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भारत सरकार-रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ-226011
Government of India - Ministry of Railways
Research, Designs & Standards
Organization, LUCKNOW - 226011

No. EL/3.2.21

Dt. 11.09.2018

मैसर्स सेफ सिस्टम इण्डिया प्रा0 लिमि0, 156, डीएसआईडीसी, ओखला इण्डिस्टीयल एरिया, फेज - 1 नई दिल्ली - 110 020	मैसर्स इलास्टीमोल्ड इण्डिया प्रा0 लिमि0, ए/303, नीलकमल एपार्टमेंट, श्रद्धानंद रोड, विले पारले, (पूर्व), मुम्बई - 400 057
मैसर्स रेकेम आरपीजी (प्रा0) लिमि., विलेज - कंजारी, तालुका हलोल, नियर हलोल जीआईडीसी, जिला - पंचमहल - 389 350 (गुजरात)	मैसर्स टीई कनेक्टिविटी इंडिया प्रा0 लिमिटेड, सं 22बी, टीई पार्क डोदेनाकुण्डी चरण 2, इंडस्टियल एरिया, वाइटफील्ड रोड, बंगलौर - 560048
मैसर्स काम्प्टन ग्रीव्स एण्ड इण्डस्ट्रियल सोल्यूशन्स लिमि0, प्लॉट नं0 - ए/ 3, एमआईडीसी, अंबर नासिक - 10 महाराष्ट्र	

Sub: Minutes of Meeting on reliability improvements of CHT & LA held at RDSO, Lucknow on 05.09.2018.

A meeting was conducted with representatives of CHT & LA manufacturers and Zonal Railways at RDSO, Lucknow on 05.09.2018 on subject matter. In this regard, minutes of meeting is enclosed herewith for information and implementation by all concerned.

संलग्नक: यथोक्त।
प्रतिलिपि:

- मुख्य कार्य प्रबंधक, विद्युत लोको वर्कशाप, पूर्व रेलवे, कचरापाडा, परगना (उत्तर)-743 145 - for kind information and necessary action at your end.
- मुख्य विद्युत इंजीनियर - for kind information.
 - उत्तर रेलवे, बड़ोदा हाउस, नयी दिल्ली - 110001.
 - मध्य रेलवे, मुम्बई सी.एस.टी - 400001.
 - उत्तर मध्य रेलवे, सुबेदार गंज, इलाहाबाद - 211033.
 - पूर्व रेलवे, फेयरली प्लेस, कोलकाता - 700001.
 - पूर्व मध्य रेलवे, हाजीपुर, बिहार - 844101.
 - पूर्व तटीय रेलवे, भुवनेश्वर - 751016.
 - दक्षिण रेलवे, पार्क टाउन, चेन्नई - 600003.
 - दक्षिण मध्य रेलवे, रेल निलायम, सिकन्द्राबाद - 500371.
 - दक्षिण पूर्व रेलवे, गार्डनरीच, कोलकाता - 700043.
 - पश्चिम रेलवे, चर्चगेट, मुम्बई - 400020.
 - पश्चिम मध्य रेलवे, जबलपुर - 482001.
 - दक्षिण पूर्व मध्य रेलवे, बिलासपुर - 495004.
 - चित्तरंजन लोकोमोटिव वर्क्स, चित्तरंजन, पश्चिम बंगाल - 713 331

संलग्नक: यथोक्त।

(ए. के. शुक्ला)
कृते महानिदेशक/विद्युत

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कृते महानिदेशक/विद्युत

Minutes of Meeting on reliability improvement of CHT & LA with its manufacturers and Zonal Railways held on 05.09.2018 at RDSO, Lucknow.

