रेल डिब्बा कारखाना, कपूरथला
RAIL COACH FACTORY, KAPURTHALA

MD35131 **Date:31.01.2026**

Sub: Issue of corrigendum-1 to **MDTS-39424 Rev.01** Purchase Specification for HS-SPART

Following is the corrigendum to MDTS-39424 Rev.01**(Purchase Specification for HS-SPART)** for information and necessary action at your end:

S.N	Clause No.	Earlier	Modified
1.	Table of clause 9.19.A, "Make" column of S.N1	Dräger, Mindray, Avante Health Solutions, Philips Healthcare, or any other make approved by CDE/RCF	Dräger, Mindray, Avante Health Solutions, Philips Healthcare, Diamedica or any other make approved by CDE/RCF or any unit of Indian Railways
2.	Table of clause 9.19.A, "Make" column of S.N2	Medtronic (Valleylab) and ERBE or any other make approved by CDE/RCF	Medtronic (Valleylab), ERBE, Easemed or any other make approved by CDE/RCF or any unit of Indian Railways
3	Table of clause 9.19.A, "Make" column of S.N5	Dräger, GE Healthcare, Mindray, Avante Health Solutions, or any other make approved by CDE/RCF	Dräger, GE Healthcare, Mindray, Avante Health Solutions, Foremost Meditech or any other make approved by CDE/RCF or any unit of Indian Railways
4	Table of clause 9.19.A, "Make" column of S.N6	Belimed AG, Tuttnauer , Getinge AB, STERIS Corporation, or any other make approved by CDE/RCF	Belimed AG, Tuttnauer , Getinge AB, STERIS Corporation, Zohra Surgical or any other make approved by CDE/RCF or any unit of Indian Railways
5	Table of clause 9.19.A, "Make" column of S.N7	STERIS, Getinge, Stryker, Skytron, Mizuho OSI, Trumpf Medical, or any other make approved by CDE/RCF	STERIS, Getinge, Stryker, Skytron, Mizuho OSI, Trumpf Medical, Ventek or any other make approved by CDE/RCF or any unit of Indian Railways
6	Table of clause 9.19.A, "Make" column of S.N8	Medela, ATMOS MedizinTechnik, Laerdal Medical, and Allied Healthcare Products ,or any other make approved by CDE/RCF	Medela, ATMOS MedizinTechnik, Laerdal Medical, and Allied Healthcare Products, Goley or any other make approved by CDE/RCF or any unit of Indian Railways
7	Table of clause 9.19.A, "Make" column of S.N9	Masimo, Nellcor (Medtronic), Contec, Beurer or any other make approved by CDE/RCF	Masimo, Nellcor (Medtronic), Contec, Beurer, Clarity Medical or any other make approved by CDE/RCF or any unit of Indian Railways
8	Table of clause 9.19.A, "Make" column of S.N10	Tuttnauer, Priorclave, ,LTE Scientific, STERIS , Getinge or any other make approved by CDE/RCF	Tuttnauer, Priorclave, ,LTE Scientific, STERIS , Getinge, Zohra Surgical or any other make approved by CDE/RCF or any unit of Indian Railways
9	Table of clause 9.19.A, "Make" column of S.N12	Technomed ,Morbros, Stryker (Berchtold) , Dräger or any other make approved by CDE/RCF	Technomed, Morbros, Stryker (Berchtold) , Dräger, Ventek or any other make approved by CDE/RCF or any unit of Indian Railways
10	Clause 10 of 9.19.B	Auto Clave : It shall be high pressure vertical sterilizer stainless steel having size of 12# x 20# with a stand to hold two bins of size 11# x 9#. Electrically Operated with double walled chamber both stainless steel SS304 18 SWG, having a flange of 10 thk having a lid with locking device and easily operable. It shall be a complete unit with	Auto Clave : It shall be high pressure vertical sterilizer stainless steel having size of 12# x 20# with a stand to hold two bins of size 11# x 9#. Electrically Operated with double walled chamber both stainless steel SS304 18 SWG, having a flange of 10 thk having a lid with locking device and easily operable. It shall be a complete unit with

