shaft	CU20.301	4	6	0	0	0.6*
3.3.0 Tamping Unit							
3.3.1	Tamping Unit	CA15.500LI	1	1	0	1	0
3.3.2	Tamping Unit	CA21.6600RE	1	1	0	1	0
3.3.3	Tamping Unit	CA21.6600LI	1	1	0	1	0
3.3.4	Tamping Unit	CA15.500RE	1	1	0	1	0
3.3.5	Tamping Unit Frame	W37.2001ARE	1	6	0	1	0
3.3.6	I Form Tamping Tine	CU30.6840-FRI	2	1	0	0	0.5*
3.3.7	I Form Tamping Tine	CU30.2743-FRI	2	1	0	0	0.5*
3.3.8	Hexagon Screw	CU30.406	2	2	0	1	0
3.3.9	Schnorr-Lock Washer	VS16/VERZ.	2	2	0	1	0
3.3.10	Hexagon Screw	M20X1,5X255DIN960-10.9	2	2	0	1	0
3.3.11	Hexagon Nut	M20X1,5DIN934-10	2	2	0	1	0
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					MECHANICAL		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
3.3.12	Bolt Locking Device Disc	M20-NORD-LOCK-F	4	6	0	0	0.6*
3.3.13	Tamping Arm Bearing	UD15.1200-XX	2	1	0	0	0.5*
3.3.14	Schnorr-Lock Washer	VS16	1	1	0	0	1
3.3.15	Schnorr-Lock Washer	VS10	6	1	0	0	6
3.4.0 General							
3.4.1	Distribution Block	UD90.303	1	6	0	0	0.2*
3.4.2	Locking Screw	G30.42	4	1	1	1	2
3.4.3	Unit Lifting Device	CA15.470	1	6	0	0	0.6*
3.4.4	Hexagon Screw	WN119-M12.40-1	2	1	1	1	0
3.4.5	Schnorr-Lock Washer	VS12/VERZ	2	1	1	1	0
3.4.6	Serrated Lock Washer	FZA12,5DIN6798/VERZ.	3	1	1	1	1
3.4.7	Allen Screw	M10X25DIN6912-8.8/VERZ.	32	1	8	8	16
3.4.8	Schnorr-Lock Washer	VS10/VERZ.	32	1	8	8	16
3.4.9	Mounting Plate	HY150.23	2	6	0	0	0.3*
3.4.10	Mount Plate NG16	HY150.24C	4	6	0	0	0.6*
3.4.11	Mounting Plate	HY150.125	2	6	0	0	0.3*
3.4.12	Mounting Plate	HY150.33	3	6	0	0	0.5*
3.4.13	Mounting Plate	HY150.32	2	6	0	0	0.3*
3.4.14	Mounting Plate	HY150.34	1	6	0	0	0.2*
3.4.15	Mounting Plate	HY150.23	4	6	0	0	0.6*
3.4.16	Mounting Plate	HY151.132-1	2	6	0	0	0.3*
3.4.17	Mounting Plate	HY150.16	2	6	0	0	0.3*
3.4.18	Lift Ring	034-40953	1	6	0	0	0.2*
3.4.19	Wing	034-24851	20	6	0	0	3.2
3.4.20	Shaft Sealing Ring	623-12559	1	6	0	0	0.6*
3.4.21	Lift Ring	034-40952	1	6	0	0	0.2*
3.4.22	O-Ring Seal	101,32X1,78-N-DIN3771-NBR90	1	6	0	0	0.2*
3.4.23	Shaft Sealing Ring	623-12559	1	6	0	0	0.2*
*minimum quantity 1							

UNIMAT 275 SH MFI M/C NO.56564-590, 56650-657					MECHANICAL		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
3.4.24	O-Ring Seal	101,32X1,78-N-DIN3771-NBR90	1	6	0	0	0.2*
3.4.25	Lift Ring	034-66595	1	6	0	0	0.2*
3.4.26	Lift Ring	034-59052	1	6	0	0	0.2*
3.4.27	Lift Ring	034-59206-0	1	6	0	0	0.2*
3.4.28	Camring	034-67028	1	6	0	0	0.2*
3.4.29	Lift Ring	034-59139	1	6	0	0	0.2*
3.4.30	Lift Ring	034-59208	1	6	0	0	0.2*
3.4.31	Lift Ring	034-59050	1	6	0	0	0.2*
3.4.32	Camring	034-67157	1	6	0	0	0.2*
3.4.33	Lift Ring	034-59207-0	1	6	0	0	0.2*
3.4.34	Hook Lifting	CA.311.104-2	2	6	0	0	0.3*
3.4.35	Castle Nut	M 48X1.5 DIN 935-6	2	6	0	0	0.3*
3.4.36	Bush	CU311.319	8	6	0	0	1.3
3.4.37	Bush	CU311.320	4	6	0	0	0.6*
3.4.38	RODEND	UD 311.2112-4	2	6	0	0	0.3*
3.4.39	Clamp Roller	UD 311.505	2	6	0	0	0.3*
*minimum quantity 1							

