Minutes of meeting with DY.CEE/W/KPA and Sr. Sr.DEE/MEMU/JAJ held on 01.12.23 & 02.12.23 in the chamber of DY.CEE/W/KPA

Members present:

KPA Sri G. N. Halder, DY.CEE/W JAJ Sri Sanjeev Kumar, Sr.DEE/MEMU

Sri J. Karmakar, AWM/EMU Sri P.C. Meena, AWM/G Sri Rajesh Kumar, SSE/Store

Sr.DEE/MEMU/JAJ visited Carriage Complex of Kanchrapara Workshop on account of witnessing the Tr. Motor failure (TM-1, SL, No.4919723, Type 4303 make - BHEL) on line at Pipra in SEE Division of ECR on 22.10.23. He also visited Motor Section, Switch Group Section, Relay Section, Tap changer Section, Bogie Section for witnessing the activities for POH of different apparatus.

The following points noted for compliance.

 Visited the Motor Section. The motor was opened in front of Sr.DEE/MEMU/JAJ wherein end shield was locked and could not be dismantled as per normal POH activities but one arrangement made (bigger size special puller) for opening the end shield and opened on 02.12.23. The condition of bearing on both PE & CE ends is OK and found no abnormality in bearing.

Bearing Make – PE – Fag India, Mfg. 2019 CE – Fag Germany R 221, Mfg. 2018

It has been inferred that case of failure is intactness and metallic bonding of End Shield collar with bearing inner sleeve in PE side.

 It has also been decided that more and more cab modification is required for JAJ MEMU Motor Coaches, Till date we have made 10 nos. modification as on date through RSP programme of E.Rly, and in future it has been planned to modify another 10 motor coaches for this year i.e. 2023-24.

(Sanjeev Kumar) Sr. DEEMEMU/JAJ

JG. Halder DY.CEEW/KPA

No.EC/T/Misc./GH/

December 2, 2023

Distribution: CWM/KPA - for kind information.

CWE/ER/KKK – for kind information. CESE/ECR – for kind information.

Sr.DEE/MEMU/JAJ/ECR – for information please.

Minutes of meeting with DY.CEE/W/KPA and Sr. Sr.DEE/MEMU/JAJ held on 01.12.23 & 02.12.23 in the chamber of DY.CEE/W/KPA

Members present:

Sri G. N. Halder, DY.CEE/W

Sri Sanjeev Kumar, Sr.DEE/MEMU

Sri J. Karmakar, AWM/EMU

Sri Rajesh Kumar, SSE/Store

Sri P.C. Meena, AWM/G

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30 2/12/2023 (Sanjeev Kumar) Sr. DEEMEMU/JAJ

.(G. Halder-Y DY.CEEW/KPA

No.EC/T/Misc./GH/

December 2, 2023

Distribution: CWM/KPA - for kind information.

CWE/ER/KKK - for kind information. CESE/ECR - for kind information.

Sr.DEE/MEMU/JAJ/ECR - for information please.

Inspection Note of Sh Amit Kumar Aggarwal, PCME/ECR during visit to KPA workshop on 09.06.2023

SI no.	Inspection Details	Action by	
1.	In order to prevent the failure of pinion slipping of traction motor, the detailed procedure of pinion fitment followed by workshop has been demonstrated like colour matching and pinion advancement measurement in cold & hot stage during visit.	CWMKPA	
2.	Different types of traction motor failure due to bearing had been displayed. It was deliberated whether rivet less or riveted bearing is better. It has been suggested to refer the matter to RDSO in view of past failures of rivetted bearings:	CWMERA	
3.	For proper maintenance of traction motor, advice has been given by OEM for re-greasing of traction motor which should be followed by the Division	CESE/ECR St DEE/MEMILIJAJ	
4.	Irreversible type temperature sticker to be pasted on TM bearing housing for recording any abnormal temperature rise.	CESE/ECR S) DEE MEMU/JAJ	
5.	Conversion of MEMU coaches MC 21020 and 21021 into inspection car has been inspected. PDC is 30.06.2023.	CWM/RPA	
6.	Procurement of Emergency Talk back system for ladies coaches to be done by ECR and commissioning may be done during POH at KPA Workshop.	CESE/ECR CWM/KPA	
7.	Deficient Air Dryer (10 nos.) to be fitted by JAJ Shed and remaining bypass arrangement in DMC to be done by KPA.	CWM KPA So DEE MEMU JAJ	
8.	ACP overhauling and wire changing to be done by KPA workshop on regular basis during POH.	CWM/KPA	
9.	Parking Brake fitment is not done in last four POH rake due to material shortage. Material to be arranged and start fitment.	CWM/KPA	
	NATE OF THE	C40.3 (4.20.4	

RAJENDRA KUMAR

Digitally cojecting MARINGHA KUMAR CHOUDHARY THE PROTOCOLOR

CESE/ECR/HJP

No. ECR-HQ0Mech(MEMU)/1/2023

Dated: 20.06.2023

Copy to:

- 1. PCME/ER, ECR- For kind information.
- 2. CWM/KPA- For information and n. a. pl.
- 3. Sr DEE/MEMU/JAJ- For information and n. a. pl.

Minutes of meeting with WM/C/KPA, AWM/EMU/KPA & AME/MEMU/JAJ held on 23.02.2023

Member Present:

KPA Workshop	JAJ Shed
1.Sh. Nilesh kumar bhalavi (WM/Coaching/KPA)	Sh. B.K.Manglam (AME/MEMU/JAJ) Sh. Vikash Kumar
2.Sh. Jayanta Karmakar (AWM/EMU/KPA)	SSE/MEMU/JAJ

The following points were discussed in the meeting: -

a) POH related

SN	Item	JAJ MEMU Shed Remarks	KPA workshop Remarks
I.	Parking brake	Parking break functional in 29 MEMU rakes . Fitment of parking brake should be continued for remaining 21 MEMU rakes.	As all incoming rakes are received with still deficient condition. It is very difficult to maintain parking brake in each Motor Coach.
11	Repair/overhauling of different passenger amenity items like Sliding & hinge door, window glass & toilet.	O1 case of hinge door found broken in TC 41025 within 15 day after POH. Besides it roller bearing is not being replaced due to this sliding door gets defective within 2-3 months after OFF POH. Also channel of door need replacement/repair, most of the time roller comes out from channel and Door gets jammed.	Proper care has been taken for passengers amenity items during POH. 100% checking is being done during POH. Channel and roller procurement under process. After receiving the material same will be changed.
HL	ACP	It is being attended during POH. ACP is functional in 47 MEMU rakes.	ACP function are maintaining in each rake during POH.
IV.	Air dryer	Overhauling of Air Dryer is being done in POH. Although KBL make air dryer found defective in MC 40053.	

