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TM/HM/T-Exp/Pt-III

Date: As signed

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Detailed addresses are enclosed herewith.		

विषय: मैसर्स प्लासर इंडिया की हाई आउटपुट टैम्पिंग एंड स्टेबलाइजिंग मशीन (09-3X) डायनामिक (सिंगल इंजन) की क्रिटिकल स्पेयर पार्ट्स सूची।

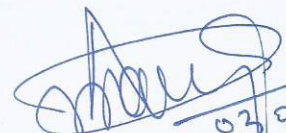
Sub: Critical Spare parts list of High Output Tamping & Stabilizing Machine (09-3X) Dynamic (Single engine) of M/s Plasser India.

मैसर्स प्लासर इंडिया की हाई आउटपुट टैम्पिंग एंड स्टेबलाइजिंग मशीन (09-3X) डायनामिक (सिंगल इंजन) की मसौदा और अनंतिम क्रिटिकल स्पेयर पार्ट सूची ओईएम मैनुअल, आईआरटीएमएम 2019 के आधार पर तैयार की गई थी और पत्र संख्या टीएम/एचएम/टी-एक्सपी/पीटी-III दिनांक 05/01/2024 और दिनांक 22/02/24 द्वारा क्रमशः 30 दिनों और 15 दिनों के लिए प्रसारित की गई थी। इस सम्बन्ध में किसी क्षेत्रीय रेलवे से कोई सुझाव/टिप्पणी प्राप्त नहीं हुई है। अब अंतिम क्रिटिकल स्पेयर पार्ट्स सूची तैयार कर ली गई है और इसकी एक प्रति आपकी जानकारी और मशीन कर्मचारियों के मार्गदर्शन के लिए यहां संलग्न है। उपर्युक्त क्रिटिकल स्पेयर पार्ट सूची तैयार करते समय हर सावधानी बरती गई है, तथापि यदि कोई सुझाव/ टिप्पणियां हो तो उसे ईमेल/पोस्ट/फैक्स द्वारा अधोहस्ताक्षरी के संज्ञान में लाया जा सकता है।

Draft and Provisional Critical Spare parts list of High Output Tamping & Stabilizing Machine (09-3X) Dynamic (Single engine) of M/s Plasser India was prepared on the basis of OEM manual, IRTMM 2019 and circulated vide letter no TM/HM/T-Exp/Pt-III dated 05/01/2024 and 22/02/24 for 30 days and 15 days respectively. No suggestion/comment has received from any Zonal Railway. Now Final Critical Spare parts list has been prepared and a copy of same is enclosed herewith for your information and guidance of the machine staff. Though, every care has been taken during preparation of the above Critical Spare parts list yet observations if any, may be brought to the knowledge of the undersigned by email/post/fax for further improvement.

Email address: hmtmmrdso@gmail.com

DA: As above


03/04/2024
(ए डी मौर्य)

(A D Maurya)

निदेशक रेलपथ मशीन -III
Director Track Machine-III

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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, प्रयागराज-211 015	NCR, Prayagraj-211 015
14.0 पूर्व तट रेलवे, भुवनेश्वर-751 001	East Coast Rly, Bhubaneshwar- 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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मेसर्स प्लासर इंडिया के हाई आउटपुट टैम्पिंग और स्टेबिलाइजिंग मशीन (09-3X) डायनेमिक (सिंगल इंजन) की क्रिटिकल स्पेयर पार्ट्स सूची।

Critical Spare parts list of High Output Tamping & Stabilizing Machine (09-3X) Dynamic (Single engine) of M/s Plasser India.

(Applicable for series 56737-58, 56842-72, 57050-58, 57137-48)



Report No. TM – 297

March 2024

अनुसंधान अभिकल्प एवं मानक संगठन

लखनऊ- 226011

RESEARCH DESIGNS & STANDARDS ORGANISATION

Lucknow-226011

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, list for Critical Spares of High Output Tamping & Stabilizing Machine (09-3X) Dynamic (Single engine) of M/s Plasser India 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 special maintenance. Requirement for such schedule maintenance (IOH/POH) and emergency maintenance/attention may be assessed separately on need basis by zonal railways itself.

