

INTEGRAL COACH FACTORY CHENNAI - 600 038.

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Office of the CDE/Mech. Dt:14/05/2021

No.MD/DSS/Brakes/103B

CRSE/SR CRSE/CR

Sub: Failure in FIBA and Standardization of Piping and Clamping /Layout of Piping for FIBA, Air suspension control equipment.

Ref: 1. RDSO Lt.No:SV.AS.FIBA Dt.01.03.2021,5.03.2021

2. CDE/RCF/KXHS Lt.no.MD44121 & MD 21516 Dt.17.02.2021

3. ICF Lt no MD/DSS/Brakes/103B Dt 31.03.2021

4. RDSO Lt.No:SV.AS.FIBA dt 13.05.2021

- Vide above ref 1, RDSO has advised to issue instructions regarding failures in FIBA and standardization of piping in FIBA and ASCE to Zonal Railways which might be specific to coaches turned out by ICF as ICF has been adopting double ferrule fittings for all LHB coaches.
- 2. ICF has studied the CAI issued by RCF and in line made changes in the relevant drawings and scope of supplies pertaining to piping arrangements of Air spring and FIBA for ICF turned out LHB coaches fitted with double ferrule fittings.
- 3. Vide ref 3, CAI detailing the modifications in existing arrangement has been prepared by ICF and the same was referred to RDSO for further directions.
- 4. Vide ref 4, RDSO has advised ICF that necessary CAI having instructions to arrest subject failures be issued to Zonal railways on priority.
- 5. ICF CAI no B-2021/02 dated 22.03.2021 (05 pages) containing instructions for modifications in piping arrangements of Air spring and FIBA for ICF turned out LHB coaches fitted with double ferrule fittings is issued to all Zonal railways for implementation.

Encl: 1. CAI No.B-2021/02, dated 22.03.2021

2. Relevant drawings.

(SANJAY ANGOTHU)
Dy. CME/D-II
For General Manager (Mech)



INTEGRAL COACH FACTORY, CHENNAI - 600 038. Telefax No. (044) 26261872 Rly.:46809

E-mail: smebdicf@gmail.com

O/o. General Manager/Mech. Design

No. ICF/QMS/MDM/File/F015

Date:22.03.2021

Coach Alteration Instruction

SI. No.	Details	Remarks
1.	CAI No.	B-2021/02
2.	Group	0-4, 3-2, 3-5, 1-1
3.	Description	Implementation of modified Pneumatic Piping arrangement for air spring, air suspension control equipments (ASCE) and FIBA on LHB Coaches to avoid failures of same including flexible hoses.
4.	Drawing No.	i) 667-3-2-009, alt.'a' ii) 667-0-4-001, alt.'a' iii) 783-3-5-001 alt 'a' iv) 851-3-5-001 alt 'a' v) 851 11 003 Alt 'd vi) 739 11 004 Alt 'h' vii) 814 11 003 Alt 'd' viii)AAA35139,alt. 'nil' ix)581-1-1-003, alt.'q' x)814-1-1-004,alt.'b'
5.	Modification	Listed in Table -1 & 2
6.	Reason for Modification	Zonal Railways has reported failures in Air spring, Air suspension control Equipment and FIBA piping arrangement. Therefore to avoid failures of above, piping arrangement of these areas has been modified.
7.	Coaches concerned	LHB coaches except LSLRD, Power Car, LGS & Double Decker turned-out by ICF upto May, 2021.
8.	Implementation stage	In Next POH or during out of course lifting of the coach for maintenance.
9.	Category of CAI	A B✓ Tick A or B as applicable

- A. Modifications shall be implemented immediately by user Rlys.
- B. Modifications shall be implemented by user Rlys as and when convenient
- 10. Drawing No.: It is requested to ensure coach alteration as per given below new drawings:

Table -1

SI. No.	Description	Old Drg. No. & Alt	New Drg. No. & Alt
1	Pneumatic piping arrangement with Double ferrule fittings for Air spring in secondary suspension	667-3-2-009, alt.Nil	667-3-2-009, alt.'a'
2	Bolster for air spring bogies.	LW04001, alt'b' anx '6'	66704001 alt.'a'
3	Air Suspension & FIBA device arrangement on underframe for	783-3-5-001 alt 'Nil',	783-3-5-001 alt 'a',
	AC/NAC LHB type EOG coach	851-3-5-001 alt 'Nil'	851-3-5-001 alt 'a'
4	Location of holes and welding parts complete on U/F for	851 11 003 Alt 'c'	851 11 003 Alt 'd
	AC/NAC sleeper EOG (LHB type)	739 11 004 Alt 'g'	739 11 004 Alt 'h'
		814 11 003 Alt 'c'	814 11 003 Alt 'd'
5	Protection cover for levelling valve	LW36173 Alt 'b'	AAA35139 alt. 'nil'.

11. Brief of Modification / changes to be done:

Table -2

no	es
 Street Elbow (item no. 29) added on leading arrangement with FIBA for Bogie fitted with Air spring secondary suspension. to drg. No. No.667-3-2-009 alt.'a'. Flexible hose (Item-20) provided on leading no. 667-3-2-009 alt.'Nil' eliminated. Piping on brake beam including right flexible hose (Item-20) of drawing No. alt.'Nil' shifted from brake beam to bogi On left side of Duplex check valve pripe, Hex Nipple and Female elbot (Items-19, 26 & 27) added with Female connector (Item-18). On Right side, new pipe (Item-28) Female branch tee connector (Item-18 Duplex check valve pipe line. Pipe clamp (item no.25 of drg. No. 20 	o). eft side of old has been the hand side b. 667-3-2-009 gie bolster. pipe line, new ow connector le branch Tee added with b) provided on

		alt.'a') modified from 'P' type to 'C' type.
2	Bolster for air spring bogie to Drg. No.66704001	 For clamping of modified piping arrangement, a bracket (Item no.32 to Drg. No.AAA04179 nil) to be additionally welded with bogie bolster at location as shown in the drawing.
3	Air Suspension & FIBA device arrangement on underframe for AC/NAC LHB type EOG coach	 SS pipe connecting Air spring pipe line from 150 litre air reservoir (item no.151 & 185) modified. SS pipes between leveling valve hoses & above air spring pipe line (item no. 145 & 146 on NPP end) modified and their location should be as per drawing. SS pipes between leveling valve hoses & above air spring pipe line (item no. 194 & 195 on PP end) modified and their location should be as per drawing. Drg.No. 851-3-5-001 alt 'a' SS pipe connecting Air spring pipe line from 150 litre air reservoir (item no.151 & 185) modified. SS pipes between leveling valve hoses & above air spring pipe line (item no. 145 & 146 on PP end) modified and their location should be as per drawing. SS pipes between leveling valve hoses & above air spring pipe line (item no. 194 & 195 on NPP end)
		modified and their location should be as per drawing.
4	Location of holes and welding parts complete on U/F for AC/NAC sleeper EOG (LHB type)	 Drg. No.851 11 003 Alt 'd Brackets (2 nos) to item no.59 of old drg. No.851 11 003 alt'c' to be cut and bracket to item no.61 to be welded as shown in drawing. Location of Brackets (2 nos) to item no. 59 to be shifted as shown in drawing. Bracket to item no.62 to be welded as shown in the drawing. Drg. No.739 11 004 Alt 'h' Brackets (2 nos) to item no.76 of old drg. No.739 11 004 alt'g' to be cut and bracket to item no.78 & 79 to be welded as shown in drawing. Location of Brackets (2 nos) to item no. 76 to be shifted as shown in drawing. Bracket to item no.54 to be welded as shown in the drawing. Drg. No.814 11 003 Alt 'd' Brackets (2 nos) to item no.66 of old drg. No.814 11 003 alt'c' to be cut and bracket to item no.69 & 70 to be welded as shown in drawing.

		 Location of Brackets (2 nos) to item no. 66 to be shifted as shown in drawing. Bracket to item no.68 to be welded as shown in the drawing. Drg. No. 581 11 003 Alt 'q', Drg. No. 814 11 004 Alt "b" Dia 7 holes to be shifted near main cross assly. (body bolster).
5	Plate (Protection cover for leveling valve)	 Provide new protection cover as per drg. No.AAA35139 alt. 'nil'. Proper covering of installation lever should be ensured by sliding of protection cover through groove / slot provided in protection cover.

