

**Supply of Inter Vehicle coupler for 3-Phase on-Board MEMU for conversion of 8 car rake into
16-Car Rake formation in Zonal Railways**

RCF has rolled out 3 Phase MEMU rakes with 8-car formation. For converting these 8-car rakes to 16-car Rakes one 4-car BU shall be attached on either side of 8-car rake as shown in SKED-920 alt-nil. This modification will require 01 set of additional IV couplers (Jumper) with plug connectors (Harting make) on both ends as per the following details:

Table -1: RCF-BHEL 3-Phase MEMU rakes conversion of 8 car MEMU rakes to 16 car formations:

SN	Description of Jumpers	Item no. of SKED-920 alt-nil	Qty in nos. per set
1	Mounting bracket Assembly (1set comprising of 2Nos. Mounting bracket)	9	1

TC-3 AE Side to DMC Nose Cone:

SN	Description of Jumpers	Item no. of SKED-920 alt-nil	Qty in nos. per set
1	Double end jumper cable C	3	1
2	Double end jumper cable D	4	1
3	Jumper P	8	1

TC-3 NAE Side to DMC Nose Cone:

SN	Description of Jumpers	Item no. of SKED-920 alt-nil	Qty in nos. per set
1	Double end jumper cable A	1	1
2	Double end jumper cable B	2	1
3	Double end jumper cable G	5	1
4	Double end jumper cable H	6	1
5	Double end jumper cable J	7	1
6	Jumper P	8	1

Note: The size of cables and connectors shall be compatible for M/s BHEL Electrics.

Table -2: RCF-Medha 3-Phase MEMU rakes conversion of 8 car MEMU rakes to 16 car formations:

SN	Description of Jumpers	Item no. of SKED-920 alt-nil	Qty in nos. per set
1	Mounting bracket Assembly (1set comprising of 2Nos. Mounting bracket)	18	1

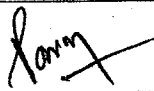
TC-2 AE Side to DMC Nose Cone:

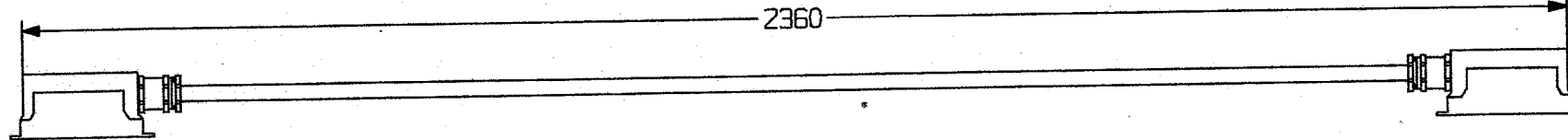
SN	Description of Jumpers	Item no. of SKED-920 alt-nil	Qty in nos. per set
1	Double end jumper cable B1	12	1
2	Double end jumper cable B2	13	1
3	Jumper P	17	1

TC-3 NAE Side to DMC Nose Cone:

SN	Description of Jumpers	Item no. of SKED-920 alt-nil	Qty in nos. per set
1	Double end jumper cable A	10	1
2	Double end jumper cable G	11	1
3	Double end jumper cable D	14	1
4	Double end jumper cable F1	15	1
5	Double end jumper cable F2	16	1
6	Jumper P	17	1

Note: The size of cables and connectors shall be compatible for M/s Medha Electrics.

EDML-219	Nil	23.12.2023			1 of 1
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FOR RCF-BHEL ON BOARD MEMU RAKE

