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TM/HM/BRM/Pt-IV

Date:.07.09.2020

- | | | |
|------|--|---|
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Detailed addresses are enclosed herewith.

विषय: बैलास्ट रेगुलेटिंग मशीन (क्रशॉ, मैटेक्श और पी०बी०र० 400आर) संशोधन-1 की क्रिटिकल स्पेयर्स पार्ट सूची।

Sub: Critical Spares Parts list for (Rev.1) for Ballast Regulating Machine (Kershwa, Metex and PBR 400R).

Ref: CE/TMC/Seminar held on 4th and 5th April 2019.

बैलास्ट रेगुलेटिंग मशीन (क्रशॉ, मैटेक्श और पी०बी०र०-400आर) संशोधन-1 के क्रिटिकल स्पेयर्स पार्ट सूची, ई.सी.आर. और एन.डब्ल्यू.आर.से प्राप्त सुझावों के आधार पर, मसौदा एवं अनंतिम क्रमशः पत्र सं टीएम/एचएम/1 दि 31.12.2019 द्वारा 30 दिनों के लिये, और पत्र सं टीएम/एचएम/बी०आर०एम०/पार्ट.IV दि 20.07.2020 द्वारा 15 दिनों के लिये जारी किया गया था परन्तु क्षेत्रिय रेलवे से कोई टिप्पणी प्राप्त नहीं हुई, अब क्रिटिकल स्पेयर्स पार्ट सूची को अंतिम रूप में तैयार किया गया 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/पुनरीक्षण बनाते समय सभी सावधानियों बरती गई हैं, फिर भी यदि कोई त्रुटि हो तो, कृपया अपने सुझावों/टिप्पणियों को ईमेल/फैक्स/पत्राचार द्वारा अधोहस्ताक्षरी को अवगत करायें।

Draft and provisional Critical Spares Parts list for Ballast Regulating Machine (Kershwa, Metex and PBR 400R) Rev-1 have been prepared based on suggestion of ECR and NWR, circulated vide letter no.TM/HM/1 dt.31-12-2019 for 30 days and letter no.TM/HM/BRM/pt.IV dt. 20-07-2020 for 15 days respectively, but no comments received from Zonal Railways. Now 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/fax/post.

E-mail Id- hmtmmrdso@gmail.com
DA: As above

Digitally signed by OM
PRAKASH
Date: Tue Sep 15 17:32:17 IST
2020
Reason: Approved

(ओम प्रकाश)
(Om Prakash)
निदेशक रेलपथ मशीन-III
Director Track Machine-III

I-मुख्य अभियन्ता (ट्रैक मशीन)

- 1.0 मध्य रेलवे, सीएसटी, मुम्बई-400001
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- 3.0 बड़ौदाहाउस, उत्तररेलवे, नयी दिल्ली-110001
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- 7.0 रेलनिलयम, दक्षिण मध्य रेलवे, सिकन्दराबाद-500371
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- 11.0 पूर्व मध्य रेलवे, हाजीपुर-844101
- 12.0 दक्षिणपश्चिमरेलवे, हुवली-580023
- 13.0 उत्तर मध्य रेलवे, इलाहाबाद-211015
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- 16.0 दक्षिणपूर्व मध्य रेलवे, बिलासपुर-495004

