



संख्या: टीएम/एच एम/एमडीयू/पार्ट- III

दिनांक -As signed

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विषय: एम डी यू प्लाज़र मॉडल एम एफ़ एस - 120 (मशीन सं. 1201 – 1208 हेतु मान्य) मशीन की क्रिटिकल स्पेयर्स पार्ट सूची।

Sub: Critical spare part list of MDU Plasser model MFS-120 machine (applicable for machine no. 1201-1208).

एम डी यू प्लाज़र मॉडल एम एफ़ एस -120 (मशीन सं. 1201 – 1208 हेतु मान्य) मशीन की क्रिटिकल स्पेयर्स पार्ट सूची का मसौदा ओ. ई. एम. द्वारा प्रदत्त स्पेयर्स पार्ट कैटेलॉग एवम् फील्ड में कार्यरत कर्मचारियों के सुझावों के आधार पर तैयार कर पत्र सं. TM/HM/MDU/Pt-III दिनांक 08.09.2023 द्वारा 30 दिनों के लिए और अनंतिम क्रिटिकल स्पेयर्स पार्ट सूची पत्र सं. TM/HM/MDU/Pt-III दिनांक 01.01.2024 द्वारा 15 दिनों के लिए सभी क्षेत्रीय रेलवे, सी.पी.ओ.एच. एवं भा.रे.रे.प.म.प्र.के. को जारी किया गया था। परन्तु क्षेत्रीय रेलवे, सी.पी.ओ.एच. एवं भा.रे.रे.प.म.प्र.के. से अभी तक कोई भी सुझाव/टिप्पणी प्राप्त नहीं हुई है। अब क्रिटिकल स्पेयर्स पार्ट सूची अंतिम रूप से तैयार किया गया है, जिसकी एक प्रति आपके सूचनार्थ एवम् फील्ड में कार्यरत कर्मचारियों के मार्गदर्शन हेतु संलग्न है। यद्यपि उपरोक्त सूची बनाते समय सभी सावधानियां बरती गई हैं, फिर भी यदि कोई त्रुटि हों तो कृपया सुधार हेतु अपने सुझावों/टिप्पणियों को ई-मेल/पत्राचार द्वारा अधोहस्ताक्षरी को अवश्य भेजे।

On the basis of spare parts catalogue provided by OEM and suggestions received from field staff, draft critical spare part list of MDU Plasser model MFS-120 machine (applicable for machine no. 1201-1208) had been prepared and circulated to all zonal railways, C.P.O.Hs & IRTMTC vide letter no, TM/HM/MDU/Pt.-III dated: 08.09.2023 for 30 days and further provisional critical spare part list circulated vide letter no, TM/HM/MDU/Pt.-III dated: 01.01.2024 for 15 days. No comments have been received from zonal railways, C.P.O.Hs & IRTMTC till date. Now the critical spare part list has been finalized. A copy of the same is enclosed herewith for your kind information and guidance of the machine staff working in the field. Although every care has been taken during preparation of above said list, however the discrepancy noticed, if any, may kindly be brought to the knowledge of the undersigned for further improvement by e-mail/post.

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संलग्नक : उपरोक्त।

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(अमर देव मौर्य)

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भारत सरकार
रेल मंत्रालय

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

CRITICAL SPARE PARTS LIST
MUCK DISPOSAL UNIT (MFS-120) (Non-retractable conveyor)
(Applicable for machine no. 1201-1208)



Report no. CSP
February -2024

अनुसंधान अभिकल्प और मानक संगठन, लखनऊ-226011

RESEARCH DESIGNS & STANDARDS ORGANISATION LUCKNOW- 226 011

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.

In this pursuit a committee was formed which after thorough scrutiny of consumption pattern of spares for different machines had finalized a list of critical spares for different types of tamping machines.

On the basis of Spare parts catalogue provided by OEM and suggestions received from field staff, list of critical spare parts for MUCK DISPOSAL UNIT (Non-retractable conveyor) (MDU) (PLASSER) MFS-120 (for machine no.1201-1208) has been prepared. It may be noted that this is the list of spares required for the normal maintenance of MUCK DISPOSAL UNIT for one year only and does not include the spares required for IOH, POH and other spl. maintenance. Requirement of spares for other schedule maintenance like IOH or POH and emergency maintenance/attention, may be assessed separately on need basis by zonal railways itself.

February- 2024

(A.D.Maurya)
Director /Track Machine-III

INDEX

S.No.	Category	Page Nos
1.	ENGINE	1-2
2.	HYDRAULICS	3-6
3.	MECHANICAL	7-17
4.	ELECTRICAL & ELECTRONICS	18-20
5.	PNEUMATIC	21
6.	ANNEXURE	22
7.	ACKNOWLEDGEMENT	23

SITE - At machine

STMD - Satellite depot

ZTMD - Zonal depot

ENGINE							
S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
1. Engine (CUMMINS) QSB 6.7 141 KW with diesel fuel particulate filter @2300 rpm							
1.1.	ENGINE LUBE OIL	CI4+ Premium Blue 15W40	20 Ltrs**	0.3	50**	23**	23**
1.2.	AIR FILTER	4398445	1	1	1	0	0
1.3.	COOLANT	DCA4 (Premix)	50 Ltrs	2	10	10	5
1.4.	COOLANT TEMPERATURE GAUGE	4071829	1	6	0	0	0.2*
1.5.	COOLANT TEMPERATURE SENSOR	4071834	1	6	0	0	0.2*
1.6.	SENSOR COOLANT LEVEL	2872769	1	6	0	0	0.2*
1.7.	LUBE OIL TEMPERATURE SENSOR	4071834	1	6	0	0	0.2*
1.8.	LUBE OIL PRESSURE GAUGE	4071832	1	6	0	0	0.2*
1.9.	FUEL WATER SEPARATOR	FS1003	1	0.5	1	0	1
1.10.	FUEL FILTER	5264205 (Fleetguard FF5612)	1	0.5	1	1	0
1.11.	SECONDARY FUEL FILTER	4343955	1	0.5	1	1	0
1.12.	V BELT WATER PUMP	3288461	1	0.5	1	1	0
1.13.	V BELT RADIATOR SHAFT	3289279	1	0.5	1	1	0
1.14.	LUB OIL FILTER	3937736	1	0.5	1	1	0
1.15.	ALTERNATOR PULLEY	3815084	1	6	0	0	0.2*
1.16.	TUBE FUEL SUPPLY	4940552	1	2	0	0	0.5*
1.17.	TUBE FUEL SUPPLY	5313439	1	2	0	0	0.5*
1.18.	FUEL PUMP 24V	0580054001	2	6	0	0	0.3*
1.19.	HOSE	3976820	1	2	0	0	0.5*
1.20.	HOSE	3931522	1	2	0	0	0.5*

*Minimum Quantity 1 ** 20 lts X 3 = 60 lts, plus 03 lts/month for top up = 60+36=96 ltrs.