V.	IFD problems	Total 9 cases of wheel changing due to IFD accounts. Due to IFD non availability of suitable wheel keeps stock in defective position for longer time.	week.
A.	Auxiliary motors (specially Radiator & rectifier) overhauling issues	Total 50 nos. radiator motor has been changed since April 2022. This shows that mandatory overhauling during POH has not been done. Proper Overhauling of motors should be ensured during POH.	Details investigation report of motors received at KPA are attached herewith. Remaining motors to be send by JAJ with sl. No. for further action.
VII.	Auxiliary Compressor failure	Total 9 nos of ACP has been changed since April. ACP is being used only when Unit is dead. Hence this shows poor maintenance during POH. Also POH booklet does not mention regarding overhauling of ACP.	No failure along-with MC nos. & failure details communicated till date & no failed item received till date. However, O6 nos. ACP has been sent for repairing assistance for vich investigation report to be send within a week & necessary assistance will be given after repairing if possible.
V 111.	Traction motor	Total 17 nos. traction motor changed since April. Failure analysis has not been relayed to JAJ shed. KPA workshop is requested to improve their workmanship if needed.	Detail investigation report is attached herewith.
IX.	Carbon brush holder touches with riser	Recently 01 more case of Carbon brush holder having zero gap are found in MC 40092. Its CB holder is being changed at JAJ Shed. Proper gap b/w holder & riser should be maintained during POH.	It is being maintained during POH since Dec -2022.
Χ.	BP & MR pipe changing of Front DMC.	It has been noticed that during POH these pipe has not been changed. In the event of Loco attachment, Air leakage issue arises. Recently OFF POH MC 40090 having such problem. May please look into the matter.	
XI.	Choke tank	02 nos. choke tank has been replaced in MC 40013 & 40008 due to frequent B.I.R & EFRP problem respectively. KPA is communicated regarding failure analysis of MC 40013 in which radiator fins found in choke tank which get shorted with coil resulted into frequent B.I.R.	Necessary step will be taken to prevent the flowing of radiator fins through oil pipeline to choke tank.

		KPA is requested to take suitable action during POH of choke tank & radiator by which such failures can be arrested.	
XII,	Ferrule Joint	Ferrule joint of BP angle cock worked out in TC 41236 & TC 41211 resulting pressure drop. So, it should be checked minutely during POH.	changed if required.

b) Other issues

SN	Item	JAJ MEMU Shed Remarks	KPA workshop Remarks
1	Fitment of emergency talk back system in ladies coaches in MEMU	ECR has informed that KPA vide letter no. ECR/MECH/ MEMU/102 dtd. 25.08.22 for procurement and fitment of this item in 49 rakes at their end during POH of rakes.	Dy CEE/P&D KPA Workshop informed that case of supply & fitment on ECR coaches has been included. Estimate is under process.
2	Conversion of inspection car	Workshop plan to convert these coaches into self- propelled Inspection Car. Certification of "Over aged & unserviceable for passenger services" will be provided by Workshop.	Work under progress. tentative PDC is 15.05.2023
3	Credit of sold-out coaches	Credit of sold-out coaches are yet to be transferred to ECR.	Sold order has been issued. New credit will be given to E.C.R

c) Material assistance:

Following items are required:

- (i) Servomotor for wiper.
- (ii) Stay tube for MC.
- (iii) Toggle switch (Dim/Bright) for head light.
- (iv) Headlight Holder
- (v) Signal Bell
- (vi) Fan blade of rectifier motor -
- (vii) Fan blade of radiator motor
- (viii)T-joint for Tab changer air pipe(Blue Colour)
- (ix) Gaco washer in exchange of earlier given 100 nos.
- (x) Look out glasss

d) Material of JAJ Memu car shed at KPA workshop as on date 23.02.23

(i) Traction motor

TYPE 4601 - 05 nos

100

TYPE 4303 - 01 nos

- (ii) Radiator motor 03 nos
- (iii) Ractifier motor 03nos
- (iv) ABR relay -02 nos
- (V) Axle wheel set (motor coach) 17 nos.
- (Vi) Axle wheel set (TC). 09 nos.

KPA workshop has requested to repair & return above material early to JAJ Shed.

Sh. Jayanta Karmakar (AWM/EMU/KPA)

Sh. Nilesh kumar bhalavi (WM/Coaching/KPA) Sh. B.K.Manglam (AME/MEMU/JAJ)

Copy to:

DY.CEE/W/KPA: for kind information please.

Dy.CME/TS/HJP: for kind information please.

Sr.CDO/TS/JAJ : for kind information please.

Minutes of Coordination Meeting at Kanchrapara Workshop with CWM/KPA on 17.01.2023 with CESE/ECR for MEMU POH

Present:

ECR	KPA Workshop
 Rajendra Kumar Choudhary, CESE/ECR 	 Surendra Kumar, CWM/KPA
Randhir Kumar, DME/JAJ	2. Dharmaveer Yadav, Dy CEE/Loco/KPA
STEEN-CONTRACTOR OF STREET	Nilesh Ballavi, WM/C/KPA
	4. Jayanto Karmakar, AWM/EMU/KPA

1. MEMU POH: (CONVENTIONAL)

As informed by DME/Jhajha, MEMU POH status as on 08.09.22 is as follows:

Year	Arising	Done	Through forward
2021-22	544	512	32
2022-23	32+312= 344	128	216
2023-24	504		

2. MEMU POH: (3- Phase)

3 Phase MEMU arising in 2023-24 is 36 unit. KPA Workshop assured that they have capacity to undertake entire arising of ECR.

3... POH related issues:

5N	Item	JAJ MEMU Shed remarks	KPA Remarks
(i)	Parking brake	It is being fitted in driving MC only during POH. Parking brake functional in 29 MEMU rakes. Fitment of parking brake should be continued. Remaining 21 MEMU rake to be completed during POH.	Workshop is maintaining to provide parking brake at least in both end driving coach as per present EAC available. Non driving motor coach will be provided once deficiency of driving coachhas been recovered.
(ii)	Repair/overhauling of different passenger amenity items fike Sliding & hinge door, window glass & toilet.	All are being attended during POH. But roller bearing is not being replaced due to this sliding door gets defective within 2-3 months after OFF POH. Also channel of door need replacement/ repair as most of the time roller comes out from channel and Door gets jammed.	painting has been completed upto Dec'22. Channel at present is not
(111)	ACP	It is being attended during POH, ACP is functional in 47 MEMU rakes.	

