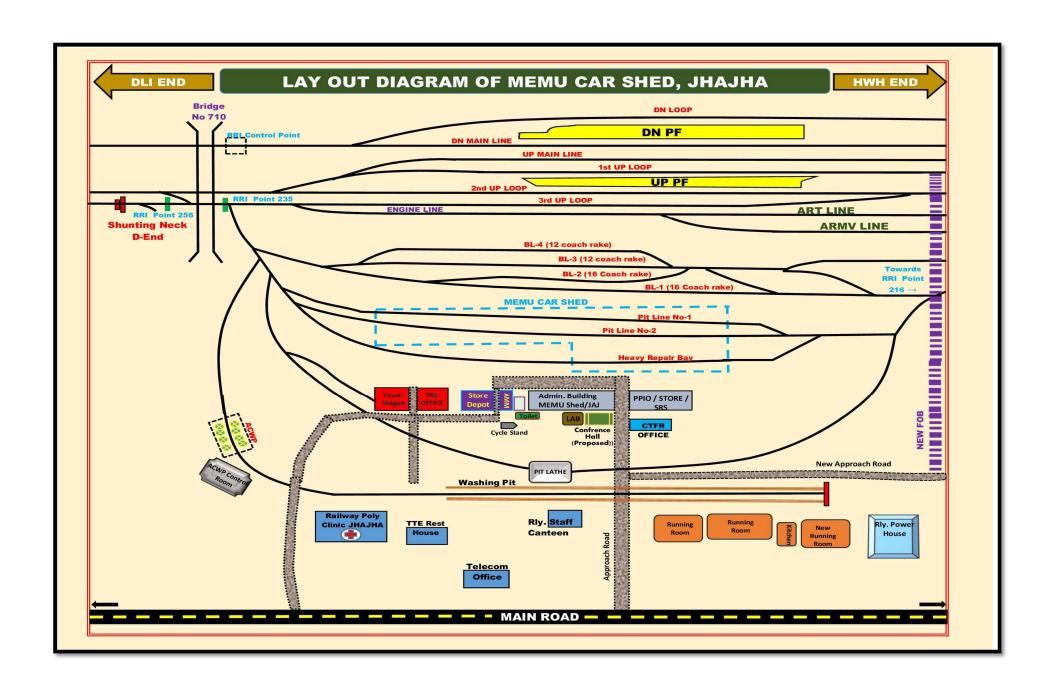
# **MEMU CAR SHED JHAJHA**

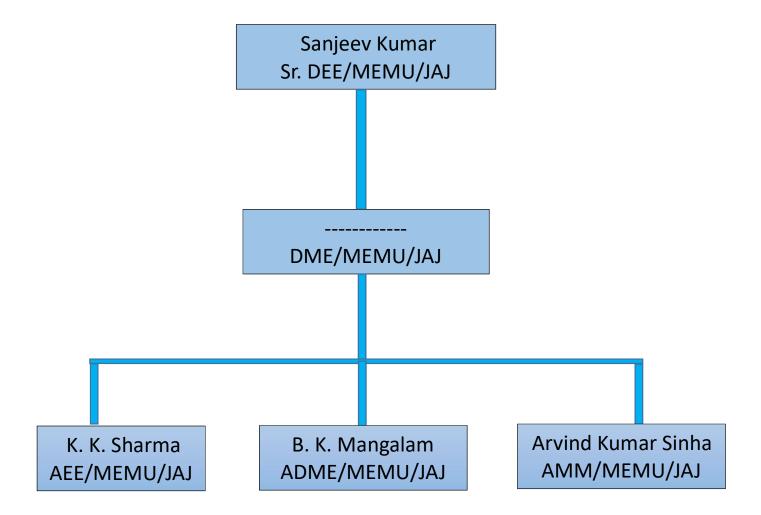


EAST CENTRAL RAILWAY,
DANAPUR

Sr. DEE/MEMU/JAJ



# **Gazetted Organization**



# **Glimpses of MEMU Shed Jhajha**

>	Foundation of MEMU Car Shed, Jhajha	:	14.02.1999
>	Inauguration of MEMU Car Shed, Jhajha	:	01.10.2003
>	Arrival of 1st MEMU rake & Night Inspection	:	13.10.2003
>	Commissioning of 1st MEMU rake	:	13.01.2004
>	Weekly Inspection of 1st MEMU rake	:	15.02.2004
>	Monthly Inspection of 1st MEMU rake	:	18.10.2004
>	Commissioning of 25/05 Ton EOT crane	:	07.01.2006
>	Lifting of 1st MEMU Coach by Jamalpur Jack	:	14.06.2006
>	Introduction of 16 car MEMU rake	:	25.07.2008
>	Commissioning of CNC Under floor Lathe (B.G)	:	27.08.2010
>	Transformer changing of 1st MEMU done	:	03.04.2013
>	Commissioning of 1st DGA Machine	:	25.09.2014
>	Commissioning of Speedometer Test Bench	:	20.10.2016
>	Commissioning of 03 Phase BEML MEMU Rake	:	22.12.2021
>	Commissioning of Screw Air Compressor Capacity 500	:	17.02.2022
>	CFM, 7.5 Kg/cm2 Commissioning of 01set (05 Nos), 25 Ton capacity	:	30.07.2022
>	Synchronised lifting Jamalpur jack Commissioning of transformer oil filteration plant	:	08.09.2022
>	capacity 3000 Lph Commissioning of 2 <sup>nd</sup> DGA machine (under	:	03.10.2022
>	commissioning) Commissioning of EP test bench (Make-ESCORT)	:	03.04.2023
>	Automatic transformer oil BDV test apparatus received	:	17.03.2023
>	Automatic Coach Washing Plant commissioning	:	30.11.2023

#### Infrastructure & Facilities:

Details	Qty
Pit lines	02 no. (16 coach length)
Stabling line	04 no. (02, 16 coach & 02, 12 coach length)
Lifting bay	01 no.
Washing Line	01 no.
No. of EOT Crane 25/5 MT	2 no.
Pit wheel lathe machine (PWL)	1 no.
Automatic Coach Washing plant	1 no.
Screw Air Compressor Capacity 500 CFM, 7.5 Kg/cm2	1 no.
25 Ton capacity Synchronised lifting Jamalpur jack	1 Set( 05 no)