UNIMAT275SH MFI M/C NO.56564-590, 56650-657 ELECTRICAL & ELECTRONICS							
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
4.1.0 Meters and gauges							
4.1.1	Galvanometer	EL-T 80.00	4	6	1	0	0.6*
4.1.2	ZF pressure gauge	EL-T 1001	1	6	0	0	0.2*
4.1.3	ZF temp gauge	EL-T 1200	1	6	0	0	0.2*
4.1.4	Speedometer (Front)	EL-T1263	1	6	0	0	0.2*
4.1.5	Speedometer (Rear)	-	1	6	0	0	0.2*
4.1.6	Ammeter	EL-T 1262	1	6	0	0	0.2*
4.1.7	Voltmeter	EL-T1261.00	1	6	0	0	0.2*
4.2.0 Printed Circuit Board							
4.2.1	Printed Circuit Board Populated	EK-653P/S-00B	15	2	1	0	1
4.2.2	Printed Circuit Board Populated	EK-664P-00D	2	6	0	0	1
4.2.3	Printed Circuit Board Populated	EK-758P-00	1	6	0	1	0.2*
4.2.4	Printed Circuit Board Populated	ELB-EP0-01-TS	1	6	0	0	0.2*
4.2.5	Printed Circuit Board Populated	EK-761P-00-SPS	1	6	0	0	0.3*
4.2.6	Printed Circuit Board Populated	ELB-EP0-01-MBI	1	6	0	0	0.2*
4.2.7	Printed Circuit Board Populated	ELB-EP0-01-SER	1	6	0	0	0.2*
4.2.8	Printed Circuit Board Populated	EK-805SV-00D	1	6	0	0	0.2*
4.2.9	Sum PCB	EL-T5093.002A	2	6	0	0	0.2*
4.3.0 Relay							
4.3.1	Relay	0332209203	1	2	1	0	0
4.3.2	Relay 300a 24v	EL-T7125-NA	2	2	1	0	0
4.3.3	Safety Relay	EL-T7178	1	2	1	0	0
4.3.4	Relay Module	EL-T7274	1	2	1	0	0
4.4.0 General							
4.4.1	Power Supply	EL-AM60.00	1	6	0	0	0.2*
4.4.2	Temperature Switch / Transmitter	323.803/002/002	1	6	0	0	0.2*
4.4.3	Pressure Transducer	360.081/037/018	1	6	0	0	0.2*
*minimum quantity 1							