March, 2024

(ए डी मौर्य)
(A D Maurya)
निदेशक रेलपथ मशीन –III
Director Track Machine-III

(i)

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

(ii)

2679707/2024/O/o PED/INFRA-1/RDSO
ENGINE

S.No	Brief description	Part no.	Nos per M/C	Estt. Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
1.0 ENGINE MODEL NO- C-18							
1.1.	Self-starter	435-1240	1	3	0.3*	0	0
1.2.	Alternator(C-18)	249-0313	1	3	0.3*	0	0
1.3.	Fuel –Filter (C-18)	1R-0749	1	0.25	2	2	0
1.4.	Fuel Pre- Filter (Diesel tank)	HY.D506.10.30.ES	1	0.25	1	1	2
1.5.	Fuel Filter (water Separator)	326-1643/423-8524	1	0.25	1	1	2
1.6.	Lube Oil (C-18)	CAT DEO 15W-40	70 liters	0.5	70 liters	70 liters	0
1.7.	Engine oil Filter	1R-1808	2	0.5	2	2	0
1.8.	Lub. Oil Pressure gauge	275-2096	1	6	0	0	0.2*
1.9.	Air Cleaner outer (C-18)	251-5886	1	1	1	0	0
1.10.	Air Cleaner inner (C-18)	1W-3636	1	1	1	0	0
1.11.	WABCO air cartridge	4324102442	2	1	2	0	0
1.12.	V-belt (C-18) for radiator fan	7W-8132/6N-7054	3	1	3	0	0
1.13.	V-belt (C-18) for alternator	6N-7135	1	1	1	0	0
1.14.	Flexible hose compressor	PP.BOP.0415	1	3	0.3*	0	0

*MINIMUM QUANTITY 1

HYDRAULICS

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
2.0 HYDRAULICS							
2.1. VALVE							
2.1.1.	Servo valve for lining/ leveling	EL-T76.00-MO	3	6	0	0	0.5*
2.1.2.	Check Valve	HY155.12	2	6	0	0	0.3*
2.1.3.	Check Valve	HY151.33/0,5BAR12	7	6	0	0	1.2
2.1.4.	Plug-In Check Valve	HY6RS/EINSTECK-RSV	3	6	0	0	0.5*
2.1.5.	Check Valve	HY151.217/5BAR	1	6	0	0	0.2*
2.1.6.	Check Valve	90382	2	6	0	0	0.3*
2.1.7.	Check Valve	90381	3	6	0	0	0.5*
2.1.8.	Check Valve	HY151.33/0,5BAR12	7	6	0	0	1.2
2.1.9.	Check Valve	HY151.33/5BAR16	4	6	0	0	0.6*
2.1.10.	Check Valve	HY151.19	1	6	0	0	0.2*
2.1.11.	Check Valve	HY151.33/5BAR24	3	6	0	0	0.5*
2.1.12.	Check Valve	HY151.33/0,5BAR06	1	6	0	0	0.2*
2.1.13.	Check Valve	HY151.13/5BAR	1	6	0	0	0.2*
2.1.14.	Check Valve	HY155.12	4	6	0	0	0.6*
2.1.15.	Check Valve	HY151.33/0,5BAR16	6	6	0	0	1
2.1.16.	Proportional Valve	HY151.187/75BAR	1	6	0	0	0.2*
2.1.17.	Proportional Valve	HYA25-RPE2-325.DSO728	1	6	0	0	0.2*
2.1.18.	Proportional Valve	HYA25-RPE325.D	1	6	0	0	0.2*
2.1.19.	Proportional Valve	HY160.300-05-VM1	1	6	0	0	0.2*
2.1.20.	Prop. Pressure Relief Valve	HY511.46	1	6	0	0	0.2*
2.1.21.	Pressure Relief Valve	HY511.38-160BAR	1	6	0	0	0.2*
2.1.22.	Safety Valve	HY56R	2	6	0	0	0.3*
2.1.23.	Safety Valve	HY511.50/350	2	6	0	0	0.3*
2.1.24.	Radiator Safety Valve	HY151.188/5	1	6	0	0	0.2*
2.1.25.	Cut Off Valve	HY511.11	2	6	0	0	0.3*
2.1.26.	Reducing Valve	HY55R-B	3	6	0	0	0.5*
2.1.27.	Reducing Valve	HY511.31	4	6	0	0	0.6*
2.1.28.	Reducing Valve	HY511.51	1	6	0	0	0.2*
2.1.29.	3-WAY- Pressure Reducing Valve	PRH161S30	1	6	0	0	0.2*
2.1.30.	Pressure Relief Valve	HY511.15	2	6	0	0	0.3*

