

**RCF Modification sheet to RDSO Specification no.RDSO/PE/SPEC/AC/0200-2020  
for LHB GS AC Coaches**

The RCF Annexure is being issued to incorporate the modifications required in the RDSO specification no RDSO/PE/SPEC/AC/0200, Rev – 0 for Set of Electrical Panels for LHB EOG/HOG Garib Rath type AC Coaches On Indian Railways to make it compatible with LHB EOG GS Coaches In reference to supply of the above panel for LGS AC coaches following modifications may be carried out:

- A) The orientation of the Disconnecting and the Earthing Device shall be suitably adjusted so that the operating handle does not mesh-up with the cables.
- B) Add clause 5.1 (v) :- MMR for the feeder circuits may be provided at the bottom only to avoid 750 volts supply in the on-board Panel

C) Clause 5.2 (i) may be read as

Cl no	Existing	Revised
5.2 (i)	The ON-Board Cubicle shall house power and control switchgear, Measuring, Indicating instruments, MMR & IMR, Protection circuit ..... scope of supply of SBC manufacturer.	The ON-Board Cubicle shall house power and control switchgear, Measuring, Indicating instruments, IMR, Protection circuit ..... scope of supply of SBC manufacturer.

D) Clause 6.16 of the specs may be read as

Cl no	Existing	Revised
6.16	For fire detection & suppression system, condensed aerosol .....shall be as under :-  2 nos., 100 gms each in the uppermost portion of ON-Board Panel  Exact details shall be finalized at the design approval stage.....cover entire set of panel	For fire detection & suppression system, condensed aerosol .....shall be as under :-  1 nos., 100 gms in the uppermost portion of ON-Board Panel and one no 30/40 gms at the bottom of the panel to cover the lower area of panel.  Exact details shall be finalized at the design approval stage.....cover entire set of panel

E) Bill of material for Set of Panels (On-Board and Underslung Cubicle) to Annexure-D

- 1. Item 34 i.e. MPCB for Ventilation Fan 1&2 deleted.
- 2. Item 36 may be read as under

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Existing

36	33	F10 F11 F16 F17	MPCB for condenser fan unit 1.1,1.2, & 2.1,2.2 Thermal release range Rated Current 1.6-2.0A Class: 10 Breaking Capacity: 50 kA Pole: 3 P Rated Voltage : 415V AC	4 nos.	MS132-2.5B+HK1-11	ABB	S1F06 S1F07 S1F12 S1F13
					GV2ME07	Schneider	
					ST418950000	L&T	
					3RV2011-1BA15	Siemens	
					PKZM01-1.6+NHI-E-11-PKZO	Eaton	

Revised

36	33	F05 F06 F10 F11 F16 F17	MPCB for ventilation fan unit 1.1,1.2 & 2.1,2.2 & for condenser fan unit 1.1,1.2, & 2.1,2.2  Thermal release range Rated Current 1.6-2.0A Class: 10 Breaking Capacity: 50 kA Pole: 3 P Rated Voltage : 415V AC	6 nos.	MS132-2.5B+HK1-11	ABB	S1F01 S1F02 S1F06 S1F07 S1F12 S1F13
					GV2ME07	Schneider	
					ST418950000	L&T	
					3RV2011-1BA15	Siemens	
					PKZM01-1.6+NHI-E-11-PKZO	Eaton	

3. Item 37 may be read

Existing

43	33	F07 F09 F13 F15	MPCB for Compressor 1.1, 1.2, 2.1, 2.2 Rated Current : 7-10 A, Class 10, Breaking Capacity: 10 kA Pole: 3 P, Rated Voltage : 415 V AC	4	3RV2011-1JA10	Siemens	S1F03 S1F05 S1F09 S1F11
					MS132-10B	ABB	
					ST418980000	L & T	
					GV2ME14	Schneider	

