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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/4.2.15/Gen

Date: As signed

Principal Chief Electrical Engineers,

1. Central Railway, Mumbai CST-400001
2. Southern Railway, Park Town, Chennai-600 003

Sub.: Minutes of the Meeting held on 04.03.2022 through Video Conferencing on failures of M/s Medha make FDCS Ver-3

Ref.: Southern Railway's letter no. E.221/I/2/FDCS dated 02.03.2022

1. A Meeting was held on 04.03.2022 through Video Conferencing on failures of M/s Medha make FDCS Ver-3. Minutes of the meeting are attached as Annexure-A.
2. Minutes of meeting has been uploaded on RDSO website and it may be downloaded using following path:-
www.rdso.indianrailways.gov.in → Directorates → Electric Loco → Other Important links → Reliability Meetings → MPCS → Minutes of Meeting held on 04.03.2022 through Video Conferencing on failures of M/s Medha make FDCS Ver-3.

(Anurag Agarwal)
for Director General/ Electrical

Copy to:

1. Principal Chief Electrical Engineer, Chittaranjan Locomotive Works, Chittaranjan- 713 331: for kind information please.
2. M/s Medha Servo Drives Pvt. Ltd., P-4/5B, Industrial Park, Nacharam, Hyderabad-500076, Telangana State: for information and necessary action please.

(Anurag Agarwal)
for Director General/ Electrical

Minutes of the Meeting held on 04.03.2022 through Video Conferencing on failures of M/s Medha make FDCS Ver-3

Members Present:

RDSO			SR
1	Sh. Anurag Agarwal, DSE/TM	1	Nagarjuna Reddy Murakka, Sr.DEE(TRS)/ED
2	Sh. Mohan Kr. Yadav, SSE/EL	M/s Medha	
CR		1	Sh. Venkateswara Rao, Manager/Product/R&D
1	Sh. Hemant Jindal/Sr.DEE(TRS)/KYN	2	Sh. Ambarnath Ekbote/Sr. Manger/R&D
2	Sh. Himanshu Ram Dev/Sr.DEE(TRS)/BSL	3	Sh. Satya Narayan, Asst. Manager/Product
3	Sh. Ankit Bansal/AEE/BSL	4	Sh. Jay Shankar Prasad Sharma/Dy. Manager/Marketing

1. RDSO informed that Zonal Railways have reported number of cases of failures in M/s Medha make FDCS (Ver-3) Display units. These failures resulted in application of penalty brake due to VCD activation. Such failures are causing punctuality loss in mail/express trains. 24 cases have been reported by Electric Loco Sheds in 2021-22 till now.
2. Sr.DEE/ED/SR informed that they are facing such failures from March'2021 onwards & earlier such types of failures were not experienced in M/s Medha make MPCs. He further added that earlier firm was providing Arbor make display units which did not have any such issue. It was also informed that during last one year firm had uploaded six software versions but problem still persists.
3. RDSO showed its concern that firm is changing the hardware & software of MPCs without taking permission from RDSO. However, the firm confirmed that they had approval of CLW for changing the Display unit.
4. M/s Medha informed that earlier make display have become obsolete & not available due to which firm is changing the display. Firm further informed that initially they were suspecting bug in the software hence they were modifying the software on trial basis but did not get the success. M/s Medha claimed that now they are updating the operating system (OS). Firm informed that so far they have updated the OS in 120 locomotives of ELS/KYN, ELS/BZA, BKSC-DLS & ELS/BL etc. & as on date. It was further informed by the firm that they are remotely

monitoring the performance of these locomotives on monthly basis & till date these locomotives are working satisfactory. RDSO advised to firm to monitor the performance of these locomotive on weekly basis & give feedback to RDSO.

5. ELS/KYN had confirmed that updated OS have been installed in MPCs by the firm in their locomotives & till date no failure has been reported in those locomotives.
6. M/s Medha also claimed that updated OS have been installed in three ELS/ED based locomotives (22218, 22360 & 22380) & no such failures have been witnessed. Firm was advised to depute their technical expert at ELS/ED & jointly validate the same with the shed.
7. Based on the discussion held during the meeting, following is advised to M/s Medha :
 - a. Any changes in the software/hardware in MPCs should be done with prior permission of IR.
 - b. All the MPCs (Ver-3) with updated OS shall be monitored by the firm & feedback must be submitted to RDSO on weekly basis.
 - c. Firm is advised to depute their technical expert at ELS/ED & jointly validate the performance of updated OS installed in 3 ELS/ED based locomotives.
 - d. As confirmed by ELS/KYN, failures have been minimized in MPCs with updated OS, firm is advised to update OS in all Ver-3 MPCs at the earliest. Firm must submit shed wise timeline for updation of operating system to RDSO by 15.03.2022.
 - e. Firm is advised to submit the updated QAP to Railway for examination/approval.