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No. :- TM/RGM/SRGM

Date :09.2024

संख्या :- टीएम/आरजीएम/एसआरजीएम

दिनांक :09.2024

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|------|---|---|
| I- | मुख्य अभियंता (ट्रैक मशीन) सभी क्षेत्रीय रेलवे | Chief Engineer (Track Machines) All Zonal Railways |
| II- | मुख्य अभियंता (सी.पी.ओ.एच. कार्यशाला) अहमदाबाद | Chief Engineer (CPOH Workshop), Ahmedabad |
| III- | मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन)
सी.पी.ओ.एच. कार्यशाला प्रयागराज, रायनापाड़ा, कंचरापारा | Chief Workshop Manager (Track Machines)
CPOH Workshop, Prayagraj, Rayanapadu, Kachrapara |
| IV- | प्रधानाचार्य भारे.रे.प.म.प्र.के. पीपलगांव प्रयागराज - 211011 | Principal IRTMTC, PipalGaon, Prayagraj -211011 |

Detailed addresses are enclosed herewith.

विषय : स्विच रेल ग्राइंडिंग मशीन - 20 स्टोन (लोरम) की क्रिटिकल स्पेयर पार्ट्स की सूची।

Sub : Critical Spares Parts list of Switch Rail Grinding Machine- 20 Stone (Loram).

स्विच रेल ग्राइंडिंग मशीन - 20 स्टोन (लोरम) की क्रिटिकल स्पेयर पार्ट्स सूची की मसौदा एवं अंतिम क्रमशः पत्र सं टीएम/आरजीएम/एसआरजीएम दिनांक 12.02.2024 द्वारा 30 दिनों के लिये और टीएम/आरजीएम/एसआरजीएम दिनांक 28.03.2024 द्वारा 15 दिनों के लिये सभी क्षेत्रीय रेलवे, सी.पी.ओ.एच. कार्यशालाओं एवं भारे.रे.प.म.प्र.के. प्रयागराज को टिप्पणी हेतु जारी किया गया था, जिसके उपरान्त प्राप्त टिप्पणी के आधार पर अब स्विच रेल ग्राइंडिंग मशीन-20 स्टोन (लोरम) की क्रिटिकल स्पेयर पार्ट्स की सूची अंतिम रूप में तैयार की गई है, जिसकी प्रति आपके सूचनार्थ तथा मशीन के कर्मचारियों, जो फील्ड में कार्य कर रहे हैं के मार्ग दर्शन 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 ईमेल/फैक्स/पत्राचार द्वारा अधोहस्ताक्षरी को अवगत करावें।

Draft and Provisional Critical Spares Parts list of Switch Rail Grinding Machine- 20 Stone (Loram) was circulated to all zonal railways, CPOHs and IRTMTC/PRYJ vide letter no. TM/RGM/SRGM dated 12.02.2024 for 30 days and vide letter no. TM/RGM/SRGM dated 28.03.2024 for 15 days respectively, for seeking comments/suggestions. After which on the basis of comments received from railway. Now, Critical Spares Parts list of Switch Rail Grinding Machine- 20 Stone (Loram) has been finalized. 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, discrepancy noticed, if any, may be brought to the knowledge of the undersigned for further improvement, by email/fax/post.

Email address: hmtmrdso@gmail.com

DA: As above

JAINENDRA
KUMAR SINGH

Digitally signed by
JAINENDRA KUMAR SINGH
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जैनेन्द्र कुमार सिंह
(Jainendra Kumar Singh)
निदेशक/ ट्रैक मशीन
(Director/Track Machine)

I-	मुख्य अभियन्ता (ट्रैक मशीन)	Chief Engineer (Track Machines)
1.0	मध्य रेलवे, सीएसटी, मुम्बई- 400 001	Central Railway, CST, Mumbai - 400 001.
2.0	पूर्व रेलवे, फैयरली प्लेस, कोलकाता 700001	Eastern Railway, Fairlie Place, Kolkata-700 001.
3.0	उत्तर रेलवे, बड़ौदा हाउस, नयी दिल्ली - 110 001	Northern Railway, Baroda House, New Delhi -110 001.
4.0	उत्तर पूर्व रेलवे, गोरखपुर-273012	North Eastern Railway, Gorakhpur-273 012.
5.0	उत्तर पूर्व सीमान्त रेलवे, मालीगांव, गुवाहाटी - 781011	Northeast Frontier Railway, Maligaon, Guwahati -781 011.
6.0	दक्षिण रेलवे, पार्क टाउन, चेन्नई-600003	Southern Railway, Park Town, Chennai - 600 003.
7.0	दक्षिण मध्य रेलवे, रेल निलयम, सिकन्दराबाद - 500 371	South Central Railway, Rail Nilayam, Secunderabad -500 371.
8.0	दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता -700 043	South Eastern Railway, Garden Reach, Kolkata - 700043
9.0	पश्चिम रेलवे, चर्चगेट, मुम्बई 400 020	Western Railway, Churchgate, Mumbai - 400 020
10.0	उत्तर पश्चिम रेलवे, जयपुर-302001	North Western Railway, Jaipur-302 001.
11.0	पूर्व मध्य रेलवे, हाजीपुर-844 101	East Central Railway, Hazipur-844 101
12.0	दक्षिण पश्चिम रेलवे, हुबली - 580023	South Western Railway, Hubli-580 023
13.0	उत्तर मध्य रेलवे, प्रयागराज 211001	North Central Railway, Prayagraj -211 001
14.0	पूर्व तटीय रेलवे, भुवनेश्वर 751 001	East Coast Railway, Bhubaneshwar-751 001
15.0	पश्चिम मध्य रेलवे, जबलपुर - 482001	West Central Railway, Jabalpur-482 001
16.0	दक्षिण पूर्व मध्य रेलवे, बिलासपुर-495004	South East Central Railway, Bilaspur-495 004
II-	मुख्य कार्यशाला प्रबन्धक (ट्रैक मशीन)	Chief Workshop Manager (Track Machines)
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2.0	सी.पी.ओ.एच. कार्यशाला, दक्षिण मध्य रेलवे, रायनापाडु विजयवाडा, जिला कृष्णा, आन्ध्रप्रदेश-521241	CPOH Workshop, South Central Railway, Rayanapadu, Vijaywada, Dist.-Krishna, Andhra Pradesh-521241
3.0	सी.पी.ओ.एच. कार्यशाला, पूर्व रेलवे, भूतबागान रेलवे कॉलोनी, कंचरापारा, पी.एस- बिजपुर पो०- कंचरापारा, 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. कार्यशाला, पश्चिम रेलवे, मंडल रेल प्रबंधक कार्यालय, चामुंडा माता मंदिर के पास, मरोड़ा रोड, पो०- 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 भा. रे.रे. प. म.प्र.के. पीपलगांव प्रयागराज - 211011	Principal, IRTMTC, PipalGaon, Prayagraj - 211011



भारत सरकार रेल मंत्रालय

GOVERNMENT OF INDIA MINISTRY OF RAILWAYS

Critical Spares Parts List Of Switch Rail Grinding Machine- 20 Stone (Loram)



SEPT- 2024

सितम्बर -2024

इंफ्रास्ट्रक्चर निदेशालय (रेलपथ मशीन एवं मॉनिटरिंग)

अनुसंधान अभिकल्प और मानक संगठन, लखनऊ-226011

DIRECTORATE OF INFRASTRUCTURE (TRACK MACHINE & MONITORING)
RESEARCH DESIGNS & STANDARDS ORGANISATION, LUCKNOW-226011

PREFACE

For maintenance of any Track Machine, timely availability of spare parts/units 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.