Special instructions:-

- a) Proper welding of brackets be ensured as per new drawings.
- b) Clamping of all pipes be ensured as per new drawings.
- c) Smooth loop of flexible hoses without necking be ensured.
- d) It should be ensured that flexible hoses should not touch with car body, bogie frame and nearby steel pipes.
- e) Plumbing pipes on PP end side (near main cross assly./ body bolster) be lifted up to maximum upward possible position.

Encls: As above

(SANJAY ANGOTHU)

Dy.CME/D-II for GM/Mech. Design

Copy to: Annexure enclosed.

ANNEXURE

The General Manager/ Mechanical,

Mechanical Branch, HQ Office:

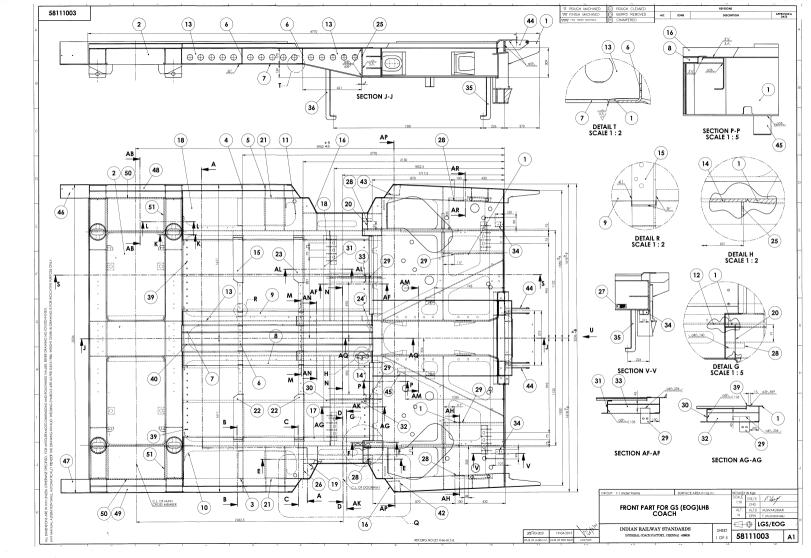
- 1. Central Railway, Mumbai CST-400 001
- 2. Western Rly., Churchgate, Mumbai-400 020
- 3. Eastern Rly., Fairlie Place, Kolkata-700 001
- 4. South Eastern Rly., Garden Reach, Kolkata-700 043
- 5. Northern Rly., Baroda House, New Delhi-110 001
- 6. North Eastern Rly., Gorakhpur-273 001
- 7. North East Frontier Rly., Maligaon, Guwahati-781 011
- 8. Southern Railway, Park Town, Chennai-600 003
- 9. South Central Railway, Rail Nilayam, Secunderabad-500 371
- 10. West Central Railway, Jabalpur-482 001
- 11. East Central Railway, Hajipur-844 101
- 12. North Central Railway, Allahabad-211 001
- 13. North West Railway, Jaipur-302 001
- 14. East Coast Railway, Bhubaneswar-751 016
- 15. South East Central Railway, Bilaspur-495 004
- 16. South Western Railway, Hubli-580 023

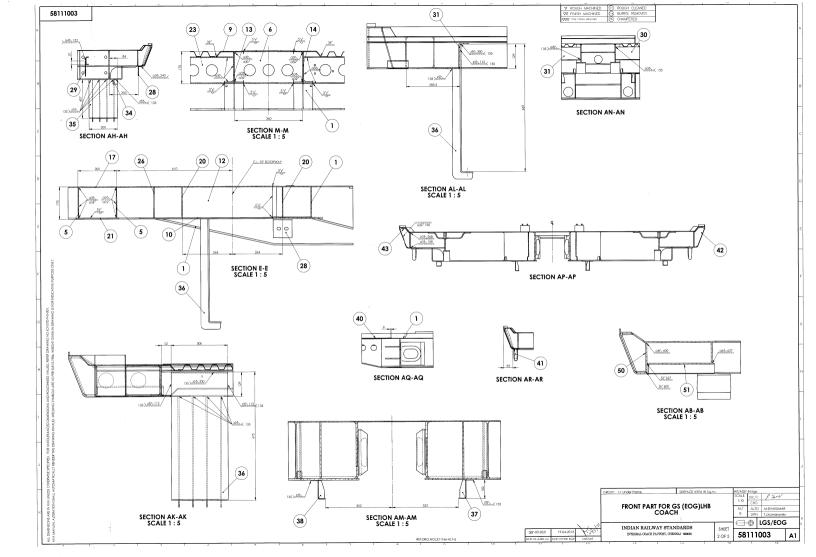
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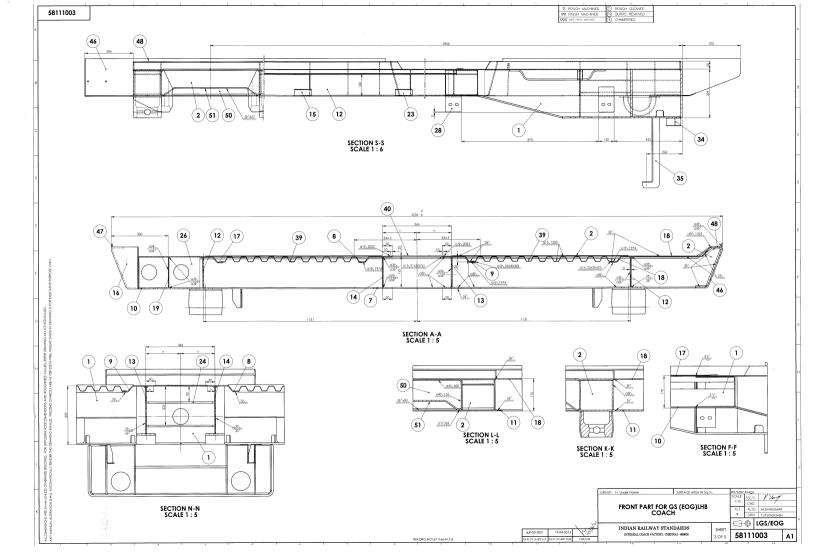
- I. EDME (Coaching), Railway Board, New Delhi-110 001
- II. EDME (W), Railway Board, New Delhi-110 001
- III. Director General/Carriage, RDSO, Manak Nagar, Lucknow-226 011
- IV. The General Manager (Mech.), Rail Coach Factory, Kapurthala-144 602

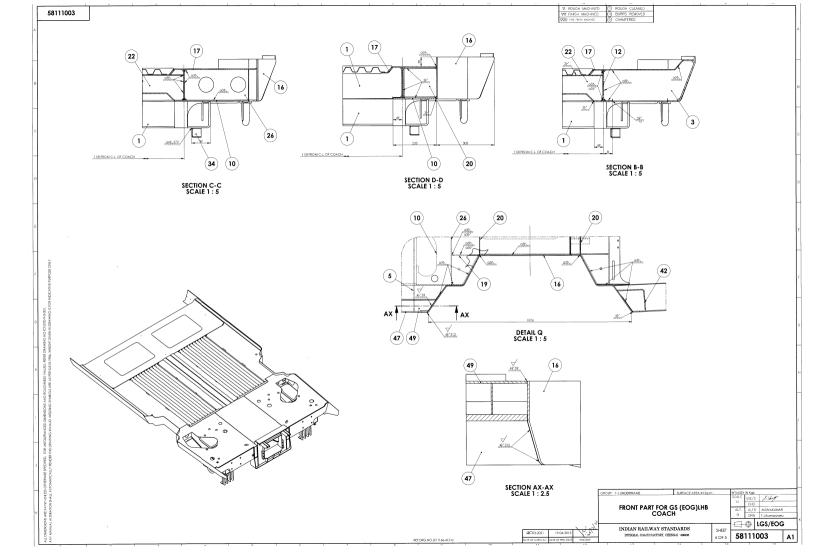
V. The Chief Workshop Manager, Carriage & Wagon Workshop,

