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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 : 08.11.2016

Sub: PCDO for the month of October, 2016

1.0 HIGHLIGHTS

1.1 Special Maintenance Instruction for annual maintenance contract (AMC) for 1750 LPM capacity lubricated compressor

The Special Maintenance Instruction Sheet no RDSO/2016/EL/SMI/0299 (Rev 0) dated 05.10.2016 for technical scope of work for annual maintenance contract (AMC) for 1750 LPM capacity lubricated reciprocating compressor for electric locomotive has been issued and vide RDSO letter no EL/3.2.15/3-phase dated 05.10.2016

1.2 Special Maintenance Instruction for annual maintenance contract (AMC) for brake System

The Special Maintenance Instruction Sheet no RDSO/2016/EL/SMI/0298 (Rev 0) dated 06.10.2016 for technical scope of work for annual maintenance contract (AMC) for brake system fitted in 3 phase electric locomotives vide RDSO letter no EL/3.2.19/3-phase dated 06.10.2016.

1.3 Specification for 'Oil Cooling Unit with Casing

The Specification no: RDSO/2016/EL/SPEC/0123 effective from 05/10/2016 for 'Oil Cooling Unit with Casing for Transformer/Converter of Three Phase Locomotives' has been issued vide letter no. EL/3.2.176/2 dated 05/10/2016. With this specification only centrifugal design blowers, which are technically superior, will remain in service. This avoids multiplicity in design.

1.4 Revision of maintenance schedule of Locomotives

In compliance to Railway Board decisions on recommendations of 61st ESC, the maintenance schedule of WAG5 with TAOchi motor for passenger service, WAP4, WAG9 and WAP7 locomotives including TOH have been revised & communicated to Railways vide this office letter no. EL/3.6.1/1, dated 19.10.2016.

1.5 Technical Report on Failure of valve sets

In order to enable zonal railways for proper failure investigation and maintenance of valve sets of GTO based convertors, a technical report no. RDSO/2016/EL/IR/176 has been issued and uploaded on RDSO website.

2.0 RELIABILITY IMPROVEMENT

2.1 Meeting for development of composite brake blocks

A meeting has been conducted at RDSO on 07.10.2016 with manufactures of 'L' type composite brake block to discuss the investigation into the failures reported by zonal Railways and decide action plan for successful development of brake block for WAG9/WDP1 loco and redressal of problem of crack of brake block on Electric locomotives.

2.2 Reliability improvement of single bottle VCB of M/s SEIL:

A meeting on the reliability improvement of single bottle VCB type 22CB manufactured by M/s Schneider Electric, Vadodara was held at RDSO, Lucknow on dated 14.10.2016. The MOM containing various issues discussed in the meeting has been circulated vide this office letter no. EL/3.2.61 dated 18.10.2016.

2.3 Test protocol for measurements on suspension tube

M/s BHEL's Test protocol no. TM20186 Rev'04 has been approved for carrying out instrumented trial for onsite measurement of strain/stress and acceleration/ shock on Suspension Tube and Traction Motor type 3701 BY/BX for Metro Railway, Kolkata vide RDSO's letter no. EL/4.3.42 (Metro) dated 26.10.2016.

2.4 Reliability Action Plan (RAP) for three phase Locomotives

Reliability Action Plan (RAP) for three phase locomotives is being monitored for its early implementation. Current status of the activities of RAP is enclosed as Annexure 'A'.

3.0 PROTOTYPE TESTING/QUALITY AUDIT

3.1 The Quality audit for manufacturing and supply of 180 KVA Static Converter

The Quality audit for manufacturing and supply of 180 KVA Static Converter for conventional electric locomotive of M/s. Medha Servo Drive / Hyderabad has been carried out as per RDSO specification no. ELRS/SPEC/SI/0018 Rev 1 and RDSO standardization letter no EL/1.2.9.1 dated 23.07.2009 at firm's premises. The Quality audit report has been studied by this office and renewed for another 03 years. The renewal letter has been issued to M/s. Medha Servo Drive / Hyderabad vide RDSO letter no EL 1.2.9.1/Medha dated 25.10.2016.

3.2 Consistency type test of VCB of by M/s Schneider Electric

Consistency type test of VCB manufactured by M/s Schneider Electric, Vadodara make VCB type 22CB with new VI type V807 VG vacuum bottle has been carried out at the works of M/s Schneider Electric and witnessed by RDSO representative. The prototype VCB has been placed under Mechanical Endurance test for 200000 operations.