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NCR, Allahabad-211015

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INDIAN RAILWAY

CRITICAL SPARES OF TRACK MACHINE

Ballast Regulating Machine

(Metex)
Rev.-1

September-2020

RESERCH DESIGNS AND STANDARDS ORGANISATION
Manak Nagar, Lucknow-226011

PREFACE**INDEX**

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SITE - At machine

STMD - Satellite depot

ZTMD - Zonal depot

BRM-METEX

ENGINE

| S. No | Brief description | Part no. | Nos per M/C | Estt. life cycle in Yrs. | Requirement / Mc/year | | |
|-------|-------------------------------------|------------------------------------|-------------|--------------------------|-----------------------|--------|--------|
| | | | | | SITE | STMD | ZTMD |
| 1.0 | Cummins QSM 11C 360hp at @1800 rpm | | | | | | |
| 1.1 | Self Starter | 2871256 | 1 | 3 | 1 | 0 | 0 |
| 1.2 | Alternator | 3400698(DELCO REMY) | 1 | 3 | 0 | 0 | 0.3* |
| 1.3 | Lube Oil | 15W40 Blue Premium | 35 lts. | 0.2 | 300lts | 200lts | 200lts |
| 1.4 | V-belt | A.46 & A.58 | 2 | 0.5 | 2 | 0 | 2 |
| 1.5 | Lube Oil Filter | 4331005 | 1 | 0.2 | 2 | 1 | 2 |
| 1.6 | Engine Oil Filter | LF9080/2882094 | 1 | 0.2 | 2 | 1 | 2 |
| 1.7 | Fuel Filter | FS1080/3329289 | 1 | 0.2 | 2 | 1 | 2 |
| 1.8 | Fuel Water Separator filter | FS1976381 | 2 | 1 | 1 | 0 | 1 |
| 1.9 | Coolant Filter | 3100308 | 2 | 0.2 | 4 | 4 | 2 |
| 1.10 | Air Cleaner Element inner | AX100532 | 1 | 0.3 | 2 | 0 | 1 |
| 1.11 | Air Cleaner Element outer | 4924947/AF4553M | 1 | 0.5 | 1 | 0 | 1 |
| 1.12 | Lube Oil Pressure Gauge | 0-4 bar & 0-16 bar | 3 | 6 | 0 | 0 | 0.5* |
| 1.13 | Lube Oil Pressure Switch | A&M 102-1-01-2 | 1 | 6 | 0 | 0 | 0.2* |
| 1.14 | Temperature Relay Transducer | TU25-73010034-88-1 | 1 | 6 | 0 | 0 | 0.2* |
| 1.15 | Temperature Gauge | 0-120o | 1 | 6 | 0 | 0 | 0.2* |
| 1.16 | Pressure Transducer Relay | TU25-73010029-88 | 1 | 6 | 0 | 0 | 0.2* |
| 1.17 | Water Temperature gauge | PVA-20-B-120C-CB | 1 | 6 | 0 | 0 | 0.2* |
| 1.18 | Corrosion Inhibitor (Coolant) | 3167224 | 205 lts. | 0.5 | 100 | 100 | 210 |
| 1.19 | Shut down coil | 3076338 | 1 | 6 | 0 | 0 | 0.2* |
| 1.20 | Fuel Pump | 3090942 | 1 | 6 | 0 | 0 | 0.2* |
| 1.21 | Compressor | BB0.8/8-720,TU24.05.197.80 | 1 | 6 | 0 | 0 | 0.2* |
| 1.22 | Water discharge valve (Drain valve) | 4-15-1(CONU.165) TU24.05.424-88 | 2 | 6 | 0 | 0 | 0.4* |
| 1.23 | Exhaust manifold bend | 132.23 | 1 | 6 | 0 | 0 | 0.2* |