		pressure gauge, pressure weight, safety valve, water level indicator, timer (0-60) minutes, pilot lamps ON/Off switch to operate on 220/230 v AC 1 phase 50 Hz having a rating of 1.5 kw and not exceeding 2 kw.	pressure gauge, pressure weight, safety valve, water level indicator, timer (0-60) minutes, pilot lamps ON/Off switch to operate on 220/230 v AC 1 phase 50 Hz having a rating of 1.5 kW and not exceeding 6 kW.
11	8.9: Prototype Inspection	New Clause	Material for the prototype coach shall be inspected by the concerned TPI agency. Firm shall call RCF representative to Oversee the material inspection of prototype by TPI agency. Fitment trial of material for prototype coach shall be done by RCF at RCF premise
12	S.N. 8 of clause 9.1	-	Deleted
13	S.No.1 of table scope of supply and installation of items of clause 8.3	Coach interior LED Light fittings (Passenger area, Gangway) and details	Details to be as per Annexure-A (attached)
14	S.No.2 of table scope of supply and installation of items of clause 8.3	Disaster Management Lights and details	
15	S.No.3 of table scope of supply and installation of items of clause 8.3	Lavatory lights (2.5 W) and details	
16	S.No.5 of table scope of supply and installation of items of clause 8.3	110 V AC Mobile Charging Sockets USB type A and Type C port and stand and details	

CDE/RCF may kindly approve.

09/02/26
Dy.CME/FD

Dy.CME/FD

CQM-I,II CPLE CWE/Fur CMM/ HSQ CMM/TKJ CWE/Shell

Dy.CMM/LHB/HSQ Dy.CMM/G CMT Dy. CPLE-I,II Dy.CMM/Fur

SSE/Filing Section SSE/Library, Mech. Design SSE Record (Original copy) SSE/Dev.

Copy for kind information to:

CDE

Dy.CME/VD

Dy.CME/SD

Dy.CME/BD

SME/Design

Annexure-A

Scope of Supply and Installation of LED Light fittings and Mobile Charging sockets:

Coach	SN	Light fittings	Qty	Spec	Drg. No.	Source
Medical Van	1	Type A (18 W)	02 nos.	RDSO/PE/SPEC/TL/0091	CC76452(latest)	Regular suppliers to IR and PUs
	2	Type B1 (9 W)	14 nos.		CC76453(latest)	
	3	Lavatory Lights (2.5 W)	3 nos.		Similar to Vande Bharat Trainsets	
	4	Lights in Storage area (2.5 W)	3 nos.			
	5	Cab LED lights (6 W with50% dimmable)	4 nos.			
	6	Cab LED Spot lights over Driver Desk (6 W with 50% dimmable)	2 nos.			
	7	Signal Exchange light	2 nos.			
	8	Disaster Management Light	4 nos.	RDSO/PE/SPEC/AC/0180		
	9	LED Flood lights (100 W, 110 V DC, IP65 min.) (external; 02 nos. on each Sidewall)	04 nos.	--	--	Reputed make
	10	Mobile Charging Sockets (MCS)	06 nos.	EDML 064 (latest)	Item 18 of drg no. LW74202 (latest)	Regular suppliers to IR and PUs
Supervisor Van	1	Type B1 (9 W)	18 nos.	RDSO/PE/SPEC/TL/0091	CC76453(latest)	Regular suppliers to IR and PUs
	2	Lavatory Lights (2.5 W) (3 nos. in each lavatory)	6nos.		Similar to Vande Bharat Trainsets	
	3	Cab LED lights (6 W with50% dimmable)	4 nos.			
	4	Cab LED Spot lights over Driver Desk (6 W with 50% dimmable)	2 nos.			
	5	Signal Exchange light	2 nos.			
	6	Disaster Management Light	4 nos.	RDSO/PE/SPEC/AC/0180		
	7	LED Flood lights (100 W, 110 V DC, IP65 min.) (external; 02 nos. on each Sidewall)	04 nos.	--	--	Reputed make
	8	Mobile Charging Sockets (MCS)	08 nos.	EDML 064 (latest)	Item 18 of drg no. LW74202 (latest)	Regular suppliers to IR and PUs
Tool Van 1	1	Type J-2 (9 W)	14 nos.	RDSO/PE/SPEC/TL/0091	CC76457 (latest)	Regular suppliers to IR and PUs
	2	LED Flood lights (100 W, 110 V DC, IP65 min.) (internal in doorway area)	04 nos.	--	--	Reputed make
	3	LED Flood lights (100 W, 110 V DC, IP65 min.) (external; 02 nos. on each Sidewall)	04 nos.	--	--	
	4	Flame proof LED light (100 W, 230 V AC)	02 nos.	--	--	