## ☐ Holding of MEMU Car Shed, Jhajha:-

> CONVENTIONAL	
MEMU Motor Coach	187 Coaches
MEMU Trailer Coach	559 Coaches
Total coaches	746 Coaches
Rakes 12 coach	23 rakes
Rakes 16 coach	24 rakes
Services	142 Trains

### ☐ Man-Power Position of MEMU Car Shed, Jhajha:-

➤ Sanctioned Strength	-	234
> On Roll	-	205 (Vacancy 29 )
As per yardstick (3 Men /Unit)	-	561
CURRENT IR AVERAGE MPR / unit	-	2.50
➤ CURRENT MPR of MEMU Shed JAJ	-	1.1 (lowest in IR)

## ☐ Staff Position of MEMU Shed, Jhajha

S.N.	CATEGORY	SANCTION	ON ROLL	VACANCY
01	Sr. SECTION ENGINEER	16	12	4
02	JUNIOR ENGINEER	10	6	4
03	МСМ	22	29	-7
04	Tech-I	59	55	4
05	Tech-II	24	12	12
06	Tech-III	25	22	3
07	App. Tech-III		4	
08	Khalasi/H. Khalasi	56	57	-1
09	App. Khalasi		0	
10	Office Clerk	1	1	0
11	Armature Winder	1	0	1
12	Carpenter	1	1	0
13	Crane Driver	2	1	1
14	Draft Man	1	0	1
15	Machinist	2	0	2
16	Mill Wright	1	1	0
17	Painter	1	0	1
18	Plant Attendant	1	0	1
19	Shed Comp. Attendant	1	0	1
20	Store Clerk	2	0	2
21	Time Keeper	1	0	1
22	Tool Checker	1	0	1
23	Welder	4	2	2
24	CMS	1	1	0
25	Peon	1	1	0
	Total	234	205	29

#### ☐ Utilization of MEMU Units as on 04.09.2024 :-

S.NO	PARAMETERS			MEMU SHED JAJ	
	COACHING HOLDING	MC		TC	TOTAL
01. (a)	CONVENTIONAL MEMU	18	B <b>7</b>	559	746
a)	MEMU'S				
02.	Designed Capacity of the shed (in terms of 8/9 12 /16 Car			Details	
03.	No of formed rakes (Conventional MEMU's)		-0		
a)	16 Coach rake	25 rake	100	300	400
b)	12 Coach rake	23 rake	69	207	276
	Good Spare coaches		4	2	6
	One 16 coach rake & One 12 coach rake + Seven TC 41268,		7	28	35
	41262,41327,41363, 41337, 41340, 41364				
	Booked for POH		3	12	15
	Under repair coaches		2	8	10
	Coach Completed its codal life (Kept at Shed)		1	1	2
	Burnt damaged coaches (Kept at Shed)		1	1	2
	TOTAL=		187	559	746
04.	No. of MEMU rakes for Daily Service				
a)	Rake on line daily 16 coach	23 rake	92	276	368
b)	Rake on line daily 12 coach	21 rake	63	189	252