*Minimum Quantity 1

BRM-METEX

HYDRAULIC

| S. No | Brief description | Part no. | Nos per M/C | Estt. life cycle in Yrs. | Requirement / Mc/year | | |
|------------|---|---|-------------|--------------------------|-----------------------|------|------|
| | | | | | SITE | STMD | ZTMD |
| 2.1 | Pump | | | | | | |
| 2.1.1 | Pump(Operation System) N1 | 313.2.28.300.500.00T1 | 1 | 6 | 0 | 0 | 0.2* |
| 2.1.2 | Pump (Broom)N2 | 310.3.112.04.06T1 | 1 | 6 | 0 | 0 | 0.2* |
| 2.1.3 | Pump (Working movement) N3 | 310.3.112.03.06T1 | 1 | 6 | 0 | 0 | 0.2* |
| 2.1.4 | Pump (cooler Fan and Conveyor) N4 & N5 | 310.2.28.06.05T1 | 2 | 6 | 0 | 0 | 0.3* |
| 2.2 | Motor | | | | | | |
| 2.2.1 | Motor (Working movement) M1 | 303.3160.22.003.T1 TU22-1.020-100-95 | 2 | 6 | 0 | 0 | 0.3* |
| 2.2.2 | Motor (Cross conveyor with side boards) | MT 160.151B300 | 3 | 6 | 0 | 0 | 0.5* |
| 2.2.3 | Motor (conveyor Pick up) | MS 80.151F0500 | 2 | 6 | 0 | 0 | 0.3* |
| 2.2.4 | Motor (Broom pick up) | MT 500.151B3005 | 1 | 6 | 0 | 0 | 0.2* |
| 2.2.5 | Motor (Decline conveyor) | MT 200.151B3001 | 1 | 6 | 0 | 0 | 0.2* |
| 2.2.6 | Motor (Cooling fan) | 310.2.28.01.03T1 | 1 | 6 | 0 | 0 | 0.2* |
| 2.2.7 | Motor (Broom) | OMP 200.1515056 | 1 | 6 | 0 | 0 | 0.2* |
| 2.3 | Hydraulic Cylinder | | | | | | |
| 2.3.1 | Cylinder (lifting lowering of Wing) | 01-80-40x320 | 1 | 6 | 0 | 0 | 0.2* |
| 2.3.2 | Cylinder (Turn of after plough) | 1023.07.62.000-05 | 10 | 6 | 1 | 0 | 0.6* |
| 2.3.3 | Cylinder (lifting lowering of Broom) | HC.1023.07.62.000-06 | 2 | 6 | 0 | 0 | 0.3* |
| 2.3.4 | Cylinder (Turn of body) | HC.1023.07-62.000-09 | 5 | 6 | 0 | 0 | 0.8* |
| 2.3.5 | Cylinder (Turn of after plough) | 1023.06.62.000-05 | 3 | 6 | 0 | 0 | 0.5* |
| 2.3.6 | Cylinder (Turn of Boom) | HC.1023.07.62.000-07 | 2 | 6 | 0 | 0 | 0.3* |
| 2.3.7 | Cylinder (Additional turn of Wings) | 127.43.11.000 | 2 | 6 | 0 | 0 | 0.3* |
| 2.3.8 | Cylinder (Lifting lowering of boards) | 1023.06.62.000-02 | 2 | 6 | 0 | 0 | 0.3* |

*Minimum Quantity 1

BRM-METEX

HYDRAULIC

| S. No | Brief description | Part no. | Nos per M/C | Estt. life cycle in Yrs. | Requirement / Mc/year | | |
|------------|--|-----------------------------------|-------------|--------------------------|-----------------------|------|------|
| | | | | | SITE | STMD | ZTMD |
| 2.4 | Filter | | | | | | |
| 2.4.1 | Pressure Line Filter | D112F 10V | 1 | 0.3 | 2 | 0 | 1 |
| 2.4.2 | Return Line Filter | RSC-410-F8I/R-740 G25 | 1 | 0.3 | 2 | 1 | 1 |
| 2.5 | Valve | | | | | | |
| 2.5.1 | Control valve | KV4/3-5KO-10 G6 | 5 | 6 | 0 | 0 | 0.8* |
| 2.5.2 | Control valve | KV-4/2-5KO-10-G51A | 2 | 6 | 0 | 0 | 0.3* |
| 2.5.3 | Control valve | KV-4/3-5KO-6-G6 | 33 | 6 | 3 | 1 | 2 |
| 2.5.4 | Control valve | KV-4/2-5KO-6-G51A | 5 | 6 | 0 | 0 | 0.8* |
| 2.5.5 | Control valve (work drive) | WK 06.306. 21/042.12/306. 21.0 | 3 | 6 | 0 | 0 | 0.5* |
| 2.6 | Hoses | | | | | | |
| 2.6.1 | Hose Assembly B/E 9/16 UNF FE.ST. | 02-4 L-3-25 M | 6 | 6 | 0 | 0 | 1 |
| 2.6.2 | Hose Assembly B/E 9/16 UNF F/ST. | R2-04, L=1000MM | 4 | 6 | 0 | 0 | 0.6* |
| 2.6.3 | Hose Pipe | SAE100R2-20 | 25 | 6 | 2 | 1 | 2 |
| 2.6.4 | Hose Pipe (WP.4250 PSI & BP 14000 PSI) | SAE100R2-8 | 21 | 6 | 1 | 1 | 2 |
| 2.6.5 | Hose Pipe | SAE100R2AT-4 (DASH NO.-4) | 88 | 6 | 5 | 5 | 5 |
| 2.6.6 | Hose Pipe | SAE100R2AT-4 (DASH NO.-4) | 14 | 6 | 1 | 0 | 2 |
| 2.6.7 | Hose Pipe | SAE100R9-16 (DASH NO.-16) | 8 | 6 | 1 | 0 | 1 |
| 2.6.8 | Hydraulic Pressure Pipe WP-155 BAR | SAE 100R2AT-20 | 3 | 6 | 1 | 0 | 0 |
| 2.6.9 | Extra High Pressure Hose | 4SH-20 | 2 | 6 | 1 | 0 | 0 |
| 2.7 | Others | | | | | | |
| 2.7.1 | Seal Kit | RU1023.7.62.000.05 | 20 | 0.3 | 3 | 1 | 3 |
| 2.7.2 | Piston Seal | 80 x6.3 | 10 | 0.5 | 5 | 5 | 10 |
| 2.7.3 | Seal set for body fixing hyd. cylinder | ..... | 4 | 6 | 0 | 0 | 0.6* |