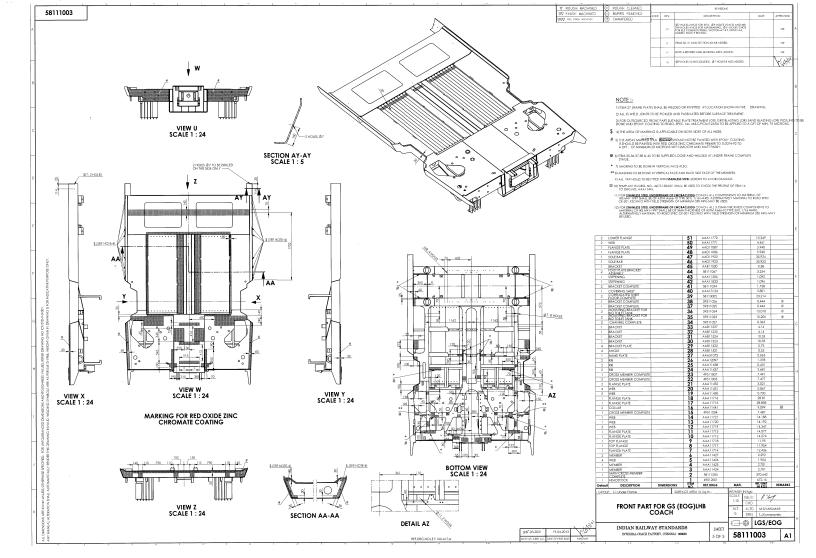
- 1. Matunga, Central Railway, Mumbai-400 019
- 2. Bhopal, West Central Railway, Nishatpura, M.P.-462 001
- 3. Lilluah, Eastern Railway, Howrah-711 204
- 4. Gorakhpur, North Eastern Railway-273 001
- 5. New Bongaigaon, North East Frontier Railway-783 381
- 6. Perambur, Southern Railway, Chennai-600 023
- 7. Golden Rock, Tiruchirapalli-620 004
- 8. Ashokapuram, South Western Railway, Mysore South-570 008
- 9. Tirupati, South Central Railway-517 506
- 10. Hubli, South Western Railway-580 020
- 11. Mancheswar, East Coast Railway, Bhubaneswar-751 017
- 12. Kharagpur, South Eastern Railway-721 301
- 13. Lower Parel, N.M.Joshi Marg, Western Railway, Mumbai-400 013
- 14. Jagadhari, Northern Railway-135 003
- 15. Alambagh, Northern Railway, Lucknow-226 005
- 16. Lallaguda, South Central Railway, Secunderabad-500 017
- 17. Western Railway, Ajmer, Rajasthan
- 18. North East Frontier Railway, Dibrugarh, Assam-786 00