ENGINE							
S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
1.21.	HEX BOLT	3944593	12	6	1	0	1
1.22.	HEX BOLT M10 X 1.5 X 25	3902460	3	6	0	0	0.5*
1.23.	HEX BOLT	3901865	1	6	0	0	0.2*
1.24.	HEX BOLT	4896768	6	6	0	0	1
1.25.	HEX BOLT	3907769	1	6	0	0	0.2*
1.26.	SCREW, HEX FLANGE HEAD CAP	3944583	12	2	2	2	2
1.27.	V- BELT (RIBBED) FOR WATER PUMP	3288461	1	0.5	1	0	1
1.28.	SENSOR COOLANT LEVEL	2872769	1	6	0	0	0.2*
1.29.	RPM CUM HOUR METER		1	6	0	0	0.2*
1.30.	BATTERY CHARGING INDICATOR		1	6	0	0	0.2*
1.31.	DIGITAL TACHOMETER		1	6	0	0	0.2*
1.32.	BRAKE AIR PRESSURE (DUPLEX PRESSURE GAUGE)		1	6	0	0	0.2*
1.33.	EMERGENCY STOP SWITCH		2	6	0	0	0.3*
1.34.	ENGINE SELF STARTER	5469150	1	6	0	0	0.2*
1.35.	ENGINE OVER SPEED SWITCH WITH SENSOR		1	6	0	0	0.2*
1.36.	L.O.P BYPASS SENSOR SWITCH	4071835	1	6	0	0	0.2*
1.37.	FUEL CUT OFF SOLENOID VALVE		1	6	0	0	0.2*

*Minimum Quantity 1

HYDRAULIC							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
2.	HYDRAULIC						
2.1.	RETURN LINE FILTER	HY-R501.330.10A	1	0.3	1	1	1
2.2.	CHARGING FILTER	HY-D507.800.03	1	0.3	1	1	1
2.3.	FILTER	BF8X-F00-3MY	1	2	0	0	0.5*
2.4.	O-RING SEAL	GGD2448SET	1	2	0	0	0.5*
2.5.	HYDRAULIC MOTOR	HY940X560	2	6	0	0	0.3*
2.6.	FITTING	8HP50NS	2	6	0	0	0.3*
2.7.	FITTING	1/2HHPS	3	6	0	0	0.5*
2.8.	FITTING	1HHPS	1	6	0	0	0.2*
2.9.	FITTING	1/8HHPS	2	6	0	0	0.3*
2.10.	BUSH	UD73.106	2	6	0	0	0.3*
2.11.	O-RING	110X2-N-DIN3771-NBR90	2	2	0	0	1
2.12.	O-RING SEAL	209,22X2,62-N-DIN3771-NBR70	4	2	0	1	1
2.13.	O-RING SEAL	171,12X2,62-DIN3771-NBR90	2	2	0	0	1
2.14.	O-RING SEAL	78,97X3,53-N-DIN3771-NBR90	2	2	0	0	1
2.15.	O-RING SEAL	10X2,2-N-DIN3771-NBR90	2	2	0	0	1
2.16.	O-RING SEAL	9,25X1,78-N-DIN3771-NBR90	4	2	0	1	1
2.17.	SEALING RING	A13X18X1,5DIN7603-CU	12	2	2	2	2
2.18.	SEALING RING	A22X27X1,5DIN7603-CU	3	2	1	0	0.5*
2.19.	SEALING RING	A38X44X1,5DIN7603-CU	1	2	0	0	0.5*
2.20.	SHAFT SEALING RING	BABSL70-90-7DIN3760-VI460	2	2	0	0	1
2.21.	SEAL KIT	NZ01.080	1	2	0	0	0.5*
2.22.	SEAL KIT	HZ02.DD.080.050	2	2	0	0	1
2.23.	SEAL KIT	NZ01.100	1	2	0	0	0.5*
2.24.	SEAL KIT	HZ22.100.050	1	2	0	0	0.5*
2.25.	SEAL KIT	NZ01.063	1	2	0	0	0.5*
2.26.	SEAL KIT	HZ22.063.025	1	2	0	0	0.5*
2.27.	SHAFT SEALING RING	BA55-72-8DIN3760-NB	2	2	0	0	1
2.28.	STRAIGHT	NZD03.GB.080	1	6	0	0	0.2*

*Minimum Quantity 1

HYDRAULIC							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
	PISTON ROD COMPLETE	NZ10.DD.080.050.1160.2	1	6	0	0	0.2*
	PISTON ROD COMPLETE	NZ10.100.050.0200.1.001	1	6	0	0	0.2*
CYLINDER							
1.	CYLINDER FOR SWIVEL DEVICE	NZDGBD.080.050.1160.2	4	6	0	0	0.6*
2.	LIFTING CYLINDER FOR SWIVEL DEVICE	NZMBV.100.050.0200.1.001	1	6	0	0	0.2*
3.	CONVEYOR BELT SUPPORT CYLINDER	NZGB.063.025.0430.2	1	6	0	0	0.2*
4.	FILTER FOR DIESEL SYSTEM	HY-D501.10.30/H300W	1	0.3	1	1	1
5.	SEAL KIT FOR DIESEL SYSTEM	HY-D501.10.30/H300W/DS	1	2	0	0	0.5*
6.	CHECK VALVE	HY151.33/0,5BAR12	1	6	0	0	0.2*
7.	VALVE FOR LUBRICATION OILDISTRIBUTION .BLOCK	90421 VENTIL	2	6	0	0	0.3*
8.	BALL COCK	KUGELHAHN-TYPE984-3/4"	3	6	0	0	0.5*
9.	ADAPTOR	WN7-M24A-R1/4"I	2	6	0	0	0.3*
10.	ADAPTOR	WN7-NPTF1/2A-R1/4I	1	6	0	0	0.2*
11.	ADAPTOR	2081-8-4	1	6	0	0	0.2*
HOSE WITH FITTINGS							
12.	HOSE FOR VARIABLE PUMP CHARGING	R02-4x 1000	1	6	0	0	0.2*
13.	HOSE FOR VARIABLE DRIVING	R02-4x 1020	1	6	0	0	0.2*
14.	HOSE FOR EMRG. PUMP TO DIST. (PR. LINE)	R02-4x 5000	1	6	0	0	0.2*
15.	HOSE FOR LUBRICATION VALVE (FRONT) TO DIST.	R02-4x 6300	2	6	0	0	0.3*
16.	HOSE FOR THROTTLE VALVE TO SAFTY VALVE (WASTE CONVEYER TURNING CYLINDER) {B1-D1}	R02-6x800	1	6	0	0	0.2*
17.	HOSE FOR WASTE CONVEYER TURNING CYLINDER SOL. VALVE TO THROTTLE VALVE	R02-6x950	2	6	0	0	0.3*
18.	HOSE FOR DIST1 TO DIST 2 (LUBRICATION)	R02-6x9150	1	6	0	0	0.2*