*Minimum Quantity 1

BRM-METEX

HYDRAULIC

| S. No | Brief description | Part no. | Nos per M/C | Estt. life cycle in Yrs. | Requirement / Mc/year | | |
|--------|---------------------------------------|---------------------|-------------|--------------------------|-----------------------|--------|--------|
| | | | | | SITE | STMD | ZTMD |
| 2.7.4 | Oil Cooler | 13 n 100.00.000-06 | 2 | 6 | 0 | 0 | 0.3* |
| 2.7.5 | Transmission Oil | HLP.32 | 30 lit. | 0.5 | 40 lit. | 10 lit | 10 lit |
| 2.7.6 | Block control unit | ..... | 2 | 6 | 0 | 0 | 0.3* |
| 2.7.7 | Stop block | ..... | 2 | 6 | 0 | 0 | 0.3* |
| 2.7.8 | Fork of pump drive gear box | ..... | 1 | 4 | 0 | 0 | 0.2* |
| 2.7.9 | Coupling of pump drive gear box | ..... | 1 | 4 | 0 | 0 | 0.2* |
| 2.7.10 | Hydraulic cylinder for lateral plough | HC1023.07.62.000-07 | 2 | 6 | 0 | 0 | 0.3* |
| 2.7.11 | Body fixing cylinder | 127.43.11.000 | 2 | 6 | 0 | 0 | 0.3* |
| 2.7.12 | Pilot operated check valve | G3M6/3M04 | 2 | 6 | 0 | 0 | 0.3* |

*Minimum Quantity 1

BRM-METEX

MECHANICAL

| S. No | Brief description | Part no. | Nos per M/C | Estt. life cycle in Yrs. | Requirement / Mc/year | | |
|------------|---|------------------------|-------------|--------------------------|-----------------------|------|------|
| | | | | | SITE | STMD | ZTMD |
| 3.1 | WEAR PLATE | | | | | | |
| 3.1.1 | Plate Wear | 62.08.1215 | 3 | 1 | 1 | 1 | 1 |
| 3.1.2 | Plate Wear | 62.08.1216 | 2 | 1 | 1 | 0 | 1 |
| 3.1.3 | Plate Wear | 62.08.1299 | 5 | 1 | 2 | 1 | 2 |
| 3.1.4 | Plate Wear | 64.08.1300 | 2 | 1 | 1 | 0 | 1 |
| 3.1.5 | Plate Wear | 62.08.1369 | 2 | 1 | 1 | 0 | 1 |
| 3.1.6 | Strip Wear | 64.08.1217 | 4 | 1 | 2 | 1 | 2 |
| 3.2 | NUTS& BOLTS | | | | | | |
| 3.2.1 | Nut Nylock | 8 MM | 56 | 6 | 5 | 0 | 5 |
| 3.2.2 | Bolt CSK NIT With Nut | 12x60mmPitch1.75mm | 30 | 3 | 5 | 0 | 5 |
| 3.2.3 | Bolt CSK NIB With Nut | 12x90mmPitch1.75mm | 22 | 6 | 2 | 0 | 2 |
| 3.2.4 | Bolt CSK NIB With Nut | 12x50mmPitch1.75mm | 30 | 6 | 2 | 1 | 2 |
| 3.2.5 | Bolt CSK NIB With Nut | 12x70mmPitch1.75mm | 40 | 6 | 3 | 1 | 3 |
| 3.2.6 | Bolt CSK NIB With Nut | 10x55mm | 20 | 6 | 2 | 1 | 2 |
| 3.2.7 | Bolt Allen | 5x50 mm | 15 | 6 | 1 | 0 | 2 |
| 3.2.8 | Central plough roller | ..... | 2 | 1 | 2 | 0 | 0 |
| 3.2.9 | Compensator | PRSM-3.35.00.060.SB | 1 | 2 | 0 | 0 | 0.5* |
| 3.2.10 | Stud for hyd.con valve | ..... | 1 | 2 | 0 | 0 | 0.5* |
| 3.2.11 | Meggi spring | 7320734 M.63 | 16 | 6 | 0 | 0 | 4 |
| 3.2.12 | Brake Shoe | 64.02.3019 | 16 | 0.5 | 16 | 8 | 8 |
| 3.2.13 | Bucket G. 1 12" DIA | PL 74-10-1006 | 2 | 2 | 1 | 0 | 1 |
| 3.2.14 | Roller (Centre Plough) | ..... | 4 | 2 | 1 | 0 | 1 |
| 3.2.15 | Conveyor Belt | ..... | 1 | 2 | 0 | 0 | 0.5* |
| 3.2.16 | Auxiliary brake valve | 254-1T3 TU24.05.424-88 | 1 | 6 | 0 | 0 | 0.2* |
| 3.2.17 | Ideal run valve | 541 TU34.04.770-77 | 1 | 6 | 0 | 0 | 0.2* |
| 3.2.18 | Brake cylinder connecting sleeve(Hose pipe) | P21G05T2593-82 | 4 | 2 | 1 | 0 | 1 |