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Annexure-A

Tool Van 2	1	Type J-2 (9 W)	14 nos.	RDSO/PE/SPEC/TL/0091	CC76457 (latest)	Regular suppliers to IR and PUs
	2	LED Flood lights (100 W, 110 V DC, IP65 min.) (internal in doorway area)	04 nos.	--	--	Reputed make
	3	LED Flood lights (100 W, 110 V DC, IP65 min.) (external; 02 nos. on each Sidewall)	04 nos.	--	--	
	4	Flame proof LED light (100 W, 230 V AC)	02 nos.	--	--	

a) Arrangement of Light fittings and Mobile charging sockets shall be as per SKETCH-1, 2 ,3 & 4 (enclosed).

b) Mounting provisions i.e. provision of brackets, backpieces etc. shall be in scope of Furnishing contractor. Design review with Shell design (if required) shall be carried out by Furnishing contractor.

c) Wiring shall be provided by Propulsion system supplier as per the location of Lights and Mobile charging sockets shown in SKETCH -1, 2,3 & 4. In case, location of any Light fitting or Mobile charging socket is changed by Furnishing contractor, design review shall be carried out with Electrical Design/Propulsion system supplier.

d) OGA drawings of light fittings and Mobile charging sockets shall be got approved from Electrical Design/RCF.

Scope of supply and Installation of other item by Furnishing Contractor:

i). Drain arrangement for HVAC in Supervisor vans and Medical vans shall be in scope of Furnishing Contractor.

ii). Diffuser for Cab AC shall be in scope of Furnishing Contractor.

iii). Diffuser for HVAC shall be in scope of Furnishing Contractor.

iv). Cover for traction motor ducts shall be in scope of Furnishing Contractor.

v). Aerosol in Kitchen area in Supervisor van; Lavatories in Supervisor and Medical van and Storage spaces in Tool Vans shall be in scope of Furnishing Contractor

vi). Partition frame to be designed and provided by Furnishing contractor as per requirement of Propulsion system supplier for provision of mounting brackets for Pneumatic control unit (for Pantograph), Panto isolating cock, 2 no. Air dryers for VCB.

vii). Partition frame to be designed and provided by Furnishing contractor as per requirement of Propulsion system supplier for provision of back pieces and brackets for HT cable routing from Roof to Underframe.

viii). Double layer partition frame to be designed and provided by Furnishing contractor as per requirement of Propulsion system supplier in Radiator area in Tool vans.

ix). Refrigerator for Medical van shall be provided by Furnishing contractor as per following details:

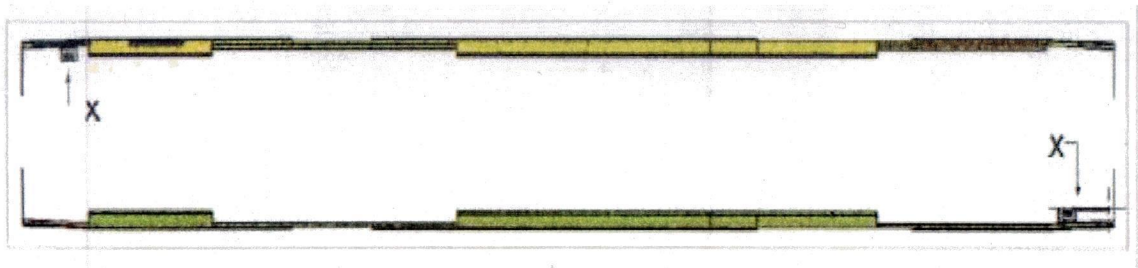
Item Description	Qty per Medical Van	Specification/Technical details	Make
Refrigerator	01 no.	i) Capacity: 325 L ii) The unit shall be five star rating as per BEE rating with smart inverter compressor	LG/IFB/Samsung/Whirlpool or equivalent make

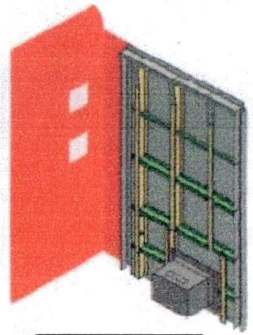
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Annexure-A

x). All electrical items provided in lavatories shall be pre-wired and terminated in one end of the terminal block assembly and other end of Terminal block assembly shall be used for coach side cable termination. Wago cage clamp type terminals shall be provided and all connections shall be properly crimped, no soldered connections shall be provided in Lavatory wiring. Terminal block assembly shall be provided with stiffener arrangement/ necessary clamping arrangement for cable securing. Proper conduit clamping and routing from Wago terminals to the equipment shall be provided and the wiring arrangement shall be got approved from Electrical Design. Grommet/End fittings shall be provided at cable entry/exit points. Cables used for internal wiring shall be of minimum 1.5 sq. mm size and conforming to RDSO specification (latest) no. ELRS/SPEC/ELC/0019. Cables shall be routed through flexible conduit to RDSO specification RDSO/PE/SPEC-D/AC/0138 (latest) or cable jacket to RCF specification no. EDTS-138. All cables and associated wiring accessories shall only be procured from approved sources of RDSO/PUs.

Flap cover arrangement for Power sockets in Tool Vans:





View from X

2 nos. Power sockets shall be provided in each Tool van for tapping the power supply from the train at accident site to operate any Tool or equipment. One no. Power socket shall be provided on each sidewall as shown in the arrangement above. Provisions in Shell i.e. cut out in Sidewall sheet and mounting provision of Power sockets have been finalised however, to cover the sockets from outside and avoid ingress of dust and water, suitable flap cover arrangement shall be provided by Furnishing contractor.

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Annexure-A

Other equipment in Tool Vans (scope of Furnishing contractor):

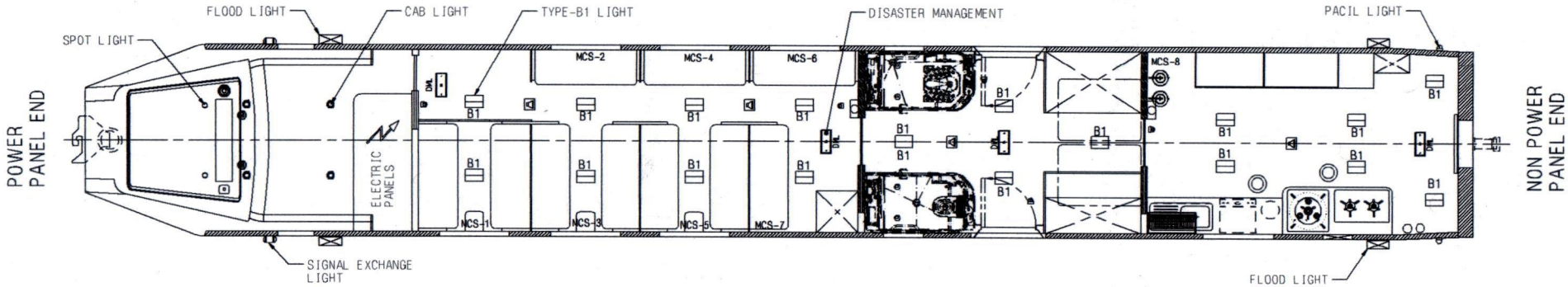
1. Portable Generator set 3 KVA on anti vibration mounts, 230/250 V with integral switch, spare spark plug & its spanners.
2. Tool kit for maintenance of portable generator set as per make of Gen. Set
3. Portable Switch board with 4 water proof Industrial Sockets each capable of taking 500 watt load & 5 Mtrs. 5/15 A capacity PVC insulated copper lead with plug on one end.
4. Inflatable Lighting Tower as per RDSO specification No. MP-0.08.00.53 (Rev-01)