### ■ Rake Link of MEMU Shed Jhajha:-

JAJ-PNBE-DDU-BXR-FUT-NES-FUT-RGD-DNR-RGD-FUT-BXR-BSB-BXR-DDU-PNBE-MKA-KIUL-PNBE-DDU-PNBE-ARA-PNBE-BSB-SGRL/BSB-SKTN-BSB-PNBE-GAYA-PNBE-GAYA-PNBE-GAYA-PNBE-BJU-PNBE-DDU-PNBE-ARA-SSM-ARA-SSM-ARA-SSM-ARA-PNBE-JSME-PNBE-GAYA-PNBE-GAYA-PNBE-GAYA (16 Coach Rake -15 nos)
 GAYA-DOS-DDU-DOS-GAYA-KIUL-GAYA-PNBE-GAYA-DOS-GAYA-DDU-SFG-DDU-GAYA-PNBE-GAYA-PNBE-GAYA-PNBE-GAYA-PNBE-Empty Coach/DNR-BJU-DNR-RPR-PNBE-BJU-PPTA-PNBE-BXR-PNBE-JAJ (16 Coach Rake -8 nos)
 SEE-KIR-SPJ-MFP-SPJ-BJU-KIR-SPJ-MFP-PPTA-DBG-RXL-DBG-PPTA-MFP-NKE-MFP-RXL-DNR-RXL-MFP-NKE-PPTA-NKE-MFP-NKE-MFP-RXL-MFP-SPJ-KIR-BJU-PNBE-IPR-PNBE-IPR-PNBE-JAJ (12 Coach Rake -15 nos.)
 JAJ-PNBE-PPTA-BJU-SPJ-SHC-SPJ-SHC-SPJ-SHC-SPJ-KIR-SEE-CPR-SEE-CPR-SEE (12 Coach Rake -8 nos.)

### **■** SECTION OF MEMU CAR SHED, Jhajha:-

- PPIO (Planning, Progress and implementation Office)
- Electrical Section
- B&B Section(Mechanical + Pneumatic)
- Special Repair Section & CNC Pit Wheel Lathe
- Store Section
- Technical Cell

### ☐ Type of activity by MEMU/CAR/SHED, Jhajha:-

- Trip Inspection (15+0/-3 days)
- IA (60+0/-5 days).
- IC (240+0/-10 days)
- POH (18 months) at KPA Workshop/E.Rly.

**Heavy repair:** - Changing of Transformer, Pantograph, Compressor, VCB, Choke tank, Traction Motor, Auxiliary Motors, Radiator, Bogie, Wheel & Axle etc. as and when required.

❖ Revised periodicity of maintenance schedule – Rly. Bd. L. No. 95Elect (G)/181/9Pt. Dtd. 14.08.19

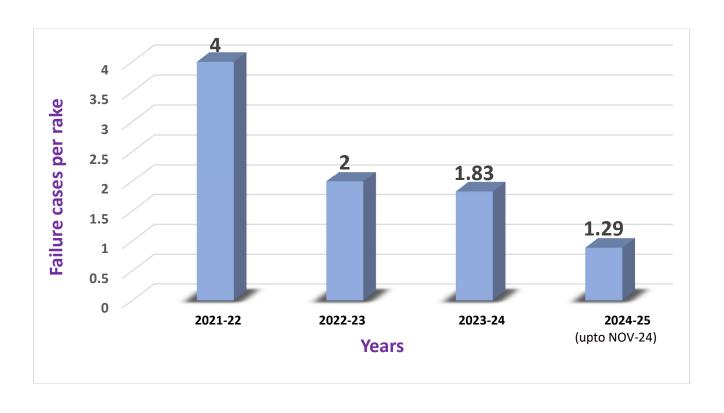
### **□POH** activity of MEMU Coach.