3.3 Type tests of 3-Ph traction motor TME 45-40-4

Type tests results of 3-Ph traction motor type TME 45-40-4 manufactured by M/s Medha for Kolkata Metro Railway had been examined and found to be in order. Prototype clearance for field trial for 3 phase asynchronous traction motor for Kolkata Metro had been given vide note no. EL/3.2.182/KM/166(Medha) dated 04.10.2016.

3.4 Change of name of M/s General Stores:

Consequent upon verification of technical details in connection with change of name for manufacturing & supply of Pantograph type PAN – 01 of M/s. General Stores & Engineering Company has been renamed as M/s. General Stores & Engineering Company Pvt. Ltd The request of change of name has been considered vide RDSO letter no. EL/2.2.1 dated 17.10. 2016.

3.5 Approval of Quality Assurance Plan(QAP) for rotor (Scheme-II)

M/s SainiElectrical's Quality Assurance Plan(QAP) for manufacture & supply of rotor (Scheme-II) for TM type 6FRA6068 had been approved vide letter No.EL/3.2.182 dated 24.10.2016.

4.0 SPECIFICATION/STR

4.1 Amendment of specification for static Converter

Amendment -2 of specification for single phase to three phase static Converter with soft start feature no ELRS/SPEC/SI/18 Rev 1 March 2006 has been uploaded on RDSO website for suggestion & comments from Zonal Railway vide RDSO letter no EL/1.2.9 dated 20.10.2016.

4.2 Draft specification of brake system of 3 phase Electric locomotive

The reason document for draft specification no RDSO/EL/SPEC/2016/0000/Rev 1 of brake system of 3 phase Electric locomotive has been uploaded in RDSO website for comments and suggestion from user railways.

4.3 Specification of LED based twin beam head light for Electric locomotive

A draft specification for LED based twin beam head light for Electric Locomotives has been prepared and sent to Railway Board for approval.

5.0 DEVELOPMENTAL ACTIVITIES

5.1 Review meeting for 12000 H.P. electric locomotive:

A design review meeting was held at RDSO on 17.10.2016 regarding 12000 HP electric locomotives to be manufactured at Madhepura and its minutes issued vide this office letter no. EL/3.1.35/24 dated 28.10.16 to Madhepura Electric Locomotive Pvt. Ltd. and Secretary (Electrical) / New Delhi.

5.2 Factory Acceptance Test of WAP -7 Cab simulator

RDSO official witnessed the Factory Acceptance Test of WAP -7 Cab simulator for Ghaziabad, ETC,NR at M/s KBIL work address , Survey no.276, Village Mann, Hinjewadi Phase II, Taluka Mulshi, Pune from 17/10/2016 to 22/10/2016.

5.3 Prototype tests of roof mounted air conditioning unit

Prototype tests have been conducted jointly with CLW during 20.10.2016 to 23.10.2016 on roof mounted air conditioning unit as per RDSO's Specification No. RDSO/2007/EL/SPEC/0055(Rev-01) manufactured by M/s. Fedders Lloyed Corporation Ltd., New Delhi at firm premises.

5.4 Approval of Design document of IV Coupler

The design document no. MAK676/ IV Coupler/ DD CD-2192 Rev.02 of IV coupler manufactured by M/s Leoni and supplied by M/s Medha has been cleared vide this office note no. EL/8.1.25.1/KOL/Metro/Medha dated 05.10.2016.

5.5 Capacity assessment of M/s BHEL, Bhopal

Capacity assessment of M/s BHEL, Bhopal for Assembly components(stator chamber, end frame & Labyrinths) for Traction motor type 6FRA 6068 had been conducted on 20.10.2016. Assessment report is under preparation.

5.6 Capacity assessment of M/s VTL Electronics

Capacity assessment of M/s VTL Electronics, Ecospace, premises No. 11/F/12 (2nd Floor), Campus 2B, New Town, Kolkata 700156 for Repair of Microprocessor based control & fault diagnostic System (MPCS) for 25 KV AC conventional Electric Locomotives had been conducted on 27.10.2016. Assessment report is under preparation.

5.7 Capacity assessment of M/s Micaply

Capacity assessment of M/s Micaply, Mandideep for Glass banding tape for Traction motor type HS 15250A & TAO 659 had been conducted on 20.10.2016. Assessment report is under preparation.