Page 1 of 5

			prope	er working of	ACPalso.	
(iv)	Smoke detector	It is not being fitted during POH. Almost 105 DMC is having smoke detector which is not working/ wire out. It is once again requested to repair during POH.	detec done confir	One time repair of all fitted sm detector with the help of OEM will done. AMC status from division not confirmed. For remaining DMC, sanction of RSI required from ECR.		EM will be ion not ye
(v)	Gear Case	Workshop confirmed that 100% Gear Case is attended during POH, Depot should inform specific cases if it is found leaking/ defective in any coaches.	Already maintaining for last two years No adverse report received from division as a 100 days failure.			
(vi)	Air leakage from Tap changer & Switch group	ASCO make in lieu of BOSCO make GACO washer is being fitted in tap changer during POH. Major problems arise in Balaji make GACO washer.	BOSCO make Gaco washer issued for store/KPA on 13.12.2022 & onwa which has been used during POH now		onwards	
(vii)	Air dryer OVH	Overhauling of Air Dryer is being done in POH. Although KBL make air dryer found defective in MC 40053.	Year	Defective received	Deficien t	New fitted
			21-21	09	04	02
			21-22	23	05	00
			22-23	29	08	04::
			Total	61 rectified	16	06 new fitted
[(481)]	Axle lock crack due to defect in Traction Motor	One case of impeller breakage found on 13.12,2022 in MC 40084.	As on date, 370 nos. BHEL make Armature fan have been tested dut of which 60 nos. found cracked. As on date, 92 nos. CGL make Armature fan have been tested out of which 40 nos. found cracked. No further axle lock report received from division due to fan crack as on date after starting the DPT /MPT.		Armature which 4D received	
(ix)	POH Booklet	Being sent with POH rake. Updation of POH ooklet needed as per latest mandatory replacement items.	POH booklet is being sent with rake itself now & sent through email also.			

4. RSP item: Fitment of emergency talkback system in ladies coaches

St.no.	Item	KPA remarks
1.	ECR has informed that KPA vide letter no. ECR/MECH/ MEMU/102 dtd. 25.08.22 for procurement and fitment of this item in 49 rakes at their end during POH of rakes.	fitment on ER coaches for same item is under

5. Credit for sold out condemned coaches & condemnation of coaches:

(i) Credit for following sold out coaches are yet to be transferred to ECR:

Year	No. of coaches	Coach Nos,	Corrected coach no.	KPA Remarks	
2020-21	4 TC	22001, 22000, 22007, 22003	22001,22000,22007,22013	Sell order has been issued, new credit will be	
2021-22	1 TC	220041	22041	given to JAJ shed.	
2022-23	2 TC	22018, 22035A	22018,22035A		

(ii) Under Condemnation:

Coach No.	Status	Latest status
MC 21021 MC 21020	convert these coaches into self- propelled inspection Car. Certification of "Over aged & unserviceable for	Necessary scope of work along with approved drawing has been requested from division vide letter no. EC/T/IC /21020 & 21021/ 22-23 /GH dated 04.11.22 after which work can be started according to requirement. It is to be communicated by ECR whether independent or coupled coach formation is required.
TC 2086-B	Stripping done and will be offered to Store for sale by 10.09,2022.	Sold on 29.09.22. Delivery completed on 11.11.22

6. NEW AGENDA ITEMS:

SN	Item	JAJ Shed Remakrs	KPA Remarks
(i)	Increased Flange Distance problems		

(11)	Radiator motor overhauling issues	Total 43 nos radiator motor has been changed since April. This shows that mandatory overhauling during POH has not been done. Overhauling of radiation motor to be ensured.	JAJ as on date & failure analysis causewise will be done shortly. 100% overhauling during POH has been carried out.
(iii)	Traction motor	Total 17 nos traction motor changed since April. Failure analysis has not been relayed to JAJ shed. KPA is requested to inform failure analysis to JAJ shed. Preventive action to be taken by KPA to improve their workmanship if needed.	Total 17 nos. failure details received from IAJ as on date & failure analysis cause- wise & make-wise will be done shortly.
(īv)	Auxiliary Compressor failure	Total 9 nos of Aux Compressors have been changed since April 22. Aux Comp is being used only when Unit is dead. Hence this shows poor maintenance during POH. Also POH booklet does not mention regarding overhauling of Aux Comp.	Details of failed equipments will be collected as early as possible and failure analysis will be done accordingly. All details will be given in POH Booklet.
(v)	8P & MR pipe changing of Front DMC.	It has been noticed that during POH these pipe has not been changed. In the event of Loco attachment, Air leakage issue arises. May please look into.	It will be provided.
(Vi)	LT compartment cleaning	Proper cleaning with wire of LT compartment to be done with Orion-77.	It will be dane,

7. Material assistance:

Following items are required from KPA as assistance to JAJ shed:

- (i) Servamotor for wiper.
- (ii) Stay tube for MC.
- (iii) Toggle switch (Dim/Bright) for head light.
- (iv) Headlight Holder
- (v) Signal Bell.
- (vi) Fan blade of rectifier motor.
- (vii) Fan blade of radiator motor.
- (viii) T-joint for Tab changer air pipe(Blue Colour)

Page 4 of 5

(ix) Gaeco washer in exchange of earlier given 100 nos.

Lorry with demand letter will be sent shortly for collection of above materials. KPA workshop is requested to spare.

8. Material of JAJ Memu car shed at KPA workshop as on date 17.01.23

(i) Traction motor

TYPE 4601 - 06 nos

TYPE 4303 - 01 nos

- (ii) Radiator motor 04 nos
- (iii) Rectifier motor 3 nos
- (iv) ABR relay -02 nos
- (V) Axie wheel set (motor coach) 17 nos.
- (Vi) Axle wheel set (TC). 09 nos.

KPA workshop was requested to repair and return above materials early to JAJ shed.

DHOTOHARA DRIVERS OF THE PARTY OF THE PARTY

CESE/ECR/HUP

Dated: 20.01.22

No. ECR/MEC/MEMU/102

Copy to:

- PCME/ER, ECR- For kind information.
- CWM/KPA- For information and n. a. pl.
- Sr CDO/JAJ- For information and n. a. pl.