## **Assets Failure (As per ICMS)**

SN	Head	2021-22	2021-22	2021-22	22 2022-23	2022-23 2023-24	2023-24	2024-25	% Imp over last
					Upto NOV		year		
1	No. of rakes in service	30	47	47	47	47			
2	Asset failure of Jhajha based MEMU coaches	120	97	86	57	61	-7		
3	Failure per rake	4	2	1.83	1.21	1.29			

## ICMS Failure Cases per rake.



## **Month Wise Failure Analysis FY 2024-25**

SN	Head	APR	MAY	JUNE	JULY	AUG	Sep	ОСТ	NOV	Total
1	Wrong operation by LP	4	3	4	3	2	1	2	4	16
2	PU pipe burst		1	3						4
3	Air Suspension bellow burst	1	1			1			1	3
4	BP/MR hose pipe cut			1	1	1				3
5	Toggle /limit Switch				2					2
6	Ferrule joint/check nut joint			1		1				2
7	WGR piston stuck(tap changer)		1							1
8	WCO steam valve stuck			1						1
9	Brake block	1								1
10	TM internal defect/bearing seize					1		1		1
11	Power cable M3 failure			1						1
12	Malfunction of EFRA 2 relay	1								1
13	SR not pick up					1				1
14	MCP oil nil	1								1
15	pneumatic pipe broken from thread				1					1
16	MRIC/EPIC/BPIC cock operated by miscreant		1							1
17	OHE tripping		1							1
18	Signal bell not working						1			1
19	No feed in 1412A & shunt power cable burnt.						1			1
20	BACH Capacitor bank burst						1			1
21	Outer bolster broken							1		1
22	Line clearance not given timely by RRI							1		1
23	Foot step welding broken.							1		1
24	Triple valve defective							1		1
25	LTR tripped							1		1
26	1412/1412A wire broken								1	1
27	Parking brake applied								1	1
28	Feed valve defective					1				
	Grand Total	8	8	11	7	8	4	8	7	61

### **Technical/Nontechnical failure**

Head	Sub-head	2023-24	2024-25
		(Up to I	NOV)
Technical	РОН	12	8
	Material	9	11
	Maintenance	5	14
Non tech	TRD/OHE	0	1
	Miscreant	19	2
	Operational/LP	13	25
	Total	57	61

SN	Head	RAP
1	Crew account	<ol> <li>Online training related to minor trouble shooting of line failures and operation issues has been given to Crew. Approx. till date 250 Crew has been trained through this training program. It is being continued.</li> <li>Crews are book at MEMU Shed, Jhajha and counselling is being done.</li> </ol>
		An intensive drive for checking of Power cables in MEMU MC has been
2	Power Cable	launched from 09.06.24 tll date 136 MCs have intensively checked out of which in 04 MCs bulging of Power cables and melted Power cables has been found and these are jointly attended with staff of Workshop/KPA.
		2. Radium marking on power cable nuts.
		<ol> <li>Grease gun are being used for greasing of TMs during IC schedule as recommend by RDSO. Till date one cycle has been completed and it is continued.</li> </ol>
3	тм	<ol><li>Irreversible Temp strip is being fitment on bearing side to observe any abnormal Temp rise in TM for Early changing to arrest line failure. Till date one cycle has been completed and it is continued.</li></ol>
		<ol> <li>Special attention is being paid to cleaning of Mio filters of TM3 &amp; TM4. Till date one cycle is completed and it is continued.</li> </ol>
4.	PU pipe burst	A drive has been launched for changing of old PU pipes with white color GARFLON 202 Nylon tube from 01 July24, Out of $187\ MCs$ till date 174 MCs has been completely changed with white color GARFLON 202 Nylon tube.
		Regular Instruction to NS points is being given regarding cleaning of MCP contactor and checking of cut-in & cut-out of MCP governor as RDSO recommendation.
5	MCP oil nil	<ol><li>PPIO/Jhaha is liaison the NS point staffs on regular basis during Night stabling of rakes.</li></ol>
		3. MEMU Sjhed, Jhajha officials is visiting NS points regularly.
6.	Bursting of air	<ol> <li>Premature Material failure of 140KN capacity air spring. Joint checking with firm representative has been done.</li> </ol>
0.	Suspension bellow	<ol><li>A letter has been written to RDSO to provide proper guideline for replacement of 140KN capacity of air spring.</li></ol>
		1. Availability of material at CSD/ JAJ is being ensured.
7	Brake Binding	2. Regular chasing at officer level is being done.
8	Ferrule joint/check nut joint	To arrest chance of opening of Ferrule joint MRIC & BPIC secure with GI wire and proper tightens of its checkout is being ensured during inspection at Shed.