Critical spares parts list for Switch Rail Grinding Machine-20 Stone (Loram) are prepared. It may be noted that this is the list of spares required for the normal maintenance of Switch Rail Grinding Machine - 20 Stone (Loram) for one year only and does not include the spares required for IOH, POH and other special maintenance work. Railways are advised to check the part list of own machine before any execution of work as parts list may vary from machine to machine. Maintenance requirement for such scheduled maintenance (IOH/POH) and emergency maintenance/attention may be assessed separately on need basis by zonal railways itself.

(Jainendra Kumar Singh)
Director/Track Machine-VI
RDSO/Lucknow-226011

SEPT. – 2024

INDEX

Sl. No.	CATEGORY	PAGE No.
1.	ENGINE AND GENERATOR ITEMS	4-5
2.	HYDRAULICS ITEMS	6-8
3.	MECHANICAL	9-10
4.	ELECTRICAL & ELECTRONICS ITEMS	11-15
5.	PNEUMATIC	16-17
6.	LIST OF SAFETY EQUIPMENT'S (Annexure – I)	18
7.	GENERAL SAFETY NOTES (Annexure – II)	19
8.	ACKNOWLEDGEMENT	20

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
1.	ENGINE AND GENERATOR ITEMS					
1.1.	AIR CLEANER ASSEMBLY	251110	2	6	0	0.33*
1.2.	AIR FILTER; PRIMARY	249743	2	0.2	2	8
1.3.	AIR FILTER; SECONDARY	249744	2	0.2	2	8
1.4.	AIR FILTER	252351-33	1	0.2	1	4
1.5.	ALARM HORN	251132	1	6	0	0.16*
1.6.	ALTERNATOR 24 VOLT; 100 AMP DELCO	144751	1	6	0	0.16*
1.7.	BALL BEARING;DOUBLE SHIELD	230622	1	0.2	1	4
1.8.	BATTERY TERMINAL; POSITIVE POST, 3/8 STUD	A65457	4	1	0	4
1.9.	BELT ALTERNATOR	111533	1	6	0	0.16*
1.10.	BELT V RIBBED;DRIVE BELT	251172	1	6	0	0.16*
1.11.	CAP RAIN COVER	249332	2	6	0	0.32*
1.12.	COOLANT HEATER	251170	2	6	0	0.32*
1.13.	DECAL BEARING GREASE	231311	1	5	0	0.2*
1.14.	ELBOW 90 DEG WITH BELLOWS; MACHINE LEFT	249378	1	6	0	0.16*
1.15.	ELBOW 90 DEG WITH BELLOWS; MACHINE RIGHT	249380	1	6	0	0.16*
1.16.	ELBOW 90 DEG; MACHINE LEFT	249344	1	6	0	0.16*
1.17.	ELBOW 90 DEG; MACHINE RIGHT	249345	1	6	0	0.16*
1.18.	FILTER 2IN 20X25; STEEL MEDIA (Donaldson)	166938	4	0.2	4	16
1.19.	FILTER 4IN 16X20; PLEATED PAPER (Loram)	207052	2	0.2	0	0.2*
1.20.	FILTER 4IN 16X20; STEEL MEDIA (Donaldson)	207051	2	0.2	2	8
1.21.	FILTER AIR;SECONDARY TOP/REAR	251160	4	0.5	4	4
1.22.	FILTER FUEL 10 MICRON	180056	1	0.2	1	4
1.23.	FUEL FILTER	200187	1	0.1	1	9
1.24.	FILTER LUBE OIL; FULL FLOW W/BY-PASS ELEM	126991	4	0.1	4	36
1.25.	FUEL LIFT PUMP	169923	1	6	0	0.16*
1.26.	GAUGE PRESSURE 1.9 IN H2O	251118	1	6	0	0.16*
1.27.	GAUGE, DIFFERENTIAL PRESSURE	244174	2	6	0	0.32*
1.28.	GREASE FITTING 1/8NPT; 65 DEGREE ANGLE	152961	1	6	0	0.16*
1.29.	HARNESS ENGINE INTERFACE	251131	1	6	0	0.16*
1.30.	HARNESS POWER SUPPLY	251130	1	6	0	0.16*
1.31.	INSULATION ELBOW; LEFT BANK EXHAUST	249636	1	6	0	0.16*
1.32.	INSULATION ELBOW; RIGHT BANK EXHAUST	249637	1	6	0	0.16*
1.33.	INSULATION SILENCER LH	249640	1	6	0	0.16*
1.34.	INSULATION SILENCER RH	249641	1	6	0	0.16*
1.35.	LATCH DRAW; T-HANDLE	120482	2	10	0	0.2*
1.36.	MODULE; ELECTRONIC CONTROL	231712	1	6	0	0.16*
1.37.	OIL HEATER; 2 HEATERS + CORDS	251168	1	6	0	0.16*
1.38.	O-RING SEAL WATER PUMP TO ENGINE; INC W/111540 NOT INC W/173313	251163	1	6	0	0.16*
1.39.	PRECLEANER; AIR CLEANER	251111	2	6	0	0.32*
1.40.	PUMP HAND	226896	1	6	0	0.16*
1.41.	RADIATOR	247200	1	6	0	0.16*
1.42.	RAIN CAP	249613	2	6	0	0.32*
1.43.	RECTIFIER ASSY	215331	1	10	0	0.16*
1.44.	RELAY STARTER	A35629	1	6	0	0.16*
1.45.	ROTOR EXCITER;WITH RECTIFIER ASSY	236442	1	10	0	0.16*
1.46.	SEAL THERMOSTAT	111524	3	6	0	0.5*
1.47.	SENSOR POSITION CRANKSHAFT	242980	1	6	0	0.16*
1.48.	SENSOR PRESSURE TEMPERATURE IMT	242979	1	6	0	0.16*
1.49.	SENSOR, LCL	242998	1	6	0	0.16*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
1.50.	SENSOR, OIL PRESSURE	242981	1	6	0	0.16*
1.51.	SENSOR, POSITION CAM SHAFT	242982	1	6	0	0.16*
1.52.	SENSOR; COOLANT TEMPERATURE	161872	2	6	0	0.32*
1.53.	SILENCER LH	248932	1	6	0	0.16*
1.54.	SILENCER RH	248931	1	6	0	0.16*
1.55.	STARTER	251171	1	6	0	0.16*
1.56.	STATOR EXCITER	125690	1	10	0	0.10*
1.57.	THERMOSTAT	111523	3	6	0	0.5*
1.58.	TUBE CAC OUT TO ENGINE; LEFT BANK	251140	1	6	0	0.16*
1.59.	TUBE CAC OUT TO ENGINE; RIGHT BANK	251138	1	6	0	0.16*
1.60.	TUBE TURBO OUT TO CAC; LEFT BANK	251137	1	6	0	0.16*
1.61.	TUBE TURBO OUT TO CAC; RIGHT BANK	251136	1	6	0	0.16*
1.62.	VALVE RELIEF; FUEL/WATER SEPARATOR	216189	1	6	0	0.16*
1.63.	WATER FILTER QST 30	244141	1	0.2	1	4
1.64.	FUEL WATER SEP FILTER	126993	1	0.2	1	4
1.65.	WATER PUMP KIT; FOR QST30-G5 NR2	173313	1	6	0	0.16*