*MINIMUM QUANTITY 1

2679707/2024/O/o PED/INFRA-1/RDSO

HYDRAULICS

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
2.1.31.	Pressure Relief Valve	HY511.08	2	6	0	0	0.3*
2.1.32.	Pressure Relief Valve	HY511.10	1	6	0	0	0.2*
2.1.33.	Pressure Relief Valve	HY511.06	4	6	0	0	0.6*
2.2. PUMP							
2.2.1.	Dual Pump	EB-HY831X38.22RE	1	6	0	0	0.2*
2.2.2.	Dual Pump	HY843X20.20RE	1	6	0	0	0.2*
2.2.3.	Triple Pump	EB-HY832X24.17.06LI/ HY842X38.38.20LI	1	6	0	0	0.2*
2.2.4.	Triple Pump	EB-HY832X31.17.14LI/ HY842X38.38.17LI	1	6	0	0	0.2*
2.2.5.	Triple Pump	EB-HY842X38.22.12RE/ HY832X17.17.08LI	1	6	0	0	0.2*
2.2.6.	Triple Pump	HY842X38.38.20RE	1	6	0	0	0.2*
2.2.7.	Dual Pump	HY843X35.35LI	1	6	0	0	0.2*
2.2.8.	Dual Pump	HY831X31.08RE	1	6	0	0	0.2*
2.2.9.	Dual Pump	HY831X24.08LI	1	6	0	0	0.2*
2.2.10.	Variable Displacement Pump	HY720X145L/EP4Y/21A	1	6	0	0	0.2*
2.2.11.	Variable Displacement Pump	HY721X147RE8/18A-SAEC	1	6	0	0	0.2*
2.2.12.	Single Pump	HY72SX31LI	1	6	0	0	0.2*
2.2.13.	Single Pump	HY72SX31RE	1	6	0	0	0.2*
2.2.14.	Fuel Pump 24V	0580464210	3	3	1	0	0
2.3. MOTOR							
2.3.1.	Hyd. Motor for Sat. Drive	HY901N200/E / HY953N185-A	2	6	0	0	0.3*
2.3.2.	Hyd. Motor	HY90N42M	2	6	0	0	0.3*
2.3.3.	Hyd. Motor	HY90N52M	1	6	0	0	0.2*
2.3.4.	Hyd. Motor	HY916N800	1	6	0	0	0.2*
2.3.5.	Hyd. Motor	HY935.N10-P	1	6	0	0	0.2*
2.3.6.	Hyd. Motor	HY938X55/MS/FS	1	6	0	0	0.2*
2.4. FILTER ELEMENT							
2.4.1.	Servo Filtering element	DL40.60H	2	0.5	2	1	1