*Minimum Quantity 1

HYDRAULIC							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
19.	HOSE FOR SAFTY VALVE TO TURNING CYLINDER WASTE CONVEYER	R02-6x5700	1	6	0	0	0.2*
20.	HOSE FOR HOPPER CONVEYER MOTOR (L) FRONT TO DIST. {LEFT AND RIGHT}	R02-10x5450	2	6	0	0	0.3*
21.	HOSE FOR WASTE CONVEYER MOTOR (L) TO DIST. {LEFT AND RIGHT}	R02-10x7800	2	6	0	0	0.3*
22.	HOSE FOR HYD. TANK TO DIST. (HYD. OIL DRAIN)	R02-10x950	1	6	0	0	0.2*
23.	HOSE FOR AIR OILER TO STEEL PIPE	R02-10x1900	1	6	0	0	0.2*
24.	HOSE FOR SYST. PRESSURE VALVE (56R) TO DIST.1	2755-10x2500	1	6	0	0	0.2*
25.	HOSE FOR VARIABLE PUMP (L) LINE TO DIST.	R02-12x1050	1	6	0	0	0.2*
26.	HOSE FOR PUMP TO COOLER MOTOR	R02-12x3300	2	6	0	0	0.3*
27.	HOSE FOR DIST.2 TO DIST.3 (SYSTEM TANK) { R.H.S }	R02-12x4100	1	6	0	0	0.2*
28.	HOSE FOR WASTE CONVEYER (L) DIST. (FRONT) TO DIST. L.H.S	R02-12x7950	1	6	0	0	0.2*
29.	HOSE FOR VARIABLE PUMP (L) LINE TO DIST.	R02-12x1050	2	6	0	0	0.3*
30.	HOSE FOR WASTE CONVEYER (L) DIST. TO TANK	R02-12x9000	1	6	0	0	0.2*
31.	HOSE FOR HOPPER CONVEYER MOTOR (L) LINE TO DIST1 TO DIST. (R.H.S)	R02-12x2150	1	6	0	0	0.2*
32.	HOSE FOR HOPPER MOTOR TO DIST. (FRONT) {LEFT & RIGHT }	2755-12x5350	2	6	0	0	0.3*
33.	HOSE FOR HOPPER MOTOR TO DIST. (REAR) {LEFT & RIGHT }	2755-12x4000	2	6	0	0	0.3*
34.	HOSE FOR DIST TO DIST (HOPPER) LEFT & RIGHT	2755-12x7600	4	6	0.3*	0	0.3*

*Minimum Quantity 1

HYDRAULIC							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
35.	HOSE FOR MAIN DIST TO DIST.1 (HOPPER MOTOR) R.H.S (B)	2755-12x2250	2	6	0	0	0.3*
36.	HOSE FOR MAIN DIST TO DIST.1 (HOPPER MOTOR) L.H.S (B)	2755-12x2850	1	6	0	0	0.2*
37.	HOSE FOR COOLER 2 BYPASS (L.H.S)	R02-16x900	3	6	0	0	0.5*
38.	HOSE FOR SYSTEM SAFETY VALVE (56 R) TANK LINE TO COOLER 2 OUTLET (L.H.S)	R02-16x1000	1	6	0	0	0.2*
39.	HOSE FOR HOPPER MOTOR (L) LINE MAIN DIST. TO TANK	R02-16x6500	1	6	0	0	0.2*
40.	HOSE FOR VARIABLE PUMP TO DIST	GH506-16x7900	1	6	0	0	0.2*
41.	HOSE FOR GEAR PUMP TO SAFETY VALVE (56R)	2755-16x4250	1	6	0	0	0.2*
42.	HOSE FOR COOLER MOTOR (L) LINE TO DIST. (L.H.S)	R5R-6x1350	1	6	0	0	0.2*
43.	HOSE FOR COOLER MOTOR (L) LINE TO DIST. (R.H.S)	R5R-6x650	1	6	0	0	0.2*
44.	HOSE FOR STEEL PIPE TO BRAKE CYL.	R5R-10x700	4	6	0.3*	0	0.3*
45.	HOSE FOR SUCTION BLOCK TO VARIABLE PUMP	R5R-20x1250	1	6	0	0	0.2*
46.	HOSE FOR SUCTION BLOCK TO VARIABLE PUMP	R5R-20x750	1	6	0	0	0.2*
47.	HOSE FOR SUCTION BLOCK TO COOLER GEAR PUMP	R5R-24x900	1	6	0	0	0.2*
48.	HOSE FOR COOLER 2 TO TANK (L.H.S)	R5R-24x5100	1	6	0	0	0.2*
49.	HOSE FOR OIL FILLING LUBRICATION TANK	R5R-24x1150	1	6	0	0	0.2*
50.	HOSE FOR JOINT TO JOINT L.H.S (K.E VALVE) AXLE 4 TO AXLE 5	R1-24(11/2")x5100	1	6	0	0	0.2*