1.66.	WATER PUMP REPAIR KIT	111540	1	6	0	0.16*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
2.	HYDRAULIC ITEMS					
2.1.	MOTOR ELECT 30 HP; 1800 RPM/286TC W/FEET	B65877	1	6	0	0.16*
2.2.	PUMP-VANE VARIABLE VOL (LOW PRESSURE)	B68693	1	6	0	0.16*
2.3.	HIGH PRESSURE PUMP	106504	1	6	0	0.16*
2.4.	MOTOR 0.75HP	A79548	4	3	0	1
2.5.	MOTOR PUMP ASSY 30HP; 74CC PUMP 71CC PUMP	160241	2	6	0	0.32*
2.6.	VALVE CHK 5000PSI 160GPM; HYD 3PSI CRACK 32 SLIPIN	101011	4	6	0	0.67*
2.7.	VALVE CHECK 200PSI CV6; AIR 16FNPT 5PSI CRCK BUNA	162301	1	6	0	0.16*
2.8.	VALVE DRCT 3500PSI 18GPM; HYD 2P4W D05 2XSOL DET	145215	1	6	0	0.16*
2.9.	VALVE DRCT 4600PSI 15GPM; HYD 2P4W D05 SOL 24VDC	147988	1	6	0	0.16*
2.10.	VALVE FLOW 3000PSI 26GPM; HYD THROTTLE CHECK D05	210895	1	6	0	0.16*
2.11.	VALVE FLOW 3000PSI 26GPM; HYD THROTTLE CHECK D05	148196	1	6	0	0.16*
2.12.	VALVE DRCT 5000 PSI 20GPM; HYD 2P4W SOL 24VDC	144091	2	6	0	0.33*
2.13.	VALVE FLOW 3000PSI 20GPM; HYD D03 2XMI/MO 2XREV CHK	A23737	2	6	0	0.33*
2.14.	VALVE PROP D03 4W; 7.9 GPM OBE 24V 10V CNTRL	238766	10	6	0	1.33*
2.15.	VALVE CHK 5000P 15GPM; HYD D03 PILOT A B FROM P	165583	5	6	0	0.83*
2.16.	VALVE, PRESS CONTROL; SERVOVALVE 18AWG M PACK	104256	1	6	0	0.16*
2.17.	VALVE CHK 3000P 15GPM; HYD D03 PILOT A FROM B	237834	1	6	0	0.16*
2.18.	VALVE DRCT 5000PSI 5GPM; HYD 2P4W D03 SOL 24VDC	147996	2	6	0	0.33*
2.19.	VALVE DIFF CONTROL; 18AWG M PACKARD	B37308	1	6	0	0.16*
2.20.	VALVE PRESS SECOND STAGE; FITS UNDER DPCV	104698	1	6	0	0.16*
2.21.	VALVE FLOW 3000PSI 26 GPM; HYD THROTTLE CHECK D05	149456	1	6	0	0.16*
2.22.	VALVE DRCT 5000PSI 5GPM; HYD 3P4W D03 SOL2 24VDC	147994	2	6	0	0.33*
2.23.	VALVE ASSY 5500PSI 57GPM; HYD RV 2062 2062C	140494	4	6	0	0.67*
2.24.	SOLENOID VALVE	40529-011	1	6	0	0.16*
2.25.	ACCUMULATOR SUPPORT RING; HYDAC 330 BASE RING	114478	1	6	0	0.16*
2.26.	CLAMP ACCUMULATOR HD; 9.1 IN DIA BLADDER STYLE	114901	4	6	0	0.67*
2.27.	ACCUMULATOR BLDDR 10 GAL; 32-61 FLANGE CE STAMP	100555	1	6	0	0.16*
2.28.	BREATHER TANK KLEENVENT; 10 GALLON NOMINAL SIZE	125684	1	6	0	0.16*
2.29.	CHUTE LINING; .50X4.00X42.25	141294	2	6	0	0.33*
2.30.	TRANSDUCER PRESS 3000PSI; 06MORB 7-35VDC 4-20mA	157290	1	6	0	0.16*
2.31.	VALVE BALL 3000PSI MODIF; HYD 3261 3261C DET HANDLE	101682	1	6	0	0.16*
2.32.	GAUGE PRESS 0-3000PSI BAR; 04MORB 2.5D BOTT SIL	124337	2	6	0	0.33*
2.33.	VALVE BALL 1.00 NPT; BRONZE 600#WOG W/LOCK	A32718	1	6	0	0.16*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
2.34.	NIPPLE 1.00X2.50 SCH80	H22462	1	6	0	0.16*
2.35.	SHIELD GAS PORT; ACCUMULATOR	127939	1	6	0	0.16*
2.36.	MANIFOLD PSI RELIEF ASSY	127269	1	6	0	0.16*
2.37.	MANIFOLD MACH 3000P 20G; 3261 2461 06FORB	143879	1	6	0	0.16*
2.38.	FILTER HYD 100PSI 100GPM; 2461C TANK BPS VIS GA	124239	2	6	0	0.33*
2.39.	STRAINER ADAPTER	124775	3	6	0	0.5*
2.40.	GAUGE PRESS 30HG-15PSI-BR; 04MNPT 2.5D BOTT SIL	125545	1	6	0	0.16*
2.41.	BREATHER PRESS/VAC; 5 PSI/0.3PSI/.75 MNPT	106021	2	6	0	0.33*
2.42.	VALVE DRCT 150 PSI CV7; AIR 04MNPT MAN DRAW COCK	A22010	1	6	0	0.16*
2.43.	VALVE BTFL 85PSI 3 INCH; HYD 6.30BC 4861C SWITCH	127470	3	6	0	0.5*
2.44.	SWITCH PRESS DIRT ALARM; FOR SCHROEDER RET FLTR	136265	1	6	0	0.16*
2.45.	GAUGE PRESS 0-3000PSI BAR; 04MORB 2.5D BOTT SIL	124337	4	6	0	0.67*
2.46.	FILTER HYD 3000PSI 100GPM; 2461c	142988	3	6	0	0.5*
2.47.	THERMOWELL 12MOR 316SS; .5 NPT 10.5 RELAXED	126571	1	6	0	0.16*
2.48.	RTD SPRING LOADED	118574	1	6	0	0.16*
2.49.	SWITCH PSI 360 TO 1700; 04MORB	131682	4	6	0	0.67*
2.50.	VALVE ASSY DIRECTION CTRL; SIZE 10 5000PSI 20GPM	118547	1	6	0	0.16*
2.51.	HOUSING CHECK VALVE 2461C; SLIPIN SIZE 32 VALVE	101010	4	6	0	0.67*
2.52.	SENSOR FLUID LEVEL; 4-20MA 21 LONG 3/4 MNPT	143887	1	6	0	0.16*
2.53.	QC NOSE 4500PSI 28GPM; SM-752 12FORB	146398	1	6	0	0.16*
2.54.	IMMERSION HEATER 3.0 KW; FOR DIESEL FUEL	100675	1	6	0	0.16*
2.55.	SPRING FILTER	H26772	1	6	0	0.16*
2.56.	CHECK VALVE	H22042	1	6	0	0.16*
2.57.	ALARM - DIRT	A17984	1	6	0	0.16*
2.58.	GASKET	H26774	1	6	0	0.16*
2.59.	FILTER ELEMENT KZ5; 5 MICRON 3.88D 9.06L	B86483	2	0.5	2	2
2.60.	ELEMENT FILTER KW; WATER REMOVAL	A93360	1	0.5	1	1
2.61.	FILTER ELEMENT KZ5; 5 MICRON 3.88D 9.06L	B86483	1	0.5	1	1
2.62.	HST PUMP FILTER	256591/ 252351-81	2	0.5	2	2
2.63.	ELEMENT FILTER; 5 MICRON	252351-94	1	0.5	1	1
2.64.	PRESSURIZATION AIR FILTER	252351-84	2	0.5	2	2
2.65.	FILTER DURGE, DANFOSS	256591	2	0.5	2	2
2.66.	ELEMENT FILTER (5 MICRON)	152077	2	0.5	2	2