*MINIMUM QUANTITY 1

HYDRAULICS

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
2.4.2.	Filter Cartridge for ZF	HY-D501.225.25HES/0501333764	1/2	0.5	1 / 2	1 / 2	0
2.4.3.	Suction Filter Cartridge	HY-S501.560.150H	6	0.5	6	6	0
2.4.4.	Suction Filter Cartridge	HY-S501.160.P10H	1	0.25	2	1	1
2.4.5.	Suction Filter Cartridge	HY-S501.360.150H	1	0.25	2	1	1
2.4.6.	Proportional filter	HYD.501.32.10H/ES	5	0.25	5	5	10
2.4.7.	Tamping Pressure Filter	HYD501.5.10ES	2	0.25	2	2	4
2.4.8.	Return filter Cartridge	HY-R501.330.10A/ES	2	0.5	2	2	0
2.4.9.	Superfine filter cartridge	HY-R507.05.01HES	4	0.5	4	4	0
2.5 CYLINDER							
2.5.1.	Tamping Unit-Lifting Cylinder	HZDPA.080.040.0835.1.001PA	4	6	0	0	0.6*
2.5.2.	Damper Cylinder	HY600.05A	2	6	0	0	0.3*
2.5.3.	Acceleration Cylinder (Boosting Cylinder)	HZQB.080.050.0800.1.003	1	6	0	0	0.2*
2.5.4.	Lateral Control Cylinder	NZGB.100.050.0400.1	1	6	0	0	0.2*
2.5.5.	Satellite Support Cylinder	HZGB.080.036.0180.2	2	6	0	0	0.3*
2.5.6.	Locking Cylinder	HZGB.040.025.0170.1	2	6	0	0	0.3*
2.5.7.	Track Lifting Cylinder	NZGB.125.050.0450.1.002	2	6	0	0	0.3*
2.5.8.	Clamp Cylinder	HZGB.063.036.0100.1	8	6	0	0	1.3
2.5.9.	Lining Cylinder	NZGB.100.045.0300.1.001	2	6	0	0	0.3*
2.5.10.	Brake Cylinder	HZGB.040.025.0130.1	2	6	0	0	0.3*
2.5.11.	Brake Cylinder	UD160.50-DG	2	6	0	0	0.3*
2.5.12.	Small Squeezing Cylinder 09-3x(female)	HZSI-G.52.425	8	6	0	0	1.3
2.5.13.	Small Squeezing Cylinder 09-3x(male)	HZSI-A.36.426	8	6	0	0	1.3
2.5.14.	Big Squeezing Cylinder	HZSA-G.150.273	8	6	0	0	1.3
2.5.15.	Squeezing Cylinder	2E34.41A	1	6	0	0	0.2*
2.5.16.	Fork Cylinder	UD19.1291	1	6	0	0	0.2*
2.6. SEAL KIT & O' RING							
2.6.1.	Flap cylinder Seal kit	2E34.150BDS	8	6	0	0	1.3
2.6.2.	Seal kit for Tamping Unit-Lifting Cylinder	HZD02.080.040PA	4	6	0	0	0.6*
2.6.3.	Seal kit for Damper Cylinder	HY600.05DS	2	6	0	0	0.3*
2.6.4.	Seal kit for Boosting Cylinder	HZ01.080	1	6	0	0	0.2*
2.6.5.	Seal kit for Boosting Cylinder	HZ02.080.050.001	1	6	0	0	0.2*
2.6.6.	O-RING SEAL for Boosting Cylinder	50X3-N-DIN3771-NBR90	2	6	0	0	0.3*

*MINIMUM QUANTITY 1

HYDRAULICS

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
2.6.7.	Seal kit for Satellite Support Cylinder	HZ01.080	2	6	0	0	0.3*
2.6.8.	Seal kit for Lateral Control Cylinder	NZ01.100	2	6	0	0	0.3*
2.6.9.	Seal kit for Lateral Control Cylinder	HZ22.100.050	2	6	0	0	0.3*
2.6.10.	Seal kit for Satellite Support Cylinder	HZ22.080.036	2	6	0	0	0.3*
2.6.11.	Seal kit for Locking Cylinder	HZ01.040	2	6	0	0	0.3*
2.6.12.	Seal kit for Locking Cylinder	HZ22.040.025	2	6	0	0	0.3*
2.6.13.	Seal kit for Track Lifting Cylinder	NZ01.125	2	6	0	0	0.3*
2.6.14.	Seal kit for Track Lifting Cylinder	HZ22.125.050	2	6	0	0	0.3*
2.6.15.	Seal kit for Clamp Cylinder	HZ01.063	8	6	0	0	1.3
2.6.16.	Seal kit for Clamp Cylinder	HZ22.063.036	8	6	0	0	1.3
2.6.17.	Seal kit for Support Cylinder	NZ01.100	2	6	0	0	0.3*
2.6.18.	Seal kit for Lining Cylinder	HZ22.100.045	2	6	0	0	0.3*