*Minimum Quantity 1

MECHANICAL							
S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
MECHANICAL							
1.	CHAIN 345 LINKS (PITCH=101,6MM)	SU-4"-JVS	2	6	0	0	0.3*
2.	CHAIN FOR SWIVELLING BELT 209 LINKS (PITCH=76,2MM)	SU-3"-JV	2	6	0	0	0.3*
3.	STANDARD CHAIN	BILD21-5MM-VERZINKT	4	6	0	0	0.6*
4.	SWIVELLING BELT (LENGTH = 16500MM)	SU126.10911-POS9	1	2	0	0	0.5*
5.	CORD	WN145-22.3540-1	2	6	0	0	0.3*
6.	FLAT LUBRICATOR NIPPLE	R1/4ZDIN3404-M1/GERADE	6	6	0.5*	0	0.5*
7.	THREADED NIPPLE	WN7-R1/8A-NPTF1/4I	4	6	0.3*	0	0.3*
8.	TAPERED LUBRICATION NIPPLE	R1/8ZDIN71412-H2/45GRAD	2	6	0.1*	0	0.2*
9.	GREASE NIPPLE	D1A/6MM	2	6	0.1*	0	0.2*
10.	UNIVERSAL JOINT	GE35DO2RS	2	6	0	0	0.3*
11.	UNIVERSAL JOINT	GE40DO	1	6	0	0	0.2*
12.	PLAIN BEARING BUSH	MB5040DU	2	6	0	0	0.3*
13.	BLIND FLAT ROUND-HEAD RIVET	6,4X18STAHL/KOPFDURCHM. 19	1666	6	56	111	111
14.	DRIVE SHAFT	SU126.40108.1.12	1	6	0	0	0.2*
15.	DRIVE SHAFT	SU126.11708.1.12	1	6	0	0	0.2*
16.	DRIVE SHAFT	SU126.10109.1.4	1	6	0	0	0.2*
17.	CROSS SHAFT	SU126.2011.2.19	1	6	0	0	0.2*
18.	DRIVE SHAFT	UD73.102	1	6	0	0	0.2*
19.	AXLE	SU126.15108.21.79	2	6	0	0	0.3*
20.	SCRAPER	SU126.15108.21.84	1	6	0	0	0.2*

*Minimum Quantity 1

MECHANICAL							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
21.	RUBBER SPRING ELEMENT	DR-S45X80	2	6	0	0	0.3*
22.	FLANGE BUSH	WN155-100.120.95-1B	4	6	0	0	0.6*
23.	SWIVELLING BELT	EB-SU126.31711-BL.2	1	2	0	0	0.5*
24.	TENSION SPRING	M16X35DIN938-10.9	26	6	1	1	2
25.	TENSION SPRING	16X45DIN938-8.8/VERZ.	40	6	2	2	3
26.	TENSION SPRING	M24X75DIN939-10.9/DACRO	8	6	1	0	0.3*
27.	GAS SPRING	083178	4	6	0	0	0.6*
28.	SPRING	034-16118	2	6	0	0	0.3*
29.	SHIM PLATE	SU126.9209.18.35	16	6	0	1	2
30.	RING	SU126.2011.1.5	2	6	0	0	0.3*
31.	SUPPORTING ROLLER	NATR25PP	176	2	22	33	33
32.	SUPPORTING ROLLER	NATR17PP	106	2	13	20	20
33.	ROLLER	SU126.40008.23.2	2	2	0	0	1
34.	BELT (LENGTH = 35700MM)	SU126.40208.9	1	2	0	0	0.5*
35.	LOCKING LINK	SU-4"-JVS/NIETGLIED	2	6	0	0	0.3*
36.	WEAR STRIPS	SU126.40208.19	1	2	0	0	0.5*
37.	NILOS RING	6217AV	12	6	0	1	0.3*
38.	NILOS RING	22212AV	4	6	0	0	0.6*
BEARING							
39.	BEARING	20217MB	8	6	0	1	0.3*

*Minimum Quantity 1

MECHANICAL							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
40.	TORQUE CONVERTER BEARING	SU126.40108.1.20	2	6	0	0	0.3*
41.	BEARING	SU126.40108.1.21	2	6	0	0	0.3*
42.	BEARING	SU126.17108.2.21	1	6	0	0	0.2*
43.	BEARING	SU126.17108.2.22	1	6	0	0	0.2*
44.	BEARING AS DRAWN	SU126.40008.21.48	1	6	0	0	0.2*
45.	BEARING MIRRORED1	SU126.40008.21.49	1	6	0	0	0.2*
46.	DEEP GROOVE BALL BEARING	6014/2RS	4	6	0	0	0.6*
47.	BEARING	U126.10109.1.6	2	6	0	0	0.3*
48.	TORQUE CONVERTER BEARING	SU1512.1108.11.1.41	2	6	0	0	0.3*
49.	SELF-ALIGNING ROLLER BEARING	22212	2	6	0	0	0.3*
50.	BEARING	SU126.2011.17.5	2	6	0	0	0.3*
51.	DEEP GROOVE BALL BEARING	6313C3	2	6	0	0	0.3*
52.	DEEP GROOVE BALL BEARING	6218C3	2	6	0	0	0.3*
53.	TAPERED ROLLER BEARING	32211	1	6	0	0	0.2*
54.	TAPERED ROLLER BEARING	31311	1	6	0	0	0.2*
55.	HEXAGON BOLT	M24X110DIN931-10.9/DACRO	8	6	1	0	0.3*
56.	HEXAGON BOLT	M10X25DIN933-MS	1	6	0	0	0.2*
57.	HEXAGON BOLT	M10DIN934-MS	1	6	0	0	0.2*
58.	HEXAGON BOLT	M12X45DIN931-10.9/DACRO	4	6	0	0	0.6*
59.	HEXAGON BOLT	M20X40DIN933-10.9	4	6	0	0	0.6*

*Minimum Quantity 1

MECHANICAL							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
60.	HEXAGON BOLT	M16X45DIN933-8.8/VERZ	8	6	1	0	0.3*
61.	HEXAGON BOLT	M20X70DIN931-10.9	8	6	1	0	0.3*
62.	HEXAGON BOLT	M20DIN985-10	8	6	1	0	0.3*
63.	HEXAGON BOLT	M20X120DIN931-8.8/VERZ.	700	6	25	45	47
64.	HEXAGON BOLT	BM16X80DIN561-10.9	2	6	0	0	0.3*
65.	T-HEAD BOLT	BM30X400DIN186-8.8	2	6	0	0	0.3*
66.	HEXAGON BOLT	M8X16DIN933-8.8/VERZ	64	6	3	4	4
67.	HEXAGON BOLT	M12X30DIN933-8.8/VERZ.	96	6	4	6	6
68.	HEXAGON BOLT	M12X25DIN933-8.8/VERZ.	410	6	18	25	25
69.	HEXAGON BOLT	M12X40DIN933-8.8/VERZ	8	6	1	0	0.3*
70.	HEXAGON BOLT	BM20X120DIN561-8.8/VERZ	2	6	0	0	0.3*
71.	HEXAGON BOLT	M8X12DIN933-8.8/VERZ	60	6	2	5	5
72.	HEXAGON BOLT	M16X30DIN933-8.8/VERZ	6	6	0	0	1
73.	HEXAGON BOLT	M8X40DIN931-8.8/VERZ	8	6	1	0	0.3*
74.	HEXAGON BOLT	M16X50DIN933-10.9/DACRO	8	6	1	0	0.3*
75.	HEXAGON BOLT	M20X55DIN933-8.8/VERZ.	8	6	1	0	0.3*
76.	HEXAGON BOLT	M12X65DIN931-8.8/VERZ.	420	6	10	30	30
77.	HEXAGON BOLT	M16X40DIN933-10.9/DACRO	4	6	0	0	0.6*
78.	HEXAGON BOLT	M12X35DIN933-10.9/DACRO	4	6	0	0	0.6*
79.	HEXAGON BOLT	M16X100DIN931-8.8/VERZ	32	6	2	1	2