Office of the Dy. Chief Electrical Engineer/W PIN Code: 743145

Minutes of Meeting with AWM/EMU/KPA and AEE/MEMU/JAJ held on 16.12.2022 in chamber of AWM/EMU/KPA.

Member Present:

KPA JAJ

(ii) Shri, Jayanta Karmakar, AWM/EMU/KPA.(i) Shri, S. K Ekka, AEE/MEMU/JAJ.(ii) Shri, Manoranjan Kumar, SSE/MEMU/JAJ.

The following points were discussed in the meeting:-

- MC No. 40033- 20.11.22 OFF POH, ICO-1.11.22. Offer schedule TI, MCB of radiator motor 1 tripped again & again dt. 08.12.22, motor found defective.
- MC No.188241- TM4 Armature winding rapting with shaft.
- MC No.40091 a OFF POH, ICO-10.11.22, Motor TM3 No.-2162002-225, make CGLinternal winding defect.
- 4. MC No.40111- ICO-10.11.22. VCB Failure dtd.-03.12.22-VCB Governor found malfunctioned.
- During POH, in both end driving motor coaches BP and MR pipes to be provided.
- Some Motor Coach-TM carbon brush holder and commutator raiser gap found less than 1.0 mm to 0.2 mm(Only for HHP Motor).
- Inspection Car Self Propulsion System.

Assistance Required:-

1.10 nos. ABR relay repaired.

2.VCB Governor- 05 nos. required

3.04 nos.TM laying at JAJ Shed(HHP-02 nos., Conv. 02 nos.) will be sent next week for POH.

Conventional Motor Coaches Axle Wheel Set required in JAJ Shed.

(S.K Ekka)

AEE/MEMU/JAJ

J: Karmakar AWM/EMU/KPA

Copy to: (i) DY.CEE(W)/KPA- for kind information please.

(ii)DY.CME/TS/HJP- for kind information please.

(iii)Sr.CDO/TS/MEMU/JAJ- for kind information please.

Minutes of meeting with DY CEEAW/KPA and Sr. CDG/TSA/AJ Held on 92.11.22 in the chamber of DY CEEMIKPA

Members present

LAL

Sri Nilesh Bhallavi, WM/C

Sn G, N, Halder, DY CEE/W, Sn K N S, Yadav, Sr, CDD Sri S K Singh Sr SE

Sn J Karmakar, AWM/FMLI

The following points were discussed in the meeting and the decision taken in the meeting and furnished below

Arising of POH rake is 2 rakes per month which is being maintained.

2 100 days" failure – Suitable action will be taken by KPAW to avoid such failures

- Trailer coach bogie bolster failure It is under investigation and report to be sent to
- in Motor Coach No. 40033. MCP connecting rod failure on 29 09 22 PQH. done on
- In Motor Coach No.40033. Air dryer failure on 22.09.22. Make KBL. POH. donc. on
- In Motor Coach No.40050, Gear case felt seal failure on 15.10.22. POH done on W
- in Motor Coach No. 199136. Oil pump motor not working failure on 15.09.22. POH
- In Motor Coach No.40055, Support bolt of stopper plate, of reverser coil found VI) - failure on 12 09 22 POH done on 31 08 22
- In Mator Coach No. 19858; BP Hase pipe burst failure on 04 08 22 POH done or VIII) 02.06.22

3 Other failures – Suitable action will be taken by KPAW to avoid such failures

- in Motor Coach No.188524, VCB punctured on 29 10:22 POH done on 08:02:21 Material manufactured in February, 2019, Make AAL Observation. To raise issue with the manufacturer
- Failure of air pipeline of new tap changer: to be checked for recent failure
- Wiper motor not working properly. Make: ELGI. To check during POH. thoroughly.
- Failure of Gaco Rubber Washer has been increased recently. Quality of Gaco washer needs to be checked

Off POH detects/deficiencies - Suitable action will be taken by KPAW to avoid Such failures

During checking of POH rakes at JAJ shed in ICD schedule. Certain defects/deficiencies are noted as below -

- Inter/After cooler & CDC Gasket not replaced
- Nut & bolts are either found loosely fitted or deficient al many sucations 2 (in. Tap changer, switch group, cattle guard, vertical damper etc.)
- Cables of control/power circuit are sometimes found loosely fitted with 3 'damaged insulation
- Transformer oil leakage from draining port. 4
- Pressure gauges not fitted 5
- BP pipe for Loco attachment is generally not replaced 15
- TM junction box stud found broken also cable are loosely litted
- Defective wipers & wiper assembly not replaced ä
- Anchor links found loosely fitted also vertical damper defective 9
- Damaged/defective floor sheets are not replaced 10:
- Replacement/repairing of passenger amenales items i.e. varidow (0.3%) 11 door shufter not ensured.

Mecessary action will be taken to curb above defects/deficiencies

EP Contactor failure

5

The details of failure on account of leakage from EP Contactor are furnished below.

Dt. of failure	Motor Coach	Last POH	Name of EP contactor
14 07 2022	40121	OCT-2021	1.4
13 07 2022	4D047	OCT-2021	1-581-7
13 07 2022	40010	FEB-2021	WCO
NJ 07 2022	188175	APR-2021	1.6
05-07-2022	188178	APR-2021	r-3
04 07 2022	21034	JAN-2021	NC-4
03/07/2022	188524	AUG-2021	1 -8
29 06 2022	188174	JULY-2021	T-8 & WCO
79 06 2022	40002	JULY-2021	M.1.8 M.6
29 03 2022	40066	JULY-2021	1.8
01-05-7022	40115	JAN-2021	NG-1 & NG-2

Other issues

- Filment of parking brake during POH is being done in hoth ends of driving motor coaches.
- Working of Smoke Detector is to be ensured. A sanction in RSP from MEMU Shed is required for fitment of smoke detector in coaches, where display fitted, earlier.
- Overhauling of Air dryer & BUD To be ensured during POH
- (v) Conversion of Inspection Car − Conversion of overaged motor coach to Inspection car bearing No.21020 & 21021 of which one is for E.C.R.