*MINIMUM QUANTITY 1

MECHANICAL

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STMT	ZTMD
3.0 MECHANICAL							
3.1.SHAFT (VIBRATION+ CARDON)							
3.1.1.	Cardan Shaft	KGV180.0950.110.80	1	6	0	0	0.2*
3.1.2.	Cardan Shaft	KGV180.1000.110.80	1	6	0	0	0.2*
3.1.3.	Cardan Shaft	KGV180.1340.110.80	1	6	0	0	0.2*
3.1.4.	Cardan Shaft	KGV180.1650.110.80	1	6	0	0	0.2*
3.1.5.	Cardan Shaft	KGW180.0720.110.00	1	6	0	0	0.2*
3.1.6.	Cardan Shaft	UD72.2719-G-A	1	6	0	0	0.2*
3.1.7.	Cardan Shaft	KGV150.0900.110.00	2	6	0	0	0.3*
3.1.8.	Vibration Shaft	UD 25.1101	4	6	0	0	0.6*
3.1.9.	Vibration Shaft	UD 25.1102	4	6	0	0	0.6*
3.2.BEARING & BUSH							
3.2.1.	Plain Bearing Bush	MB5050DX	1	6	0	0	0.2*
3.2.2.	Bush satellite working mode support	UD80.4230	4	6	0	0	0.6*
3.2.3.	Universal joint	GE 35AX	3	6	0	0	0.5*
3.2.4.	Intermediate Bushing	WN121-30H7.35j6.20-1	8	6	0	0	1.3
3.3 NUT ,BOLT & WASHER							
3.3.1.	Lock Washer	VS12/VERZ	315	6	12	0	40
3.3.2.	Stopping Disc	UD 150-1554/8	8	6	1	0	0.3*
3.3.3.	Stopping Disc	WC50DU	2	6	0	0	0.3*
3.3.4.	Support Ring	U21-720	8	6	1	0	0.3*
3.3.5.	Fitting Disc / Washer	PS40X50X1,DIN 988	20	6	1	0	2.3
3.3.6.	Washer	10 DIN 1440/VERZ	39	6	1	0	6
3.3.7.	Washer	14DIN1440/VERZ	25	6	1	0	3
3.3.8.	Allen Bolt	M 6x 16DIN 912	32	6	1	0	4
3.3.9.	Hexagon Bolt	M16X90DIN931-8.8/VERZ.	32	6	1	0	4
3.3.10.	Hexagon Socket Screw	M12X50DIN6912-8.8/VERZ.	26	6	1	0	3
3.3.11.	Hexagon Bolt	M8X35DIN931-8.8/VERZ.	5	6	1	0	0
3.3.12.	Countersunk Screw	M10X20DIN7991-8.8/VERZ.	12	6	1	0	1
3.3.13.	Hexagon Socket Screw	M8X20DIN6912-8.8	4	6	0.6*	0	0