*Minimum Quantity 1

MECHANICAL							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
80.	HEXAGON BOLT	BM16X70DIN561-10.9	2	6	0	0	0.3*
81.	HEXAGON BOLT	BM16X70DIN561-10.9	2	6	0	0	0.3*
82.	HEXAGON BOLT	M8X20DIN933-10.9/DACRO	1	6	0	0	0.2*
83.	HEXAGON BOLT	M12X35DIN933-8.8/VERZ	9	6	1	0	0.5*
84.	HEXAGON BOLT	M6X16DIN933-8.8/VERZ	16	6	1	1	0.6*
85.	HEXAGON BOLT	M10X30DIN933-10.9/DACRO	12	6	1	0	1
86.	HEXAGON BOLT	M10X40DIN931-10.9/DACRO	12	6	1	0	1
87.	HEXAGON BOLT	M10X25DIN933-10.9/DACRO	12	6	1	0	1
88.	HEXAGON BOLT	M8X25DIN933-8.8/VERZ.	26	6	2	1	1
89.	HEXAGON BOLT	M20X100DIN561-8.8	1	6	0	0	0.2*
90.	HEXAGON BOLT	M8X16DIN933-8.8/VERZ.	12	6	1	0	1
91.	HEXAGON BOLT	M16X40DIN933-8.8/VERZ.	8	6	1	0	0.3*
92.	T-HEAD BOLT	BM20X300DIN186-10.9	2	6	0	0	0.3*
93.	HEXAGON SOCKET SCREW	M8X20DIN6912-8.8	16	6	1	1	0.7*
94.	HEXAGON SOCKET SCREW	M14X110DIN912-10.9/DACRO	16	6	1	1	0.6*
95.	HEXAGON SOCKET SCREW	M16X35DIN912-12.9	6	6	0	0	1
96.	HEXAGON SOCKET SCREW	M12X40DIN912-10.9/DACRO	16	6	1	1	0.7*
97.	HEXAGON SOCKET SCREW	M14X40DIN912-10.9/DACRO	16	6	1	0	0.3*
98.	HEXAGON SOCKET SCREW	M14X120DIN912-10.9/DACRO	8	6	1	0	0.3*
99.	HEXAGON SOCKET SCREW	M12X100DIN912-10.9/DACRO	10	6	1	0	0.6*

*Minimum Quantity 1

MECHANICAL							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
100.	HEXAGON SOCKET SCREW	M12X35DIN6912-10.9 I-	16	6	1	1	0.6*
101.	HEXAGON SOCKET SCREW	M12X60DIN912-10.9/DACRO	4	6	0	0	0.6*
102.	HEXAGON SOCKET SCREW	M12X110DIN912-10.9/DACRO	6	6	0	0	1
103.	HEXAGON SOCKET SCREW	M20X140DIN912-10.9	2	6	0	0	0.3*
104.	HEXAGON SOCKET SCREW	M20X160DIN912-10.9	6	6	0	0	1
105.	HEXAGON SOCKET SCREW	M12X40DIN912-8.8/VERZ.	80	6	3	5	5
106.	COUNTERSUNK SCREW	M12X35DIN7991-8.8/VERZ.	794	6	27	53	53
107.	HEXAGON SOCKET SCREW	M16X35DIN6912-8.8	8	6	1	0	0.3*
108.	HEXAGON SOCKET SCREW	M16X40DIN912-8.8/VERZ	8	6	1	0	0.3*
109.	HEXAGON SOCKET SCREW	M24X100DIN912-10.9/DACRO	4	6	0	0	0.6*
110.	HEXAGON SOCKET SCREW	M8X16DIN6912-8.8/VERZ	12	6	1	0	1
111.	HEXAGON SOCKET SCREW	M12X45DIN912-10.9/DACRO	12	6	1	0	1
112.	HEXAGON SOCKET SCREW	M10X25DIN6912-8.8/VERZ	12	6	1	0	1
113.	HEXAGON SOCKET SCREW	M10X20DIN912-10.9/DACRO	4	6	0	0	0.6*
114.	HEXAGON SOCKET SCREW	M10X25DIN912-8.8/VERZ.	2	6	0	0	0.3*
115.	HEXAGON SOCKET SCREW	M12X75DIN912-10.9	8	6	1	0	0.3*
116.	HEXAGON SOCKET SCREW	M12X35DIN912-10.9	8	6	1	0	0.3*
117.	HEXAGON SOCKET SCREW	M8X105DIN912-8.8/VERZ.	8	6	1	0	0.3*
118.	HEXAGON SOCKET SCREW	M8X50DIN912-8.8/VERZ.	4	6	0	0	0.6*
119.	HEXAGON SOCKET SCREW	M12X25DIN912-8.8/VERZ.	24	6	1	1	2