ITEM NO.	ITEM	PART NO. OF HARTING CONNECTOR WITH GLAND/ LUG FOR BOTH END	CABLE DETAILS
1	DOUBLE END JUMPER CABLE ASSY-A	84200000024026	CABLE 2X35+34X2.5, 3GKW 600/1000V CABLE, OD - 36.2 MM
2	DOUBLE END JUMPER CABLE ASSY-B	84200000024027	CABLE 2X35+34X2.5, 3GKW 600/1000V CABLE, OD - 36.2 MM
3	DOUBLE END JUMPER CABLE ASSY-C	84200000024028	3CX(CAT5)+ 10NOS-1CX2.5SQ.MM + 8NOS-2CX1SQMM WITH SCREEN- JACKETED 3GKW 600/1000V CABLE, OD-39 MM
4	DOUBLE END JUMPER CABLE ASSY-D	84200000024029	3CX(CAT5)+ 10NOS-1CX2.5SQ.MM + 8NOS-2CX1SQMM WITH SCREEN- JACKETED 3GKW 600/1000V CABLE, OD-39 MM
5	DOUBLE END JUMPER CABLE ASSY-G	84200000024030	2CX50 SQMM -3GKW-600/1000V-OD-36MM
6	DOUBLE END JUMPER CABLE ASSY-H	84200000024031	4CX16 SQMM 1.8/3KV CABLE, OD-28 MM
7	DOUBLE END JUMPER CABLE ASSY-J	84200000024032	4CX16 SQMM 1.8/3KV CABLE, OD-28 MM
8	JUMPER CABLE ASSY-P	84200000024033	1CX95 SQMM - 3GKW 600/1000V CABLE BLK
9	MOUNTING BRACKET ASSY-2NOS. (COMPLETE SET FOR NOSE CONE)	84300000024027	MOUNTING BRACKET ASSY - 1SET

FOR RCF-MEDHA ON BOARD MEMU RAKE

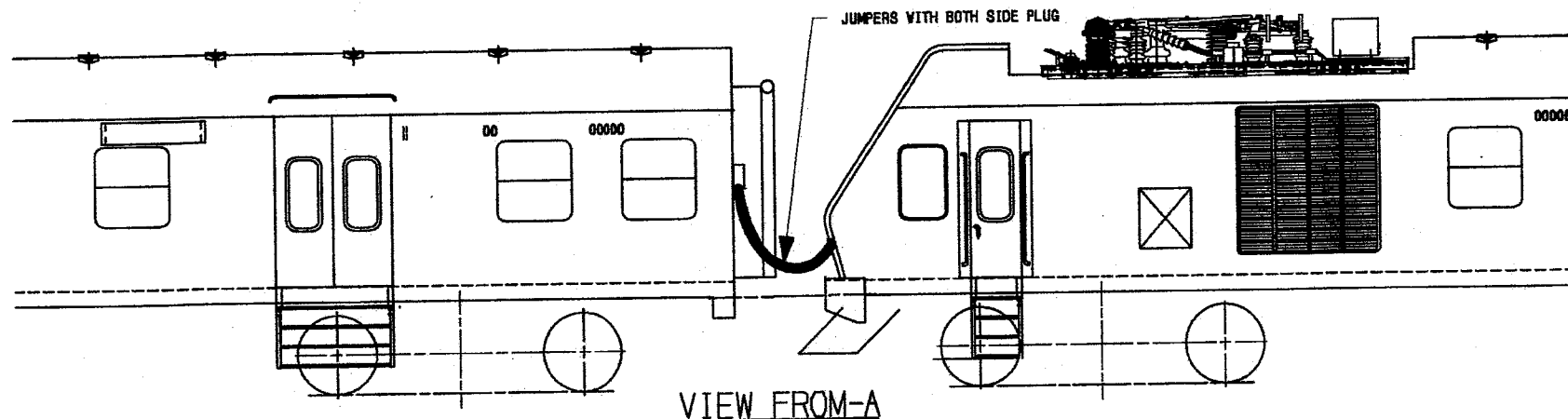
ITEM NO.	ITEM	PART NO. OF HARTING CONNECTOR WITH GLAND/ LUG FOR BOTH END	CABLE DETAILS
10	DOUBLE END JUMPER CABLE ASSY-A	84200000024019	1C X 2.5SQ.MM + 3*(4C X 22AWG)+2*(2C X 0.5SQ.MM) + 1*(4C X 0.5SQ.MM) + 4C X 0.5SQ.MM + 2C X 0.75SQ.MM
11	DOUBLE END JUMPER CABLE ASSY-G	84200000024020	1C X 2.5SQ.MM + 3*(4C X 22AWG)+2*(2C X 0.5SQ.MM) + 1*(4C X 0.5SQ.MM) + 4C X 0.5SQ.MM + 2C X 0.75SQ.MM
12	DOUBLE END JUMPER CABLE ASSY-B1	84200000024021	3C X 25SQ.MM + 1C X 16SQ.MM
13	DOUBLE END JUMPER CABLE ASSY-B2	84200000024022	1C X 6SQ.MM + 6C X 10SQ.MM
14	DOUBLE END JUMPER CABLE ASSY-D	84200000024023	2C X 50SQ.MM + 1C X 25SQ.MM
15	DOUBLE END JUMPER CABLE ASSY-F1	84200000024024	46C X 2.5SQ.MM + 1C X 2.5SQ.MM
16	DOUBLE END JUMPER CABLE ASSY-F2	84200000024025	46C X 2.5SQ.MM + 1C X 2.5SQ.MM
17	JUMPER CABLE ASSY-P	84200000019019	1CX95 SQMM CABLE
18	MOUNTING BRACKET ASSY-2NOS. (COMPLETE SET FOR NOSE CONE)	84300000020025	MOUNTING BRACKET ASSY - 1SET