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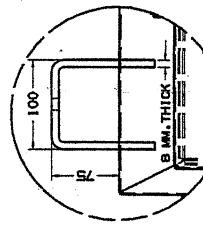
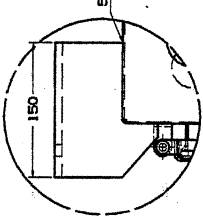
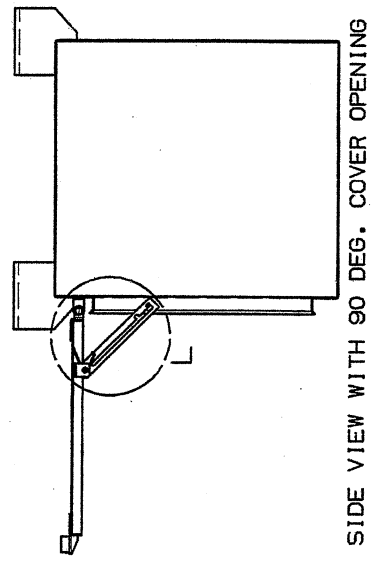
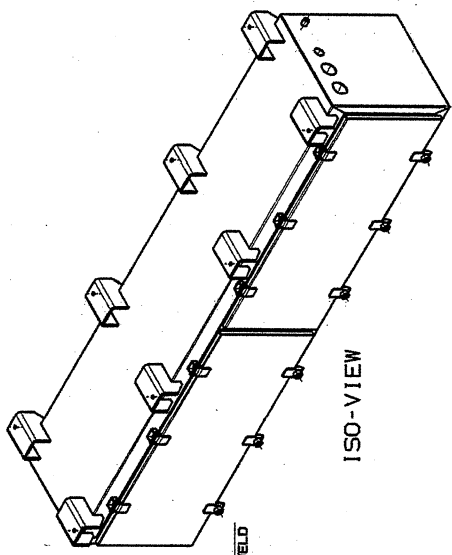