*Minimum Quantity 1

MECHANICAL							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
120.	HEXAGON SOCKET SCREW	M10X70DIN912-10.9/DACRO	8	6	1	0	0.3*
121.	HEXAGON SOCKET SCREW	M10X25DIN6912-8.8/VERZ.	8	6	1	0	0.3*
122.	HEXAGON SOCKET SCREW	M4X20DIN912-8.8/VERZ	4	6	0	0	0.6*
123.	HEXAGON SOCKET SCREW	M5X10DIN912-8.8/VERZ	1	6	0	0	0.2*
124.	HEXAGON SOCKET SCREW	M4X16DIN912-8.8/VERZ.	2	6	0	0	0.3*
125.	HEXAGON SOCKET SCREW	M6X10DIN912-8.8/VERZ	1	6	0	0	0.2*
126.	BOLT LOCKING DEVICE DISC	M12-NORD-LOCK	249	6	9	16	16
127.	BOLT LOCKING DEVICE DISC	M16-NORD-LOCK	16	6	1	1	0.6*
128.	BOLT LOCKING DEVICE DISC	M20-NORD-LOCK	12	6	1	0	1
129.	BOLT LOCKING DEVICE DISC	M24-NORD-LOCK	12	6	1	0	1
130.	BALL AND SOCKET JOINT	KUGELGELENK M30	10	6	1	0	0.6*
131.	COUNTERSUNK SCREW	M4X10DIN963-5.8/VERZ	2	6	0	0	0.3*
132.	COUNTERSUNK SCREW	M8X50DIN7991-8.8/VERZ	9	6	1	0	0.5*
133.	COUNTERSUNK SCREW	M12X40DIN7991-8.8/VERZ.	14	6	1	1	0.3*
134.	COUNTERSUNK SCREW	M12X45DIN7991-8.8/VERZ	8	6	1	0	0.3*
135.	COUNTERSUNK SCREW	M12X60DIN7991-8.8	24	6	1	1	2
136.	COUNTERSUNK SCREW	M12X80DIN7991-8.8/VERZ	13	6	1	1	0.2*
137.	COUNTERSUNK SCREW	M12X30DIN7991-8.8/VERZ	14	6	1	1	0.3*
138.	COUNTERSUNK SCREW	M12X70DIN7991-8.8/VERZ	44	6	1	2	4
139.	COUNTERSUNK SCREW	M10X30DIN7991-8.8/VERZ	60	6	2	4	4

*Minimum Quantity 1

MECHANICAL							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
140.	COUNTERSUNK SCREW	M12X50DIN604-4.6/VERZ	48	6	2	2	4
141.	COUNTERSUNK SCREW	M6X20DIN7991-8.8/VERZ	8	6	1	0	0.3*
142.	SPLIT PIN	5X45DIN94/VERZ.	8	6	1	0	0.3*
143.	SPLIT PIN	6,3X45DIN94/VERZ	1	6	0	0	0.2*
144.	WASHER	WN121-20,5.54.9-1	84	6	3	4	6
145.	WASHER	13DIN125/VERZ.	34	6	2	2	2
146.	WASHER	21DIN125/VERZ	12	6	1	0	1
147.	WASHER	25DIN125/VERZ.	176	6	5	10	15
148.	SCHNORR-LOCK WASHER	VS8/VERZ.	206	6	7	14	14
149.	SCHNORR-LOCK WASHER	VS14	40	6	2	1	2
150.	SCHNORR-LOCK WASHER	VS12/VERZ.	122	6	1	1	0.6*
151.	SCHNORR-LOCK WASHER	VS20/VERZ.	16	6	1	1	0.6*
152.	SCHNORR-LOCK WASHER	VS16/VERZ	90	6	3	6	6
153.	SCHNORR-LOCK WASHER	M10X20DIN912-8.8/VERZ.	4	6	0	0	0.6*
154.	SCHNORR -LOCK WASHER	VS10/VERZ.	60	6	2	4	4
155.	SCHNORR -LOCK WASHER	VS6/VERZ	16	6	1	1	0.6*
156.	WASHER	8,4DIN9021/VERZ	8	6	1	0	0.3*
157.	WASHER	WN121-16,5.60.10-1	2	6	0	0	0.3*
158.	WASHER	WN121-140.170.8-1	2	6	0	0	0.3*
159.	WASHER	30DIN125/VERZ.	11	6	1	0	1

*Minimum Quantity 1

MECHANICAL							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
160.	WASHER	8DIN125/VERZ.	145	6	4	10	10
161.	WASHER	WN121-30,2.48.6-1	2	6	0	0	0.3*
162.	WASHER	WN121-13.36.3-2	384	6	13	26	26
163.	WASHER	13DIN9021/VERZ	460	6	15	30	30
164.	WASHER	B74DIN125	1	6	0	0	0.2*
165.	WASHER	WN121-65.145.15-1	2	6	0	0	0.3*
166.	WASHER	15DIN125/VERZ.	106	6	4	7	7
167.	WASHER	SU126.10109.1.24	2	6	0	0	0.3*
168.	WASHER	SU126.10109.2.10	2	6	0	0	0.3*
169.	WASHER	SU126.2011.2.9	2	6	0	0	0.3*
170.	WASHER	45DIN1440/VERZ	2	6	0	0	0.3*
171.	WASHER	35DIN1440/VERZ.	2	6	0	0	0.3*
172.	WASHER	40DIN1440/VERZ	2	6	0	0	0.3*
173.	WASHER	WN121-8,5.40.4-1	1	6	0	0	0.2*
174.	WASHER	10,5DIN125/VERZ.	60	6	2	4	4
175.	WASHER	12DIN1440/VERZ	1	6	0	0	0.2*
176.	CASTLE NUT	M24DIN935-10	16	6	1	1	0.3*
177.	CASTLE NUT	STW508.89.003	1	6	0	0	0.2*
178.	CASTLE NUT	M30X1,5DIN935-6/VERZ	8	6	1	0	0.3*
179.	CASTLE NUT	M64X2DIN935-8	2	6	0	0	0.3*
180.	CASTLE NUT	M20DIN935-8/VERZ.	1	6	0	0	0.2*
181.	LOCK NUT	M12DIN985-10/VERZ	4	6	0	0	0.6*

*Minimum Quantity 1

MECHANICAL							
S. NO	Brief Description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
182.	LOCK NUT	M20DIN985-8	700	6	24	46	46
183.	LOCK NUT	M10DIN985-8	60	6	2	4	4
184.	LOCK NUT	M12DIN985-8	1409	6	47	94	94
185.	LOCK NUT	M8DIN985-10	17	6	1	1	1
186.	LOCK NUT	M16DIN985-8	48	6	2	3	3
187.	LOCK NUT	M12DIN982-8	1	6	0	0	0.2*
188.	LOCK NUT	M10DIN985-8	12	6	1	0	1
189.	HEXAGON NUT	M16DIN934-8/VERZ.	2	6	0	0	0.3*
190.	HEXAGON NUT	M30DIN934-8/VERZ.	4	6	0	0	0.6*
191.	HEXAGON NUT	M20DIN934-8/VERZ	8	6	1	0	0.3*
192.	HEXAGON NUT	M24DIN934-10/DACRO	4	6	0	0	0.6*
193.	HEXAGON NUT	M45X1,5DIN936-6	1	6	0	0	0.2*
194.	HEXAGON NUT	M45X1,5DIN936LI-6	1	6	0	0	0.2*
195.	HEXAGON NUT	M16DIN934-10	26	6	1	1	2
196.	HEXAGON NUT	M12DIN934-8/VERZ.	3	6	0	0	0.5*
197.	HEXAGON NUT	M8DIN934-8/VERZ	12	6	1	0	1
198.	HEXAGON NUT	M20X1,5DIN936-8/VERZ	1	6	0	0	0.2*
199.	SLIDE NUT M5	22.115.110-05	1	6	0	0	0.2*
200.	PIN	SU126.8.6	176	6	5	10	15
201.	PIN	WN109-34,5.52.M30X1,5-2	8	6	1	0	0.3*
202.	PIN	WN109-100H6.309.M64X2-1	2	6	0	0	0.3*
203.	PIN	SU1600.508.1.6-2	106	6	4	7	7