Detailed information is to be sent to E.C. Riy soon

Assistance of materials

- 1 HHP Motor
- 2 High Capacity TM (Overhauled).
- 3 BUD
- 4 Servic Motors for wiper
- 5 Lightening arrestors
- 6 Carbon brush holder for high speed Traction Motor (BHE), & CGL make:
- 7 ABR relay & Light/Fan contactor set
- 8 Sun Visor
- 9 Roller sliding assembly

KN 5 Vadav) Er CDO'TS JAJ

"SECT/Med /GH/

ON CET II NO

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*** Althority* — for kind information please
LF LF II. II. RetUP — for kind information please
57 CQESTANIC SIGNAUP — for information please
LF LIAC (II. II. GERAUP — for information please
UF LIAE (LIKE) — for information please

1. KPA Workshop:

(a) MEMU POH:

As informed by Sr. CDO/Iha_iha, MEMU POrt status as on 08.09.22 is as follows:

Acar	Atising	Done	Through forward
2051-55	544	512	32
2022-23	32+312+ 344	128 (till Aug)	216 (as on 01.09.22)
2023-24	504	Tab Inchaig	210 (a) 0n 01.09.22)

KPA Workshop assured that they have capacity to undertake entire arising of ECR.

(b) POH related issues:

N.	item	Status
i):	Parking brake	EAC for spares is based on 100% attention, which is being done since Feb'22, except in periods when material (lever arrangement to Pt 31357209) is not available, it is made functional in 1° and last coach. Workshop was requested to improve material availability & turn out coaches with 100% functional parking brakes.
[6]	Repair/overhauling of different passenger amenity items like Sliding & hinge door, window glass & toilet.	Workshop confirmed that these items being attended during POH. Contract for PU painting has been finalised against which work will start soon. Buffing of Lav pan & other 5.5, items has been included in contractual Scope of Work.
[ie]	ACP	Workshop confirmed that 100% ACP is made functional during. POH since last one year. Depot should inform specific cases if it is found non-functional in any coaches.
(iv)	Smoke detector	For coaches in which it is fitted, AMC is being processed.
		For fresh fitment in balance coaches, sanction under RSP will be required, which is being proposed.
(v)	Gear Case	Workshop confirmed that 100% Gear cases is attended during POH. Depot should inform specific cases if, any.
[90]	Air leakage from Tap charger & Swisch group	It was informed that GACO washer of Balaji and ISCO make are failing regularly in ER coaches also. Shop was advised to get the material checked as per drawing/specification by CMT. Shop informed that fresh order has been placed for Alpha make. The issue needs to be analysed from design/poor quality of material point of view.
(vii)	Air dryer OVH	Workshop confirmed that 100% Air dryer is made functional during POH. Depot should inform specific cases if it is found non-functional in any coaches. Workshop informed that depots are not undertaking prescribed schedule maintenance, which should be checked.
[vin]	Axle lock crack due to defect in Traction Motor	Workshop informed that BHEL & CGL Motors was having problem of breakage of fan blade & unbalancing Shop ha started doing MPT of fan blade & balancing during which out of 275 checked, 70 fan blades was found crack & 210 cases of unbalance. These are unusually high cases which need to blaken up with OEM.
(ox)	POH Booklet	Shop informed that now POH booklet is being sent with rak itself, it will also be sent by email.

(c) RSP item: Fitment of emergency talkback system in ladies coaches:

ECR has informed KPA vide letter no. ECR/MECH/ MEMU/102 dt. 25.08.22 for procurement and litment of this item in 49 takes at their end during POH of takes. Workshop informed that case of supply & filment on ER coaches for same item is under process. ECR quantity will be included in this.

- (d) Credit for sold out condemned coaches & condemnation of coaches;
 - (i) Credit for following sold out coaches are yet to be transferred to ECR:

Year	No of thaches	Coach Nos.	
2020-21	n tC	22001, 22000, 22007, 22003	
2021-22	1 TC	220041	
2022-23	210	22018, 22035A	

(ii) Under Condemnation

Coach No	Status		
MC 21021	Workshop plans to convert these coaches into self propelled inspection		
MC 21020	Car. Certification of "Over aged & unserviceable for passenger services" will		
	be provided by Workshop.		
TC 2086-8 Stripping done and will be offered to Store for sale by 10.09.2022			

- (iii) Report on 1 MC & 6 TC burnt in Agniveer agitation:
 - TC: report for condemnation for 5 and repair for 1 TC has already been sent.
 - MC report for "beyond economical repair will be sent shortly.

(e) Material assistance:

Truck for INATHA shed was collecting material for KPA on 07.09.22, Following Items are being spaced.

- (i) Pantograph 1
- (iii) HHPTM 1
- (iii) Rectifier Motor 1
- (iv) Lightening arrestor 1
- (v) MCP contractor 2 serviceable
- (vi) Servo Motor for wiper assembly 4 serviceable
- (vii) TFP oil pump 1 new + 1 serviceable

2. LLH Workshop:

- (a) POH Outtoin:
 - (i) Till Aug. 11H has carried POH of 171 coaches against target of 25x5 = 125. Workshop has assured to undertake POH @ 35/month, subject to feed.
 - (ii) As on 08.09.22, there are
 - 22 coaches inside shop including 8 Power Car and 1 RA EC013.
 - 3 Power Car, 5 LWS and 1 LWSCN have been made ready but not pulled out from Shop.

(iii) Power Car:-

- 8 Power Car (6 G.C. and 2 Cummins) are in shop. 3 of these (2 Cummins & 1 G.C.) will be tuned out in Sept. 8 rest in Oct 22.
- G.C. Power Cars are getting delayed due to material which is expected by 30.09.22.
- As per data given by AME/Chg./ECR, there are 38 more Power Cars due POH till March'23
 (10 G.C. 4 Kirloskar and 24 Cummins). LLH has requested to send Cummins PC on priority
 since contract for Cummins is available. G.C. PCs should be sent from Nov.'22 onwards.
 LLH will undertake POH of PCs @i4/month. Workshop was requested to increase the
 outturn to 5-6/month considering large arising of ECR during 22-23.

