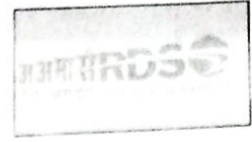




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टीएम/एच एम/बी सी एम पार्ट. III
TM/HM/BCM, Pt- III

दिनांक- 05-08-2024
Date- 05-08-2024

I-	मुख्य अभियन्ता (ट्रैक मशीन) सभी क्षेत्रिय रेलवे	Chief Engineer (Track Machines) All Zonal Railways
II-	मुख्य कार्यशालाप्रबन्धक (ट्रैक मशीन) सी.पी.ओ.एच. कार्यशाला प्रयागराज, रायनापाडु, कंचरापारा, अहमदाबाद.	Chief Workshop Manager (Track Machines) CPOH Workshop, Prayagraj, Rayanapadu, Kachrapara, Ahmedabad
III-	प्रधानाचार्यभा.रे.रे.प.म.प्र.के. पीपलगांव प्रयागराज-211011	Principal, IRTMTC, Pipalgaon, Prayagraj-211011
Details of addresses are enclosed herewith.		

विषय : बैलास्ट क्लिनिंग मशीन माडल -आर एम-80-92यु (मशीन क्रम सं- 57088.57105 - 57165.57175) की क्रिटिकल स्पियर पार्ट सूची ।

Sub : Critical Spares Part list of Ballast Cleaning Machine (RM-80-92U) (Machine Sr.No.57088-57105 & 57165-57175).

ओईएम मैनुअल, आइआरटीएमएम-2019, उत्तर रेलवे एवं उत्तर मध्य रेलवे से प्राप्त सुझाव के आधार पर बैलास्ट क्लिनिंग मशीन माडल -आर एम-80-92यु (मशीन क्रम सं- 57088-57105 & 57165-57175) की क्रिटिकल स्पियर पार्ट सूची का मसौदा तैयार कर टीएम/एच एम/ बी सी एम पार्ट. III दि. 23.02.2024 द्वारा 30 दिनों के लिये जारी किया गया था, और अनंतिम क्रिटिकल स्पियर पार्ट सूची पत्र सं. टीएम/एच एम/ बी सी एम पार्ट. III दि. 14.06.2024 द्वारा 15 दिनों के लिये सभी क्षेत्रिय रेलवे को, जारी किया गया था। इसके उपरान्त उत्तर रेलवे एवं उत्तर मध्य रेलवे से प्राप्त सुझाव/टिप्पणी के आधार पर क्रिटिकल स्पियर पार्ट सूची अंतिम रूप से तैयार किया गया है, जिसकी एक प्रति आपके सूचनार्थ तथा सभी मशीन के कर्मचारियों जो फील्ड में काम कर रहे हैं, के मार्गदर्शन हेतु संलग्न है। यद्यपि उपरोक्त सूची बनाते समय सभी सावधानियों बरती गई है, फिर भी यदि कोई त्रुटि हो तो कृपया अपने सुझावों/टिप्पणियों को सुधार हेतु ई-मेल/पत्राचार द्वारा अद्योहस्ताक्षरी को भेजे।

On the basis of OEM manual, IRTMM-2019 and suggestion received from Northern railway & North Central Railway draft of Critical Spares Part list of Ballast Cleaning Machine (RM-80-92U) (Machine Sr.No.57088-57105 & 57165-57175) had been prepared and circulated vide letter no. TM/HM/BCM/Pt-III dated 23/02/2024 for 30 days and provisional Critical Spares Part list circulated vide letter no. TM/HM/BCM/Pt-III dated 14/06/2024 for 15 days respectively. After incorporating Suggestions/Comments received from Northern railway & North Central Railway, Critical Spares Part list 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, the discrepancy noticed, if any, may be brought to the knowledge of the undersigned for further improvement by email/post.

DA: As above
Email id - hmtmrmrds@gmail.com


08.08.24
(कैलाश नारायण)
(Kailash Narayan)
निदेशक रेल पथ मशीन-I
Director/Track Machine-I

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- 3.0 उत्तररेलवे, बड़ौदा हाउस, नयी दिल्ली-110 001
- 4.0 पूर्वोत्तर रेलवे, गोरखपुर-273 012
- 5.0 पूर्वोत्तर सीमान्त रेलवे, मालीगांव, गुवाहाटी-781 011
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- 7.0 दक्षिण मध्य रेलवे, रेल निलयम, सिकन्दराबाद-500 025
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- 14.0 पूर्व तट रेलवे, भुवनेश्वर-751 001
- 15.0 पश्चिम मध्य रेलवे, जबलपुर-482 001
- 16.0 दक्षिण पूर्व मध्य रेलवे, बिलासपुर-495 004

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INDIAN RAILWAYS

**CRITICAL SPARES FOR BALLAST
CLEANING MACHINE
(Model- RM 80-92U, Machine Sr.No.57088-
57105 & 57165-57175)**

August-2024

RESERCH DESIGNS AND STANDARDS ORGANISATION

Manak Nagar , 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, critical spares parts list for Ballast Cleaning Machine (Model- BCM RM 80-92U, Machine Sr.No.57088-57105 & 57165-57175) has been prepared. It may be noted that this is the list of spares required for the normal maintenance of machine for one year only and does not include the spares required for IOH , POH and other spl. maintenance. Requirement of spare parts for such schedule maintenance (IOH/POH), other spl. maintenance and emergency maintenance/attention may be assessed separately on need basis by zonal railways itself.