*Minimum Quantity 1

BRM-METEX

MECHANICAL

| S. No | Brief description | Part no. | Nos per M/C | Estt. life cycle in Yrs. | Requirement / Mc/year | | |
|-------------|-------------------|----------------|-------------|--------------------------|-----------------------|------|------|
| | | | | | SITE | STMD | ZTMD |
| 3.3 O-RING | | | | | | | |
| 3.3.1 | O-RING | 009-012-19-2-2 | 20 | 2 | 3 | 2 | 5 |
| 3.3.2 | O-RING | 015-019-25-2-2 | 5 | 2 | 1 | 0 | 1 |
| 3.3.3 | O-RING | 008-012-25-2-2 | 2 | 2 | 1 | 0 | 0 |
| 3.3.4 | O-RING | 016-020-23-2-2 | 8 | 2 | 2 | 0 | 2 |
| 3.4 PIN | | | | | | | |
| 3.4.1 | Pin | ..... | 1 | 2 | 0 | 0 | 0.5* |
| 3.4.2 | Penion | ..... | 2 | 2 | 1 | 0 | 1 |
| 3.4.3 | Split pin | ..... | 4 | 2 | 2 | 0 | 0 |
| 3.5 Bearing | | | | | | | |
| 3.5.1 | Bearing | 22308Q | 4 | 2 | 1 | 0 | 1 |
| 3.5.2 | Rocker Bearing | G - 35 | 1 | 2 | 0 | 0 | 0.5* |
| 3.5.3 | Wheel Bearing | 6222 | 10 | 2 | 2 | 1 | 2 |