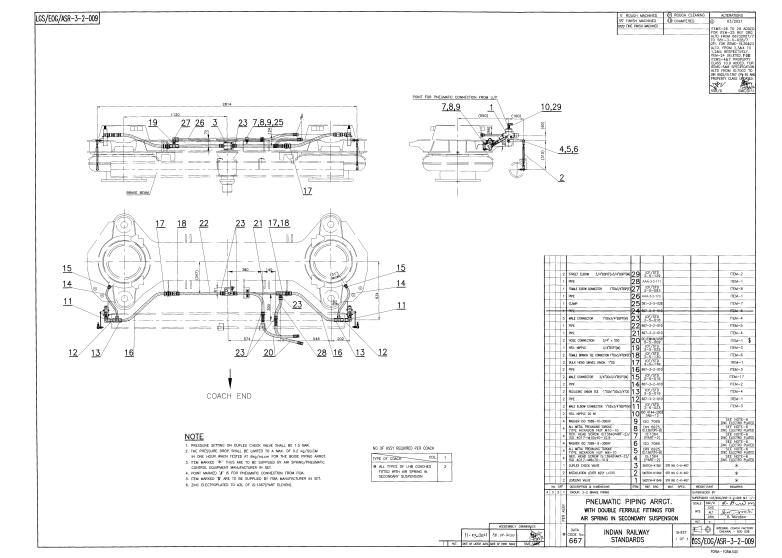


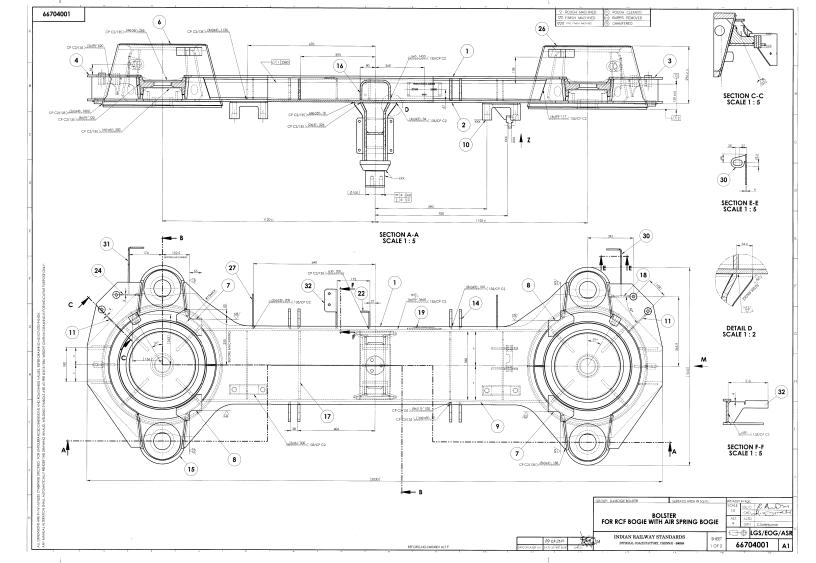


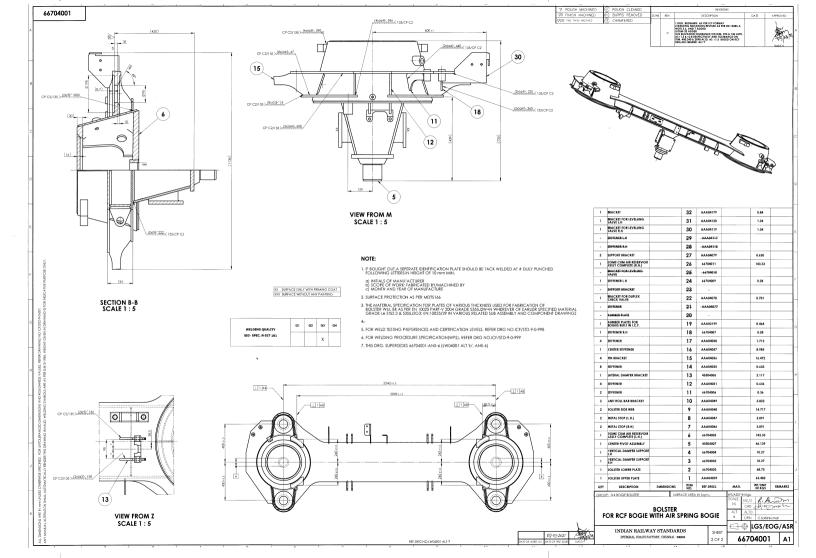


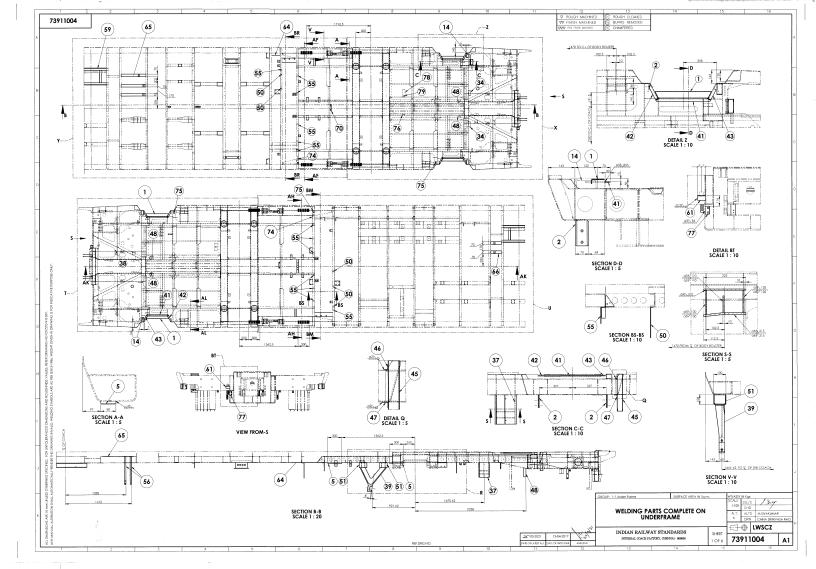


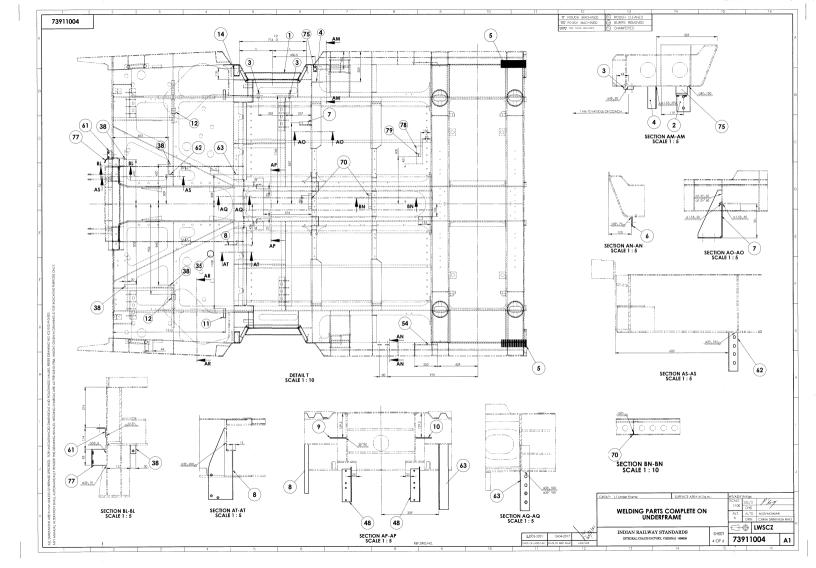


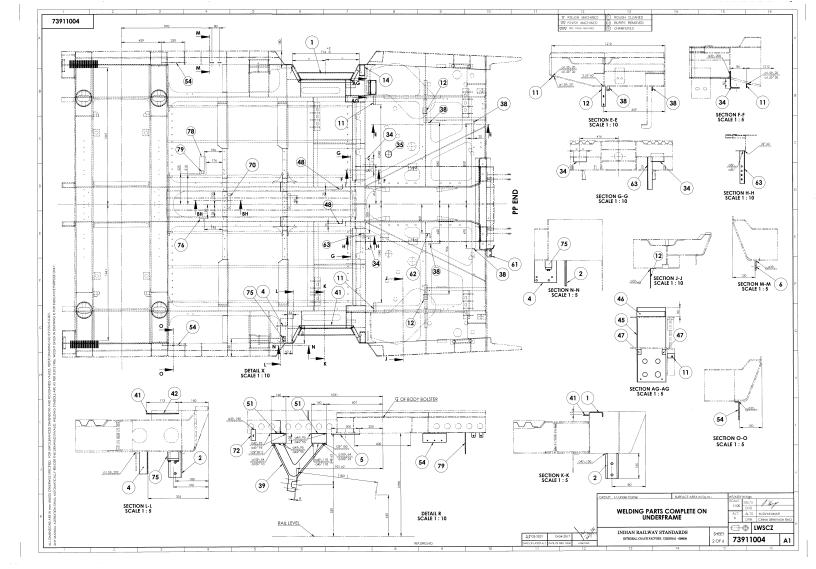


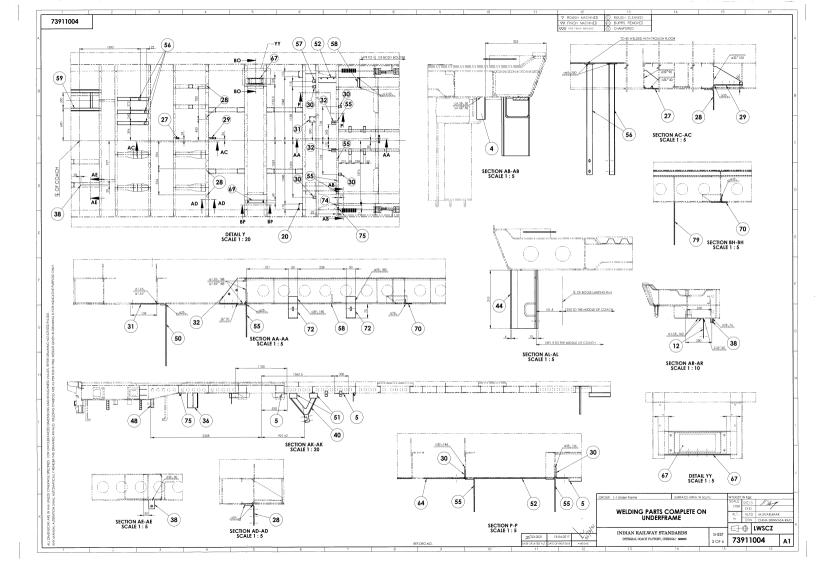


