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भारत सरकार-रेलमंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ-226 011
Government of India - Ministry of Railways
Research Designs & Standards Organization
LUCKNOW - 226 011

Om Prakash Kesari
Executive Director Standards Electrical/Co-Ord

D.O.No.EL.8.5.10.1

Date: 06.10.2016

Dear Shri A. K. Kapoor,

Sub: PCDO for the month of September, 2016

1.0 HIGHLIGHTS

1.1 61st Electrical Standards Committee Meeting

61st Electrical Standards Committee (ESC) Meeting was held at Gangtok on 16th and 17th September 2016. In this meeting member traction gave useful guideline to CEEs for improving the performance of electrical assets and future developments.

1.2 Investigation of Microprocessor Based Fault Diagnostic System(MPCS)

An investigation report No. RDSO/2016/EL/IR/0175, Rev.'0' on Microprocessor based Fault Diagnostic System (MPCS) had been prepared and issued vide letter No. EL/4.2.15 dated 12.09.2016. This report was released by MTR during 61st ESC meeting at Gangtok on 16.09.2016.

1.3 Finite Element Analysis (FEA) of Tractive Effort Transmission System

Finite Element Analysis (FEA) of Tractive Effort Transmission System for Three Phase Locomotive WAG9H has been carried out with the help of TCS and Technical report No. RDSO/2016/EL/IR/174, Rev.'0' has been issued. This report was released by MTR during 61st ESC meeting at Gangtok on 16.09.2016.

1.4 Special Maintenance Instruction for 1750 LPM Compressor

The Special Maintenance Instruction Sheet no RDSO/2016/EL/SMI/0296 (Rev 0) dated 02.09.2016 for standardization of schedule maintenance practices for 1750 LPM capacity lubricated reciprocating compressor for electric locomotive has been issued and uploaded in RDSO web site vide RDSO letter no EL/3.2.15/3-phase dated 02.09.2016.

1.5 Technical audit of ELS/HWH for maintenance of traction motors

Technical audit of maintenance practices of ELS/HWH for traction motors had been carried out by RDSO from 28.07.2016 to 29.07.2016. Technical audit report No. RDSO/2016/EL/TAR/0010 Rev '0' comprising observations and recommendations for maintenance practices of traction motors has been prepared and circulated to Railways vide letter No. EL/1.3.10/3 dated 02.09.2016.

1.6 Technical audit of ELS/Ajni for maintenance of traction motors

Technical audit of maintenance practices of ELS/Ajni for traction motors had been carried out by RDSO on 08.09.2016. Technical audit report No. RDSO/2016/EL/TAR/0011 Rev '0' comprising observations and recommendations for maintenance practices of traction motors has been prepared and circulated to Railways vide letter No. EL/1.3.10/3 dated 27.09.2016.

1.7 Meeting on review of Hitachi Motor Suspension Unit (MSU)

Meeting on review of Material & specification of Hitachi Motor Suspension Unit (MSU) had been held at RDSO on 29.09.2016. Representatives of Railways (ELW/BSL, KPA/ER Workshop, Dahod Workshop & CLW) and approved sources had participated. Present failures of MSUs on conventional & 3-Ph locos have been deliberated in the meeting. ELW/BSL has given some suggestion for improvements in the existing Hitachi MSU. M/s Kay PEE & M/s KMRI had been advised to jointly carry out the FEA analysis. Minutes of the meeting had been issued vide letter No. EL/1.3.10/3 dated 30.09.2016.

1.8 Reduction of Break Cylinder Pressure of WAG-7 & WAG-5 Locomotives

The break cylinder (BC) pressure on WAG-7 & WAG-5 class of electric locomotive on automatic brake application (A-9) has been reduced from 1.8 kg/cm² to 1.4 kg/cm². In this regards RDSO issued instruction to railways vide letter no EL/3.2.19/ G dated 26.09.2016.