UNIMAT275SH MFI M/C NO.56564-590, 56650-657 ELECTRICAL & ELECTRONICS

S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
4.4.4	Pressure Switch	64.07.1000.54	1	6	0	0	0.2*
4.4.5	Temperature Switch	TWR3/4MO/90GRAD C/AUS	1	6	0	0	0.2*
4.4.6	Diode	1A600V1N4005	1	6	0	0	0.2*
4.4.7	Contact Element	EL-T7190-S	37	6	0	0	6
4.4.8	Contact Element	EL-T7190-F	29	6	0	0	5
4.4.9	Toggle Head	EL-T7190-J5	1	6	0	0	0.2*
4.4.10	Diode	5A800V/BY500-800	1	6	0	0	0.2*
4.4.11	Automatic Cutout	ELT-700-00051-5A	2	6	0	0	0.3*
4.4.12	Automatic Cutout	ELT-700-00051-8A	2	6	0	0	0.3*
4.4.13	Automatic Cutout	ELT-700-00051-15A	1	6	0	0	0.2*
4.4.14	Automatic Cutout	ELT-700-00051-25A	8	6	0	0	1
4.4.15	Led With Socket/20-28v/8mm	SWBD08114/GELB	2	6	0	0	0.3*
4.4.16	Potentiometer 10kohm 10turns	DMG18/10 ZE LT ME/10KOHM	1	6	0	0	0.2*
4.4.17	Potentiometer 10kohm 10turns	DMG18/10 ZE LT ME/10KOHM	1	6	0	0	0.2*
4.4.18	Potentiometer	EL-T1044	1	6	0	0	0.2*
4.4.19	Knob Potentiometer	20KOHM0-10SKALA/K200- G	8	6	0	0	1.3
4.4.20	Potentiometer	ELB-LA0-26-100KOHM	5	6	0	0	1
4.4.21	Digital Potentiometer	EL-T7008/1100	2	6	0	0	0.3*
4.4.22	Potentiometer 10kohm 10turns	DMG18/10 ZE LT ME/10KOHM	1	6	0	0	0.2*
4.4.23	Knob Potentiometer	20KOHM+-5SKALA/K200-G	3	6	0	0	0.5*
4.4.24	Potentiometer 10kohm 10turns	DMG18/10 ZE LT ME/10KOHM	3	6	0	0	0.5*
4.4.25	Potentiometer	EL-T1044	1	6	0	0	0.2*
4.4.26	Potentiometer	MUP1300R10K	1	6	0	0	0.2*
4.4.27	Thermom.Transducer	323.803/001/006	1	6	0	0	0.2*

*minimum quantity 1

UNIMAT275SH MFI M/C NO.56564-590, 56650-657					PNEUMATIC		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
5.1.0 SEAL							
5.1.1	Seal Kit	90356DS	4	3	0	0	1
5.1.2	Seal Kit	90187DS	1	3	0	0	0.3*
5.1.3	Seal Kit	90366DS	2	3	0	0	0.6*
5.1.4	Seal Kit	90189/DS	3	3	0	0	1
5.1.5	Seal Kit	90345/46/DS	1	3	0	0	0.3*
5.1.6	Seal Kit	90247DS	1	3	0	0	0.3*
5.1.7	Seal Kit	90246DS	1	3	0	0	0.3*
5.1.8	Seal Kit	90372/DS	2	3	0	0	0.6*
5.1.9	Seal Kit	90359LI/RE/DS	2	3	0	0	0.6*
5.1.10	Seal Kit	90359LI/RE/DS	2	3	0	0	0.6*
5.1.11	Seal Kit	90344-A/DS	23	3	0	0	8
5.1.12	Seal Kit	90420-A/DS	5	3	0	0	1.6
5.1.13	Seal Kit	90420E-A/DS	4	3	0	0	1.3
5.1.14	Seal Kit	90347-A/DS	2	3	0	0	0.6*
5.1.15	Seal Kit	90246DS	2	3	0	0	0.6*
5.2.0 VALVE							
5.2.1	Automatic Drain Valve	90105EW	2	6	0	0	0.3*
5.2.2	Safety Valve	II91917/02120	1	6	0	0	0.2*
5.2.3	Check Valve	90382	1	6	0	0	0.2*
5.2.4	Check Valve	90381	1	6	0	0	0.2*
5.2.5	Solenoid Valve	90423	2	6	0	0	0.3*
5.2.6	Check Valve	90381	2	6	0	0	0.3*
5.2.7	Valve	90346-A	1	6	0	0	0.2*
5.2.8	Overflow Valve	90247-6,2BAR	1	6	0	0	0.2*
5.2.9	Overflow Valve	90246-6,5BAR	1	6	0	0	0.2*
5.2.10	Driver's Safety Device (Sifa) Valve	90374/A-DB	1	6	0	0	0.2*
5.2.11	Shuttle Valve +Support	90452	2	6	0	0	0.3*
5.2.12	Control Valve	90384	1	6	0	0	0.2*
5.2.13	Support For Valve	90384TR	1	6	0	0	0.2*
*minimum quantity 1							