Members Present, S/Shri

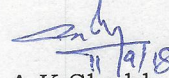
A)	RDSO, Lucknow	D)	M/s T.E.Connectivity.
1	Aseem Kumar, DSE PS & SC	1	Hemanth Kumar, Project Mgr.
2	Yogesh Kumar, JE/D	2	A B Md. Aslam, Sales Mgr.
B)	North Central Railway	E)	M/s EIPL
1	Ratnesh Kr. Srivastava, ADEE/RS/CNB	1	Harshit Desai, Dy. CE
2	Kaushal Kr. Yadav, SSE/RS/CNB	F)	M/s SSIPL
3	A K Saini, ADEE/RS/JHS	1	B K Maurya, Mgr.
4	Avinash Kr. Patel, SSE/RS/JHS	G)	M/s Raychem RPG
C)	Southern Railway	1	Syed Shad, Mgr.
1	Roy Varghese, JE/ ELS/ED	H)	M/s Arihant
		1	Hemang Jain, Director

A meeting on reliability improvements of CHT & LA with its manufacturers & Zonal Railways held on 05.09.2018 at RDSO, Lucknow. DSE/ Pn welcomed all the participants in the meeting from CHT & LA manufacturers & Zonal Railways. Deliberations of the meeting and action plan is summarized as under:-

1. M/s EIPL informed that flashed high voltage bushing bearing Sl no. 261-05-16 reported by SER has been attended by the firm and same replaced. High Voltage testing of same cable was carried out by M/s EIPL at 60 KV but it withstood the test. Firm was advised to submit the root cause of flashing marks visible on high voltage bushing and submit the joint note prepared with the Railways along-with the high voltage test report to RDSO.
2. ELS/JHS of NCR reported QLM drop case with splashing of transformer oil on account of flashing of live contact of CHT of M/s Safe System make. Shed informed that failure occurred due to non releasing of turret key air by POH/KPA workshop and is a case of bad maintenance. Therefore, POH/KPA is advised to take due care during POH of Electric loco.
3. Two cases each of puncture of rubber sleeve of connector & flashing of insulation of bottom portion of CHT of M/s SSIPL were reported by ELS/BNDM of SER. Both the failure cases were attended by the firm and joint note submitted to RDSO during the meeting. The analysis report submitted to DEE/TRS/BNDM shows that CHT failed since screen wire was not connected at proper place which resulted in failure at stress cone area. SER is requested to look into the matter and do needful to ensure proper screen connection.

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4. SER reported failure of CHT no. 1563/11/09 to which M/s SSIPL commented that CHT not traceable at Loco shed and failed after 6 years and 8 months. SER is requested to make available the failed CHT to M/s SSIPL for investigation and attention. M/s SSIPL is advised to attend the failures promptly.
5. ELS/ AJJ of SR reported failure of CHT which took place on 01.06,2018 bearing Sl. no. 1390 fitted in loco no. 23488 of M/s SSIPL on account of flashing of turret at bushing aluminium flange. M/s SSIPL is advised to visit the shed for investigation. The joint note prepared with shed and detailed investigation report shall be submitted to RDSO.
6. CHT of M/s EIPL make failed under warranty bearing sl.no. 3426/11-17-cable, 2512/11-17-turret reported by ELS/ED and 3389-cable, 2489-turret reported by LW/PER on account of melting and flashing of cable head holding clamp and cracks on the bushing convertor insulation from contact adopter area towards bushing flange respectively. These shall be attended by the firm on priority and detailed investigation shall be sent to this office.
7. ELS/CNB of NCR informed that problem is being faced by them in maintaining CHT during schedule inspections in absence of spare part list of CHT. In this regard spare part list is to be submitted with part nos. for maintenance of CHT to RDSO within a fortnight by all the firms.
8. All the CHT manufacturers are requested to submit the Lifetime Maintenance Plan (up till replacement of equipment) of their make keeping in mind the maintenance schedules carried out by Railways. CHTs have failed after service of 6 years as well as 8 & 10 years. Some firm even claimed that their product has life of 25 years.
9. RDSO vide TC no. RDSO/2016/EL/TC/0136 Rev. '0' dated 08.08.2016 on condition monitoring of LA has asked Railways to measure third harmonic leakage current as a preventive measure and to assess the condition of LA in service. ELS/ CNB & ELS/JHS have reported that they are in process of procurement of Harmonic Analyzer. All the Railways are requested to make arrangement to measure third harmonic leakage current to prevent the failure of loco online.


A K Shukla
EDSE