(Kailash Narayan)
Director Track Machine-I

August -2024

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SITE -At machine

STMD -Satellite depot

ZTMD -Zonal depot.

BCM (RM80-92U)**ENGINE**

Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
1.0 Model- Deutz BF6M-1015CP Quantity–02* (Quantity listed below for both engines)Nos.							
1.1.	Radiator	0165-36-001	1	6	0	0	0.2*
1.2.	Radiator Fan	0165-39-001	1	6	0	0	0.2*
1.3.	V - Belt (Alternator)	0118 1387	2	0.5	2	1	1
1.4.	Alternator 28v/ 120A	0118 4357	2	6	0	0	0.3*
1.5.	Self Starter	0165-44-041	1	6	0	0	0.2*
1.6.	Air Cleaner Outer	0165-22-163	1	1	0	0	1
1.7.	Air Cleaner Inner	0165-22-164	1	1	0	0	1
1.8.	Spin On Fuel Filter	0165-20-010	2	0.3	2	2	2
1.9.	Filter Catridge	0165-20-017	1	0.3	1	1	1
1.10.	Spin On Oil Filter	0165-15-001	1	0.3	1	1	1
1.11.	Battery	12 V 110AH	8	2	0	0	8
1.12.	Foot Mounting-1	0165-46-001	2	6	0	0	0.1*
1.13.	Foot Mounting-2	0165-46-004	2	6	0	0	0.1*
1.14.	Silencer (Mufler)	0165-41-063	1	6	0	0	0.2*
1.15.	Air Compressor	0165-33-001	1	6	0	0	0.2*
1.16.	Fuel Injection Pump	0165-17-001	1	6	0	0	0.2*
1.17.	Turbo Charger	0165-43-001	1	6	0	0	0.2*
1.18.	Toothed Gear	0165-33-003	1	6	0	0	0.2*
1.19.	O Seal-1	0165-33-004	1	6	0	0	0.2*
1.20.	Water Pump	0165-37-025	1	6	0	0	0.2*
1.21.	Nozzle	0165-19-002	6	6	0	0	1
1.22.	Water Pump	0165-37-025	1	6	0	0	0.2*
1.23.	Sealing Ring	0165-19-003	6	1	0	0	6
1.24.	O Seal-2	0165-01-052	1	1	0	0	1
1.25.	Rubber Hose	0165-16-073	1	1	0	0	1
1.26.	Gasket-1	0165-08-028	6	1	0	0	6
1.27.	Gasket-2	0165-08-023	6	1	0	0	6
*Minimum Quantity 1							

BCM (RM80-92U)**ENGINE**

Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
1.28.	Coolant(20 Ltr)	0165-90-7991	1	1	0	0	6
1.29.	Fuel pump 24V	580054001	1	6	0	0	0.2
1.30.	Engine display	4219143	1	6	0	0	0.2

BCM (RM80-92U)
HYDRAULIC

Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
2.0 HYDRAULIC							
2.1 VALVES, PRESSURE REGULATOR & CHECK VALVE							
2.1.1	Pressure Limiting Valve	62.05.1000.366	2	6	0	0	0.3*
2.1.2	Pressure Relief Valve	62.05.1000.138	2	6	0	0	0.3*
2.1.3	Pilot Valve	62.05.1000.381	2	6	0	0	0.3*
2.1.4	Valve	62.05.1000.380-A	2	6	0	0	0.3*
2.1.5	2-Way Valve	HY157.50	2	6	0	0	0.3*
2.1.6	Valve	HY6RSB-B	4	6	0	0	0.6*
2.1.7	Check Valve	62.05.1000.134/A-450BAR	2	6	0	0	0.3*
2.1.8	4/2-Position Valve	62.05.1000.350	1	6	0	0	0.2*
2.1.9	Valve	HY6RSE-B	3	6	0	0	0.5*
2.1.10	Flushing Valve	HY157.95/16	2	6	0	0	0.3*
2.1.11	Pressure Limiting Valve	62.05.3000.488	2	6	0	0	0.3*
2.1.12	Valve	HY10RSD-C	1	6	0	0	0.2*
2.1.13	Check Valve	HY151.33/5BAR12	1	6	0	0	0.2*
2.1.14	Valve	62.05.2000.44	1	6	0	0	0.2*
2.1.15	Valve	HY24RSH.T-B	2	6	0	0	0.3*
2.1.16	Valve	HY10RSH-C	4	6	0	0	0.6*
2.1.17	Pressure Limiting Valve	HY511.54	4	6	0	0	0.6*
2.1.18	Check Valve	62.05.3000.573	8	6	0	0	1.3
2.1.19	Control Valve	62.05.3000.575	4	6	0	0	0.6*
2.1.20	Valve	62.05.3000.709	1	6	0	0	0.2*
2.1.21	Valve	62.05.2000.109	1	6	0	0	0.2*
2.1.22	Valve	HY6RSD-B	4	6	0	0	0.6*
2.1.23	Valve	HY6RSJ-B	8	6	0	0	1.3
2.1.24	Valve	HY6RSG-B	2	6	0	0	0.3*
2.1.25	Valve	HY6RSH-B	2	6	0	0	0.3*
2.1.26	Check Valve	62.05.3000.566	2	6	0	0	0.3*
* Minimum Quantity -1							