UNIMAT275SH MFI M/C NO.56564-590, 56650-657					PNEUMATIC		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
5.2.14	Emergency Brake Valve Nb11	90386	2	6	0	0	0.3*
5.2.15	Guard Plate/Emer.Brakevalve	PN-A.40.131-00/EN	2	6	0	0	0.3*
5.2.16	Valve	90344-A	23	6	0	0	4
5.2.17	Valve	90420-A	5	6	0	0	1
5.2.18	Valve	90420E-A	4	6	0	0	0.6*
5.2.19	Valve	90347-A	2	6	0	0	0.3*
5.2.20	Check Valve	90418-A	2	6	0	0	0.3*
5.2.21	Overflow Valve	90246-A	2	6	0	0	0.3*
5.3.0 OTHERS							
5.3.1	Teflon-Corrugated Hose Pipe	90433-A/500	2	6	0	0	0.3*
5.3.2	Cooling Coil	DL90.37	2	6	0	0	0.3*
5.3.3	Drip Cup	90356	4	6	0	0	0.6*
5.3.4	Air Supply Unit	PN-LVE1000L	1	6	0	0	0.2*
5.3.5	Air Dryer Unit	90187C	1	6	0	0	0.2*
5.3.6	Filter Cartridge	90187ES	1	6	0	0	0.2*
5.3.7	Pressure Regulator	9753035040/DR	1	6	0	0	0.2*
5.3.8	Ball Stop Cock	II50172/2A1L	1	6	0	0	0.2*
5.3.9	Ball Stop Cock	90389	2	6	0	0	0.3*
5.3.10	Screw-In Sound Damper	0673 0013	1	6	0	0	0.2*
5.3.11	Silencer	9753035312	1	6	0	0	0.2*
5.3.12	Silencer	4324070700	1	6	0	0	0.2*
5.3.13	Driver Brake Valve Fb11	90366	2	6	0	0	0.3*
5.3.14	Pressure Regulator	90189-A	3	6	0	0	0.5*
5.3.15	Silencer	PN90.10K	2	6	0	0	0.3*
5.3.16	Pressure Switch	64.07.1000.55	2	6	0	0	0.3*
5.3.17	Pressure Switch	64.07.1000.54	4	6	0	0	0.6*
5.3.18	Display Unit	GIA 20EB	4	6	0	0	0.6*
5.3.19	Single Pressure Gauge	90284-A-BAR	6	6	0	0	1
5.3.20	Air Reservoir 100l	90167	3	6	0	0	0.5*
5.3.21	Container Ventilation	90215(M22X1,5)	2	6	0	0	0.3*
*minimum quantity 1							

UNIMAT275SH MFI M/C NO.56564-590, 56650-657					PNEUMATIC		
S.No.	Brief description	Part no.	Nos Per M/C	Estt. life cycle in years	Requirement per m/c		
					SITE	STMD	ZMTD
5.3.22	Pressure Transducer	90297/-40GRAD	4	6	0	0	0.6*
5.3.23	Pressure Gauge	90263-G	1	6	0	0	0.2*
5.3.24	Two-Way Cock	90375	2	6	0	0	0.3*
5.3.25	Auxiliary Brake Units	90372	2	6	0	0	0.3*
5.3.26	Emergency Brake Pull-Box	90385	2	6	0	0	0.3*
5.3.27	Socket Wrench	204069	2	6	0	0	0.3*
5.3.28	Distance Bolt	M6-DISTINEX-60100S33P15	6	6	0	0	1
5.3.29	Stopcock L.H.S.	90359LI	2	6	0	0	0.3*
5.3.30	Stopcock R.H.S.	90359RE	2	6	0	0	0.3*
5.3.31	Brake Hose Coupling	90319	4	6	0	0	0.6*
5.3.32	Check Throttle	90295-P	8	6	0	0	1.3
5.3.33	Check Throttle	90295Z-P	10	6	0	0	1.6
5.3.34	Signaling Horn	162502	2	6	0	0	0.3*
5.3.35	Check Throttle	90294-P	2	6	0	0	0.3*
5.3.36	On-Off Brake Change-Over Device	90354	1	6	0	0	0.2*
5.3.37	Pressure Regulator	90190-A	10	6	0	0	1.6
5.3.38	Pressure Gauge	90263-G	10	6	0	0	1.6
5.3.39	Single Pressure Gauge	90284-A-BAR	1	6	0	0	0.2*
5.3.40	Quick Release Coupling	ES14I	2	6	0	0	0.3*
5.3.41	Plug-In Nipple	ES6S	2	6	0	0	0.3*
*minimum quantity 1							

Note: - Any other items which the Zonal Railways decide as per condition and safe operation of machine shall be kept on the machine.

ACKNOWLEDGEMENT

Following officers and staff have made their valuable contributions in finalization of the Critical Spares Parts List for Unimat 275 **SH MFI M/C NO.56564-590, 56650-657**

RAILWAYS

1. S/SRI Ashutosh Tripathi SSE/TM/NER

RDSO

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

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