9	MRIC/EPIC/BPIC cock operated by miscreant	EPIC & BPIC are secured with GI wire/cable tie during inspection at Shed.						
10.	Counselling to concerned staff has been done for proper securing pipe after attachment.							
11.	SR not pick up	Counselling of maintenance staff is being done.						
	General RA	P						
a)	Earmarking of MEM	Earmarking of MEMU trained staffs and their deputation during NS to be ensured.						
<b>b</b> )	Tools and materials availability to be ensured at NS points							
c)	Filling of NS Performa and posting it in Groups.							
d)	Preferably TL staffs to be trained for MEMU.							
e)	Crew and maintenance staffs to be trained at NS points itself by sending instructors from JAJ.							
f)	Vifalta se Seekh to be started for maintenance wing and also to be circulated widely.							

### Training organized status i.e. no of manpower trained till date.

#### A. Physical training

Physical Training for Trouble shooting related to online failures of MEMU rakes has been imparted to total 18 nos. of SSE, JE & maintenance staffs in this FY 24-25 till date.

#### B. Online training

Online training related to trouble shooting of line failures was conducted on **17.05.2024 & 03.07.24**. Approx. 250 **staffs (CLI, LP and ALP)** had participated from SEE & SPJ of ECR.

Refresher course i.e. no. of Manpower of MEMU Shed Jhajha trained till date

Till date a total of 12 staffs has been provided refresher course training at MDWTC/KPA & ETTC/DDU in FY 2024-25.

### ☐ ACHIEVEMENTS 2023-24

- 1. One Rake of 16 coaches was provided for PM inauguration of line between Narkatiaganj and Gaunaha. This Rake was inaugurated by Honourable Prime Minister of India, Shri Narendra Modi on 06.03.2024.
- **2.** ACWP (Automatic Coach Washing Plant) was inaugurated by General Manager East Central Railway, Shri A.K. Khandelwal on 20.12.2023.
- **3.** In the month **Jun-23** one 16 coach MEMU rake has been provided to E.Co. Rly. To cater the rush during "PURI RATH YATRA".
- **4.** In the month **Jul-23** one 16 coach MEMU rake has been provided for SHRAVANI MELA SPCL.
- **5.** In the month **Aug-23** one no. 12 coach MEMU rake has been provided for BPSC Teacher Recruitment Exam on 25.08.2023 & One no. 16 coach MEMU rake has been provided for SHRAVANI MELA SPECIAL on 16.08.2023
- **6.** In the month **Oct-23** new MEMU passenger special services (03333 & 03234) in between section JAJ-DGHR and extension of 03273 & 03274 has been started w.e.f. 13.10.2023. Accordingly, timely maintenance of MEMU rakes have been started by MEMU Shed Jhajha to provide MEMU Services on above mentioned new routes.
- **7.** In the month **Nov-23** one MEMU rake of 16 coach formation has been provided to work as kartik Purnima puja special train.
- 8. Scrap disposal done in FY 2023-24 : 126 MT of value ₹ 49,33,744.40 against target of 87.78 MT.

#### **ACHIEVEMENTS FY 24-25**

- 1. In Sept-2024, asset failures has been kept 4, resulting in a rate of 0.08 per rake. This is the lowest rate recorded in FY 2024-25 and represents a 56% reduction compared to the same month last year.
- 2. 80 nos. LED Twin Beam light have been fitted and replaced with Halogen type in DMC of MEMU rakes at MEMU shed Jhajha.
- 3. In the month of JULY-24, a drive has been launched for replacement of all old fitted blue PU pipes with white colour super flexible GARFLON 202 nylon tube in tap changers and switch groups of MEMU motor Coaches for prevention of line failure due to PU pipe burst. In last two months such cases become nil. So far, a total of 174 motor coaches have now been fitted with white coloured super flexible GARFLON- 202 nylon tube. TDC for 09 remaining coaches: Sep 24.
- 4. An intensive drive for checking of Power cables in MEMU MC has been launched from 09.06.24 tll date 175 MCs have intensively checked out of which in 11 MCs bulging of Power cables, melted Power cables oil leakage from JB has been found and these are jointly attended with staff of Workshop/KPA.
- 5. 01 MEMU rake of 12 coach formation has been provided in June 24 to work as Exam special train (Diploma certificate entrance competitive examination).
- 6. 02 MEMU rakes of 16 coach formation have been provided in July 24 to work as "PURI special train" & 01 rake of 16 coach formation has been provided to work as "SHRAVANI MELA special train".
- 7. 01 MEMU rake of 16 coach formation has been provided in Aug 24 to work as "EXAM SPECIAL train".
- 8. 01 MEMU rake of 16 coach formation has been provided to work as SRGR-DGHR in replacement of 3 phase MEMU in Sept 24.
- 9. The modification work on the pneumatic pipelines in MEMU MC 188004 has been completed to facilitate the inspection of the TFP secondary Junction Box.