BCM (RM80-92U)**HYDRAULIC**

Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
2.1.27	Regulating Check Valve	62.05.3000.567	2	6	0	0	0.3*
2.1.28	Pressure Limiting Valve	HY6Z2DB-VC2/200	1	6	0	0	0.2*
2.1.29	Check Valve	HY151.33/0,5BAR06	2	6	0	0	0.3*
2.1.30	Valve	62.05.3000.711	2	6	0	0	0.3*
2.1.31	Valve	62.05.3000.592	2	6	0	0	0.3*
2.1.32	Check Valve	HY155.13	4	6	0	0	0.6*
2.1.33	Check Valve	HY151.33/0,2BAR08	2	6	0	0	0.3*
2.1.34	Valve	62.05.3000.504	4				
2.1.35	Valve	62.05.3000.715	1	6	0	0	0.2*
2.1.36	Seat Valve	62.05.3000.803	2	6	0	0	0.3*
2.1.37	Plug-In Check Valve	00542143	2	6	0	0	0.3*
2.1.38	Safety Valve	HY56R	1	6	0	0	0.2*
2.1.39	Valve	HY6RSY-B	1	6	0	0	0.2*
2.1.40	Control Valve	HY511.71/W/15/350	2	6	0	0	0.3*
2.1.41	Control Valve	HY511.71/W/25/315	2	6	0	0	0.3*
2.1.42	Valve	62.05.4000.301	2	6	0	0	0.3*
2.1.43	Valve	62.05.4000.366	1	6	0	0	0.2*
2.1.44	Valve	62.05.4000.294/A-450BAR	1	6	0	0	0.2*
2.2 MOTORS							
2.2.1	Hydraulic Motor	62.05.1000.400-A	4	6	0	0	0.6*
2.2.2	Motor-Pump Combination	62.05.1000.338	1	6	0	0	0.2*
2.2.3	Motor-Pump Combination	62.05.1000.309	4	6	0	0	0.6*
2.2.4	Hydraulic Motor	62.05.2000.123	2	6	0	0	0.3*
2.2.5	Hydraulic Motor	62.05.4000.422	1	6	0	0	0.3*
2.2.6	Hydraulic Motor	62.05.4000.34	1	6	0	0	0.2*
2.2.7	Hydraulic Motor	62.05.4000.325	1	6	0	0	0.2*
2.2.8	Gear Motor	62.05.4000.221	2	6	0	0	0.3*
2.2.9	Gear Motor	62.05.4000.220	2	6	0	0	0.3*
* Minimum Quantity -1							

BCM (RM80-92U)
HYDRAULIC

Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
2.3	PUMPS						
2.3.1	Piston Motor	62.05.4000.253	1	6	0	0	0.2*
2.3.2	Hydraulic Pump	62.05.1000.483	2	6	0	0	0.3*
2.3.3	Hydraulic Pump	62.05.2000.111	2	6	0	0	0.3*
2.3.4	Hydraulic Pump	62.05.2000.144	1	6	0	0	0.2*
2.3.5	Pump	62.05.4000.363	1	6	0	0	0.2*
2.3.6	Variable Displacement Pump	HY709X71L/DFR+28L/DFR	1	6	0	0	0.2*
2.3.7	Hydraulic Pump	62.05.1000.333	2	6	0	0	0.3*
2.3.8	Hydraulic Pump	62.05.3000.572	1	6	0	0	0.2*
2.3.9	Hydraulic Pump	62.05.4000.252	1	6	0	0	0.2*
2.3.10	Pump	62.05.1000.342	2	6	0	0	0.3*
2.3.11	Dual Pump	62.05.4000.242	2	6	0	0	0.3*
2.3.12	Hydraulic Pump	62.05.1000.333	2	6	0	0	0.3*
2.3.13	Pump	62.05.3000.489	2	6	0	0	0.3*
2.3.14	Pump	62.05.3000.490	1	6	0	0	0.2*
2.3.15	Pump	62.05.2000.144	1	6	0	0	0.2*
2.3.16	Pump	64.04.3000.86	1	6	0	0	0.2*
2.3.17	Piston Pump	61.02.200III	1	6	0	0	0.2*
2.3.18	Hydraulic Pump	62.05.2000.144	1	6	0	0	0.2*
2.3.19	Dc Pump Unit	HY936.N5,5	1	6	0	0	0.2*
2.3.20	Variable Displacement Pump	HY709X71L/DFR+28L/DFR	1	6	0	0	0.2*
2.3.21	Motor-Pump Combination	62.05.1000.399	1	6	0	0	0.2*
2.4	FILTER						
2.4.1	Duct Filter	62.05.1000.470A	2	6	0	0	0.3*
2.4.2	Filter Element	62.05.1000.471	4	1	0	0	4
2.4.3	Filter Element	62.05.1000.187	16	1	4	4	8
2.4.4	Duct Filter	62.05.1000.271A	2	1	0	1	1
2.4.5	Filter Cartridge	62.05.1000.272	1	1	1	0	0
2.4.6	Filter	HY-D507.140.10	8	1	2	2	4
2.4.7	Filter Cartridge	HY-D507.140.10/ES	16	1	4	4	8
* Minimum Quantity -1							