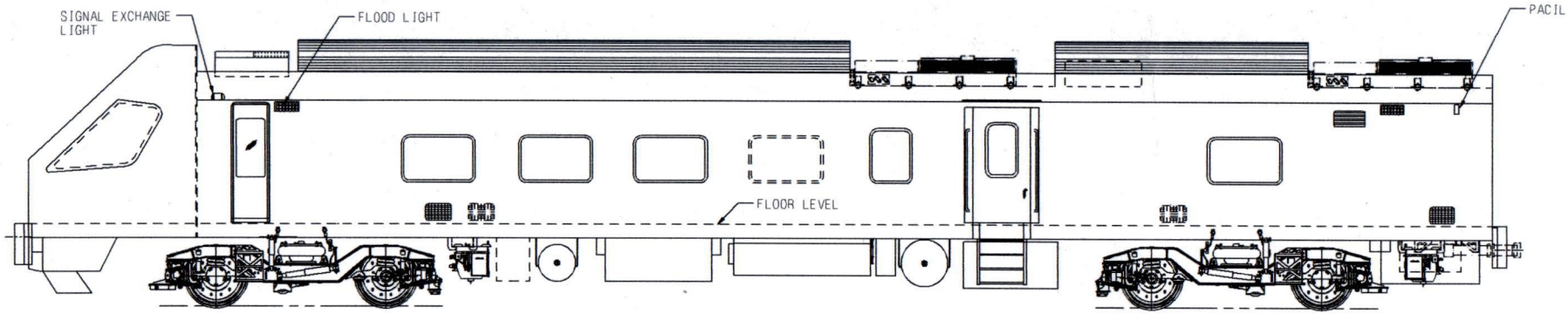
Note:

1. Furnishing contractor shall review the interface requirements with Electrical Design for mounting provision and cut-outs at design stage.
2. Fixing arrangement of Hand rails in gangway area shall be such that cables running in its vicinity are not damaged. Suitable arrangement to be provided so that fixing screw should not damage the cables and work instruction shall be issued for the same.
3. Suitable bracket/back-pieces required to be welded/bolted on the shell for mounting of LED Light fittings, Mobile charging sockets, Electrical sockets for Medical equipment shall be in scope of Furnishing contractor for which design reviews with Shell design shall also be carried out Furnishing contractor.
4. For all electric equipment viz. Electric Tools, Medical equipment and Pantry equipment which are in scope of Furnishing contractor, Sockets and compatible plugs shall be supplied by Furnishing contractor.

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Annexure-A





LED LIGHT FITTING B1	18 NOS.
FLOOD LIGHT	04 NOS.
DISASTER MANAGEMENT(DML)	04 NOS.
CAB LIGHT	04 NOS.
SPOT LIGHT	02 NOS.
SIGNAL EXCHNAGE LIGHT	02 NOS.
LAVATORY LIGHT	06 NOS.
MOBILE CHARGING SOCKET (MCS)	08 NOS.