2.67.	SEAL KIT	A65049	1	6	0	0.16*
2.68.	O RING (MODULE)	494222	120	1	20	100
2.69.	O RING LOCKING CYLINDER	H20939	16	1	4	12
2.70.	O RING	H22132	1	4	1	3
2.71.	O RING	H22153	1	4	1	3
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
2.72.	SWITCH DIRT ALARM; DIN 43650 CONN	150561	1	6	0	0.16*
2.73.	CARTR RELIEF 100-3000; SUN T3A CAVITY 50 GPM	100550	1	6	0	0.16*
2.74.	CYL HYD 2.00B X 1.25R; 10.50S MTS FEEDBACK	209289	10	10	0	1
2.75.	CYLINDER HYD 1.50BX1.00R; 2.62S EYE X CLEVIS	210333	4	10	0	0.4*
2.76.	CYLINDER HYD 2.50BX1.50R; 4.00S .75 CLVS X .75 CLVS	209934	4	10	0	0.4*
2.77.	CYL HYD 2.00B X 1.25R; 10.00S MTS FEEDBACK	206799	1	10	0	0.10*
2.78.	CYLINDER HYD 2.00BX1.25R; 2.25S CLVS	209554	4	10	0	0.4*
2.79.	MOTOR HYD HST VAR 250CC; 15T PROP CNTRL	247647	1	6	0	0.16*
	HYDRAULIC PIPE ITEMS					
2.80.	H/A 06 08FORFS STR 5300P; 08FORFS STR	114722-0031.00	4	6	0	0.67*
2.81.	H/A 06 08FORFS STR 5300P; 08FORFS STR	114722-0028.00	4	6	0	0.67*
2.82.	H/A 06 08FORFS STR 5300P; 08FORFS STR	114722-0011.13	4	6	0	0.67*
2.83.	H/A 06 08FORFS STR 5300P; 08FORFS STR	114722-0012.0	2	6	0	0.33*
2.84.	H/A 06 08FORFS STR 5000P; 08FORFS STR HT FS	129635-0023.00	5	6	0	0.83*
2.85.	H/A 06 08FORFS STR 5000P; 08FORFS EL45 HT FS	165393-0011.50	1	6	0	0.16*
2.86.	H/A CRMP EST-4/4FJ/4FJ; AQ 5500 MOP	100663-0072.0	4	6	0	0.67*
2.87.	H/A CRMPD EST -4 5500 AQ; -4/4FJ/4FJ 5500 MOP	100663-0048.0	2	6	0	0.33*
2.88.	H/A 06 08FORFS STR 5000P; 08FORFS STR HT FS	129635-0192.0	4	6	0	0.67*
2.89.	H/A 06 08FORFS STR 5300P; 08FORFS STR	114722-0036.0	66	6	1	10
2.90.	H/A 06 08FORFS STR 5300P; 08FORFS STR	114722-0024.0	10	6	0	1.67*
2.91.	H/A 06 08FORFS STR 5300P; 08FORFS EL90	114724-0048.0	4	6	0	0.67*
2.92.	H/A 06 08FORFS STR 5300P; 08FORFS EL90	114724-0024.0	4	6	0	0.67*
2.93.	H/A 06 08FORFS STR 5300P; 08FORFS EL90	114724-0018.0	2	6	0	0.33*
2.94.	H/A 04 04FORFS STR 6500P; 04FORFS EL90	130805-0112.0	2	6	0	0.33*
2.95.	H/A 04 04FORFS STR 6500P; 04FORFS STR	114717-0060.0	2	6	0	0.33*
2.96.	HOSE 50 FT; HEATER .63 ID	204405	3	6	0	0.5*
2.97.	H/A 06 08FORFS STR 5300P; 08FORFS STR	114722-0072.0	4	6	0	0.67*
2.98.	H/A 06 08FORFS STR 5300P; 08FORFS STR	114722-0048.0	2	6	0	0.33*
2.99.	H/A 06 08FORFS STR 5300P; 08FORFS STR	114722-0060.0	2	6	0	0.33*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
3.	MECHANICAL ITEMS					
3.1.	HAND BRAKE VERT WHEEL HP; AAR 1993 GRP P W/SHEAVE	140180	1	10	0	0.10*
3.2.	HANDBRAKE MTG WELDT; HIGH POWER HAND BRAKE	168893	1	10	0	0.10*
3.3.	CHAIN	H24930	14	6	0	2.33*
3.4.	BREATHER	A24453	1	6	0	0.16*
3.5.	DECAL FUEL LEVEL; 1320 GAL	248382	1	6	0	0.16*
3.6.	GAUGE LEVEL SIGHT GLASS; 24MORB REFLECTOR	157856	4	6	0	0.67*
3.7.	SENSOR TANK LEVEL; 1320 GAL	248466	1	6	0	0.16*
3.8.	TRANSFORMER MEASURING; FUEL LEVEL	158352	1	3	0	0.33*
3.9.	GASKET; FUEL TANK, .38 THICK	104511	1	6	0	0.16*
3.10.	SIREN TRI-TONE 24VDC RED	D83253	1	6	0	0.16*
3.11.	SPARK BLANKET INSTALL; UPPER BLANKETS	242582	2	0.25	2	6
3.12.	SPARK BLANKET ASSY; STD GAUGE FULL FLEX	237272	2	0.25	2	6
3.13.	STONE HOLDER ASSY; 10" STRAIGHT SHAFT	244169	10	2	1	4
3.14.	CARRIAGE SUPPORT ASSY RH	242928	2	3	0	0.67*
3.15.	CARRIAGE SUPPORT ASSY LH	242929	2	3	0	0.67*
3.16.	TUBE HORIZ SLIDE; 2.25OD 1.75ID 29.00LG	244136	20	3	1	6
3.17.	SUPPORT ECCENTRIC; MODULE HSLIDE MOUNT 2.25DIA	206927	40	2	2	118
3.18.	TA BENT .50X.065 SS ORFS; BUGGY LOCK TO MAN A	166512	2	2	0	1
3.19.	TA .50X.065 SS ORFS ORFS; BUGGY LOCK TO MAN B	166513	2	2	0	1
3.20.	TA .50X.065 SS ORFS ORFS; BUGGY LIFT TO MAN T8	166514	2	2	0	1
3.21.	TA .50X.065 SS ORFS ORFS; BUGGY LIFT TO MAN B	166515	2	2	0	1
3.22.	BRACKET-EYE (C2101)	A12636	2	6	0	0.33*
3.23.	CARRIAGE SUPPORT WELDT; RH	244116	1	3	0	0.33*
3.24.	BEARING HOUSING	113804	1	3	0	0.33*
3.25.	MODULE FRAME ASSY	242898	1	2	0	0.5*
3.26.	TILT STOP ASSY; RGM BUGGY FIELD/GAUGE	242926	1	2	0	0.5*
3.27.	TERMINAL FEMALE MOTOR; PIGTAIL CONNECTOR	A87500	4	2	0	0.5*
3.28.	BOOT RUBBER MOTOR LEADS; FOR PIGTAIL CONNECTOR	A87501	4	2	0	0.5*
3.29.	MODULE TILT ASSY	242906	1	2	0	0.5*
3.30.	MODULE FRAME WELDT	242905	1	2	0	0.5*
3.31.	BRACKET ASSY; SLIDE TUBE TOW BALL	244952	2	2	0	1
3.32.	STONE HOLDER ASSY 10 INCH; FOR STRAIGHT SHAFT MOTOR	178224	1	2	0	0.5*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
3.33.	STONE STOP 10 INCH STONE; FOR STRAIGHT SHAFT MOTOR	178223	1	2	0	0.5*
3.34.	MANIFOLD MACH 2000 P; HYD 08FORB 04FORB	209941	3	2	1	1
3.35.	SPARK BLANKET LONG; DUST CONTAINMENT	207696	2	0.25	2	6