BCM (RM80-92U)
HYDRAULIC

Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
2.4.8	Filter Assembly	64.05.1000.141	1	1	1	0	0
2.4.9	Return Line Filter	62.05.2000.95	1	1	1	0	0
2.4.10	Return Line Filter Element	62.05.1000.273	2	1	1	1	1
2.4.11	Superfine Filter	HY-R507.05.01H	3	1	1	1	1
2.4.12	Filter Cartridge	HY-R507.05.01HES	3	1	1	1	1
2.4.13	Filter Cartridge	62.05.2000.95/ES	1	1	1	0	0
2.4.14	Filter Cartridge	62.05.1000.270	1	1	1	0	0
2.4.15	Duct Filter	62.05.1000.269A	1	1	1	0	0
2.4.16	Oil-Filter Unit	HY-501.03.05	1	1	1	0	0
2.4.17	Filter Cartridge	HY-501.03.05/ES	1	1	1	0	0
2.4.18	Filter Element	62.05.1000.293	1	0.5	1	1	0
2.4.19	Filter-1	62.05.4000.247	1	0.5	1	1	0
2.4.20	Filter Element	HY-506.10.30ES	2	0.5	2	2	0
2.5	CYLINDER						
2.5.1	Spring-Loaded Cylinder	PN90.386	2	6	0	0	0.3*
2.6	SEAL KIT & 'O' RING						
2.6.1	Seal Kit	62.05.3000.83DS	2	6	0	0	0.3*
2.6.2	Seal Kit	HY10RSD-DS	1	6	0	0	0.2*
2.6.3	Seal Kit	62.05.1000.309DS	4	6	0	0	0.6*
2.6.4	Seal Kit	62.05.1000.333/DS	1	6	0	0	0.2*
2.6.5	Seal Kit	62.05.1000.350/DS	1	6	0	0	0.2*
2.6.6	Seal Kit	HY6RSD-DS	2	6	0	0	0.3*
2.6.7	Seal Kit	HY-R507.05.01H/DS	3	6	0	0	0.5*
2.6.8	Seal Kit	62.05.1000.309DS	1	6	0	0	0.2*
2.6.9	Seal Kit	HY-D507.140.10/DS	8	6	0	0	1
2.6.10	Seal Kit	62.05.1000.309DS	1	6	0	0	0.2*
2.6.11	Seal Kit	62.05.2000.111/DS	1	6	0	0	0.2*
2.6.12	Seal Kit	62.05.2000.123DS	1	6	0	0	0.2*
2.6.13	Seal Kit	HY24RSH-DS	2	6	0	0	0.3*
2.6.14	Seal Kit	62.05.2000.44DS	1	6	0	0	0.2*
2.6.15	Seal Kit	HY6RSD-DS	2	6	0	0	0.3*
* Minimum Quantity -1							

BCM (RM80-92U)**HYDRAULIC**

Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
2.6.16	Seal Kit	62.05.3000.489/DS	1	6	0	0	0.2*
2.6.17	Seal Kit	HY6RSD-DS	8	6	0	0	1
2.6.18	Seal Kit	HY6RSD-DS	1	6	0	0	0.2*
2.6.19	Seal Kit	HY6RSD-DS	8	6	0	0	1
2.6.20	Seal Kit	HY6RSD-DS	3	6	0	0	0.5*
2.6.21	Seal Kit	HY6RSD-DS	1	6	0	0	0.2*
2.6.22	Seal Kit	62.05.3000.489/DS	1	6	0	0	0.2*
2.6.23	Seal Kit	62.05.1000.366/DS	2	6	0	0	0.3*
2.6.24	Seal Kit	HY6RSD-DS	2	6	0	0	0.3*
2.6.25	Seal Kit	HY6RSD-DS	2	6	0	0	0.3*
2.6.26	Seal Kit	HY10RSD-DS	1	6	0	0	0.2*
* Minimum Quantity -1							