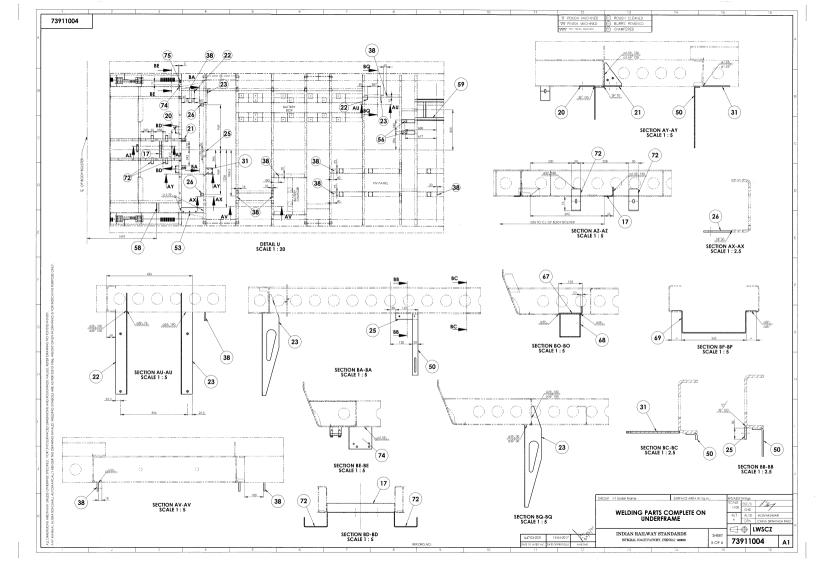


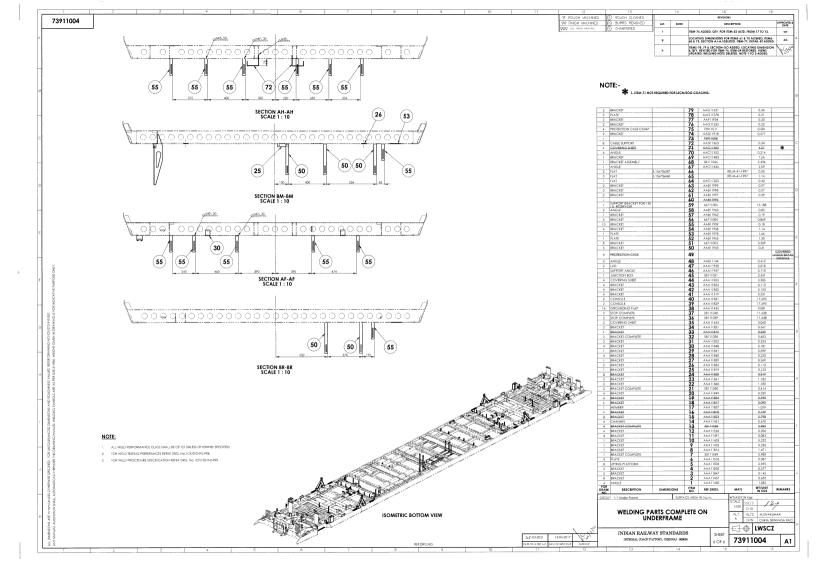


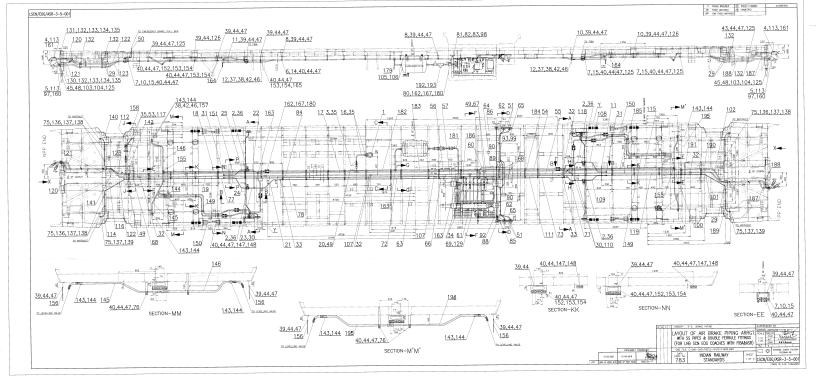


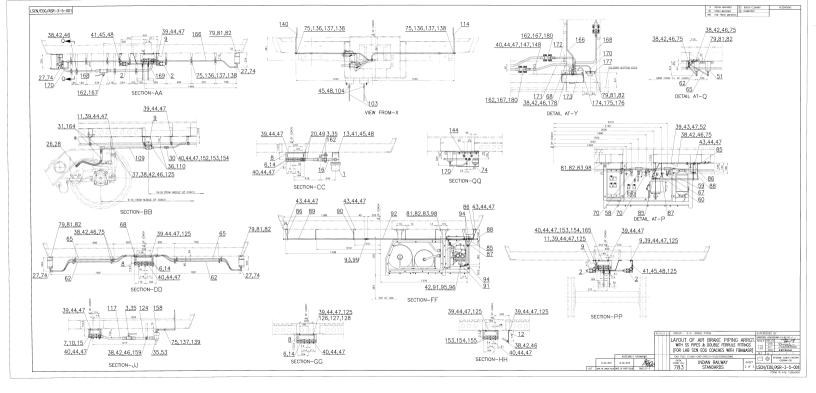












ALTERATION (i) 03/2021

NOTE:-

ALL SCREW CONNECTIONS WITH NUTS OF STWILESS STEEL HAVE TO BE CREASED WITH MOLYKOTE/MOLYBDENUW ORSULPHIDE PRIOR TO BE SCEWED IN.