*Minimum Quantity 1

MECHANICAL							
S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
204.	PIN	WN105-45H8.83.6,5-1	1	6	0	0	0.2*
205.	PIN	UD140.402	1	6	0	0	0.2*
206.	PIN	WN102-35h8.112.8-1	2	6	0	0	0.3*
207.	SPLIT PIN	8X71DIN94/VERZ.	2	6	0	0	0.3*
208.	SPLIT PIN	8X50DIN94/VERZ.	2	6	0	0	0.3*
209.	SPLIT PIN	8X56DIN94/VERZ.	2	6	0	0	0.3*
210.	SWITCH PIN	SU126.10211.17.46	1	6	0	0	0.2*
211.	SWITCH PIN	SU126.10211.17.54	1	6	0	0	0.2*
212.	TENSION PIN	25X60DIN7346	4	6	0	0	0.6*
213.	THREADED PIN	M6X12DIN553	1	6	0	0	0.2*
214.	CIRCLIP	A85DIN471	2	6	0	0	0.3*
215.	CIRCLIP	I170DIN472	2	6	0	0	0.3*
216.	CIRCLIP	A30DIN471	2	6	0	0	0.3*
217.	CIRCLIP	A70DIN471	2	6	0	0	0.3*
218.	CIRCLIP	110DIN472	1	6	0	0	0.2*
219.	CIRCLIP	55DIN472	2	6	0	0	0.3*
220.	CIRCLIP	I62DIN472	1	6	0	0	0.2*
221.	SPLIT PIN	8X100DIN94/VERZ	1	6	0	0	0.2*
222.	SPLIT PIN	6,3X50DIN94	8	6	1	0	0.3*
223.	SPLIT PIN	10X100DIN94	2	6	0	0	0.3*

*Minimum Quantity 1

ELECTRICAL & ELECTRONICS							
S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
ELECTRICAL & ELECTRONICS							
1.	BATTERY	12V92AH/59201	2	2	0	0	1
2.	BATTERY TERMINAL/+PINS	52.285.082	2	2	0	0	1
3.	BATTERY TERMINAL/-POL	52.285.083	2	2	0	0	1
4.	BATTERY SAFETY SWITCH	437-K60-1-06-80A	1	6	0	0	0.2*
5.	BATTERY SAFETY SWITCH	437-K60-1-06-125A	1	6	0	0	0.2*
6.	BLUE FLASHBULB	K50BCLS1XBXPQ	2	6	0	0	0.3*
7.	FLASHLIGHT	BLK5.024.23/15-32VDC	2	6	0	0	0.3*
8.	TRANSDUCER/RED	SOP.024.21	2	6	0	0	0.3*
9.	PRESSURE TRANSDUCER	NTB-130YY-03-OEM	3	6	0	0	0.5*
10.	LINEAR TRANSDUCER	MWA0.2220-300	1	6	0	0	0.2*
11.	TEMPERATURE MEASURING TRANSDUCER	ETS7246-A-008	2	6	0	0	0.3*
12.	CONNECTOR	DT06-2S	2	6	0	0	0.3*
13.	CONNECTOR	DTM06-2S	2	6	0	0	0.3*
14.	CONNECTOR, MALE	MSTB2,5/16-ST-5,08	4	6	0	0	0.6*
15.	CONNECTOR, MALE	IC2,5/16-STGF-5,08	4	6	0	0	0.6*
16.	ROUND CONNECTOR M12	MSB-T-AC-27642	10	6	1	0	0.6*
17.	ROUND CONNECTOR M12	MSDLO-AC-T-27646	10	6	1	0	0.6*
18.	CONNECTOR K60	X20103301(TYP437)	1	6	0	0	0.2*
19.	CONTACT	0462-201-20141	4	6	0	0	0.6*
20.	CONTACT	0462-201-16141	20	6	1	1	1
21.	CONTACT PIN/0,13-0,33MM2	09670005576	8	6	1	0	0.3*
22.	CONTACT ELEMENT	EL-T7190-S	56	6	2	2	5
23.	CONTACT ELEMENT	EL-T7190-O	7	6	0	0	1
24.	PROTECTIVE-TUBE LED	LRT-60EN-10W-UNI-A-EN	3	6	0	0	0.5*
25.	PROTECTIVE-TUBE LED	LRT-120EN-18W-UNI-A-EN	11	6	1	0	1