BCM (RM80-92U)					MECHANICAL		
Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
3.0 MECHANICAL							
3.1 BEARING							
3.1.1	Clutch bearing	64.04.2118	2	2	0	0	1
3.1.2	Roller bearing	NJ 210 MC3	1	4	0	0	1
3.1.3	Roller bearing	NJ 213 MC3	2	4	0	0	1
3.1.4	Roller bearing	NJ 313 MC3	1	4	0	0	1
3.1.5	Roller bearing	NJ 2210 MC3	2	4	0	0	1
3.1.6	Roller bearing	NJ 2313 MC3	1	4	0	0	1
3.1.7	Roller bearing	NUP 214 MC3	1	4	0	0	1
3.1.8	Roller bearing for use in corner roller	2013 MBC4	5	0.2	10	5	10
3.2 CARDON SHAFT & GEAR BOX							
3.2.1	Carden shaft	LZ760LA100/01101150 01	1	5	0	0	0.2*
3.2.2	Cardon shaft	LZ640LA110/4369.108 5.0640	2	4	0	0	0.5*
3.2.3	Coupling	WN 20.220	2	4	0	0	0.5*
3.3 NUT, BOLTS & WASHER							
3.3.1	Hex bolt	M12X30DIN933-8.8	14	1	14	0	0
3.3.2	Hex bolt	M12X60DIN931- 8.8/verz	76	1	80	0	0
3.3.3	Hex bolt for screen floor	M16X60DIN931- 8.8/verz	76	1	80	0	0
3.3.4	Chain bolt	61.04.212	170	0.2	200	0	200
3.3.5	T. Head bolts	61.04.218	170	0.1	200	0	2200
3.3.6	Hinge part	64.08.1167	17	0.2	50	0	50
3.3.7	counter shunk nib bolt	8 mm	25	0.2	75	0	50
3.3.8	counter shunk nib bolt	10 mm	25	0.2	75	0	50
3.3.9	counter shunk nib bolt	12 mm	150	0.2	500	0	250
3.3.10	counter shunk nib bolt	16 mm	150	0.2	500	0	250
3.3.11	counter shunk nib bolt	20 mm	100	0.2	250	0	250
3.3.12	Spring washer	B20DIN 933-8.8	7	1	10	0	20
* Minimum Quantity -1							

BCM (RM80-92U)					MECHANICAL		
Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
3.3.13	Lock Washers	64.082035	425	0.2	1000	0	1125
3.3.14	Fixing pin	8X40DIN1481	425	0.2	1000	0	1125
3.4 SCREW							
3.4.1	Counter sanch screw with nut	M12X30DIN64-4.6	36	0.2	100	0	80
3.4.2	Screw	M12X40DIN603	3	0.2	10	0	10
3.4.3	Counter screw with nut	M12X40DIN604-4.6	15	0.1	50	0	100
3.4.4	Counter sanch screw with nut	M12X50DIN64-4.6	18	0.2	40	0	50
3.4.5	Counter screw with nut	M12X60DIN604-4.6	5	0.1	20	0	30
3.4.6	Counter screw with nut	M16X5DIN604-4.6	15	0.1	50	0	100
3.4.7	Counter screw with nut	M16X40DIN604-4.6	4	0.1	20	0	20
3.4.8	Counter screw with nut	M16X45DIN604-4.6	9	0.1	50	0	40
3.4.9	Counter screw with nut	M16X60DIN604-4.6	100	0.1	500	0	500
3.4.10	Counter screw with nut	M16X90DIN604-4.6	11	0.1	50	0	60
3.4.11	Counter screw 20x50 mm with nut	M20X50 MM WITH NUT	50	7 days	100	0	1100
3.4.12	Counter screw 20x80 mm with nut	M20X80 MM WITH NUT	50	7 days	100	0	1100
3.5 ROLLER							
3.5.1	Distribution belt roller	62.11.7000.39	12	2	0	0	6
3.5.2	Distribution belt roller	62.11.7000.42	20	2	0	0	10
3.5.3	Main conveyer belt roller	62.11.7000.45	14	2	0	0	7
3.5.4	Main conveyer belt roller	62.11.7000.49	87	2	10	0	34
3.5.5	Main conveyer belt roller	62.11.7000.51	25	2	0	0	13
3.6 RUBBER PAD							
3.6.1	Side rubber for conveyer belt	100 mmX10 mm thick	100	0.5	50	0	150
3.6.2	Side rubber for conveyer belt	150 mm wide X10 mmthick	100	0.5	50	0	150
3.7 SCREEN FLOOR							
3.7.1	Screen floor -1 st desk(MW-80)	64.09.5545	2	0.2	4	0	6
3.7.2	Screen floor -1 st desk(MW-80)	64.09.5546	1	0.2	2	0	3