- (b) Modification of LIBA pipe line liter. ECR letter no. ECR. HOMEO(CHG)/36/2020 distinct 21 08:22. Curbs continued vide letter no. LBC 3/LHB/PLXIII dated 07:09:22 that all eligible coaches of ECR will be modified from Oct. 22 onwards.
- id Redtenage
 - Overstance, into used that they are princessing for replacement of CRP tray with 55 metal trough bullow 8550 to 5 coaches to gain experience. For bulk replacement, sanction under RSP will be required 68ts 1.25 takh/coarties to the meantime, ICI has issued CAI for repair procedure for roof testage which the work drop plans to implement.
- (d) Revised weing Lagrant with modified junction flox of ROSO's letter no. MC/DIB/Brake dt. 27.02.19. It is being done on ECR against supply & filment contract for which P,O has been issued for 2 makes.
- (e) As Brake Pipes & listing modifications: ROSO letter no. MC/LHN/Brake dt. 12.04.2019.
 124 has infermed EER vide letter No. LRC 3/Contract/P1 VIII dt. 31.08.22 that. "LEH finalised AMC contract with OEAI for ER coaches only. ECR finalised AMC for ECR coaches. Hence, ECR should advice OEAI to undertake these attentions during POH at LEH."
- (f) Assistance of material, LDI has agreed to space following items:

\$N	PLNo	Material description	QTY In nos.	QTV spared
1	77037500	Paint Enamel Synthetic Golden Yellow finishing	40	20
	\$1010738	Internal combustion engine crankcase oils for diesel engine	420	MIL
3	33613053	FOLDARLE SAFETY RAIL FOR 2- TIER LIB COACHES	50	20
4	33500060	Asic Box Pivot Dush	10	NIL
5	36437852	Valve flushing complete	100	20
b	33599452	FOOT REST MULTISTAGE ARRANGEMENT FOR LHB TYPE AC CHAIR CAR	20	NIL
7	33672593	INTERLOCK WASHER SUITABLE FOR M16 BOLT	500	100
5	86010402	DCP CO2 Cartridge Type) Fire Extinguisher	50	NIL
9	30536024	GRAVITY COCK	300	50
10	30972851	DOOR LATCH R.H. TO RCF	50	NIL
11	33501002	Primary Vertical Damper	50	16
12	31357969	Cut off angle cock with vent and reducing bush	20	20
13	33570530	Folding Table for AC First Class of LHB Coaches.	24	NIL.
14	73156279	Prevaling torque type her nut with non-mettallic	200	NIL
3.5	30972759	Installation Lever Assembly with Ball and Socket	50	NIL
15	30478200	Worm drive hose clamp 35mm	100	100
1.7	30478194	Worm drive hose clamp 50mm	100	20
18	30478182	Worm drive hose clamp 70mm	50	NIL
19	33560365	SET OF GLASS ASSEMBLY AND LOCK FOR BODY SIDE WINDOW FOR LHB NON AC COACHES	100 set	NIL
20.	33560158	SEALED WINDOW GLASS UNIT SIZE: 1419 x 819 x 18.18 mm for LHB AC Chair Car Coaches.	50	NIL
71	73571003	Screw Self Tapping Round Head Type C 10x22mm	5 HDS	3000
7.2	30478110	Steel Wire Rope 3 mm naminal dia with fibre core,	1000 mtr	200 mtr
13	33870597	HEX HEAD PLUG SCREW M22X1.5	5	-
14	33501282	HEX HEAD SCREW CTRD M20X60	10	5

(Anii Kumga Gupta)

CWE

Date: 14.09.2022

No ECR-HQ0INech[Wark]/30/2020

Copy: PCME/ER, ECR - for kind information.

CWE/ER - for kind information.

CRSE/Chg./ECR, CWM/LLH, CWM/KPA - for information & n.a. pl.



CHEMICAL & METALLURGICAL LABORATORY

CASTILLE BALLET PARTITIONS

रमञ्जिक एवं धानुकर्मक एयोग्यामा बनारी एवं गामकिया कारवाना विन्हुया - पूर्व रेजवे



Sample No: \$\555/2022

TEST CERTIFICATE NO: F/LLH/LAB/28 dated 24/10/2022

Material: 01 no broken Bolster Helical spring (outer) for MEMU Trailer Coach was received in two parts from Dy CME/CHG/KPA/ER, vide letter no. MCP/Mat.Cell/4/3005 dated 17/10/2022 for Failure Analysis.

History: During inspection at Sonepure sickline, the Bolster Helical spring (outer) attached with MEMU T/C Coach

History: During inspection at Solepanno 41082, found broken in two parts.

ICH .		01 no.Broken Bolster Helical spring (outer) for MEMU Trailer Coach
MEMIC Coach No. and type of Coach	- 4	41082 MEMU T/C
11-MU Court Str. and 54		13/10/2022, at Sonepur sickline.
hate and place of Failure	32	13/09/2022 at KPA
YIH	1	03/2024
R Dr	101	MEMU/TC-0-5-006
Drawing No.	184	52CrdMo2V to WD-01-HI S-04 (Rev 3) Amendment slin to 1 c

Material Specification 2. Visual observation: Broken Bolster		52Cr4Mo2V to WD-01-HLS-94 (Rev.3). Amendment slip no 1 of September 2016.
		al spring (outer) for MEMU Trailer Coach
2 1 Location of Fracture	Fracture took place at third active coil of the spring at bottom side.	
2 1. Location of 170	Constitue comp teams	more inclined at apple of 450 to enring axis & progressive in

2 Nature of Fracture Fracture was transverse, inclined at angle of 45" to spring axis & progressive in

2.3 Other Observations

nature indicating torsional mode of fracture.

(i) Corrosion pits with high concentration are observed at/near the fracture face.

Fatigue nucleated from the corrosion pits and grew up to approx. 10-20 % of

cross-sectional area of the fracture face.

(ii) Pair of small surface cracks found at/near fracture face.

(iii) Source of stress concentration is indicated by the Chevron pattern found on the fracture surface.

(iv)Stamping particulars: CM AFJ 02 20 G57

(v)Diameter of the coil- 41 mm.

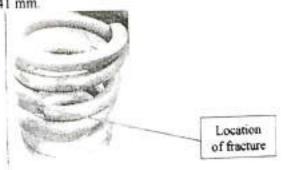




Fig. 1: Broken Bolster Helical spring (outer) with stamping particulars.

3 Macro-examination: The macro-examination was conducted on the spring sample cut near to the fracture face. The test revealed corrosion pits and pair of small surface cracks al/near the fracture face, after deep etching in 1:1 hot HCl solution.

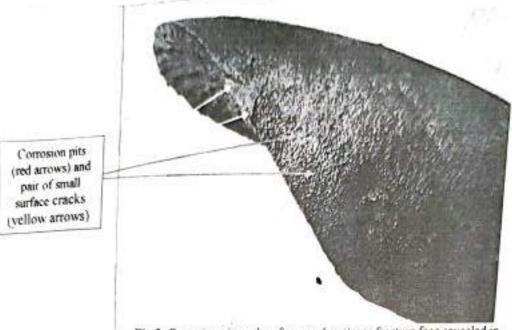


Fig.2: Corrosion pits and surface cracks at/near fracture face revealed in macro-examination.