## In-house developed gadgets at MEMU Shed, JHAJHA



Portable SPM Test Bench



**Trolley mounted lights** 



**Trolley Mounted Ladder** 



Pantograph test bench





Gadget for ESR pin & male disc extraction

### **■New activities**

> Grease Gun



> GACO Washer



> Cleaning of Mio-Filter



> Temperature Strip



## > THERMAL SCANNING



## > TIGHTNESS CHECKING



> RADIUM
MARKING OF
POWER CABLE
BOLTS



## **□**Improvements



### **□**ASSISTANCE REQUIRED

- ➤ Posting of points man round o'clock at MEMU Shed Jhajha. Also problem arises in shunting due to less space inside Shed premises and use of traffic lines.
- Quarter for MEMU Shed, Jhajha and colony amenities in JAJ.
- ➤ One no. supervisor's rest house is required. Since officials from KPA, RDSO, DIVISIONs visit MEMU Shed jhajha time to time about his work such as for training, joint report, heavy shed attention work, audit, etc.
- ➤ Filling of vacant posts –

SANCTION	ON ROLL	VACANCY
234	205	29

#### **SANCTIONED RSP ITEMS**

#	Particulars of Work	Sanction year/ Allocation	Cost (in Thou)	Qty	Remarks
1.	Wheel & Axle set for MEMU FTM (Fuji Traction Motor)	2021-22 / DF-3	4228	04 set	PO of one of the NS item (91 Teeth Gear) issued to M/S Swastika Kolkata on 23.12.2022. DP 06.02.2023 but firm failed to supply even after continuous request. Hence PO cancelled on 25.02.2024. Four times tender done by AMM/JAJ office but due to single offer with higher rate, tender had to cancel and finally discharged.  Letter for procurement of Gear wheel teeth has been given to CWM/KPA from HQ/HJP side.  Indent is under preparation to be placed to KPA for procurement.
2.	Procurement of supply, testing and commissioning of LED Twin beam head light (Bulk RSP).		141.00/unit	80 nos.	LOA issued on 26.01.2023 to M/S Marvel ,Mumbai for 32 set and M/s Matshushi, Dehradun for 48 set. Matsushi has supplied on 18.01.2024 and Marvel on 24.04.2024. Fitment in all 80 M/C have been completed by 14.05.2024.
3.	Buchholz Relay for MEMU Motor Coach, BHEL drawing no E6250029P16 CS No ACS 6002, make/brand- P&B WEIR UK or equivalent		678.22	10 nos.	PO issued on 20.11.2024 to M/S Rajesh Traders. DP- 04.01.2025.
4.	Single Bottle VCB Complete 600 A for application on 25 KV AC EMU as per CLW specification CLW/ES/C-47 ALT-G or latest, suitable for MEMU application.	Sanctioned vide Rly. Bd. L. No. 2022/M(c) / 142/4-Part (1)	1485.56	04 nos.	PO issued on 21.11.2024 to M/S Autometers Alliance Limited. DP- 20.02.2025
5.	Supply, testing, commissioning of LED twin beam head lights in 20 nos. of conventional MEMU Motor coach from RDSO approved sources as per specification no.	(Under Umbrella	1227.09	20 Nos.	PO issued on 21.11.2024 to M/S Power Technology Corporation. DP- 20.02.2025
6.	Metal oxide gapless lightning arrester for 25KV BG AC EMU/MEMU Specification /Drg. no: RDSO's Specn. No.SPEC/E-1/2/05 dt.1987.Ammendment-1		576.99	10 Nos.	As per Sr.DMM/DNR office, procurement has been dropped due to stock item.

Set of top and Bottom arching Contact (Tungsten tipped) for Tap changer Contactors in MEMUs as per KPA drg. No 7. ER/KPA/EL/GR-4HE.3084C or M/S BHEL Drg no 35801130102V00 CS no BCS 1263 or latest. Suitable for MEMU Application	243.69	170 set	PO issued to PRP Enterprises, Bhopal on 12.06.2024 with DP 27.07.2024. Material not supplied. DP extended up to 27.09.2024. Letter given to firm on 21.09.2024 and advised to supply material urgently. Further reminder-I also served on 12.10.2024. if firm again fails to supply, cancellation for PO will be initiated. PO cancelled, retender is under progress at AMM/CSD/JAJ.
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#### SANCTIONED BULK RSP 2023-24 (PINK BOOK ITEM NO. 796/2024-25)

Sl.no	Description	Qty.	Status
1.	Provision of smoke detection	168	Indent initiated for procurement. After approval of
	/fire alarm and suppression	MEMU	PCME/HJP on 04.11.2024. It is under procurement
	system	units	at PCMM/HJP.