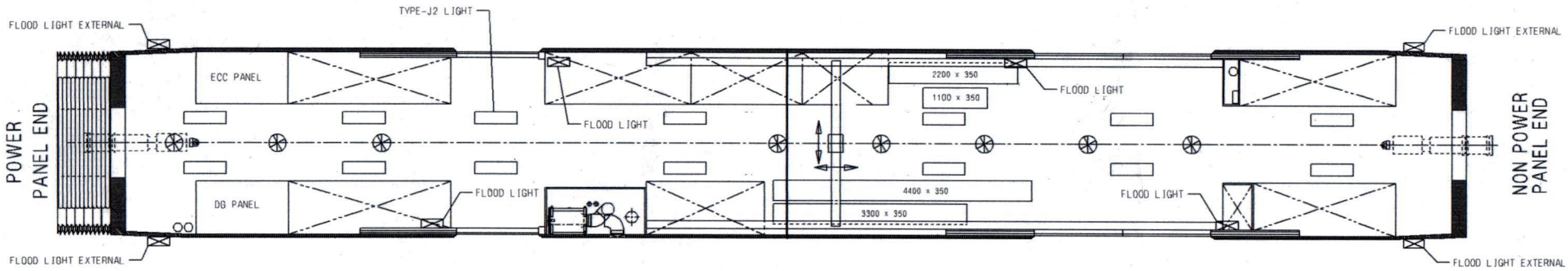
NOTE: PROPOSED TENTATIVE LOCATION AND QPC OF LIGHTS & SOCKETS

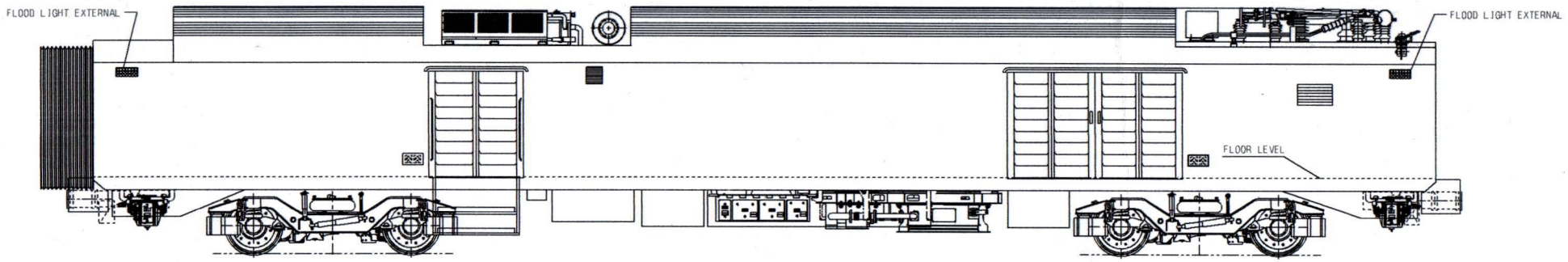
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SKETCH-1

(LOCATION AND QPC OF LIGHTS AND SOCKETS IN SUPERVISOR VAN)

Annexure-A





FLOOD LIGHT EXTERNAL	4 NOS.
FLOOD LIGHT INTERNAL	4 NOS.
TYPE-J2 LIGHT	14 NOS.