2.0 RELIABILITY IMPROVEMENT MEASURES:

2.1 Workshop on Ultrasonic Testing (UST) of Electric Locomotive Axles

A workshop on ultrasonic testing (UST) of electric locomotive axles as per RDSO's Technical Circular No. TC No. 0047 (Rev. 02) was conducted for HWH, BNDM, TATA, ANGL, ASN, SRC, BKSC & GMO sheds at ELS/HWH, GZB, TKD, LDH, CNB, JHS, BRC, MGS, BL at ELS/GZB, AQ, KYN, BSL, ET, BIA, NKJ at ELS/AQ and RPM, ED, AJJ, BZA, LGDKZJ, WAT at ELS/RPM by RDSO. Based on workshops, guidelines have been issued to Zonal Railways.

2.2 Meeting to Review Performance of 180 KVA Static Converter

A performance review meeting with M/s. Hind Rectifier on 180 KVA Static converter has been organized at RDSO / LKO along with the representative of N C Railway on 20.09.2016 and the minutes has been issued vide this office letter no EL/1.2.9.1/ Hind dated 20.09.2016.

3.0 PROTOTYPE TESTING/QUALITY AUDIT

3.1 Type Test of M/S BTIPL, Make VCB

Consistency type testing of M/s BTIPL, Vadodara make VCB type BVAC 25.10.M07 has been carried out and witnessed by RDSO representative at firm's works on 29th and 30th Sept. 2016.

3.2 Prototype Test of Suspension Bearings

Prototype testing of 6 sets of Suspension bearings(PE: 547733 & CE: 547734) for Hitachi/Tao-659 traction motors manufactured by M/s FAG Bearings India Limited, Savli Plant, Vadodara was carried out at firm premises by RDSO. Based on the satisfactory type test results, the six sets of prototype units of bearings have been cleared for fitment at Central Railway and service trial for 6 months vide RDSO letter No. EL/1.3.10/FAG/MSU Hitachi dated 28.09.2016.

Similarly Prototype testing of 6 sets of Suspension bearings (NU1964 & NH1044) for WAG9/WAP7 manufactured by M/s SKF Technologies(India) Pvt. Ltd., Ahmedabad was carried out at firm premises by RDSO. Based on the satisfactory type test results, the six sets of prototype units of bearings have been cleared for fitment at CLW and service trial for 6 months vide RDSO letter No. EL/1.3.10/SKF/NU1964 dated 30.09.2016.

3.3 Prototype Test of 3-Phase Traction Motor

Proto type testing of 3-Ph traction motor type TME 45-40-4 manufactured by M/s Medha for Kolkata Metro Railway had been conducted as per approved type test plan Doc. No. MTEPL/TYP/KM/TM/01, Rev.02 from 31.08.2016 to 08.09.2016 at their Works at Hyderabad. Type tests results are under examination.

3.4 Quality Audit of M/s Intek Tape for Polyimide Adhesive Tape

Quality Audit of M/s Intek Tape Pvt.Ltd./Bangalore Part-I source for manufacturing & supply of Polyimide Adhesive Tape for traction motors of conventional electric Locos had been carried out on 09/11.07.2016. Quality audit report has been issued vide letter No. EL/2.2.8/Hitachi dated 02.09.2016.

Similarly Quality Audit of M/s Technova Tapes(India) Pvt. Ltd., Bangalore, Part-II source for manufacturing & supply of Polyimide Adhesive Tapes for traction motors of conventional electric Locos had been carried out on 12/13.07.2016. Quality audit report has been issued vide letter No. EL/2.2.8/Hitachi dated 23.09.2016.

4.0 SPECIFICATION/STR:

4.1 Specification for Motorized Bogie for 3-Phase Electric Locomotives

RDSO's Specification No. RDSO/2016/EL/SPEC/0124 (Rev '0') for procurement for motorized bogie for 3-phase electric locomotives (WAP5/WAP7/WAG9) has been prepared and issued to Zonal Railways.

4.2 STR for Manufacturing of 25 KV Single Bottle VCB

Draft STR no. RDSO/ 2016/ EL/ STR/ 00....., Rev. '0' on Manufacturing/ Repair/ Rehabilitation of 25 KV Single Bottle VCB for Electric locomotives/ EMUs/ MEMUs has been prepared and uploaded on RDSO's website <http://www.rdsso.indianrailways.gov.in/> under tab "Specs / STR for comments". Draft STR has been uploaded from 25.09.2016 to 24.10.2016.