Fig.3: Fatigue initiated from corrosion pits present at/near fracture face

3			
	mech	mnicel	Properties

Test Parameter	As specified in S2Cr4Mo2V to WD-01-IIIS-94(Rev.3), Amendment slip no. I of September 2016 for Cr-Mo Steel	As found	Inference
Average Hardness (in BHN)		460	Conforms
			019

Contd 3

Test Parameter Themical Composition Test Parameter Themical Composition	As specified in Gr. 52Cr4Ma2V to WD-01-H1S-94(Rev.3), Amendment slip no. 1 of September 2016 for Cr-Ma Steel	As Found	Inference
	Neptember 2010 J. September 20	0.52	Conforms
Carbon %:-	0.70-1.10	0.89	Conforms
Manganese % -	0 15-0.40	0.21	Conforms
Silicon*a	0.90-1.20	1.03	Conforms
('hromium'sc-	0.07-0.12	0.12	Conforms
Vanadnan ^a s -	0.15-0.25	0.19	Conforms
Moh bdenum*a -	0.025 Max	0.014	Conforms
Phosphorous on -	0.025 Max	0.005	
Sulphuran -			

Micro Examination:



Fig. 4: Micro Examination (500X, 2% nital) of the transverse section of the material revealed tempered martensitic structur 6. Discussion: (i) Chemical composition of the item are satisfactory to Gr. 52Cr4Mo2V of RDSO Spec. WD-01-HLS-94(Rev.3), amendment slip no. 1 of September 2016 for Cr-Mo Steel.

(ii) Hardness value of the spring is found to be satisfactory as per Gr. 52Cr4Mo2V of RDSO Spec. WD-01-HLS-94(Rev.3), amendment slip no. 1 of September 2016 for Cr-Mo Steel

(iii) Micro-examination of transverse section of the item revealed tempered martensitic structure as per RDSO Spec. WD-01-HLS- 94(Rev.3), amendment slip no. 1 of September 2016 for Cr-Mo Steel

(iv) Presence of corrosion pits at/near the fracture surface indicates that the spring was exposed to corrosive environment. Initiation and growth of fatigue occurred from these corrosion pits which acted as sites of stress raisers. Presence of surface cracks reduced fatigue strength of the material before final fracture of the spring in chevron pattern.

7. Conclusion: Based on above discussion, it is concluded that failure of the bolster helical spring (outer) is attributed to fatigue crack originated from corrosion pits at/near the fracture face. Small surface Dy.CCMT/LLH cracks further accentuated the failure of the spring

8 Remedial Measures: Presence of corrosion pits and surface crucks on the spring surface should be avoided

Dist (i) Dy.CME(M)-LLH - for information please. by Dy CME CHG, KPA ER - for information please

hajSSE E-Shop-for information please.

Minutes of meeting with DY CEE/W/KPA and Sr. CDO/TS/JAJ held on 02.11.22 in the chamber

Members present:

KPA

JAJ

Sri G. N. Halder, DY CEE/W Sri K.N.S. Yadav, Sr. CDO Sri Nilesh Bhallavi, WM/C Sri J. Karmakar, AWM/EMU

Sri S K. Singh, Sr SE

The following points were discussed in the meeting and the decision taken in the meeting are furnished below --

- Arising of POH rake is 2 rakes per month which is being maintained.
- 100 days' failure Suitable action will be taken by KPAW to avoid such failures
 - 1) Trailer coach bogle bolster failure - It is under investigation and report to be sent to JAJ in due course.
 - In Motor Coach No.40033, MCP connecting rod failure on 29.09.22, POH done on 20.09.22
 - In Motor Coach No. 40033, Air dryer failure on 22.09.22. Make KBL. POH done on 20.09.22
 - iv) In Motor Coach No.40050, Gear case felt seal failure on 15 10.22, POH done on 20.09.22
 - In Motor Coach No. 199136, Oil pump motor not working failure on 15.09.22. POH. V) done on 24 07 22
 - In Motor Coach No 40055, Support bolt of stopper plate of reverser coil found VI) - failure on 12.09.22. POH done on 31.08.22.
 - In Motor Coach No. 19858, BP Hose pipe burst failure on 04 08.22. POH done on viii) 02.06.22
 - Other failures Suitable action will be taken by KPAW to avoid such failures.
 - In Motor Coach No.188524, VCB punctured on 29 10 22, POH done on 08.02.21 Material manufactured in February, 2019. Make AAL. Observation: To raise issue with the manufacturer.
 - Failure of air pipeline of new tap changer to be checked for recent failure.
 - Wiper motor not working properly. Make ELGI. To check during POH
 - iv) Failure of Gaco Rubber Washer has been increased recently Quality of Gaco washer needs to be checked.
 - Off POH defects/deficiencies Suitable action will be taken by KPAW to avoid such failures

During checking of POH rakes at JAJ shed in ICO schedule General defects/deficiencies are noted as below -

- Inter/After cooler & CDC Gasket not replaced. 1
- Nut & bolts are either found loosely fitted or deficient at many locations 2 (in Tap changer, switch group, cattle guard, vertical damper etc.)
- Cables of control/power circuit are sometimes found loosely fitted/with 3 damaged insulation.
- Transformer oil leakage from draining port. 4
- Pressure gauges not fitted. 5.
- BP pipe for Loco attachment is generally not replaced 6
- TM junction box stud found broken also cable are loosely fitted. 7.
- Defective wipers & wiper assembly not replaced. 8.
- Anchor links found loosely fitted also vertical damper defective. 9
- Damaged/defective floor sheets are not replaced. 10.
- Replacement/repairing of passenger amenities items i.e. window glass. 11 door shutter not ensured.

Necessary action will be taken to curb above defects/deficiencies.

5

The details of failure on account of leakage from EP Contactor are furnished below:-

Dt. of failure	Motor Coach	Last POH	Name of EP contactor
14.07.2022	40121	OCT-2021	T-4
13 07 2022	40047	OCT-2021	T-5 & T-7
13 07 2022	40010	FEB-2021	WCO
07.07.2022	188175	APR-2021	T-6
05 07 2022	188178	APR-2021	T-3
04 07 2022	21034	JAN-2021	NC-4
03.07.2022	188524	AUG-2021	T-8
29 06 2022	188174	JULY-2021	T-8 & WCO
29.06.2022	40002	JULY-2021	M-1 & M-4
29 06 2022	40066	JULY-2021	T+8
01.06.2022	40115	JAN-2021	NC-1 & NC-2

Other issues

- Fitment of parking brake during POH is being done in both ends of driving motor coaches.
- Working of Smoke Detector is to be ensured. A sanction in RSP from II) MEMU Shed is required for fitment of smake detector in coaches, where it is not fitted earlier
- Overhauling of Air dryer & BUD To be ensured during POH. iii)
- Conversion of Inspection Car Conversion of oveaged motor coach to Inspection car bearing No.21020 & 21021 of which one is for E.C.R.