#### PROPOSED RSP ITEMS IN ITEMISED RSP PROGRAMME 2025-26 UNDER ALLOCATION CAP IN PH-21.

SI.	Description	Qty.	Status
no.			
1.	CABLE 19 CORE 3 sq mm, 750 volts, composition class - 5, with elastomeric insulation and sheath, colour of sheath- black. Conforming to rdso specification no. : spec/e-14/01, (part -i), rev- ii, 1993, with amendment no. 2 april- 1998, amendment no. 3 april-2000 & amendment no. 4 september – 2003.	7500 mtr.	Proposal has been vetted by HQ/HJP finance. It is
2.	CABLE SINGLE CORE 3 sq mm 750 volt, composition class- 5, with elastomeric insulation, colour- black. Conforming to rdso specification no. spec/e-14/01 (part i), rev ii,1993, with amendment no.2 april-1998, amendment no.3, april-2000, amendment no.4, september- 2003.	30000 mtr.	under approval of GM thereafter
3.	CABLE SINGLE CORE 6 sq mm, 750 volts, composition class - 5, elastomeric insulation and sheath, colour of sheath black to rdso specification no. spec/e-14/01. (part - i), rev ii, 1993, with amendment no.: 1 november 1997, amendment no.: 2 april - 1998, amendment no.: 3 april- 2000 & amendment no.: 4 september - 2003.	4250 mtr.	will be submitted to Rly. Bd.
4.	CABLE SINGLE core 25 sq mm, 750 volts, composition class- 5, with elastomeric insulation, colour - black. conforming to rdso specification no.: spec/e- 14/01 (part i): rev ii - february 1993, amendment no. 2 - april 1998, amendment no. 3 - april- 2000.	5000 mtr.	for sanction.

5.	CABLE SINGLE CORE – 50 square mm, 750 volts, composition class: 5, with elastomeric insulation & sheath. Colour of sheath black. Packing length 100 mtrs plus/minus 5 percent tolerance. Length less than 95 mtrs. Will be supplied separately or along with last length of cable. Specn/drg.no.: rdso specn. Nospec/e-14/01 (part i):revii- 1993, with amendment no:1 november 1997, amendment no:2 april-1998, amendment no: 3 april – 2000 & amendment no:4 september – 2003.	2500 mtr.	
6.	CABLE SINGLE CORE- 95 Sq.mm, 1500 VOLTS, COMPOSITION CLASS - 5, WITH ELASTOMERIC INSULATION AND SHEATH. COLOUR OF SHEATH- BLACK. CONFORMING TO RDSO SPECIFICATION NO: SPEC/E-14/01 (PT-II): REV-II, FEBRUARY-1993.	3000 mtr.	
7.	Cable single core 150 Sq mm, 1500 Volts, Composition Class 5, with Elastomeric Insulation and Sheath, Colour of Sheath Black, Conforming to RDSO Specification No. SPEC/E-14/01 Part II,Rev- 2- 1993 with amendment No. 1.	14375 mtr.	
8.	Air Dryer-Twin Tower heat less Generating type Air Dryer with final filter to RDSO Specification No. MP.0.01.00.06 (REV.05) March 2011. As per RDSO Approved Sources suitable for MEMU application	10 Nos.	
9.	Main Air Compressor for MEMU Motor Coaches as per RDSO Specn. No. 70 BM-41 JAN-1979 Make ELGI or KPC.	09 Nos.	
10.	Electro-Pneumatic Brake unit complete for EMUs as per M/S Escorts Drg. No. 0A68051/A or M/S WSF Part no. ID70231/4 or M/S KBL Drg. No. C213883 & II 106238 as per RDSO Spec no. RDSO/2013/CG-03 (Rev1).	30 Nos.	
11.	KPCL make DC motor, 9.4 KW, 110 V DC as per KPCL drawing no. LP-7901 REV-01 &LP-7902 Rec-01 for use in AC EMU/MEMU Motor coaches as per RDSO specification No 70-B-M-41. Make /Brand-KPCL.	10 Nos.	
12.	BOGIE BOLSTER ARRGT. FOR AIR SPRING MEMU/ TC COCHES TO DRG. NO.ET04130 ALT-c. Note- DIMENSION AGAINST THE ITEM NO.17 SHOULD BE READ AS 259 MM IN PLACE OF 236 MM. Material to be procured from RCF/ICF Sources only.	12 Nos.	
13.	Bogie Frame Arrangement for Air Spring MEMU TC Bogie as per RCF Drg. No. ET03150 ALT F. RDSO Spec. No. C-9202 & ICF/MD/Spec147 incorporating RCF Coach Alteration instruction No. CAI/RCF/MECH/CONV/126 REV 01 For MEMU TC Bogie Frame and Drg. MI007441 ALT A.	12 Nos.	
14.	Contactors (T1-T9) of MEMUs as per KPA drg. no ER/KPA/EL/GR-4HE.3084C or M/S BHEL's Drg. no. 35801130102V00, CS no. BCS 1263 Fig. ref. B030 page no. 59 and BHEL's Drg. No. 35801130102V01,CS no. CCS1263, fig. ref. C001 page no. 61 of M/S BHEL's price list 2013-14. Suitable for MEMU Application/	170 Set	
15.	Single bottle VCB complete 600A for application on 25 KV AC EMU as per CLW specification CLW/ES/C-47 Alt F and RSO Spec. no. E.2/05/84 and ICF/SK/908 or latest.	06 Nos.	