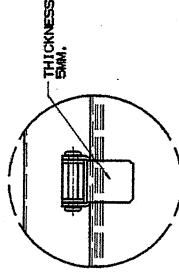
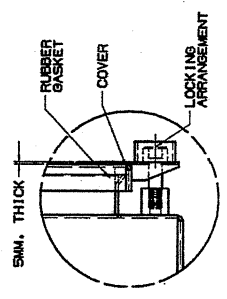
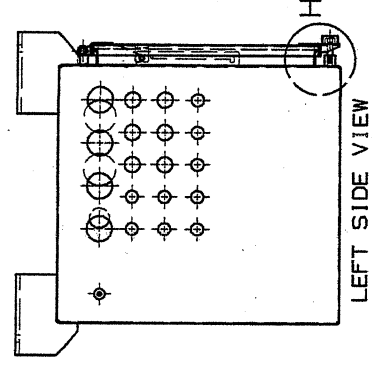
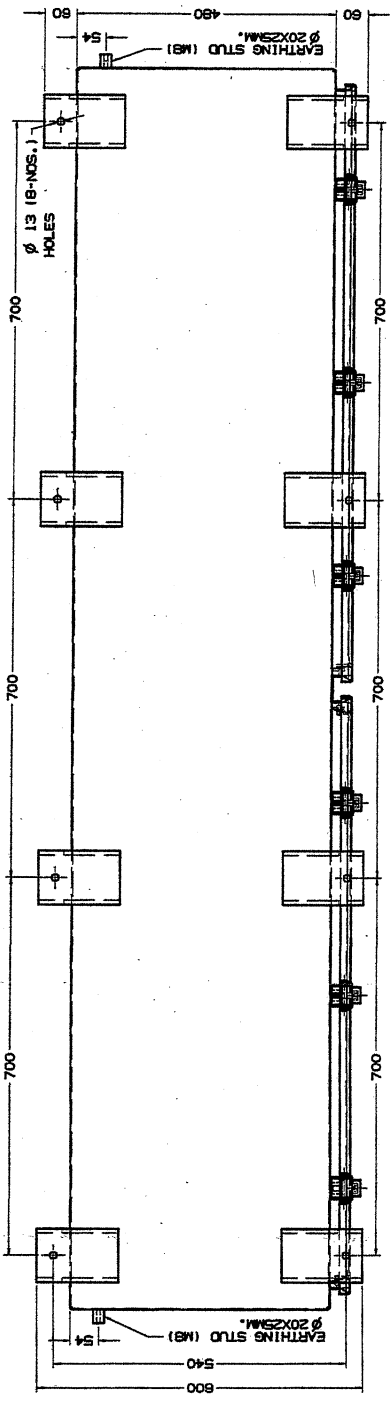
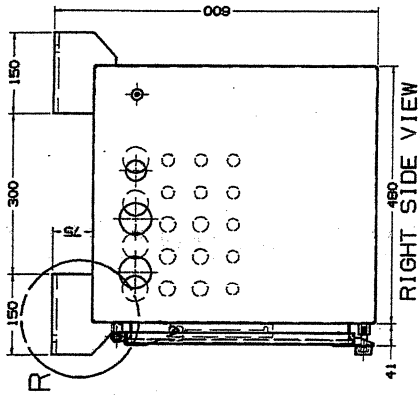
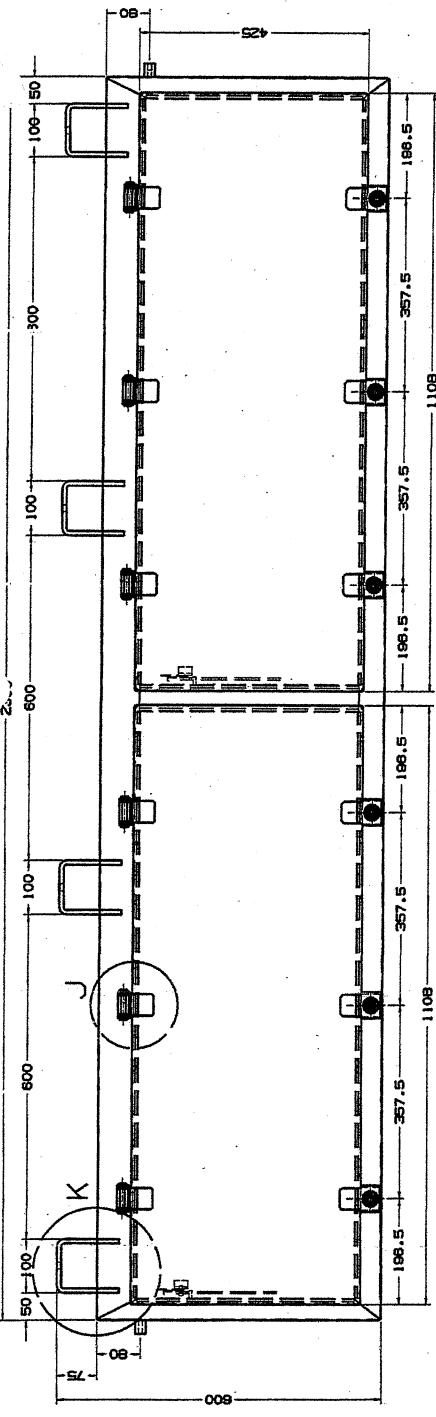
REVISED