5.0 DEVELOPMENTAL ACTIVITIES:

5.1 Up gradation of M/s Air Control & Chemical Engg. Co. Limited

M/s Air Control & Chemical Engg. Co. Limited, Ahmedabad accorded with Part I approval for manufacturing & supply of Oil cooling Unit for Transformer/Converter with impeller & casing vide this office letter no. EL/3.2.176/2 (ACCEL) dated 05.09.2016.

5.2 Up Gradation The Status of M/S. Concept Rail Engineers

Consequent upon the compliance for procedure for up gradation the Status of M/s. Concept Rail Engineers Pvt. Ltd / Kolkata has been upgraded from part II to part I on pantograph type EL-01 and type EL-01E for 25 KVA freight electric locomotive and EMU/MEMU respectively. The up-gradation letter issued vide RDSO letter no EL/2.2.1/ Concept dated 14.09.2016.

5.3 Up Gradation The Status of M/S. Knorr- Bremse

Consequent upon the compliance for procedure for up gradation the Status of M/s. Knorr- Bremse India Pvt. Ltd / Palwal has been upgraded from part II to part I on oil free compressor of 1750 LPM capacity model no V V 270 T for 3 phase & WAP-4 type Electric locomotive. The up-gradation letter issued vide RDSO letter no EL/3.2.15/ Oil free dated 20.09.2016.

5.4 Up Gradation of M/s Narmada Equipments Pvt. Ltd.

On complying with the requirements for up-gradation from part-II to part-I category, M/s Narmada Equipments Pvt. Ltd., Bhopal has been up-graded from Part-II to Part-I category in Master list of approved vendors of electrical items for manufacturing and supply of Magnet Frames and its assembly components for Hitach Traction Motors vide RDSO letter No. EL/3.2.172/1 dated 22.09.2016.

5.5 Capacity Assessment of M/s Stone India Limited

RDSO representative carried out the capacity assessment of M/s Stone India Limited, Kolkata from 28.09.16 to 29.09.16 for manufacturing & supply of ESMON for Electric Locomotives.

5.6 Capacity Assessment of M/s Simplex Engg. & Foundry Works

Capacity assessment of M/s Simplex Engg. & Foundry Works Pvt. Ltd., Bhilai for suspension tube & its assembly components for 3-Ph traction motor type 6FRA 6068 & Assembly components(stator chamber, end frame & Labyrinths) for Traction motor type 6FRA 6068 have been conducted on 02.09.2016. Assessment report is under preparation.

6.0 OTHER ACTIVITIES:

6.1 Design clearance of M/s Dalian Locomotive

Design document & Type test procedure of traction motor of M/s Toshiba for IGBT based 3 phase drive propulsion of Metro Railway, Kolkata submitted by M/s Dalian Locomotive, China against contract specification No. No.RDSO/PE/SPEC/EMU/0030-2003(Rev.1) of April 2009 has been examined. Comments have been given vide RDSO note No. EL/3.2.182/KM/30(Dalian) date.30.09.2016.

6.2 Fresh Vendor Registration Application during September '2016

Group	No. of Online Application received	No. of Application registered after fee verification	No. of application where query raised	No. of application rejected due to deficiencies
SE&AM	1	1	--	---
SEE	1	0	1	0
DSE/TM	6	4	2	0
Total	8	5	3	0

with regards,

ओमप्रकाश 06.10.16
(Om Prakash Kesari)

SHRI A.K. KAPOOR,
MEMBER TRACTION,
RAILWAY BOARD, RAIL BHAVAN,
NEW DELHI-110 001

Copy to-

1. Additional Member (Electrical),)
Railway Board, Rail Bhawan,)
New Delhi.)
2. Secy to DG/RDSO)

for kind information

ओमप्रकाश 06.10.16
(Om Prakash Kesari)

For Director General/ Electrical