BCM (RM80-92U)					MECHANICAL		
Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
3.7.3	Screen floor -1 st desk(MW-80)	64.09.5547	4	0.2	8	0	12
3.7.4	Screen floor -1 st desk(MW-80)	64.09.5548	2	0.2	4	0	6
3.7.5	Screen floor -2 nd desk(MW-50)	64.09.5554	4	0.2	8	0	12
3.7.6	Screen floor -2 nd desk(MW-50)	64.09.5555	2	0.2	4	0	6
3.7.7	Screen floor -2 nd desk(MW-50)	64.09.5562	1	0.2	2	0	3
3.7.8	Screen floor -2 nd desk (MW-50)	64.09.5563	1	0.2	2	0	3
3.7.9	Screen floor -2nd desk (MW-50)	64.09.5564	1	0.2	2	0	3
3.7.10	Screen floor -2nd desk (MW-50)	64.09.5565	1	0.2	2	0	3
3.7.11	Screen floor -3rd desk(MW-32)	64.09.5557	1	0.2	2	0	3
3.7.12	Screen floor -3rd desk(MW-32)	64.09.5556	1	0.2	2	0	3
3.7.13	Screen floor -3rd desk(MW-32)	64.09.5558	1	0.2	2	0	3
3.7.14	Screen floor -3rd desk(MW-32)	64.09.5566	2	0.2	4	0	6
3.7.15	Screen floor -3rd desk(MW-32)	64.09.5567	4	0.2	8	0	12
3.8 WEAR STRIP							
3.8.1	Wear strip	62.08.1299	1	0.2	2	0	3
3.8.2	Wear strip	62.08.1300	2	0.2	4	0	6
3.8.3	Wear strip	62.08.1301	1	0.2	2	0	3
3.8.4	Wear strip	64.08.1451	1	0.2	2	0	3
3.8.5	Wear strip	64.08.10093	1	0.2	2	0	3
3.8.6	Wear strip	62.08.1217-H5	1	0.2	2	0	3
3.8.7	Wear strip	62.08.1211	2	0.2	4	0	6
3.8.8	Wear strip	62.08.1214-H5	1	0.2	2	0	3
3.9 WEAR PLATE							
3.9.1	Wear plate	60.08.1032	5	0.2	10	0	15
3.9.2	Wear plate	64.08.1209	1	0.2	2	0	3
3.9.3	Wear plate	62.08.1215	5	0.2	10	0	15
3.9.4	Wear plate	62.08.1217	1	0.5	1	0	1

BCM (RM80-92U)					MECHANICAL		
SI.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
3.9.5	Wear plate	64.08.1369	1	0.5	1	0	1
3.9.6	Wear plate	64.08.10233	1	0.5	1	0	1
3.9.7	Wear plate	RM08B.27.0203	1	0.5	1	0	1
3.9.8	Wear plate	64.08.10089	1	0.5	1	0	1
3.9.9	Wear plate	RM08B.27.0205	1	0.5	1	0	1
3.9.10	Wear plate	RM08B.27.0206	1	0.5	1	0	1
3.9.11	Wear plate	64.08.10085	1	0.5	1	0	1
3.9.12	Wear plate	64.08.10087	1	0.5	1	0	1
3.9.13	Wear plate	64.08.10090	1	0.5	1	0	1
3.9.14	Wear plate	64.08.10249	1	0.5	1	0	1
3.9.15	Wear plate	RM08.12.0412	1	0.5	1	0	1
3.9.16	Wear plate	64.08.10231	1	0.5	1	0	1
3.9.17	Wear plate	64.08.10229-H5	1	0.5	1	0	1
3.9.18	Wear plate	64.08.10088-H5	1	0.5	1	0	1
3.9.19	Wear plate	64.08.10185-H5	1	0.5	1	0	1
3.9.20	Wear plate	64.08.10186	1	0.5	1	0	1
3.9.21	Wear plate	64.08.10182	5	0.5	4	2	4
3.9.22	Wear plate	RM08.12.0318	1	0.5	1	0	1
3.9.23	Wear plate	RM08.12.0319	1	0.5	1	0	1
3.9.24	Wear plate	64.08.10252	1	0.5	1	0	1
3.9.25	Wear plate	64.08.10250	1	0.5	1	0	1
3.9.26	Wear plate	64.08.10251	1	0.5	1	0	1
3.9.27	Wear plate	64.08.10188	1	0.5	1	0	1
3.9.28	Wear plate	64.08.10253	1	0.5	1	0	1
3.9.29	Wear plate	64.08.10243	1	0.5	1	0	1
3.9.30	Wear plate	64.08.10199-H5	1	0.5	1	0	1
3.9.31	Wear plate	64.08.10197-H5	1	0.5	1	0	1
3.9.32	Wear plate	64.08.10195	1	0.5	1	0	1
3.9.33	Wear plate	64.08.1637-H5	1	0.5	1	0	1

BCM (RM80-92U)					MECHANICAL		
SI.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
3.9.34	Wear plate	64.08.10180	1	0.5	1	0	1
3.9.35	Wear plate	64.08.10179	1	0.5	1	0	1
3.9.36	Wear plate	64.08.10268	1	0.5	1	0	1
3.9.37	Wear plate	64.08.10099	1	0.5	1	0	1
3.9.38	Wear plate	64.08.10269	1	0.5	1	0	1
3.9.39	Wear plate	64.08.10101	1	0.5	1	0	1
3.9.40	Wear plate	64.08.10112	1	0.5	1	0	1
3.9.41	Wear plate	64.08.10184	1	0.5	1	0	1
3.9.42	Wear plate	64.08.10110	1	0.5	1	0	1
3.9.43	Wear plate	64.08.10181	1	0.5	1	0	1
3.9.44	Wear plate	64.08.1617	1	0.2	2	0	3
3.9.45	Wear plate	64.08.1618	1	0.2	2	0	3
3.9.46	Wear plate	64.08.1619	3	0.2	5	0	10
3.9.47	Wear plate	64.08.1620	1	0.2	2	0	3
3.9.48	Wear plate	64.08.1623	2	0.2	4	0	6
3.9.49	Wear plate	64.08.1624	1	0.2	2	0	3
3.9.50	Wear plate	62.08.8032	2	0.3	3	0	4
3.10	BELT						
3.10.1	Main conveyer belt	64.11.1071	1	0.6	0	0	1
3.10.2	Vibrating conveyer belt (waste conveyer)	64.11.2666	1	1	0	0	1
3.10.3	Distribution conveyer belt	64.11.3855	2	0.6	1	0	2
3.11	OTHERS						
3.11.1	Coupling	64.02.2000.129 STKL	4	2	0	0	2
3.11.2	Coupling	64.02.2000.130 STKL	4	2	0	0	2
3.11.3	Pinion shaft	64.02.2105.00	4	4	0	0	2
3.11.4	Bush (drive axle)	64.02.2107.00	4	1	0	0	4
3.11.5	Intermediate link + main link (scraper shovel)	61.04.211	90NR	0.4	10	0	Complete chain set
3.11.6	Dredger drum disc	61.04.519	1	0.4	1	0	1