43	33	F07 F09 F13 F15	MPCB for Compressor 1.1, 1.2, 2.1, 2.2 Rated Current : 20-25 A, Class 10, Breaking Capacity: 10 kA Pole: 3 P, Rated Voltage : 415 V AC	4	3RV2011-4AA10	Siemens	S1F03 S1F05 S1F09 S1F11
					MS132-16B	ABB	
					ST419150000	L & T	
					GV2ME20	Schneider	

4. Item no 38 of the BOM, Annexure-D i.e. 33F27, ( ref drg no RDSO/PE/SK/AC/0206-2019 Sheet 20 of 48 ) MCB 16 Amps for water boiler deleted.
5. Item no 39 of the BOM Annexure-D i.e. 33F28, ( ref drg no RDSO/PE/SK/AC/0206-2019 Sheet 20 of 48 ) MCB 06 amps may be indicated as spare .
6. Item no 40 and 41 of the BOM Annexure-D i.e 33F26 & 33F29 ( ref drg no RDSO/PE/SK/AC/0206-2019 Sheet 20 of 48 ) MCB10 A for Hot Case and Bottle cooler deleted

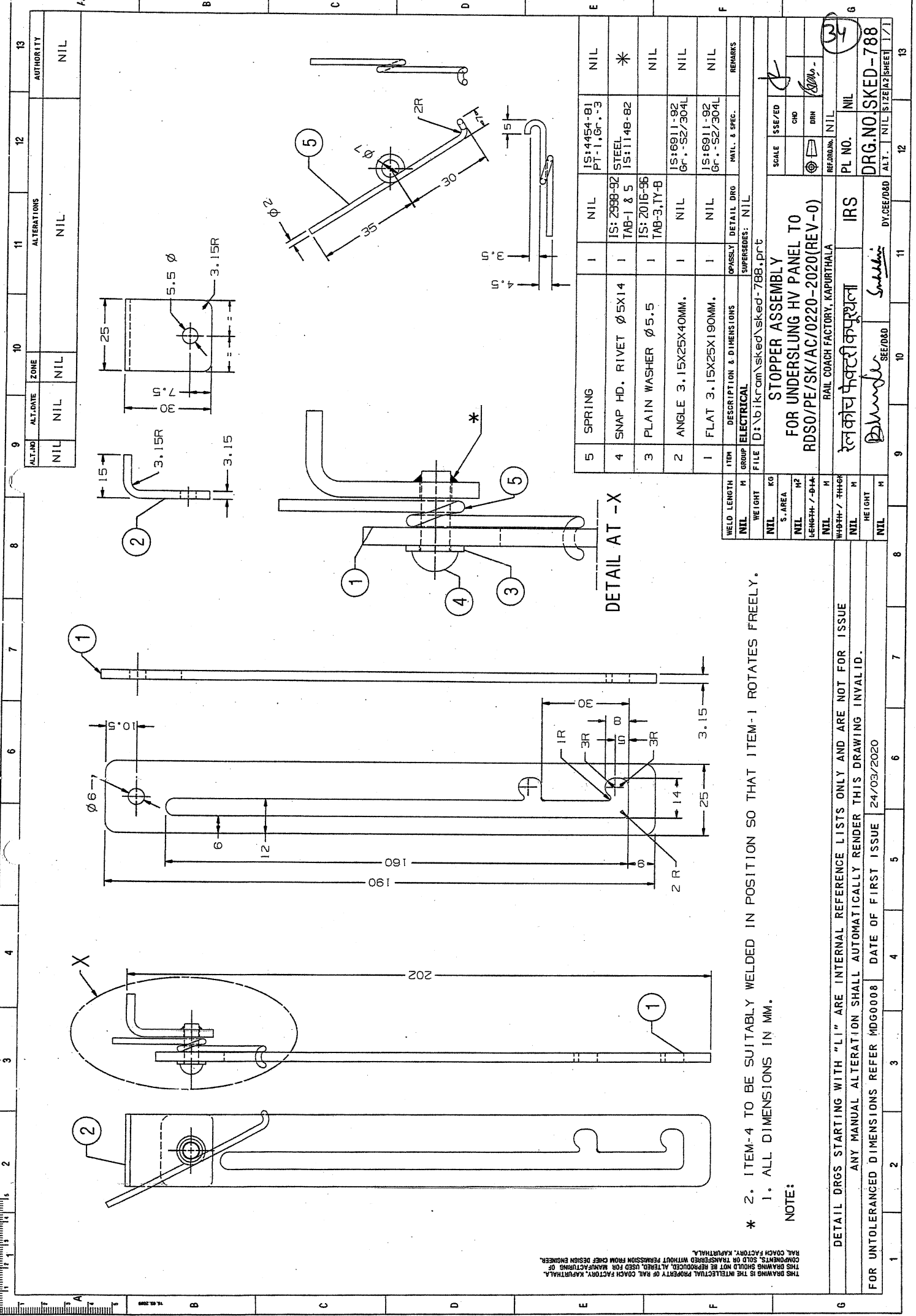
- F) Ref-General wiring diagram for Power and Control Circuits to RDSO/PE/SK/AC/0206-2019 ( Rev-0) sheet 46 of 48 :- Wago connector terminals for the pantry equipment no 282 to 285 and 289 to 297 deleted
- G) Ref-Door complete-Right to RDSO/PE/SK/AC/0219-2020 ( Rev-0) sheet 3 of 5.-The physical location of the test lamp push button S1S05 and light Push Button ON S1S08 on the front door may be interchanged so that the light push button ON and OFF are adjacent to each other.
- H) Mounting brackets and stopper assembly for HV Panel to RDSO/PE/SK/AC/0220-2020 (Rev – 0) shall be as per SKED787 and SKED788 respectively.