NOTE : ALL CABLES SHALL ROZO APPROVED FOR 3PHASE MEMU RAKES AND COMPATIBLE WITH M/S BHEL/MEDHA ELECTRICS.

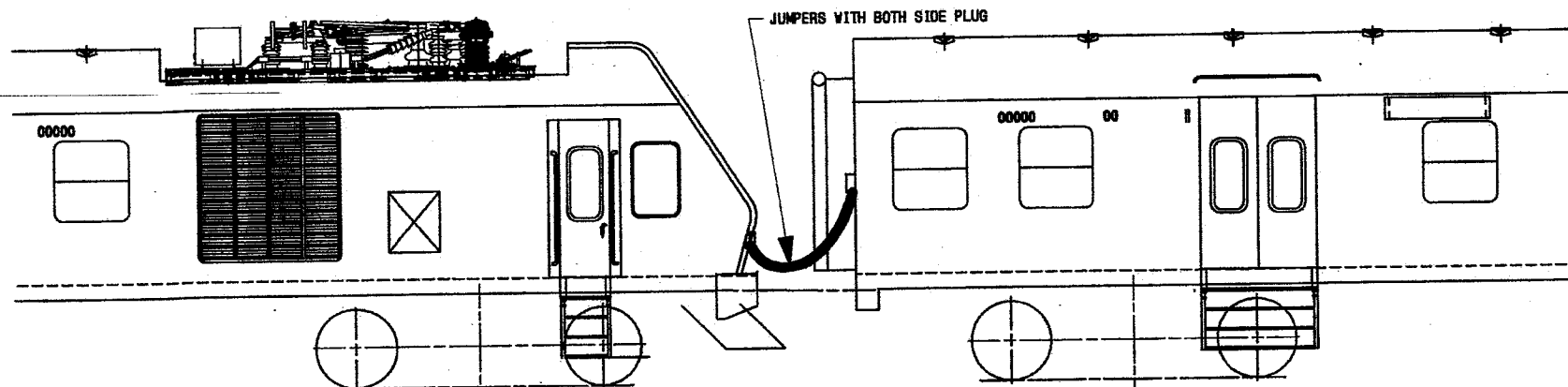
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FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 21/12/2023