*Minimum Quantity 1

ELECTRICAL & ELECTRONICS							
S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
26.	WORK LIGHT-LED	910174135	10	6	1	0	0.6*
27.	LED HEADLIGHT	YSP1933	4	6	0	0	0.6*
28.	EXTENSION SENSOR	1-SLB700A/12-1	8	6	1	0	0.3*
29.	PRESSURE SWITCH	64.07.1000.54/D/11BAR	1	6	0	0	0.2*
30.	PROXIMITY SWITCH	NI30U-M30-AP6X-H1141	3	6	0	0	0.5*
31.	PROXIMITY SWITCH	S-8.72.1	1	6	0	0	0.2*
32.	FIRE PROTECTION SWITCH	R2852N12T933180+/-5	1	6	0	0	0.2*
33.	SOCKET HOUSING 24V	S-7.19.4	2	6	0	0	0.3*
34.	MAGNETIC CONNECTOR FOR HYDRAULICS	EL-T7078	9	6	1	0	0.5*
35.	MAGNETIC CONNECTOR FOR PNEUMATICS	EL-T7079	1	6	0	0	0.2*
36.	DISTANCE SENSOR	S-6.128	1	6	0	0	0.2*
37.	LIMIT SWITCH	EL-T198T	2	6	0	0	0.3*
38.	PUSH BUTTON RED	EL-T7190-A4	1	6	0	0	0.2*
39.	PUSH BUTTON YELLOW/HORN	EL-T7190-A58/HORN	5	6	0	0	1
40.	PUSH BUTTON, BLUE	EL-T7190-A6	4	6	0	0	0.6*
41.	BUTTON, YELLOW	EL-T7190-A5	6	6	0	0	1
42.	ILLUMINATED PUSH-BUTTON RED	EL-T7190-W343	3	6	0	0	0.5*
43.	ILLUMINATED PUSH-BUTTON YELLOW	EL-T7190-W353	5	6	0	0	1
44.	ILLUMINATED PUSH-BUTTON WHITE	EL-T7190-W313	1	6	0	0	0.2*
45.	ILLUMINATED PUSH-BUTTON GREEN	EL-T7190-W333	1	6	0	0	0.2*
46.	EMERGENCY BUTTON, RED / LATCHING /40 MM	EL-T7190-S844	1	6	0	0	0.2*
47.	INDUCTIVE SENSOR	S-8.72.2	1	6	0	0	0.2*
48.	INDUCTIVE SENSOR	S-8.72.3	3	6	0	0	0.5*
49.	ULTRASONIC SENSOR	UM30-213113	5	6	0	0	1
50.	ULTRASONIC SENSOR	UM30-214113	3	6	0	0	0.5*
51.	ULTRASONIC SENSOR	UM30-214112	2	6	0	0	0.3*

*Minimum Quantity 1

ELECTRICAL & ELECTRONICS							
S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
52.	PRINTED CIRCUIT BOARD POPULATED	S-1.147.1	2	6	0	0	0.3*
53.	RELAY 300A 24V	EL-T7125	1	6	0	0	0.2*
54.	RELAY 24V/16A	REL-MR-24DC/21HCAU	7	6	0	0	1
55.	RELAY/24V/50A	0332002258	4	6	0	0	0.6*
56.	MULTI.FUNC.TIME RELAY	ZR5MF011I	2	6	0	0	0.3*
57.	RELAY	0332209203	1	6	0	0	0.2*
58.	RELAY 300A 24V	EL-T7125-NA	2	6	0	0	0.3*
59.	EMERGENCY-OFF RELAY	PNOZX2	1	6	0	0	0.2*
60.	DIODE	1A600V1N4005	13	6	1	0	1
61.	DIODE	3A1000V1N5408	3	6	0	0	0.5*
62.	INDIC.LIGHT WHITE	EL-T7190-V013	5	6	0	0	1
63.	AUTOMATIC CUTOUT	3600-P10-SI-4A-2350	2	6	0	0	0.3*
64.	AUTOMATIC CUTOUT	3600-P10-SI-8A-2350	13	6	1	0	0.2*
65.	AUTOMATIC CUTOUT	3600-P10-SI-16A-2350	4	6	0	0	0.6*
66.	AUTOMATIC CUTOUT	3600-P10-SI-12A-2350	3	6	0	0	0.5*
67.	AUTOMATIC CUTOUT	3600-P10-SI-5A-2350	1	6	0	0	0.2*

*Minimum Quantity 1

PNEUMATIC							
S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
PNEUMATIC							
1.	CONTROL VALVE	II14475/V	1	6	0	0	0.2*
2.	BRAKE LOAD VALVE	II82570/KV	2	6	0	0	0.3*
3.	SEAL KIT	90359LI/RE/DS	2	6	0	0	0.3*
4.	STOPCOCK L.H.S.	90359LI	2	6	0	0	0.3*
5.	STOP COCK R.H.S.	90359RE	2	6	0	0	0.3*
6.	EMERGENCY BRAKE VALVE NB11	90386	1	6	0	0	0.2*
7.	PNEUMATIC VALVE	90344-A	1	6	0	0	0.2*
8.	SEAL KIT	90344-A/DS	1	6	0	0	0.2*
9.	NOZZLE	90383	2	6	0	0	0.3*
10.	SEAL KIT	90356DS	2	6	0	0	0.3*
11.	DRYER DEVICE	601-041	2	6	0	0	0.3*
12.	PNEUMATIC HOSE	1/4 “	-----	2	20 mtr	20 mtr	20 mtr
13.	PNEUMATIC HOSE	1/2 “	-----	2	20 mtr	20 mtr	20 mtr
14.	PNEUMATIC HOSE	1 “	-----	2	10 mtr	10 mtr	10 mtr

*Minimum Quantity 1

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/LED lamps	2 nos.
5.	Chain with Padlock	2 set
6.	Point Clamp with Padlock	2 nos.
7.	Tail lamp	1 no.
8.	50 t jack traverse type*	1 no.
9.	20 t jack traverse type*	1 no.
10.	Crow bars	4 nos.
11.	Wooden blocks off sizes	4 nos.
12.	Banner flag	2 nos.
13.	Walkie talkie with frequency of SM, Guard and Loco Pilots	1 nos.
14.	First Aid Box	1 no
15.	Skids	4 nos.
16.	Working time table of section where machine is working	1 copy
17.	G&SR book with up to date amendment slips	1 copy
18.	4 cell flasher light/ LED torch,6 watt	1 no.
19.	LED Petromax	1 no.
20.	Safety helmets	Each Machine staff
21.	Protective clothing, safety shoes and safety gloves	Each Machine staff
22.	Track Machine Manual with up to date correction slips	1 no.
23.	Accident Manual with up to date amendment slips	1 no.
24.	Fire extinguisher	1 no.(in each cabin)
25.	Hooter (Manual/ Remote)	2 nos.
26.	Emergency pneumatic/Hydraulic hose off sizes	1 no.
27.	Machine specific equipment (if any)	1 set

Note-* Proposal is sent to Railway board vide letter no. TM/HM/1, VOL-2 dated 22/08/2019 for approval of jack (machine wise).

ACKNOWLEDGEMENT

Following officers and staff have made their valuable contributions in preparation of critical spare parts list for MUCK DISPOSAL UNIT (Non-retractable conveyor) (MDU) (PLASSER) MFS-120 (1201-1208).

RAILWAYS			
1.	SRI	Rajiv Shinde	SSE/TM/KYN/CR
RDSO			
1.	S/SRI	Rakesh Tiwari	ARE/TM
2.	“ “	A.K.Srivastava	SSE/TM
3.	“ “	Ravi Kumar	SSRE/Engg.