*MINIMUM QUANTITY 1

MECHANICAL

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STMT	ZTMD
3.3.14.	Hexagon Bolt	M14X30DIN933-8.8/VERZ.	8	6	1	0	0.3*
3.3.15.	Hexagon Bolt	M10X50DIN931-8.8/VERZ.	10	6	1	0	0.6*
3.3.16.	Hexagon Socket Screw	M10X25DIN912-8.8/VERZ.	128	6	6	0	15
3.3.17.	Hexagon Socket Screw	M12X30DIN912-8.8/VERZ.	15	6	1	0	1
3.3.18.	Hexagon Socket Screw	M8X40DIN912-8.8/VERZ.	2	6	0	0	0.3*
3.3.19.	Hexagon Bolt	M12X40DIN933-8.8/VERZ.	8	6	1	0	0.3*
3.3.20.	Hexagon Bolt	M10X30DIN933-8.8/VERZ.	39	6	1	0	5
3.3.21.	Hexagon Bolt	M10X55DIN931-8.8/VERZ.	6	6	1	0	0
3.3.22.	Hexagon Bolt	M5X45DIN931-8.8/VERZ.	26	6	1	0	3
3.4.T/UNIT							
3.4.1.	Tamping Arm Bolt	2E31.04	6	6	1	0	0
3.4.2.	Connecting Rod Bolt	G20.13	32	6	2	0	3
3.4.3.	Connecting Rod Bolt	UD19.221	8	6	1	0	0.3*
3.4.4.	Socket	G20.26B	24	6	2	0	2
3.4.5.	Spacer Bush	UD19.222	8	6	1	0	0.3*
3.4.6.	Spacer Sleeve	2E31.02A	24	6	2	0	2
3.4.7.	Washer	G20.14	48	6	2	2	4
3.4.8.	Bearing Washer	2E34.228-6,95	16	6	1	0	2
3.4.9.	Washer	2E32.05	24	6	2	0	2
3.4.10.	Thrust Washer	EB-2E34.211	48	6	2	0	6
3.4.11.	Seal Ring	DL12.22A/A	48	6	2	0	6
3.4.12.	Bush	EB-2E34.210	48	6	2	0	6

*MINIMUM QUANTITY 1

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MECHANICAL

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STMT	ZTMD
3.5 OTHERS							
3.5.1.	Fish Plate F.Universal Joint	WN141-19H7.40.15-2	4	6	0	0	0.6*
3.5.2.	Fish Plate F.Universal Joint	WN141-35J7.65.20-1	2	6	0	0	0.3*
3.5.3.	Fish Plate F.Universal Joint	WN141-28H7.180.20-1	4	6	0	0	0.6*
3.5.4.	Fish Plate F.Universal Joint	WN141-35J7.180.50.20-1	2	6	0	0	0.3*
3.5.5.	Precision Steel Tube Seamless	ROHR30X2-ST35BK-DIN2391	2	6	0	0	0.3*
3.5.6.	Tapered Lubrication Nipple	R1/4ZDIN71412-H3/90GRAD	1	6	0	0	0.2*
3.5.7.	Threaded Nipple	WN7-R1/4A-R1/4IX44	16	6	1	0	2
3.5.8.	Grease gun adopter brass	-----	1	6	0.2*	0	0
3.5.9.	Roller Complete	UD257.406	4	6	0	0	0.6*

*MINIMUM QUANTITY 1

ELECTRICAL / ELECTRONICS

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STMT	ZTMD
4.0 ELECTRICAL / ELECTRONICS							
4.1.TRANSDUCER & POTENTIOMETER							
4.1.1.	Absolute value transducer	ELT-200-00001-903-1-U-1000	4	6	0	0	0.6*
4.1.2.	Height transducer, LHS	ELT-904-00001-2	1	6	0	0	0.2*
4.1.3.	Height transducer, RHS	ELT-904-00001-3	1	6	0	0	0.2*
4.1.4.	Versine transducer	ELT-200-00001-902-5-U	1	6	0	0	0.2*
4.1.5.	Roller chord transducer	ELT-200-00001-903-1-U-2000	1	6	0	0	0.2*
4.2.OTHERS							
4.2.1.	Tachometer	EL-T1263.00/120/B	1	6	0	0	0.2*
4.2.2.	Proximity Switch	EL-T1422/K/U-ST	3	6	0	0	0.5*
4.2.3.	Proximity Switch	EL-T1151A-NPN-ST	4	6	0	0	0.6*
4.2.4.	Proximity Switch	EL-T1151A-PNP-ST	1	6	0.2*	0	0
4.2.5.	Leveling chord	2MMDX 80 MLG-BOWDEN 2UG	100m	2	25m	25m	0
4.2.6.	Carrier complete	ELT 67.00C	3	1	1	0	2
4.2.7.	Lining transducer pulley	EL-T152.04	2	6	0	0	0.3*
4.2.8.	Lining transducer wire	EL-T576.10B	20m	2	10m	0	0
4.2.9.	T. U. Chord wire	EL-T576.1.35	50m	2	15m	10m	0