BCM (RM80-92U)					MECHANICAL		
Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
3.11.7	Cutter bar	RM.080.25.02150.1	1	0.2	2	0	3
3.11.8	Connecting elbow (LH)	62.08.1943	1	0.4	1	0	1
3.11.9	Connecting elbow (RH)	62.08.1973	1	0.4	1	0	1
3.11.10	Connecting elbow (LH)	62.08.1996	1	0.4	1	0	1
3.11.11	Connecting elbow (RH)	62.08.1007	1	0.4	1	0	1
3.11.12	Connecting elbow (LH)	62.08.10083	1	0.4	1	0	1
3.11.13	Connecting elbow (RH)	62.08.10084	1	0.4	1	0	1
3.11.14	Elbow Joint Descending Side R.H.S.Complete	64.08.1000.292	1	2	0	0	0.5*
3.11.15	Chain Guide Carrying Side	64.08.10261	1	3	0	0	0.3*
3.11.16	Protect Bar	64.08.10194	1	1	0	0	1
3.11.17	Protect Bar	64.08.10193	1	1	0	0	1
3.11.18	Chain Guidance Upper Section Carrying Side	64.08.10406	1	3	0	0	0.3*
3.11.19	Chain Guide Lower Part Empty Side	64.08.10267	1	3	0	0	0.3*
3.11.20	Cover Chain Guide Empty Side	64.08.1000.297	1	3	0	0	0.3*
3.11.21	Tensioning Cylinder	64.08.4000.04	1	3	0	0	0.3*
3.11.22	Corner Roller	64.08.5000.21	1	1	0	0	1
3.11.23	Corner Roller Bolt Top	64.08.5000.24	1	1.5	0	0	0.6*
3.11.24	Plough Blade	64.08.10245	1	1.5	0	0	0.6*
3.11.25	Slide Guide	64.08.10114	1	2	0	0	0.5*
3.11.26	Slide Strip	64.08.1961	4	2	0	1	1
3.11.27	Screw Bar	WN161-13.1X200-2	1	2	0	0	0.5*
3.11.28	Hinge	64.08.10277	1	2	0	0	0.5*
3.11.29	Deflector Plate	64.08.10005	1	2	0	0	0.5*
3.11.30	Flap	64.08.1960	1	2	0	0	0.5*
3.11.31	Round shaft chisel	64.08.2034	425	0.2	1000	0	1120
3.11.32	Scraper shovel	64.08.2038	85	0.2	200	0	225
3.11.33	Granule cartridge	4324069202	1	0.5	1	0	1
3.11.34	Brake shoe	WN146-900K-2	8	0.5	8	0	8
3.11.35	Rail clamp roller disc	DL-150-11	8	2	2	0	2
*Minimum Quantity 1							

BCM (RM80-92U)					ELECTRICAL & ELECTRONICS		
Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
4.1 SENSOR, TRANSDUCER. POTENTIOMETER AND LIGHT (ELECTRICAL & ELECTRONICS)							
4.1.1	SENSOR	AS1008-C-000	1				
4.1.2	Rolling transducer	ELT-750.000	1	3	0	0	1
4.1.3	Transducer	ELT-1041	1	3	0	0	1
4.1.4	Head light	LA020.04/M16	2	2	0	0	1
4.1.5	Lub. oil pressure sensor	46060008A	2	2	0	0	1
4.2 RELAY AND IC							
4.2.1	Relay	ELT-7010	4	4	2	0	0
4.2.2	Relay	ELT-7125	5	4	2	0	0
4.2.3	Relay	ELT-7045	40	4	4	0	0
4.2.4	Relay	ELT-1218S	110	2	10	0	0
4.2.5	Relay	RM732024	15	4	2	0	0
4.2.6	Relay socket/11POL	ZKR118	15	4	2	0	0
4.2.7	Time relay	ZR200041	9	4	2	0	0
4.2.8	Relay	331801300	2	4	2	0	0
4.3 PRINTED CIRCUIT BOARD							
4.3.1	Printed circuit board CPL	EK813SV002B	1	4	1	0	0
4.3.2	Light PCB	64.07.5000.158	2	6	1	0	0
4.4 FUSE							
4.4.1	Fuse (MCB) 5A	5X20/5A	15	6	2	0	0
4.4.2	Fuse (MCB) 8A	5X20/8A	15	6	2	0	0
4.4.3	Fuse (MCB) 10A	5X20/10A	10	10	2	0	0
4.4.4	Fuse (MCB) 15A	5X20/15A	15	10	2	0	0
4.4.5	Fuse (MCB) 25A	5X20/25A	15	10	2	0	0
4.4.6	Fuse	5X20/01,05AFLINK	12	-	2	0	0
4.4.7	Fuse	5X20/10AFLINK	15	-	2	0	0