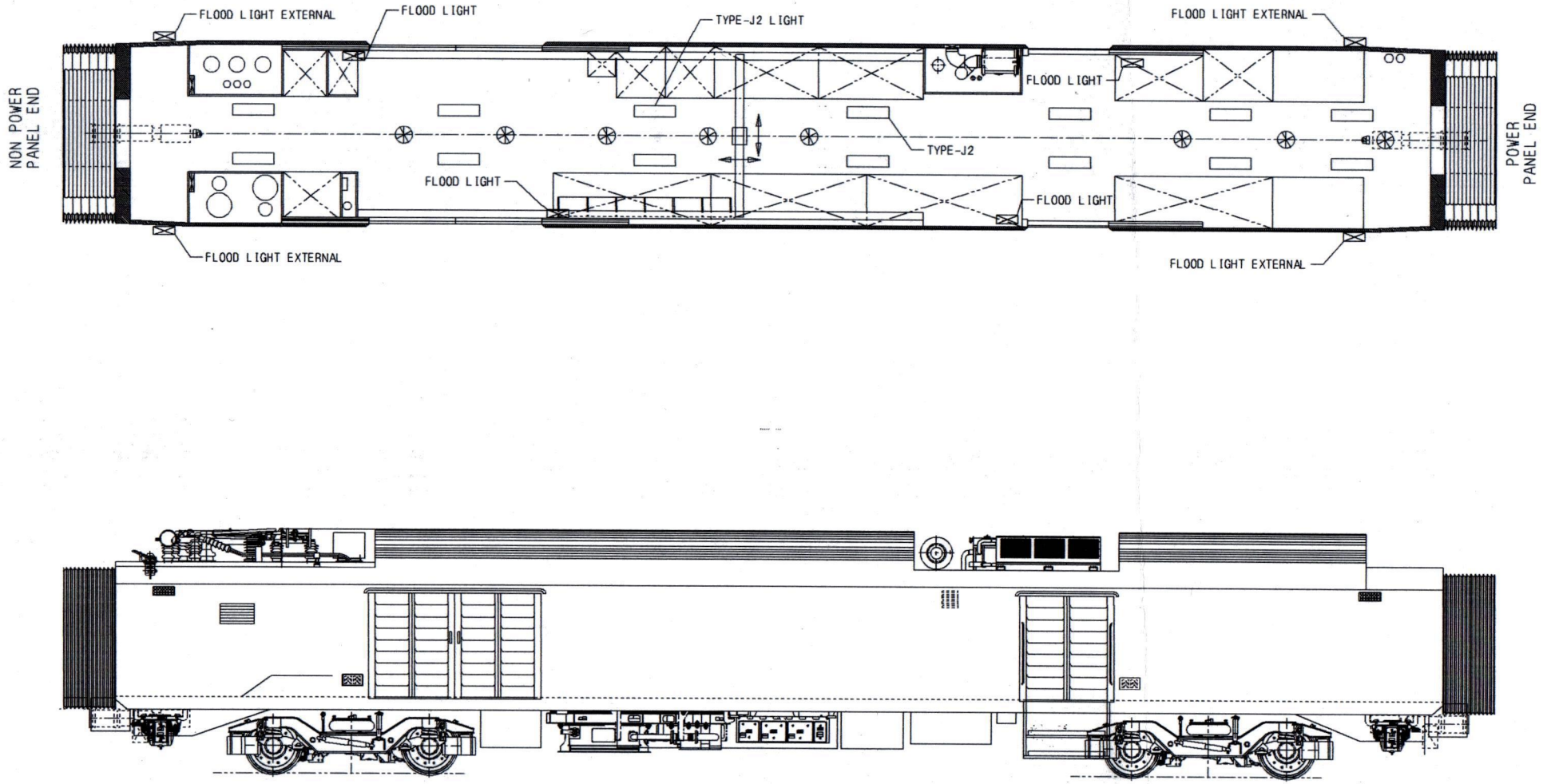
NOTE: PROPOSED TENTATIVE LOCATION AND QPC OF LIGHTS

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SKETCH-2

(LOCATION AND QPC OF LIGHTS IN TOOL VAN-1)

Annexure-A



FLOOD LIGHT EXTERNAL	4 NOS.
FLOOD LIGHT INTERNAL	4 NOS.
TYPE-J2 LIGHT	14 NOS.