*MINIMUM QUANTITY 1

PNEUMATICS

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc			
					SITE	STMT	ZTMD	
5.0 PNEUMATICS								
5.1 CYLINDERS & SEAL KIT								
5.1.1.	Tamping Unit Locking Cylinder	PN2Z-G.35/12/100	4	6	0	0	0.6*	
5.1.2.	Hoist Limiting Cylinder	2E34.150B	8	6	0	0	1.3	
5.1.3.	Axle gearbox Pneumatic Cylinder	PN2Z-KF.50/18/70	1	6	0	0	0.2*	
5.1.4.	Disengaging Pneumatic Cylinder	PN2Z-KF.50/18/28	1	6	0	0	0.2*	
5.1.5.	Power Divider Coupling Cylinder	PN1Z-ML.50/12/63	1	6	0	0	0.2*	
5.1.6.	Satellite Roll guide Pneumatic Cylinder	PN2Z-G.35/12/50	2	6	0	0	0.3*	
5.1.7.	Lifting unit Pneumatic Cylinder	PN2Z-G.35/12/60	1	6	0	0	0.2*	
5.1.8.	Ballast scrapper Pneumatic Cylinder	PN1Z-G.35/12/150	2	6	0	0	0.3*	
5.1.9.	Recorder Cord assembly Cylinder	PN2Z-G.50/16/200	1	6	0	0	0.2*	
5.1.10.	Front/Rear Tensioning Trolley Cylinder	PN2Z-G.70/20/350	4	6	0	0	0.6*	
5.1.11.	Measuring Trolley Cylinder	PN2Z-G.70/20/250	2	6	0	0	0.3*	
5.1.12.	Trolley lifting Cylinder	PN2Z-G.100/25/300	12	6	0	0	2.0	
5.1.13.	Front and rear Tensioning Trolley Cylinder	PN2Z-G.70/20/350	4	6	0	0	0.6*	
5.1.14.	Locking Cylinder	PN1Z-G.35/12/50	3	6	0	0	0.5*	
5.1.15.	Trolley Cylinder	PN2Z-G.70/20/300	6	6	0	0	1.0	
5.1.16.	Rear feeler rod Cylinder	PN2Z-G.50/16/150	2	6	0	0	0.3*	
5.1.17.	Middle Feeler Rod Cylinder	PN2Z-G.70/20/250	2	6	0	0	0.3*	

*MINIMUM QUANTITY 1

PNEUMATICS

S.No	Brief description	Part no.	Nos per M/C	Estt. life cycle in year	Requirement per mc		
					SITE	STMT	ZTMD
5.2 VALVES							
5.2.1.	Safety valve	II91917/02105	1	6	0	0	0.2*
5.2.2.	Safety valve	II91917/02090	1	6	0	0	0.2*
5.2.3.	Valve	90344-A	30	6	2	0	3
5.2.4.	Pressure regulator	90190-A	12	6	1	0	1
5.2.5.	Valve	90420-A	6	6	0	0	1
5.2.6.	Valve ZB11	90370	2	6	0	0	0.3*
5.2.7.	Driver Brake Valve FB11	90366	2	6	0	0	0.3*

*MINIMUM QUANTITY 1

ACKNOWLEDGEMENT

Following officers and staff have made their valuable contributions in Preparation of Critical spares Part List of High Output Tamping & Stabilizing Machine (09-3X) Dynamic (single engine).

RDSO

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|----|--------------------|---------|
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