BRM-METEX

ELECTRICAL

| S. No | Brief description | Part no. | Nos per M/C | Estt. life cycle in Yrs. | Requirement / Mc/year | | |
|-------|---|-------------------------------|-------------|--------------------------|-----------------------|------|------|
| | | | | | SITE | STMD | ZTMD |
| 4.1 | Four Way Joystick | ELT.1058.14 | 4 | 6 | 0 | 0 | 0.6* |
| 4.2 | Diode | ..... | 1 | 6 | 0 | 0 | 0.2* |
| 4.3 | Plug | UF EL 302651.004 | 4 | 6 | 0 | 0 | 0.6* |
| 4.4 | Connector Solenoid Adopter (Plug) | ELT.7078 SUB | 12 | 6 | 2 | 0 | 0 |
| 4.5 | Adaptor Union | 202712.20.20 | 2 | 6 | 0 | 0 | 0.3* |
| 4.6 | Connector | ELT .272SA (Female) | 5 | 6 | 0 | 0 | 0.8* |
| 4.7 | Rope wire 18mm steel core 6/36 strand one end braided | 18mm | 210 | 6 | 15 | 10 | 30 |
| 4.8 | Rope wire 20mm steel core 6/36 strand one end braided | 20mm | 10 | 6 | 1 | 0 | 1 |
| 4.9 | Cable Flexible copper wire | 27 core size 105 SQ | 16 | 6 | 1 | 0 | 2 |
| 4.10 | Module electronic control | 4309175 NX | 1 | 6 | 0 | 0 | 0.2* |
| 4.11 | 24V Head Light | ..... | 2 | 6 | 0 | 0 | 0.3* |
| 4.12 | Fuses | ..... | 8 | .... | 2 | 2 | 4 |
| 4.13 | Relay | PHE-44,24V TU16-523.583-80 | - | 6 | 0 | 0 | 0.2* |
| 4.14 | Joystick- Mainpulator | XD4PA24 | 2 | 6 | 0 | 0 | 0.3* |
| 4.15 | Limit switch | VP15E.21B221-54T2.8 | 2 | 6 | 0 | 0 | 0.3* |
| 4.16 | Limit switch | VP156215221-54U2.8 | 2 | 6 | 0 | 0 | 0.3* |
| 4.17 | Limit switch | 55-319A-75B/02 | 1 | 6 | 0 | 0 | 0.2* |
| 4.18 | Limit switch | VP15E | 2 | 6 | 0 | 0 | 0.3* |

*Minimum Quantity 1

BRM-METEX

PNEUMATIC

| S. No | Brief description | Part no. | Nos per M/C | Estt. life cycle in Yrs. | Requirement / Mc/year | | |
|-------|-----------------------------------|-----------------------------|-------------|--------------------------|-----------------------|------|------|
| | | | | | SITE | STMD | ZTMD |
| 5.1 | Pneumatic Cylinder | D-50mm S-500mm | 6 | 6 | 1 | 0 | 0 |
| 5.2 | Braking Cylinder | NP 533 GOST P 52392-2005 | 4 | 6 | 0 | 0 | 0.6* |
| 5.3 | Pneumatic Valve | A53014 | 9 | 6 | 1 | 0 | 1 |
| 5.4 | Pneumatic Valve | 90344/90338H | 2 | 6 | 0 | 0 | 0.3* |
| 5.5 | Accumulator | TU2-053-1782- 86E | 1 | 6 | 0 | 0 | 0.2* |
| 5.6 | Seal Kit | ..... | 2 | 1 | 1 | 0 | 1 |
| 5.7 | Pressure Regulator Valve | ..... | 1 | 3 | 0 | 0 | 0.3* |
| 5.8 | Connection Tube | ..... | 8 | 2 | 1 | 1 | 2 |
| 5.9 | Air Dryer Cartridge | ..... | 2 | 0.5 | 2 | 0 | 2 |
| 5.10 | Air Dryer | ..... | 1 | 6 | 0 | 0 | 0.2* |
| 5.11 | Cooling Device | ..... | 1 | 6 | 0 | 0 | 0.2* |
| 5.12 | Regulator | ..... | 6 | 6 | 0 | 0 | 1 |
| 5.13 | Container | ..... | 4 | 6 | 0 | 0 | 0.6* |
| 5.14 | Air Horn Connection (Hose Pipe) | ..... | 1 | 6 | 0 | 0 | 0.2* |
| 5.15 | Jubilee Clamp Off Sizes | ..... | 50 | 2 | 15 | 10 | 0 |
| 5.16 | Air Horn Connection (Hose Pipe) | ..... | 1 | 6 | 0 | 0 | 0.2* |
| 5.17 | Brake Box To Silencer (Hose Pipe) | ..... | 3 | 6 | 0 | 0 | 0.5* |
| 5.18 | Electromagnetic Pneumatic valve | BB-32Y3 TU16- 529.361.77 | 6 | 6 | 0 | 0 | 1 |
| 5.19 | Electro Pneumatic valve | BB-32111 | 6 | 6 | 0 | 0 | 1 |

*Minimum Quantity 1

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

ACKNOWLEDGEMENT

Following officer and staffs have made their valuable contributions in finalization of the Critical Spare Parts list (Rev.-1) for Ballast Regulating Machine (METEX).

Railways N.W. Railway

RDSO:-

- | | | | |
|----|------|------------------------|--------|
| 1. | Shri | Muslim Ahmad | ARE/TM |
| 2. | Shri | Ved Prakash Srivastava | SSE/TM |