3.36.	SPARK BLANKET SHORT; DUST CONTAINMENT	207719	4	0.25	4	12
3.37.	FILTER DUST FLAME RETARDANT	159712	50	1	20	30
3.38.	PLUG DESICCANT	154531	8	2	4	4
3.39.	SPARK BLANKET CENTER; DUST CONTAINMENT	207720	2	0.25	2	6
3.40.	FIRE BLANKET (164X8 Inch)	11740	1312 Inch	0.25	1312 Inch	3936 Inch
3.41.	FIRE SLEEVE IN MODULE (80x1.5 Mtr)	129912	120 Mtr.	0.25	120 Mtr.	360 Mtr.
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.	ELECTRICAL AND ELECTRONIC ITEMS					
	FCC/KLD/HMI COMPUTER					
4.1.	COMPUTER MONITOR 17 IN; LCD FLAT PANEL	128215	2	6	0	0.32*
4.2.	COMP I7-6700 4.00GHz; 4.96TB 32GB RAM	20933	2	6	0	0.32*
4.3.	HEATER - BASEBOARD; 500W 120VAC 4.2AMPS	115939	2	6	0	0.33*
4.4.	LIGHT AMBER STROBE	A28766	1	6	0	0.16*
4.5.	LAMP MINIATURE SPOT	A88766	4	6	0	0.67*
4.6.	THERMOSTAT BUILT IN	A75157	2	6	0	0.33*
4.7.	SWITCH FOOT	A84414	1	6	0	0.16*
4.8.	COVER DUPLEX OUTLET; 2 GANG STAINLESS STEEL	117281	2	6	0	0.33*
4.9.	SWITCH 3-WAY 5A; 24 VDC	241531	1	6	0	0.16*
4.10.	MONITOR ASSY	163138	1	6	0	0.16*
4.11.	CAMERA-DIGITAL PROCESSING; 120VAC	C83658	2	6	0	0.33*
4.12.	SEQUENCE MONITOR ASSY; 17 INCH MONITOR	163156	1	6	0	0.16*
4.13.	THROTTLE SINGLE DIRECTION	112991	1	6	0	0.16*
4.14.	SWITCH SS 2POS MTN; 22MM ROUND BLK	245890	2	6	0	0.33*
4.15.	SWITCH SS 4POS MTN BLK; 22MM ROUND KNOB	247953	1	6	0	0.16*
4.16.	SWITCH PB 2POS MOM YLW; 22MM ILLUM ROUND EXTENDED	245881	1	6	0	0.16*
4.17.	MOTOR GRINDING 30HP	207214	20	3	2	5
4.18.	MOTOR ELECT 30 HP 1800 RPM/286TC W/FEET	B65877	2	2	0	1
4.19.	GENERATOR BLOWER RH MOD; 15 HP 3530 RPM	156590	1	6	0	0.16*
4.20.	LEESON MOTOR; 1-1/2 HP	167054	1	6	0	0.16*
4.21.	FAN COOLING 100CFM 120VAC 60HZ	115416	2	6	0	0.33*
4.22.	MOTOR COLLECTOR BLOWER	118408	1	6	0	0.16*
4.23.	SWITCH SS 2POS MTN GRN; 22MM ILLUM ROUND KNOB	245888	1	6	0	0.16*
4.24.	SWITCH LAMP LED WHT; 24VAC/VDC	245912	2	6	0	0.32*
4.25.	SWITCH PB 2POS MOM ORG; 22MM ILLUM ROUND EXTENDED	246517	1	6	0	0.16*
4.26.	SWITCH SS 2POS MTN; 22MM ROUND BLK	245890	1	6	0	0.16*
4.27.	SWITCH SS 3POS MTN BLK; 22MM ROUND KNOB	245899	1	6	0	0.16*
4.28.	SWITCH PB 2POS MTN; ROUND MUSHHEAD	245882	1	6	0	0.16*
4.29.	SWITCH LAMP LED WHT; 24VAC/VDC	245912	1	6	0	0.16*
4.30.	SWITCH TS 3POS MOM	126588	1	6	0	0.16*
4.31.	SWITCH TOGGLE 3 POS MOMEN; BLACK NYLON	109475	6	6	0	1
4.32.	METER RATE INDICATOR; 9-28 VDC	158994	1	6	0	0.16*
4.33.	DUPLEX GAUGE-AIR (BC-BP); DUAL SCALE PSI AND KPA	127532	1	6	0	0.16*
4.34.	ENCODER OPTICAL 2000 CT; BLIND SHAFT MOUNT	116121	1	6	0	0.16*
4.35.	PLC MOD COUNTER; 2 HIGH SPEED COUNTERS	114355	1	6	0	0.16*
4.36.	POWER SUPPLY 15VDC 2A; DIN RAIL MOUNT	115430	1	6	0	0.16*
4.37.	MODULE OPTICAL ISOLATOR; ENCODER INTERFACE	113622	2	6	0	0.33*
4.38.	CB 2A 1P 480V	101475	2	6	0	0.33*
4.39.	PLC MOD 36 PIN RTB; SCREW RTB W/STD HOUSING	115751	1	6	0	0.16*
4.40.	SWITCH LATCH; 3 POS PLASTIC	242831	11	6	0	1.83*
4.41.	SOLENOID DRIVER; CAMERA TILT SOLENOID	117872	1	6	0	0.16*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.42.	POWER SUPPLY; 10 VDC	A47415	1	6	0	0.16*
4.43.	POWER SUPPLY (UPS) 120V; 1500VA RACKMOUNT 6 OUTLET	108541	1	6	0	0.16*
4.44.	MODULE 20.5 SHIFT AND TILT POWER CABLE	1.5 sqmm	30 mtr	10	10 mtr	20 mtr
4.45.	HEAD LIGHT 1000W	A71538	1	6	0	0.16*
4.46.	DERAIL SENSOR	176202	2	6	0	0.32*
4.47.	PS 12VDC 57A	101440	1	6	0	0.16*
	PLCs				0	0.16*
4.48.	PLC 1756 SOFTWARE; RSLOGIX 5000 SERVICE EDITION	131780	1	6	0	0.16*
4.49.	PLC 1756 SOFTWARE; RSLOGIX 5000 SERVICE EDITION	131780	1	6	0	0.16*
4.50.	PLC CABLE ANALOG 39 IN.; PLC MOD TO IFM	128079	5	6	0	0.83*
4.51.	PLC IFM 25P ANLG; THRU	114477	11	6	0	2
4.52.	PLC CABLE ANALOG 59 IN; PLC MOD TO IFM	166306	6	6	0	1
4.53.	PLC IFM 40P DIG; FUSED	148060	2	6	0	0.33*
4.54.	PLC IFM 40P DIG; FUSED ISO	114490	3	6	0	0.5*
4.55.	BUGGY GFR SPREAD ASSY; FULL FLEX	245297	1	2	0	0.5*
4.56.	STONE HOLDER ASSY; 10" STRAIGHT SHAFT	244169	10	2	2	3
4.57.	TOW BAR ASSY	159247	2	6	0	0.33*
4.58.	SWITCH LIMIT LESS/ARM	A29552	1	6	0	0.16*
4.59.	CYLINDER HYD 2.50BX1.50R; 17.56S	241420	20	6	1	3
4.60.	CYL HYD 1.50B X .75R	211893	20	6	1	3
4.61.	MANIFOLD ASSEMBLY; BUGGY LIFT	172844	4	6	0	0.66*
4.62.	EYE SWIVEL	A26562	4	6	0	0.66*
4.63.	DITCH AND TIE SPRAY ASSY; DITCH 8-30GPM/TIE 1.5GPM	247870	2	6	0	0.33*
4.64.	VALVE BALL REMOTE OPER NC; 16FBSPP 04BSPP 24VDC	209733	2	6	0	0.33*
4.65.	VALVE BALL REMOTE OPER NC; 12FBSPP 04FBSPP 24VDC	215146	1	6	0	0.16*
4.66.	MANIFOLD HEADER 3000PSI; 12BSPP 3X08BSPP 180D ALUM	249168	1	6	0	0.16*