2. FASTENERS SHALL BE OF MAKE CKW OR TVS OR UNBRAKO OR UPS ONLY.

DESCRIPTION & DIVENSIONS	ITEM REF. DRG. MATA: SPECIAL WEIGH	HT/UNIT REMARKS		FF DESCRIPTION & DIMENSIONS			MATA: SPECN. WED	GHT/UNIT REMARKS		DESCRIPTION & DIMENSIONS		MATA: SPECN, WINCH	ZUNIT REMARKS	NO. OFF	DESCRIPTION & DIMENSIONS	ITEM REF. CRG. MATA: SPECN		REMA Erc
PIPE 1" 0.0	151 3-5-002	ITEM- 80	1 - 1	- PPE 28 0.0	101	LDS/EDG/ASA		ITEM=35		4 INDICATOR	51 493736/		R050/2011/CC -04		BRAKE PIPE ACCELERATOR WITH BRACKET	1 2892102	WEIGHT/UNIT	RDSO/20 =0 RDMA
BRACKET COMPLETE	150 159079		11:1,	- PPE 28 0.0	102			ΠΕM-36	1 -	- BRACKET	52 109/100				4 ANTI SKID VALVE	2 0131766		R050/20 -0 R050/20
BRACKET	153 (6918)		1 4	- HDDK	103	LGS/EDS 3-5-026		(74)-11) -61	- -	, EMERGENCY BRAKE VALVE WITH 3/8 "X 1/4" REDUCER	53 4899712/1	0	R050/2011/CG -04		2 ISOLATING COCK 1"	3 свексе		
PIPE CUP	54 03/E00/ASH 54 3-5-003		4 -	- HEX. FIT BOLT M12x27.5x50	104	3-5-006		A2 TD IS:1367 (FART-14) -84	- 1	- PIPE 28 0.0	54 LGS/TOG/R 3-5-000	P P	ITEM-12		2 HOSE CONNECTION FOR F.P L=796 min	4 W0-81027 5-01		R090/3
UNION TEE 1" 0.0	155 3-6-018	ITEM-3	11:1	1 AR RESERVOR 150 Ura	105	IOF/STD 3-5-016 IOF/STD 3-5-066			- 1	- PIPE 28 0.0			ITEM-13		2 HOSE CONNECTION FOR BLP L=796 mm	5 R050/9X 73547		R090/
PLATE	156 **A35139		1 - 3	- MALE CONNECTOR 1"0.0 x 1"BSPT	hos	ICF/STO		ITEM-8	- 1	- PPE 28 0.0	56 3-5-00	2	ITEM-14	15 -	- BRACKET	6 1036215		
1/2" 0.0 x 1/4"89F PIPE CUP (26)	158 s=5-023 157 s=5-029	ITEM=6	1 - 1	- STRAGHT UNION 1/2"0.0	107	ICF/ST0		ITEM-1	- 1	- PPE 28 0.0	58 (3-5-00)		ITEM-15	4 -	BRACKET	7 L05/E00 3+6-004		
MALE ELBOW CONNECTOR	159 3-3-028 4 50 107/500	ITEM-14		- PIPE 3/4" 0.0	108			ITEM-37	- 1	- PPE 28 O.D	58 (3/50)/6		MEM-16	15 -	BRACKET COMPLETE	8 (036212		
PIPE CUP (28.5)	I DUNE-85123-5-00	-04 ITEM-8		- PIPE 3/4" 0.0	109	3-5-002 LGS/E0G/ASR 3-5-002		ITEM=38	- 1	- PPE 28 0.0	59 L05/500/AS		TDM-17	4	BRACKET COMPLETE	9 3-5-006		
ANGLE COCK (BP)	D DVC-80123-5-01	R050/2011// -04 R050/2011// -04	:0 .	- PIPE 3/4" 0.0	110			ITEM-39	- 1	- PIPE 1/2" 0.0	60 135/500/40	*	ITEM-18	4	BRACKET COMPLETE	10 5-5-007		
ANGLE COCK (F.P)	162 003634 16 we-serza-5-de 160 we-serza-5-de	R050/2011/	30	- MPE 1/2" 0.0	1111	3-5-002 105/106/XSR 3-5-002		ITEM-40		1 BRAKE DEVICE CONTAINER COMPLETE	61 0197437		RDSO/2011/09 -04	2 -	BRACKET	11 105/800		
REJUDING LINEON TO: ZBRHH O.D x 1°85FT HANDLE LOCKING ARROT, FOR SOLATING COCK	103 3-5-019			- MPE 1/2" 0.0	114	100 70 90 7000		ITEM-41	- 2		62 35,000,000		ITEM-19	2	BRACKET	12 3-5-009		
HOSE COMMECTION R1/2'x600mm	107	-04 mov 1	-110	HEX. BRE NUT CIT	h + 7de	0.3468-1991	ASI-301		11-11		63 103/003/45	*	TEM-20	1	PACKING	14 US/DS/ASR 3-5-005 13 US/DS 13 S-5-010		
BRACKET COMPLETE	165 (030210	R050/2011/	:G	- PIPE 1/2" 0.0	113	3-5-002 (05/100/ASR		ITEM-42	1.1.	- PPE 1/2" 0.0	64 3-5-62	×	ITEM-21	15 -	- PPE CLP	14 US/EDG/ASK		
MPE 1/2" 0.0		IICM-09	- 1 - 1	- PIPE 28 0.0	119	US/E00/ASR 3-5-002 US/E00/ASR 3-5-002 US/T00/ASR 3-5-002		ITEM-43	- 2	- PIPE 1/2" 0.0	65 35 602	*	ITEM=22	4 -				
SOLATING COCK	166 3-5-002	-05 ITEM-59		- PIPE 1/2" 0.0	110	3-5-002 US/500/ASR		ITEM-44		- PIPE 1/2" 0.0	69 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	*	ITEM=23	- 1	PPE 28 0.0	16 (25/T05/ASR)		п
PIPE 1" 0.0	100 3-5-022	HDSO/2015/1	se - '	- PIPE 28 0.0	119	3-5-002 105/600/ASR 3-5-002		ITEM-45	1.1	- PIPE 1/2" 0.0	67 46/100/45		ITEM-24	- 1	PPE 28 0.0	17 US/E0G/ASR		п
PIPE 1" 0.0		ITEM-60	- 11-13	- PIPE 28 0.0	1113	3-5-002		ITEM-46	- 7	- UNION TEE 1/2*0.0	68 107/510	+	ITEM-1	- 1 -	PPE 28 0.0	18 CS/E00/ASR		п
PIPE 1/2" 0.0	170 3-5-02	ITEM-61	-1-13	- PIPE 25 (NB) - PIPE 28 0.0	129	105/900/468		(FM-47	1 2				ITIM-25		PIPE 28 0.0	19 08/E00/ASR		17
PIPE 1" 0.0	1/ 3-5-002 	TEN-63	- - '	- PIPE 25 (NB)		MI006331			- 1	- PIPE 3/4" 0.0	70 000000		IIFM-26		PIPE 28 0.0	20 145/100/458		17
PIPE 1" 0.D	1/4 3-5-002	ITEM-64	1 - 1	- PPE 28 0.D	124	3-5-002 M006331		11EM-40	1111		71 LCS/EDG/AS	4	ITEM-27	1	PIPE 3/4" 0.0	21 LCS/ECG/ASR		17
FIBA DEVICE	173 C149523	R050/2015/0 -05	~ - 1	- PIPE 28 0.D	[23]	3-5-002 L05/106/ASR		IIEU-49	1-11	- PIPE 3/4" 0.0	73 3-5-002 73 LES/TOC/AS		ITEM-28	1 1	PIPE 3/4" 0.0	22 LCS/ECG/ASR		17
U16a45	174 200 64 62 70	8050/2015/	20 - 1	- PPE 28 0.0	125	05,/E06,/ASR 3-5-002 05,/E06,/ASR 3-5-002 05,/E06,/ASR 3-5-002	_	ITEM-49	- 8	- PIPE 3/4" 0.0	7 7 1 CS/TOC/ES		ITEM-29		PIPE 3/4" 0.0	2.3 LGS/EGG/ASM		0
16.5 STAINLESS STEEL HEX HD. SCHEW	175 (0.2016-1987 ASS-304 174 (0.134 (0.087-2) (0.1387 (0.011-14) 2002 84 82 70			- MOLYSDENUM DISULPHIDE	129	LOS/EDG/ASA	micrownidt010	TEN-50	- 40	- MALE CONNECTOR 1/2"0.0 x 1/4"85P	70 3-3-029 74 ICT/STD	1	ITEM-13	1 - 1	PIPE 3/4" 0.0	24 LGS/CGG/ASR		0
PREVALING TORQUE MUT M16 STAMLESS STEEL MACHINE WASHER	1 / Parama-social 87 75 30		10	- SCREW PROTECTION	126	243	WL420801 MOLYSOWNDSULFO		- 40		75 US\$/000	_	ITEM-3	H-11.	PIPE 3/4" 0.0	2/		-