Detailed information is to be sent to E.C. Rly soon.

Assistance of materials

- 1. HHP Motor
- High Capacity TM (Overhauled).
- 3. BUD
- 4 Servo Motors for wiper
- Lightening arrestors.
- Carbon brush holder for high speed Traction Motor (BHEL & CGL make)
- 7. ABR relay & Light/Fan contactor set.
- 8 Sun Visor
- 9. Roller sliding assembly

(K N S Yadav) Sr CDO/TS/JAJ

No EC/T/Misc /GH/

DY CEE/WIKPA

November 2, 2022

Distribution:

CVVM/KPA - for kind information please

CESE/ECR/HJP - for kind information please.

DY CME/Workshop/ER/HQ - for information please

DY CME/TS/ECR/HJP - for information please

DY CME/C/KPA - for information please

MINUTES OF MEETING BETWEEN SRI A.K.SINGH, CESE/ECR & SRI S.KUMAR, CWM/KPA ON 25.02.2022 DURING OFFICIAL VISIT OF CESE/ECR AT EASTERN RAILWAY WORKSHOP, KANCHRAPARA

Members attended:

1	Sri A.K. Singh, CESE/ECR	2	Sri S.Kumar, CWM/KPA/ER
	Sri. Adarsh Kumar, DME/MEMU/JAJ/ECR	4	Sri G.Halder, Dy.CEE(W)/KPA/ER
	Will I total on I total on the control of the contr	5	Sri D.K. Thakur, Dy.CME(C)/KPA/ER
-		6	Sri. J.Karmakar, AWM/EMU/KPA/ER

Points discussed:

- Total 6 rakes of 16 coaches will be due for POH upto March 2022. POH planning will be done accordingly.
- POH of Traction Motor 9 no. (1 HHP + 8 Normal) TMs will be sent to KPA from JAJ by 1" week of March 2022, which are to be POHed by KPA & to be returned to JAJ as early as possible. From KPA side it has been decided that 4 no. normal TM to be sent by March 2nd Week.
- Overhauling of TM Shed reported that, total 7 nos (6 HHP + 1 Normal) is in isolated condition during service due to problem of EFRP & Pinion out. It will be send to POH shop.
- Side Bearer Crack- at JAJ some cases of damaged side bearer is reported. Longer length stopper bolt may be
 the cause of the damage. It has been decided that, further on Shorter length Stopper bolt will be used on Dust
 Guard
- Vertical Damper 900 Kgf for MC & 600 Kgf for TC- few cases of leakage have been observed by shed within 100 days of POH. It is to be checked by KPA end.
- Radial Damper 200Kgf for MC & 100 Kgf for TC few cases of leakage have been observed by shed within 100 days of POH. It is to be checked by KPA end.
- Parking Brake: Parking Brake components found deficient & not functioning. Incoming deficiency will be made good & both end of the rake formation will be provided with parking arrangement with KPA stock subjected to material availability.
- Sliding & Hinge door in MC & TC cases of malfunction of sliding & hinge door have been reported. KPA
 to ensure proper POH of both doors & greasing to be ensured at JAJ end.
- Window Glass in some cases window glass found missing in TC & MC. It will be properly checked &
 ensured before dispatch of Rake.
- Toilet -toilet furnishing & bio-tank attention of TC to be properly done at KPA. Innoculum filling in Off-POH coaches to be ensured at JAJ end.
- 11. ACP Proper attention to ACP & connected devices to be ensured at KPA.
- Smoke Detector in MC- Proper POH of smoke detection system to be ensured at KPA. To ensure proper functioning of smoke detection system training will be provided to JAJ by KPA.
- 13 Cattle Guard of MC- Proper attention to the damaged CG to be ensured at KPA.
- 14. Gear Case Felt wick pad of GC found damaged & leakage of bluecoat reported from GC GC Vertical & Lateral Bolt found missing in some cases. It has been already ensured as Felt wick supplied by Mallick Felt Industries was detected defective in some cases & material has been rectified by the firm at KPA.
- Buffing Gear A case of buffing gear centering bolt found damaged in TC was reported. It will be ensured at KPA end.
- 16. Suspension Bearing Housing SB topping arrangement thread found missing/bend. A case of wickpad of SB housing found in burnt condition has been reported. It may be the after effect of bearing broken case However, necessary attention will be taken from KPA.
- 17. TM in Junction box it is found that bolt is missing due to thread damaged. Also found that TM foundation bolt fitted of different size. It will be checked properly.

- 18. MC Jumper Spare connection to retain as usual. It has been followed already only in few cases where jumper has been changed it will be ensured further.
- 19. TAP Changer Gasket Leakage Gayco Washer leakage was found & brakeage of Nylon Pipe which has been already noticed in other division also. Corrective action from KPA is already taken.
- 20. Wheel of MC & TC Mixing of Cast & Forged wheel has been reported. It will be ensured by KPA and
- 21. Air Suspension Leakage It is reported that, air suspension bellow has been tilted during service in some cases & also leakage reported. However, during checking at shed no leakage is found. Training for setting of leveling valve & fixation arrangement of Air suspension will be provided to JAJ shed.
- 22. Center Pivot Fixation Bolt in some cases fixation bolt thread of center pivot is found damaged/loose. Proper tightness to be ensured at KPA end. Root Cause Analysis to be done at JAJ end.
- 23. Bogie a case of anchor-link of different sizes in same brake beam has been reported. It will be ensured by
- 24. Speedometer shed sought requirement of at least 5 complete sets of speedometer. It will be apared as per
- 25. Jumper cable shed sought requirement of at least 200 mts of 19 core Jumper cable. It will be spared as per
- 26. MSU Axle Wheel set of MC 4 nos MSU Axle Wheel set PO issued in favour of KPA. Some of the items, will be send by shed to KPA, after that complete assembly of wheel set will be done & dispatch to shed
- 27 Condemnation of coach 5 nos over aged TC was send by shed for Condemnation. After complete process.

Sri D.K. Thakur, Dy.CME(C)/KPA/ER

Dy.CEE(W)/KPA/ER

CWM/KPA/FR

Sri A.K. Singh, CESE/ECR