4.67.	MANIFOLD HEADER 3000PSI; 24BSPP 1X20BSPP 180D ALUM	249288	1	6	0	0.16*
4.68.	NOZZLE FIRE HOSE; 24FNPSH SWIVEL INLET	238316	2	6	0	0.33*
4.69.	NOZZLE 06MBSPT; 1.5GPM 80DEG FLAT SPRAY	249289	6	6	0	1
4.70.	DUST COLLECTOR; 9 BY 3 DEEP 1.5 IN VALVES	117095	1	6	0	0.16*
4.71.	SLEEVE 25.13 I.D.	160969	1	6	0	0.16*
4.72.	DUST BLOWER ASSY	157441	1	6	0	0.16*
4.73.	DUST HOPPER ASSY	159712	27	6	1	4
4.74.	DUST FILTER; FLAME RETARDANT	173050	9	6	0	2
4.75.	VALVE DIAPHRAGM 1.50; SPRINGLESS	173052	1	6	0	0.16*
4.76.	GAUGE PRESS 0-15IN WC; 4-20mA OUTPUT	157412	1	6	0	0.16*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.77.	REGULATOR; AIR	A70942	1	6	0	0.16*
4.78.	VALVE BRONZE GLOBE 1.25	A32718	1	6	0	0.16*
4.79.	VALVE BALL 1.00 NPT; BRONZE 600#WOG W/LOCK	118407	1	6	0	0.16*
4.80.	FAN WHEEL; COLLECTOR BLOWER	204850	1	6	0	0.16*
4.81.	ENCLOSURE ASSY 30X25X8; DUST PURGE AND CONTROL	134679	6	6	0	1
4.82.	TERMINAL MALE MOTOR #8; PIGTAIL CONNECTOR	164649	3	6	0	0.5*
4.83.	CONN MOTOR FEMALE #8; PIGTAIL	120600	3	6	0	0.5*
4.84.	TERMINAL FEMALE MOTOR #6; PIGTAIL CONNECTOR	106566	6	6	0	1
4.85.	BOOT RUBBER #4 LEADS; FOR PIGTAIL CONNECTOR	167045	2	6	0	0.33*
4.86.	BUSHING	167046	2	6	0	0.33*
4.87.	V-BELT	167047	1	6	0	0.16*
4.88.	BEARING	167054	1	6	0	0.16*
4.89.	PLC IFM 20P DIG; THRU	114489	3	6	0	0.5*
4.90.	PLC IFM 40P DIG; THRU	106494	3	6	0	0.5*
4.91.	PLC RACK 17 SLOT; CONTROLLOGIX I/O CHASSIS	114361	2	6	0	0.33*
4.92.	PLC MOD CONTROL NET RED; 100 CONNS	160410	2	6	0	0.33*
4.93.	PLC MOD DIGITAL INPUT; 32 INPUTS 24VDC	160404	3	6	0	0.5*
4.94.	PLC MOD DIGITAL OUTPUT; 16 CONTACT OUTPUTS 2 AMPS	114351	3	6	0	0.5*
4.95.	PLC MOD DIGITAL INPUT; 16 INPUTS 24 VOLTS DC	114348	3	6	0	0.5*
4.96.	PLC 1756 DIGITAL OUTPUT; 32 OUTPUTS 10-31VDC	148059	2	6	0	0.33*
4.97.	PLC MOD ANALOG OUTPUT; 8 VOLTAGE/CURRENT OUTPUTS	114352	5	6	0	0.83*
4.98.	PLC CABLE DIGITAL 39 IN; PLC MOD TO IFM	114354	6	6	0	1
4.99.	PLC CABLE DIGITAL 39 IN.; PLC MOD TO IFM	148061	5	6	0	0.83*
4.100.	PLC CABLE DIGITAL 39 IN.; PLC MOD TO IFM	128081	2	6	0	0.33*
4.101.	PLC 1756 CONTROLLER; CONTROLLOGIX 10M RAM	128082	3	6	0	0.5*
4.102.	PLC 1756 COMM; MODBUS INTERFACE ENHANCED	247417	1	6	0	0.16*
4.103.	PLC MOD TEMP AI; 8 ISO INPUT RTD OR TC	124334	1	6	0	0.16*
4.104.	PLC CABLE ANLG 1.00 M; PLC MOD TO IFM	236302	1	6	0	0.16*
	RELAYS				0	0.16*
4.105.	RELAY FLASHER 24V AC/DC; 10-100 PPM DIN MNT 8 PIN	A91349	1	6	0	0.16*
4.106.	RELAY 24VDC SPDT BLADE	107390	4	6	0	0.67*
4.107.	RELAY BASE SPDT BLADE	107081	5	6	0	0.83*
4.108.	RELAY 24VDC 4PDT BLADE	A79413	6	6	0	1
4.109.	RELAY BASE 4PDT BLADE; DIN RAIL/SURFACE MOUNT	A70104	6	6	0	1
4.110.	RELAY 120VAC 1PDT BLADE	107080	1	6	0	0.16*
4.111.	RELAY BASE 2PDT BLADE	A84468	4	6	0	0.67*
4.112.	RELAY 24VDC 2PDT BLADE	104611	4	6	0	0.67*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
	CIRCUIT BREAKERS					
4.113.	CB 3A 1P 480V	115407	21	6	1	4
4.114.	CB 2A 1P 480V	101475	13	6	1	1
4.115.	CB 4A 1P 480V	100542	6	6	0	1
4.116.	CB 6A 1P 480V	114367	1	6	0	0.16*
4.117.	CB 10A 1P 480V	101473	4	6	0	0.67*
4.118.	CB 8A 1P 480V	100564	1	6	0	0.16*
4.119.	CB 16A 1P 480V	100543	1	6	0	0.16*
4.120.	CB 10A 3P 480V; 6.3A-10.0A OVERLOAD	123731	3	6	0	0.5*
4.121.	CB 40A 1P 480V	115379	3	6	0	0.5*
4.122.	CB 70A 3P 480V; FIXED THERMAL MAGNETIC	233762	11	6	1	1
4.123.	CB 0.63A 3P 480V; 0.43A-0.63A OVERLOAD	123727	1	6	0	0.16*
4.124.	CB 175A 3P 600V; XT4 FRAME MOLDED CASE	250781	1	6	0	0.16*
4.125.	CB 100A 3P 600V; XT1 FIXED MOLDED CASE	240151	1	6	0	0.16*
4.126.	CONT MS 55A 3P; 24VDC COIL	123665	10	6	1	1
4.127.	CB 2A 1P 480V	101475	16	6	1	2
4.128.	CB 6A 1P 480V	114367	2	6	0	0.33*
4.129.	CB 16A 1P 480V	100543	2	6	0	0.33*
4.130.	CB 10A 1P 480V	101473	3	6	0	0.5*
4.131.	CB 8A 1P 480V	100564	1	6	0	0.16*
4.132.	CB 4A 1P 480V	100542	1	6	0	0.16*
4.133.	CB 10A 3P 480V; 6.3A-10.0A OVERLOAD	123731	4	6	0	0.67*
4.134.	CB 13A 1P 480V	117420	7	6	0	1
4.135.	CB 40A 1P 480V	115379	4	6	0	0.67*
4.136.	CB 70A 3P 480V; FIXED THERMAL MAGNETIC	233762	10	6	0	2
4.137.	CONT MS 55A 3P; 24VDC COIL	123665	10	6	0	2
4.138.	CONT OL 11-55A; FOR C30..C43	248134	10	6	0	2
4.139.	CONT OL 11-55A; FOR C30..C43	248134	10	6	0	2
4.140.	CONT MS 09A 480V 3P; 24VDC COIL 1 NO AUX	123662	1	6	0	0.16*
4.141.	CONT OL REMOTE RESET ACC; 24VDC E1 PLUS SERIES	248135	10	6	0	2
4.142.	TRANSFORMER 120/12VAC; 50VA W/ FUSE CLIP	104243	3	6	0	0.5*
4.143.	CB 2A 1P 480V	101475	5	6	0	0.83*
4.144.	CB 4A 1P 480V	100542	1	6	0	0.16*
4.145.	CB 10A 1P 480V	101473	2	6	0	0.33*