INDICATOR STAINLESS STEEL	77 AB3736/A 61367 (1965-14)	-05				243	BASALTO: ACRYLESTER			- PPE CUP (26)	76 LGS/EDG		ITEM-7	- 4	PIPE 3/4" 0.0	26 L05/C00/ASR		-
PIPE CUP (13)		R0S0/2015/0		- WANISH RM, 7012	128	KOBO				- PPE 1/2" 0.0	77 (95/505/8	*	mgw-30	- 4				- (
	179 3-5-000 178 108/000 178 3-5-000	IIIM-65	- 2	- UNION ELBOW 1/2 0.0 - HARDENER KV 39.0650		3-5-017 K080	EP-06	HEM-1		- PPE 1/2" 0.0	78 LG3/600/AS	B B4, A2, A3	ITEW-31	- 4 -	FEMALE CONNECTOR 3/4"0.0 x 1/2"85P	28 107/310		- 1
COPT. 20 mm MB (POrrm PRICH)	184 3-5-020	ITEM-65	1 1	- UNION ELBOW 1/2*0.0		EF/STD 3-5-017		ITEM-1	24	STAINLESS STEEL HEX. HD. SCREW	79 61364 (1987)	2 IS-1367 (MRT-14) B4, A2 70		- 4 -	FEMALE CONVECTOR 28mm 0.0 x 1°BSP	29 3-5-107		
PIPE 1" 0.0 FLANGE WALE CONNECTOR PIPE TO EGOT. 20 mm MB (Parm PRCH)	180 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ITEM-1	1 2	- FRP LINNG FOR 25 NB PIPE	131	CC36538		IIDM-4	- 2	- PPF 1" 0.0	80 LGS/00G/AS	4	ITEM-32	- 2 -	UNION TEE 3/4"0.0	30 10 /STD 1018		
MPE 11 0.0	82 3:5-602	(IFM-66	12 -	- FRP LINNG FOR 25 NB PIPE	1134	CC36538		ITEM-3	58	STANLESS STEEL PREVMLING TORQUE NUT MIG STAINLESS STEEL MACHINE WASHER	81 (52015-196			- 6 -	MALE ELBOW CONNECTOR NOT 0.0 x 1/2789FT	32 J-5-015 31 J-5-015 30 J-5-023 30 J-5-023		-
PIPE 1" 0.0	185 3-002 184 25/00/20 183 3-002 183 3-002 182 3-002	ITEM-67	12	- U-CLAMP FOR 25 NB PIPE	123	CC36923		EPON QUALITY	40 -		82 (1700) -2005)	(1) S-1367 (PMRT-14) S4, K2 70		- 6 -	STRWGHT UNION 28mm 0.0	32 JOF/STD		r
PIPE 1" 0.0	1 07 LSS/ESS/ESS	ITEM=68	1 0	RUBBER PACKING 4x30x70 FOR 25 NB PIPE	133			COATNO TO MOTS 057 MOTS = 0.30 EPDM QUALITY	4 -	- PACKING	83 3-5-002			- 2 -	STRAIGHT UNION 3/4"O.D	3.3 IOF/STD		п
PIPE 1" 0.0	100 3-3-002 104 USS/USS/WSR	ITEM-69	10	- HEX NUT MIO	134	LHW09	61364, FT3-92-6	OSMING TO MORS 057	- 1	- PPE 28 0.0			ITEM-33	- 2 -	UNION ELBOW 3/4"OLD	34 KF/ST0 3-5-017		п
one 1° an	186 (35/503/KSR 3-5-002 185 (35/505/KSR	ITEM- SI	8 -	- SPRING WASHER BIO	1 35	LHW09	6:3063-1994	ITEM-21	2	- BRACKET COMPLETE	85 188/800			- 8 -	MALE CONNECTOR 28mm 0.0 x 1°859T	35 (CF/STD 3-5-016		m
PIPE 28 0.0		(TDM-71	54 -	STANLESS STEEL HEX. HD. SCREW	136	1564 (PART-2) 2002	15:1367 (FART-14) 84, A2 30		2	- BRACKET COMPLETE	86 3-5-016			- 8 -	MALE CONNECTOR 3/4"0.0 x 1/2"EEPT	36 JOF/STD 3-5-016		ır
FEED PIPE (NB)	187 woxees	_	82 -	STANLESS STEEL MACHINE WASHER	177	COOLE 1057	86, A2 30 A51-304		1,1-1-	- LEVER COMPLETE	87 48/606			- 5 -	CLAVP	37 3-5-028		п
BRAKE PIPE (NB)	1 RR MODECE		78 -	STANLESS STEEL NYLOC NUT		7002-2005091	(S) 1367 (FART-14) 84, A2 70		11-	- SLACK COMPLETE	88 1.05/600			197	STAINLESS STEEL HEX. HD. SCREW MGx25	38 S1364 (FART-2) S1387 (PART-14)		
PIPE 1/2" 0.0	190 3-5-02 189 3-5-02	ITEM-72	10 -	_ STANLESS STEEL HEX. HO. SCHEW		3-3-002 11384 (PART-2) 2002	(5:1367 (FART-14) 84, A2 70		1	SLACK COMPLETE	89 3-5-019			74	STAINLESS STEEL HEX. HD. SCREW MBx25	30 (5:1364 (FART-2) 5:1387 (PWRT-14)		
PIPE 1/2" 0.0		ITEM-73	1 - 1	- PIPE 1/2" 0.0	140	(29/E02/XSR		ITEM-51	4	- BRACKET	90 155/100			95	M12465 STANLESS STEEL HEX, HD, SCHEW M8x60			
PIPE 1/2" 0.0	192 97005 191 USA (000 ASK)	-05 ITEM-74	1 - 1	- PIPE - 1/2" 0.0	141	3-5-002 3-5-002		ITEM-52	11-	- FORK HEAD	91 155/600			8	STAINLESS STEEL HEX, HD, SCREW M12445	41 0.1364 (FART-2) 10.1367 (PME-14) 2000 84, 62 70 4.0 (0.1304 (FART-2) 0.1367 (PME-14)		
TWO WAY DRY COLLECTOR 20mm BORE	193 38112 103 8090/98	R050/2015/0	6 _ 1	- PIPE 1/2" 0.0		05/605/ASR 3-5-002		ITEM-53	1	- SLACK	92 155/000			202	STANLESS STEEL MACHINE WISHER	42 s:2016-1957 ASS-304		
ZDENT CHECK VALVE ASSY, WITH CHOKE	3-4 3-5-007 103 8090/5K	8050/2015/0	0	4 HOSE CONNECTION 20 BORE x 550		C/EMU/M/ASR		ITEM−1	1	- THREAD BUSH	94 3-3-024 93 3-3-023			18	STAINLESS STEEL HEX. HD. SCREW MBx30	43 (5:1364 (FART-2) (5:1367 (PART-14)) 84, A2 76		
PPE 1" 0.0	195 3-5-602 194 3-5-602 197 8500/58	TEM- 82	- 14	- MALE CONNECTOR 1" D.D x 3/4"BSPT	11.7	3-5-002 ICF/STD 3-5-016		ITEM-4	3	FORK HEAD COMPLETE	94 105/105			222	STANLESS STEEL MACHINE WASHER	44 6:2016-1967 ASS-304		
PPE 1" 0.0	k o c LES/100/ASR	пем- 83	- 1 - 1	- PIPE 1" 0.0	145	3-5-002 ugs/c00/ASR		ITEM-78	11-1	- BOLT 85x30x23	95	(PART-14) -84 12 6563-70 A2-70		32	STRINLESS STEEL MACHINE WASHER	45 (5/2016-1967 ASI-304		
			10	- PPE 1" 0.0		03/700/858		mex-79	1, -1	4 1 1/4'85P(W) x 1'85P(F) - SPLIT PIN 1.6 x 12	96 (5:549-197	4 82 10 6:1367		202	STANLESS STEEL PREDICENCE NOT ME	46 10.7002-2006(81) 15.1367 (7967-14)		
			10	- PIPE CUP		1636164			1			3.4.0	ITEM=10	169	STANLESS STEEL NUT WA	47 (5.7002-2006(91) (5.1367 (FMF-14))		
			10 -	- RRACKET	170	3-5-002 05/000/ASR 05/000/ASR 05-002 000/005			16	STAINLESS STEEL HEX. HD. SCHEW	98 5 1383 (1981)	2 IS:1367 (MAT-14) 54, A2 70		40	STAINLESS STEEL PREVAIUNG TORQUE NUT W12	48 s.7022-2006(91) 15:1367 (FMT-14)		
				- PPE 1" 0.0				ITDM-56		HEX. THIN NUT MID	99 51384 (1981)	4) IS:1367 (PART-14) BA A2 70				49 3-6-018		