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2. STOPPER ASSEMBLY SHALL BE PROVIDED ON COVERS AS INDICATED IN DETAIL-L. THE STOPPER ASSEMBLY SHALL BE SUCH THAT COVERS CAN BE OPENED AT 70 DEG. & 90 DEG. NOTE:-

FIELD SYMBOL	NIL	DESCRIPTION & DIMENSIONS	NIL	NIL	NIL	NIL	NIL	NIL	NIL
MARK	NIL	ELECTRICAL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
FILE NO.	DR	DR NO.	DR NO.	DR NO.	DR NO.	DR NO.	DR NO.	DR NO.	DR NO.
DATE	17	DATE	17	DATE	17	DATE	17	DATE	17
SCALE	AS SHOWN	SCALE	AS SHOWN	SCALE	AS SHOWN	SCALE	AS SHOWN	SCALE	AS SHOWN
PROJECT	MOUNTING BRACKET & STOPPER ASSEMBLY OF UNDERSLUNG H.V. PANEL TO RDSO/PE/SK/AC/0220-2020 (REV-0)								
PROJECT	BAIL COACH FACTORY, KAPURTHALA								
DESIGNER	Dilwan								
CHECKED	Suryakant								
DATE	24/03/2021								
PL. NO.	NIL								
DRG. NO.	SKED-787								



ITEM	GROUP	DESCRIPTION & DIMENSIONS	DETAIL DRG	MATL. & SPEC.	REMARKS
5	SPRING			IS:4454-81 PT-1, Gr.-3	NIL
4	SNAP HD. RIVET	Ø 5X14		IS: 2998-92 TAB-1 & 5	*
3	PLAIN WASHER	Ø 5.5		IS: 2016-96 TAB-3, TY-B	NIL
2	ANGLE	3.15X25X40MM.		IS:6911-92 Gr.-S27/304L	NIL
1	FLAT	3.15X25X190MM.		IS:6911-92 Gr.-S27/304L	NIL

WELD LENGTH	WELD WEIGHT	WELD S. AREA	WELD LENGTH / Ø	WELD HEIGHT	WELD NIL
NIL	NIL	NIL	NIL	NIL	NIL

FILE	DESCRIPTION	SCALE	ISSUED	CHKD	DRN	REFURBING	PL NO.	DRG. NO.
D:\bikram\sked\sked-788.prt	STOPPER ASSEMBLY FOR UNDERSLUNG HV PANEL TO RDSO/PE/SK/AC/0220-2020(REV-0)					NIL	NIL	SKED-788

DATE OF FIRST ISSUE	DATE OF SECOND ISSUE	DATE OF THIRD ISSUE	DATE OF FOURTH ISSUE
24/03/2020			

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24/03/2020			

\* 2. ITEM-4 TO BE SUITABLY WELDED IN POSITION SO THAT ITEM-1 ROTATES FREELY.  
1. ALL DIMENSIONS IN MM.

NOTE:

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDDG0008 DATE OF FIRST ISSUE 24/03/2020

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RAIL COACH FACTORY, KAPURTHALA

STOPPER ASSEMBLY FOR UNDERSLUNG HV PANEL TO RDSO/PE/SK/AC/0220-2020(REV-0)

RAIL COACH FACTORY, KAPURTHALA

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DATE OF SECOND ISSUE

DATE OF THIRD ISSUE

DATE OF FOURTH ISSUE

DATE OF FIFTH ISSUE

DATE OF SIXTH ISSUE

DATE OF SEVENTH ISSUE