4.146.	CB .5A 1P 480V	100541	1	6	0	0.16*
4.147.	CONTACTOR DC 12VDC COIL	B85228	1	6	0	0.16*
4.148.	CONTACTOR DC 12VDC COIL	B85228	1	6	0	0.16*
	TRANSFORMERS					
4.149.	TRANSFORMER 10KVA; 240X480-120/240VAC 1PHASE	116798	3	6	0	0.5*
4.150.	ENCLOSURE ASSY ; RGI TRANSFORMER ASSY	116912	1	6	0	0.16*
4.151.	TERMINAL MALE MOTOR; PIGTAIL CONNECTOR	A88238	6	6	0	1
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
4.152.	TERMINAL FEMALE MOTOR; PIGTAIL CONNECTOR	A88239	6	6	0	1
4.153.	TERMINAL FEMALE MOTOR #6; PIGTAIL CONNECTOR	120600	12	6	0	2
4.154.	TERMINAL MALE MOTOR #4; 3-WIRE PIGTAIL CONNECTOR	120928	6	6	0	1
4.155.	BOOT RUBBER MOTOR LEADS; FOR PIGTAIL CONNECTOR	A87501	6	6	0	1
4.156.	TERMINAL FEMALE CONNECTOR	A87500	3	6	0	1
4.157.	TERMINAL FEMALE CONNECTOR	A87499	3	6	0	1
4.158.	BOOT RUBBER MOTOR LEADS; FOR 3-WIRE PIGTAIL CONN	120929	6	6	0	1
4.159.	BOOT RUBBER SEAL TAPE	106569	1	6	0	0.16*
4.160.	TRANSFORMER ASSY; 480/208Y 30KVA	116799	1	6	0	0.16*
	FUSES					
4.161.	FUSE 1 AMP 250 VOLT; FAST ACTING	103106	40	3	3	10
4.162.	FUSE 500mA 250 VOLT; FAST ACTING	103105	64	3	3	18
4.163.	FUSE 2 AMP 250 VOLT; FAST ACTING	103107	48	3	3	13
4.164.	FUSE 20 AMP 600 VOLT; DUAL ELEMENT TIME DELAY	113992	3	3	0	1
4.165.	FUSEHOLDER TOUCH SAFE; 0-30 AMP CLASS J	110817	3	3	0	1
4.166.	FUSE 2 AMP 600 VOLT; TIME DELAY	(A86223	2	3	0	0.67*
4.167.	FUSE 40 AMP 32 VOLT NON-TIME DELAY	A32656	2	3	0	0.67*
4.168.	FUSE 1 AMP 600 VOLT TIME DELAY	A86218	16	3	1	4
4.169.	FUSE 20 AMP 600 VOLT; DUAL ELEMENT TIME DELAY	113992	3	3	0	1
4.170.	FUSE 5 AMP 600 VOLT TIME DELAY	103710	2	3	0	0.67*
4.171.	FUSE 6 AMP 600 VOLT; FAST ACTING	A33827	2	3	0	0.67*
4.172.	FUSE 20 AMP 600 VOLT; DUAL ELEMENT TIME DELAY	113992	6	3	1	1
4.173.	FUSE 250mA 250 VOLT FAST ACTING	103104	24	3	2	6
4.174.	FUSE 2 AMP 250 VOLT FAST ACTING	103107	80	3	7	20
4.175.	FUSE 15 AMP 600 VAC QUICK ACTING	126835	2	3	0	0.67*
4.176.	FUSE 1250 AMP 700 VOLT; HIGH SPEED	103715	2	3	0	0.67*
4.177.	FUSE 4 AMP 500 VOLT TIME DELAY	A86219	12	3	1	3
4.178.	FUSE 10 AMP 600 VOLT TIME DELAY	A86222	8	3	1	2
4.179.	FUSE 1-1/2 AMP 600 VOLT TIME DELAY	134824	2	3	0	0.67*
4.180.	FUSE 3.2 AMP 250 VOLT TIME DELAY	134825	1	3	0	0.33*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
5.	PNEUMATIC					
5.1.	VALVE BRAKE INDEPENDENT H-2-FX 0-65 PSI	D28747	1	3	0	0.33*
5.2.	VALVE RELAY J1.6-16 FLOOR MOUNTED	A75396	1	3	0	0.33*
5.3.	REGULATOR .75 NPT	112952	1	3	0	0.33*
5.4.	VALVE SHUTTLE .50 FNPT	A28748	1	3	0	0.33*
5.5.	PANEL ASSY AUTOMATIC BRK; A9 BRAKE VAVLE	163122	2	3	0	0.67*
5.6.	AIR HORN ASSY	248911	1	3	0	0.33*
5.7.	RESERVOIR AIR; 10 GAL	118215	1	3	0	0.33*
5.8.	CUT OFF ANGLE COCK 1.25; BRAKE PIPE IR	174109	2	3	0	0.67*
5.9.	REDUCING VALVE; 6.0 BAR	206708	1	3	0	0.33*
5.10.	VALVE- SOLENOID 1.25	118134	1	3	0	0.33*
5.11.	VALVE SFTY MAIN RSVR J-1; AIR 160 PSI 1.00 MNPT	A38284	1	3	0	0.33*
5.12.	VALVE CHECK 1.00 NPT; BRONZE/0.5 PSI/BUNA N	111704	1	3	0	0.33*
5.13.	VALVE DRCT 150 PSI CV7; AIR 04MNPT MAN DRAW COCK	A22010	3	3	0	1
5.14.	VALVE BRONZE CHECK .75	A70947	1	3	0	0.33*
5.15.	VALVE RELAY J-1.6-16; SUSPENSION MOUNTED	A48635	1	3	0	0.33*
5.16.	VALVE DISTR KE TYPE; KEGISL RDSO 02-ABR02	168013	1	3	0	0.33*
5.17.	AIR CHIME WHISTLE	D75161	1	3	0	0.33*
5.18.	HORN AIR & FRONT PEDESTAL	A15560	1	3	0	0.33*
5.19.	BRACKET AIR HORN	248951	1	3	0	0.33*
5.20.	MOUNT AIR CHIME; RG331	136329	1	3	0	0.33*
5.21.	VALVE BALL REMOTE OPER NC; 12FNPT_04AIR_PILOT_24VDC	163673	2	3	0	0.67*
5.22.	VALVE BALL 08FNPT 08MNPT; 450PSI MINI	240254	1	3	0	0.33*
5.23.	MANIFOLD HEADER 3000PSI; 12FORB 2 X 08FORB	210471	1	3	0	0.33*
5.24.	VALVE AIR BREAK AUTOMATIC A-9	B23652	1	3	0	0.33*
5.25.	COMPRESSOR AIR 50 HP	164865	1	3	0	0.33*
5.26.	Compressor filter (Primary)	148464	1	3	0	0.33*
5.27.	ELEMENT AIR FILTER; SECONDARY	153160	1	2	0	0.5*
5.28.	coalescing pre-filter 0.01 Micron	158630	1	2	0	0.5*
5.29.	ELEMENT COALESCING FILTER	158634	1	2	0	0.5*
5.30.	Element Oil Separator	159498	1	2	0	0.5*
5.31.	filter element oil	148465	1	2	0	0.5*
5.32.	Maintenance Kit-200 SCFM Dryer	158629	1	2	0	0.5*
5.33.	DRAIN KIT	158635	1	2	0	0.5*
5.34.	VALVE SOL 2 WAY 115VAC	148467	1	3	0	0.33*
5.35.	MOISTURE SEPARATOR W/ AUTO DRAIN	158626	1	2	0	0.5*
5.36.	VALVE PRESSURE RELIEF	159499	2	3	0	0.33*
5.37.	DRYER 200 SCFM W/ -40 PDP	158627	1	2	0	0.5*
5.38.	AIR COMPRESSOR COOLER	159501	1	3	0	0.33*
5.39.	AIR COMPRESSOR COOLER FAN	159502	1	3	0	0.33*
	* Minimum Quantity -1					