5.8 Type test of traction motor type C1023

Type test protocol no. TTS/CGL/C1023TM/1 Rev. 04 dated 14.10.2016 and Routine test protocol no. RTS/CGL/C1023TM/2, Rev.03 dated 14.10.2016 of traction motor type C1023 (Equivalent to NGEF traction motor) for Metro Railway Kolkata submitted by M/s CGL has been provisionally approved for carrying out Type and Routine tests vide RDSO's letter no. EL/4.3.42/MRK/CGL dated 18.10.2016

5.9 Regrouping of Assembly components

Assembly components (Stator chamber, End Frame & labyrinths) of TM type 6FRA-6068 (total 13 items in kit) had been split in two groups in compliance of CLW request and got amended in vendor directory vide note no. EL/3.2.182 dated 18.10.2016.

6.0 OTHER ITEMS:

6.1 Failure Investigation of Loco No. 31492 WAG9

Vide Railway Board letter no. 2008/Elect(TRS)/440/6/3ph/FaVol.II dtd. 30.08.16 a committee was formed to investigate the failure of Loco. No. 31492 / WAG9 of ELS/TKD. The final report was submitted to Railway Board.

6.2. Cancellation of application of fresh registration cases:

(i) Due to non-compliance of specification by M/s SahneyKrickwood Pvt. Ltd./Mumbai, their online vendor application with vendor reference ID: QAE2013/1521 for manufacture and supply of Flexible Mica Sheet MP-60-FCZ , 5522/002, 008 for Hitachi traction motor type HS15250A is cancelled. This was communicated to firm vide RDSO letter no. EL/2.2.8/Hitachi/SKPL dated 13.10.2016.

(ii) Cancellation of vendor application of M/s Bhupendra Steels Pvt. Ltd., Faridabad for Suspension tube and assembly components for 6FRA-6068 TM with vendor

reference ID QAE2015/2581 dated 10.03.2015 has been rejected and deleted from RDSO website vide letter no. EL/1.3.10/3/6FRA/BSPL dated 24.10.2016.

6.3 Fresh Vendor Registration Application during this month

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
TPL	NIL	NIL	NIL	NIL
SE&AM	1	NIL	NIL	NIL
PS&SC	NIL	NIL	NIL	NIL
SE E	1	1	0	0
TM	11	3	1	0

Yours sincerely,

(Om Prakash Kesari)

**Shri A.K. Kapoor,
Member Electrical,
Railway Board, Rail Bhavan,
New Delhi-110 001**

Copy to-

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

(Om Prakash Kesari)
For Director General/Electrical

Annexure A for PCDO for Month Oct-2016

* T-No. of locos for which the modification required. **D-No. of locos in which modification done

S N	Work	RDSO Ref. No.	ER		NR		SCR		CR		WCR		WR		SR		SER		SECR		ECR		TOTAL	
			T	D	T	D	T	D	T	D	T	D	T	D	T	D	T	D	T	D	T	D	*T	**D
1.	Use of 8 Amps rating reed relay	RDSO letter no. EL/11.5.5/5 dtd. 28.12.12.	32	25	124	12 3	159	15 9	22	170 8	10	9 2	7	52 5	8	5 0	70	3 1	6	18 4	14	1 4	109	72 1
2.	Avoiding low pressure zone above hood ventilator.	RDSO/2014/EL/MS/0434 Rev-0 dated 28.03.2014	25	25	87	87	174	17 4	228	218	10	10 9	7	61 6	5	5 0	76	5 4	7	46 1	14	10 9	104	93 3
3.	dB level of output of fibre optic transmitters.	SMI/257	Being done														22	0	Being done				SER to start	
4.	Prov. of partial redundancy for HBB/STB processor in WAG9/9H and WAP7.	MS/0429 & MS/0435	25	25	73	30	159	12 8	22	3 7	10	4 9	2	22 2	8	5 0	76	2 9	7	31 1	14	4 2	995	44 3
5.	Modified cooling radiators for SR.	RDSO L/N EL/11.5.5/5 dt. 15.02.10.	24	24	130	12 0	124	12 4	129	9 7	10	6 4	4	41 1	4	4 0	79	7 3	4	43 3	10	9 9	818	72 4
6.	Shifting of MCB-100 to HB-2 panel.	MS/0367	24	24	130	13 0	174	17 4	151	151	10	10 4	0	0	4	4 7	79	7 1	7	45 1	14	14 0	920	88 0
7.	Rehabilitation and replacement of electrolytic caps.	RDSO guideline no. ELG/2008/01, Rev. '1' dated 13.08.09	3	3	88	36	86	22	90	5 0	3 0	5	2	2	0	0	2	0	1 0	3	69	3 6	380	15 4
8	Test set up for SAP cards and sensors .	SMI 260	Test setup not available				Test setup available					not available		Available		Test setup not available								