BCM (RM80-92U)					ELECTRICAL & ELECTRONICS		
Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
4.4.8	Fuse	5X20/2AFLINK	15	-	2	0	0
4.4.9	Fuse	5X20/16AFLINK	15	-	2	0	0
4.4.10	Fuse	5X20/3,15AFLINK	15	-	2	0	0
4.4.11	Fuse	5X20/4AFLINK	15	-	2	0	0
4.4.12	Fuse	5X20/6AFLINK	15	-	2	0	0
4.4.13	Fuse	5X20/8AFLINK	30	-	4	0	0
4.5	OTHERS						
4.5.1	Alternator	0120689574	2	2	0	0	1
4.5.2	Circuit breaker	452K34FN2/100A	6	5	2	0	1
4.5.3	Push bottom switch	0882400	1	3	1	0	0
4.5.4	Oil pressure Switch	1180423	2	3	0	0	1
4.5.5	Switch	64.07.1000.54	8	4	0	0	1
4.5.6	Switch	64.07.1000.55	1	2	0	0	1
4.5.7	Dirt indicator	64.07.1000.269	1	2	0	0	1
4.5.8	Limit switch	ELT-198T	2	2	0	0	1
4.5.9	Plug (Plasser make)	ELT-7078	20	5	2	0	2
4.5.10	Switch (Joystick)	ELT-7190.22	17	4	2	0	2
4.5.11	Switch (Joystick)	ELT-7190.24	18	4	2	0	2
4.5.12	Proximity Switch	EL-T1455	4	4	0	0	1
4.5.13	Push bottom	ELT-7190.W353	12	4	1	0	2
4.5.14	Limit switch	TQ441.01	4	2	1	0	1
4.5.15	Battery	12V/230AH	4	2	1	0	1
4.5.16	Battery terminal +	52285082	4	1	2	0	2
4.5.17	Battery terminal -	52285083	4	1	2	0	2

BCM (RM80-92U)					Pneumatic		
Sl.No	Brief description	Part no.	Nos Per M/C	Life cycle in year	Requirement per m/c		
					SITE	STMD	ZTMD
5.1 PNEUMATIC VALVE (Pneumatic)							
5.1.1	Unloader valve	90201	1	2	0	0	0.5*
5.1.2	Relief valve	90202	2	2	0	0	1
5.1.3	Reducing valve	90188	6	2	1	0	2
5.1.4	Brake valve	90364	3	2	0	0	1
5.1.5	Safety valve	90204	4	2	1	0	1
5.1.6	Non return valve	90248	5	2	1	0	1
5.1.7	Solenoid valve	90345	1	2	0	0	0.5*
5.1.8	Valve	90344(90338/H)	2	2	0	0	1
5.1.9	Valve	90338	2	2	0	0	1
5.1.10	Drive brake valve	90366	1	2	0	0	0.5*
5.1.11	Suttle valve	90362	4	2	1	0	1
5.1.12	Safety valve	I79965/2080	2	3	1	0	0
5.2 PNEUMATIC CYLINDER							
5.2.1	Pn. Cylinder	PN1Z-G.35/12/50	2	5	0	0	0.4*
5.2.2	Pn. cylinder	PN2Z-G.50/16/100	2	5	0	0	0.4*
5.2.3	Brake cylinder	90226	3	5	0	0	0.6*
5.2.4	Brake cylinder seal	90226DS-BGS12”	3	3	1	0	0
5.3 OTHERS							
5.3.1	Air drier filter	90187B	2	1	0	0	1
5.3.2	Cooling coil	DL90.37	4	3	1	0	0
5.3.3	Water separator	90356	1	2	1	0	1
5.3.4	Pressure gauge	90283	1	5	0	0	0.2*
5.3.5	Pressure gauge	90284	1	5	0	0	0.2*
* 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 Spare Parts List for Ballast Cleaning Machine (Model- BCM RM 80-92U,Machine Sr.No.57088-57105 & 57165-57175)

RAILWAYS

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|----|---------------------------|-----------|
| 1. | Shri Prasanth kumar | SSE/TM/NR |
| 2. | Shri Mahesh Kumar | SSE/TM/NR |
| 3. | Shri Bhupendra | JE/TM/NR |
| 4. | Shri Udayveer Singh Meena | SSE/NCR |
| 5. | Shri Ashish Negi | SSE/NCR |

RDSO

- | | | |
|----|-----------------------------|-----------|
| 1. | Shri D S Prajapati | ARE/TM |
| 2. | Shri Ved Prakash Srivastava | SSE/TM |
| 3. | Shri D G Sharma | SSE/Civil |

05-08-2024