NIL	WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	W/ASSEMBLY	DETAIL DRO	NIL	NIL	NIL	NIL
NIL	WEIGHT	GROUP	ELECTRICAL	FILE	D:\Pavan\INX Drawing\For IVC\Final\IVC lenght.prt	SUPERSEDES: NIL			
NIL	SCALE	SSR/SD	ADDITIONAL IV COUPLER ARRANGEMENT FOR CONVERSION OF 8-CAR 3PHASE MEMU TO 16-CAR 3PHASE MEMU RAKE						
NIL	AREA	DATE	RAIL COACH FACTORY, KAPURTHALA			REF. NO. NIL			
NIL	LENGTH	BY	रेल कोच फैक्टरी कपूरथला			PL NO. NIL			
NIL	WIDTH	CHKD	IRS			DRG. NO. SKED-920			
NIL	HEIGHT	DATE	21/12/2023			ALT. NIL			
NIL	BY	DATE	21/12/2023			SIZE A3 SHEET 3/3			



VIEW FROM-A



VIEW FROM-B

WELD LENGTH		ITEM	DESCRIPTION & DIMENSIONS	QUANTITY	DETAIL DWS	MATL. & SPEC.	REMARKS
NIL	N	GROUP	ELECTRICAL	SUPERSEDED: NIL			
WEIGHT	FILE	C:\Users\w360606\Desktop\Layout BH&L 146sets.p					
NIL	KG	ADDITIONAL IV COUPLER ARRANGEMENT FOR CONVERSION OF 8-CAR 3PHASE MEMU TO 16-CAR 3PHASE MEMU RAKE				SCALE	SSG/SD
S. AREA							
NIL	M ²						CHD
LENGTH / DIA							DRW
NIL	N	RAIL COACH FACTORY, KAPURTHALA				REF. DRG. NO.	NIL
WPTH / THICK		रेल कोच फैक्टरी कपूरथला				PL NO.	NIL
NIL	N	IRS				DRG. NO.	SKED-920
HEIGHT						ALT.	NIL
NIL	N	BY SEE/IN/PROJECT				SIZE	A3 SHEET 2/3

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FOR UNTOLERANCED DIMENSIONS REFER MDG00006	DATE OF FIRST ISSUE	21/12/2023
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Corrigendum-1 to EDML-219, Rev. Nil

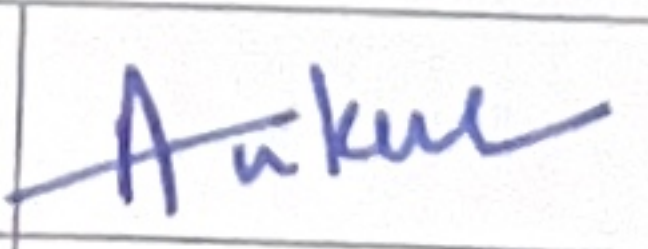
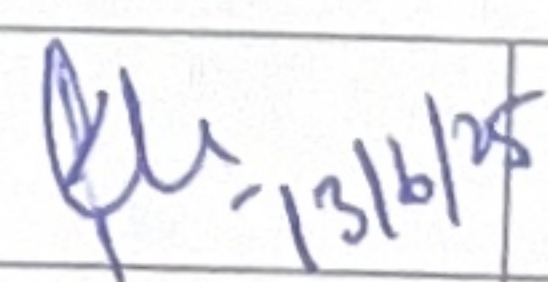
This corrigendum is issued to EDML-219 Rev. Nil for the conversion of 8-car on board 3-Phase MEMU rake to 12 car on board 3 Phase MEMU rake as shown in SKED-920 alt. Nil

Existing description:

RCF has rolled out 3-Phase MEMU rakes with 8-car formation. For conversion these 8-car rakes to 16 car Rakes one 4-car BU shall be attached on either side of 8 car rake as shown in SKED-920 alt-nil. This modification will require 01 set of additional IV coupler (Jumper) with plug connectors (Harting make) on both ends.

Revised description:

RCF has rolled out 3-Phase MEMU rakes with 8-car formation. For conversion these 8-car rakes to 16 car Rakes one 4-car BU shall be attached on either side of 8 car rake as shown in SKED-920 alt-nil. This modification will require 01 set of additional IV coupler (Jumper) with plug connectors (Harting/Equivalent make) on both ends.

EDML-219 Rev. Nil	Corr. 1	13.06.2025		 13/6/25	1 of 1
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