#### Sanctioned M&P item

S.N.	Particulars of Work	Sanctioned year	· ·	' '	Remarks
			Cost (in Rs.)		
1.	Diesel Engine operated automatic forklifts (GODREJ) 3.0 T Diesel FLT Model GX 300 D 2-stage MFH 3660 MM ATT Single drive PNEU Tyres 1-speed 18%. Make GODREJ or similar.	2023-24 (PH -41 / CAP )	1122115.86	l no	As per Sr.DMM/DNR office, file for TR has mistakenly been submitted to then Sr.CDO/MEMU/JAJ IREPS platform. Withdrawn of said file is yet to be done and will be put up to Sr.DEE/MEMU/JAJ for TR.
2.	TROLLEY MOUNTED MOBILE SEWAGE EVACUATION MACHINE with Positive displacement reversible rotary lobe pump of capacity: 150 Litres Per Minute.	, ,	1285448.41		It is under retendering stage at Sr. DMM/DNR office.
3.	Supply, installation, commissioning & testing of ESMON/Speedometer test bench for EMU/MEMU coaches. As per technical specification in Annexure-'1'		352925.59	01	Detailed estimate has been vetted on 22.11.2024. Indent is under preparation.

#### **Sanctioned PWP Works**

S.N.	Year of section	РН	Name of Works	Cost	Remarks
				(in Rs	
1.	2019-20 (GM Power)	CAP / PH-42	Conversion of heavy repair line into inspection pit line and two no. short stabling line at MEMU car Shed; Jhajha (Gati Shakti)  O1. Conversion of heavy repair line into inspection pit line.  O2. Two no. short stabling line.		Work completed. As SSE/Elect (G)/JAJ, LOA for Electrical work has been issued to firm in March-24. Work is yet to be started by firm.
2.	2021-22 (GM Power)	DF-3/PH-42	Improvement of basic infrastructure at MEMU Shed Jhajha(Gati Shakti)  1. Repairing of leaky roof, valley Gutter  2. Replacement of damaged aluminum & transparent sheet.  3. Painting of steel structure.		Work started but presently stopped. (Repairing of leaky roof, valley Gutter partially completed. Final checking and finishing of leaky roof, gutter is to be done. Replacement of sheet and painting partially completed). Painting of steel structure of tendered qty. has been done. As per SSE/W/JAJ ,Sr.DEN-II/DNR has terminated this tender on 15.07.2024 for not turning up of contractor to complete the remaining work since last 08 months. Retender is under progress.
3.	2021-22 (GM Power)		<ul> <li>Augmentation of MEMU</li> <li>Shed Jhajha .(Gati Shakti)</li> <li>1. Approach road to MEMU shed.</li> <li>2. Two nos room for Testing Lab.</li> <li>3. Toilets facility for Officers.</li> <li>4. Motor cycle stand.</li> <li>5. Conference Hall</li> <li>6. Separate common urinal and lavatory for female and male employees.</li> </ul>		<ol> <li>Work started on 14.12.2022 and it is under progress.</li> <li>Approach road completed.</li> <li>Motor cycle stand completed.</li> <li>Construction of common urinal and lavatory for employees is under progress.</li> <li>Construction of conference Hall and room for testing lab is under progress.</li> </ol>
4.	2019-20 ( GM Power)	,	Construction of basic training center at MEMU Shed Jhajha. (Gati Shakti)	7517	Work not yet started.

Thanks .....