3200102/2024/O/o PED/INFRA-1/RDSO

Sr. No	Brief Description	Part No.	No. Per M/C	Estd Life Cycle In Yrs	Qty. requirement Per Machine	
					Machine (Site)	SRGM stores
5.40.	COOLER FAN MOTOR 1.5HP TEFC	158625	1	3	0	0.33*
5.41.	SWITCH COMPRESSOR TEMP	148472	1	3	0	0.33*
5.42.	CONTROL SWITCH	159500	1	3	0	0.33*
5.43.	SWITCH PRESSURE ANTI-RESTART	148473	2	3	0	0.33*
5.44.	SWITCH COMPRESSOR OVERPRESSURE	148475	2	3	0	0.67*
5.45.	VALVE AIR SOLENOID	A66642	1	3	0	0.33*
5.46.	SAFETY FILTER	H28919	2	2	0	0.5*
5.47.	VALVE REGULATOR CONTROL	148468	1	3	0	0.33*
5.48.	SENSOR DISCH TEMP KTY	KB69677-004DC	1	3	0	0.33*
5.49.	VALVE REGULATING KIT	K09661-002	1	3	0	0.33*
5.50.	VALVE INTAKE	09790-007	1	3	0	0.33*
5.51.	DRYER 200SCFM	SP4055A030	1	3	0	0.33*
5.52.	SEAL SHAFT	KB09147-262	1	3	0	0.33*
5.53.	ELEMENT OF OIL SEPERATOR	08000-009	1	3	0	0.33*
5.54.	TOOL KIT SHAFT SEAL	K09147-001	1	3	0	0.33*
	* Minimum Quantity -1					

Annexure – I

List of Safety Equipment's

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	2 nos.
5.	Chain & Padlock	1 set.
6.	Clamp with Padlock	2 nos.
7.	Jack 20t capacity with traverse.	1 no*.
8.	Crow bars	4 nos.
9.	Wooden blocks off sizes	8 nos.
10.	Gauge cum level	1 no.
11.	Rail thermometer (dial type)	1 no.
12.	Banner flag	2 nos.
13.	Portable Control Phone	1 no
14.	Walkie Talkie	1 set
15.	First Aid Box	1 no each cabin
16.	Skids	2 nos.
17.	Working time table of section where machine working	1 copy
18.	G&SR book with upto date amendment slips	1 copy
19.	4 cell flasher light	1 no.
20.	Petromax /LPG lamps	1 no.
21.	Safety helmets	For each Machine staff
22.	Protective clothing, safety shoes and safety gloves	Foreach Machine staff
23.	Track Machine Manual	1 no.
24.	Accident Manual	1 no.
25.	Fire extinguisher	1 no each cabin
26.	Hooter (manual	2nos
27.	Hydraulic Hand Pump	1 no.
28.	Emergency pneumatic/Hydraulic hose of sizes suiting to different machines (complete with end fittings)	1 no.

Note:-

1. Inspecting official should wear the safety items 21 to 22 while doing the inspection.
2. * Proposal is sent to Railway board vide letter no. TM/HM/1, VOL-2, dt.22/08/2019 for approval of jack, machine wise.

Annexure-II**GENERAL SAFETY NOTES**

1. The machine is to be operated according to existing Indian Railways Rules & Regulations.
2. The safety of yourself and other people is most important consideration in the operation and maintenance of the machine.
3. Remember, the machine is a working unit, carrying delicate instruments. Therefore, the machine should not be driven at excessive speed over bad track or crossing.
4. Always keep your eyes open for other men working close to the machine.
5. Do not forget to look out for signals, switches and track obstructions.
6. Make sure that all protection equipment and safety devices are in place on the machine and in working order especially when it is being driven from site to site.
7. Always keep the machine clean. Excessive oil or grease on the machine can cause you to slip and fall and is also to potential fire hazard.
8. Always lock the machine before you leave. Make sure that the machine is protected in accordance with railway regulations.
9. Whenever you have the opportunity while waiting to get out on a job, do some of the smaller maintenance job, such as tightening loose nuts and bolts and cleaning the machine.
10. Do not permit unauthorized persons to operate the machine.
11. It is prohibited to use fire on or near the machine.
12. Do not tow the machine if the final drive is engaged.

ACKNOWLEDGEMENT

Following officer and staff have made their valuable contributions in finalization of the critical spares parts list of Switch Rail Grinding Machine- 20 stone (Loram).

RDSO

1	SHRI KAMAL CHAND	ARE/RGM/TMM
2	SHRI SURENDRA KUMAR	SSRE/RGM/TMM
3	SHRI PRINCE KUMAR	SSE/RGM/TMM
4	SHRI ARUN KUMAR	SSE/RGM/TMM
5	SHRI NEERAJ SINGH	JRE/RGM/TMM

RAILWAY

1.	SHRI GUMMY LINGASWAMY	SSE/TM/BMO/SCR
2.	SHRI SHAHID JAMAL KHAN	SSE/TM/NCR
3.	SHRI PANKAJ SANGWAN	SSE/TMC/NR