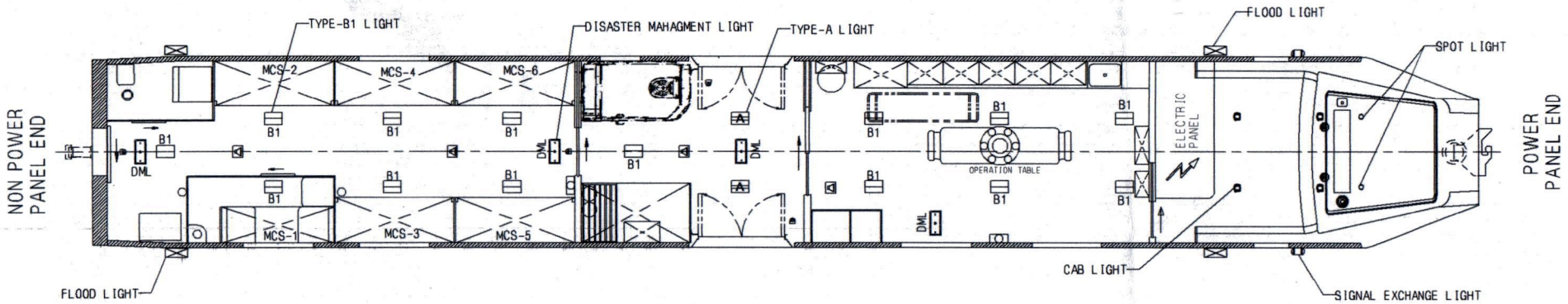
NOTE: PROPOSED TENTATIVE LOCATION AND QPC OF LIGHTS

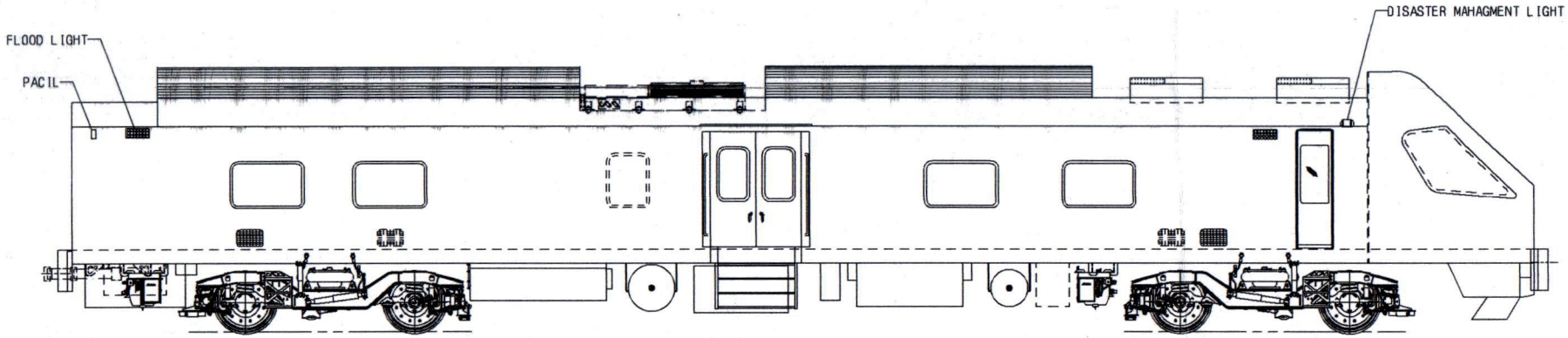
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SKETCH-3

(LOCATION AND QPC OF LIGHTS IN TOOL VAN-2)

Annexure-A





LED LIGHT FITTING B1	14 NOS.
LED LIGHT FITTING A	02 NOS.
FLOOD LIGHT	04 NOS.
DISASTER MANAGEMENT(DML)	04 NOS.
CAB LIGHT	04 NOS.
SPOT LIGHT	02 NOS.
SIGNAL EXCHANGE LIGHT	02 NOS.
LAVATORY LIGHT	03 NOS.
LIGHT IN STORAGE AREA	03 NOS.
MOBILE CHARGING SOCKET(MCS)	06 NOS

NOTE: PROPOSED TENTATIVE LOCATION AND QPC OF LIGHTS & SOCKETS

Kapil SSE Elec. design

SKETCH-4

(LOCATION AND QPC OF LIGHTS AND SOCKETS IN MEDICAL VAN)