LSCN/E00/ASR-9-0-002 ASSEMBLY ORANNOS 12-03-2021 15-09-2218

Laulics/mc/well CS/cod DMERGENCY BRAKE LAYOUT N EAR LOS/cod

ASSOCIATION ARE SPRING CONCHES TO SOCIAL STATE OF ALL AYOUT OF AIR BRAKE PIPING ARROT.

WITH SS PIPES & DOUBLE FERRULE FITTINGS.

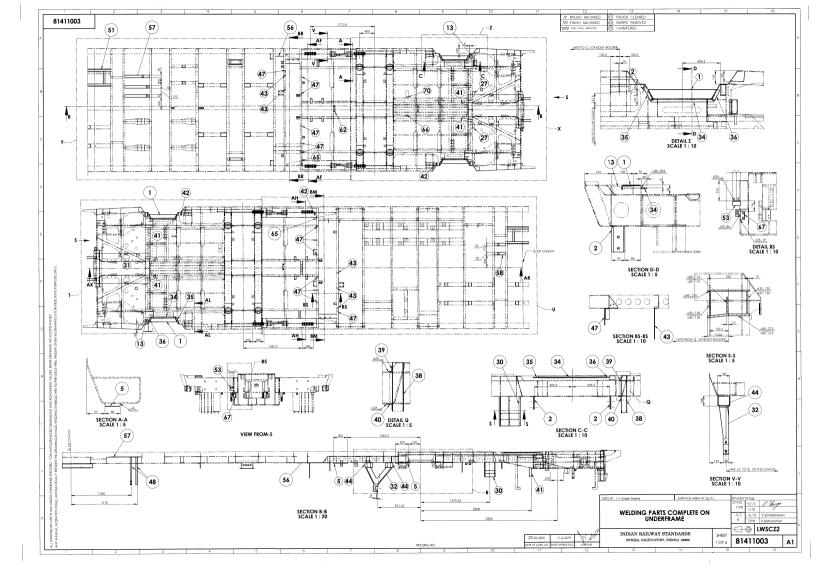
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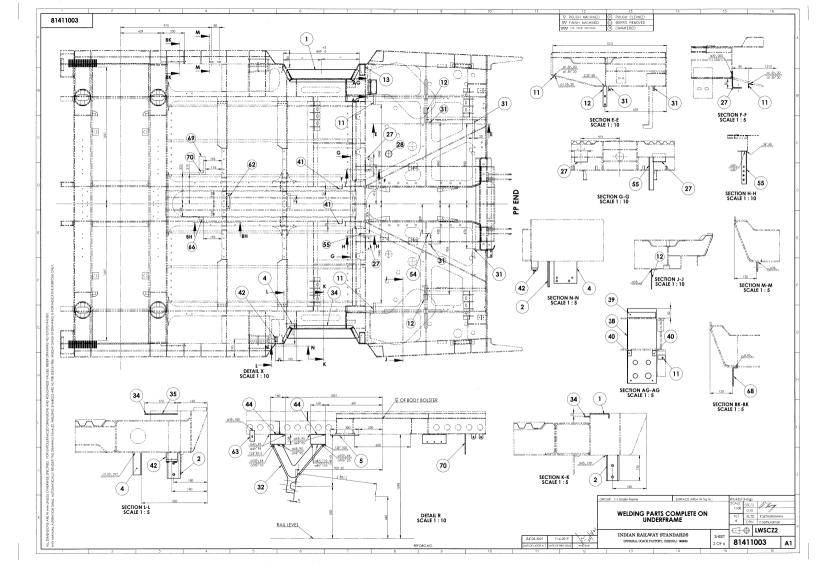
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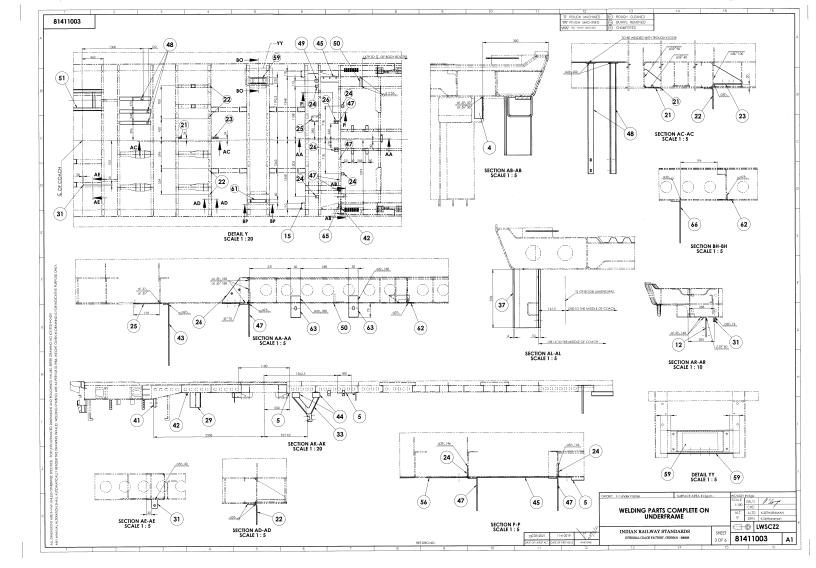
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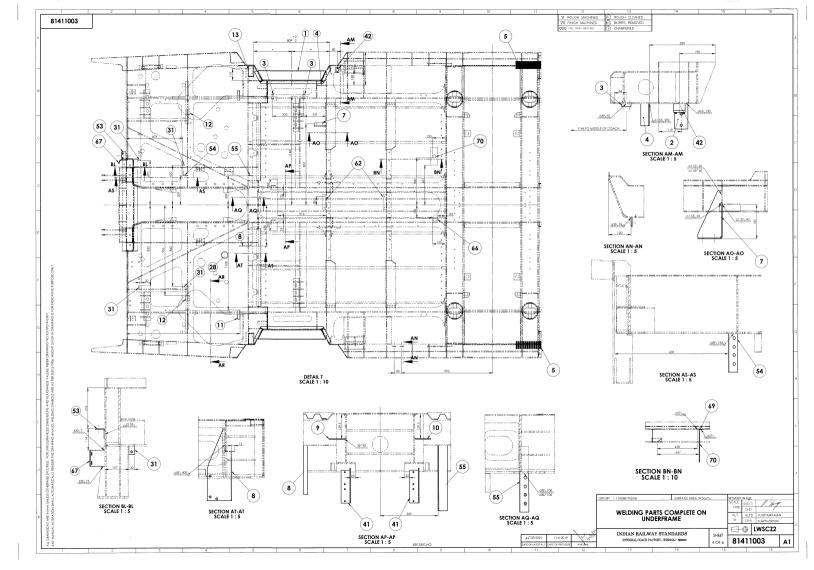
ROBERT INDIAN RAILWAY
783 STANDARDS

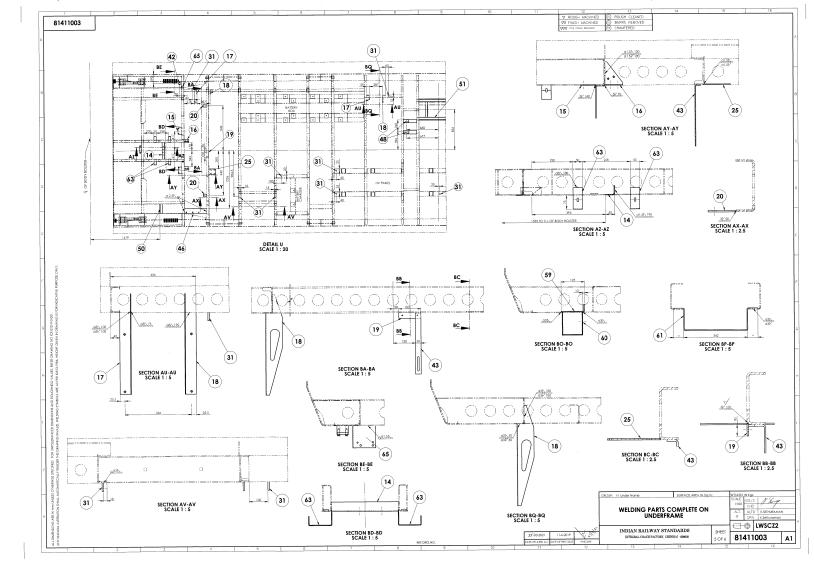
8)	1:20	ALT DR		GUNASTRARAN EM.Edunar								
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-	⊲	ф-	IN	INTEGRAL COACH FACTORY CHEMINA-600038								
3	LSCN/EOG/ASR-3-5-001											
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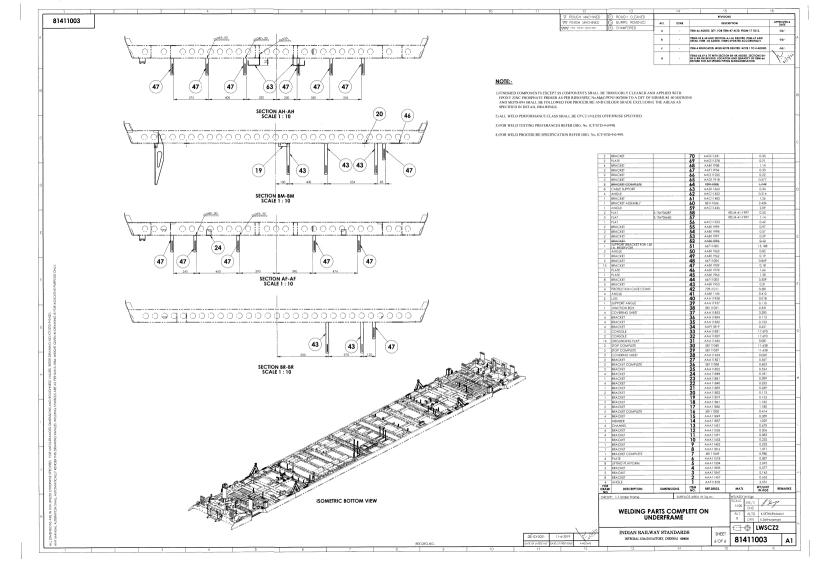


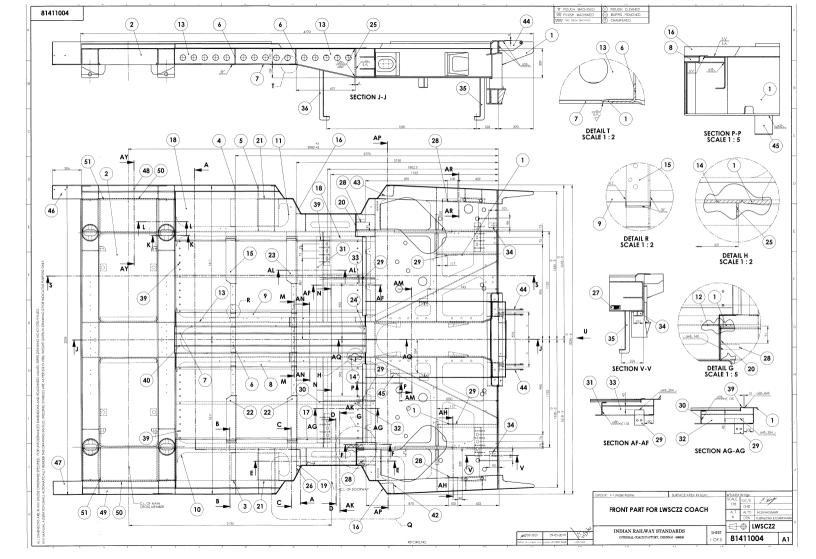


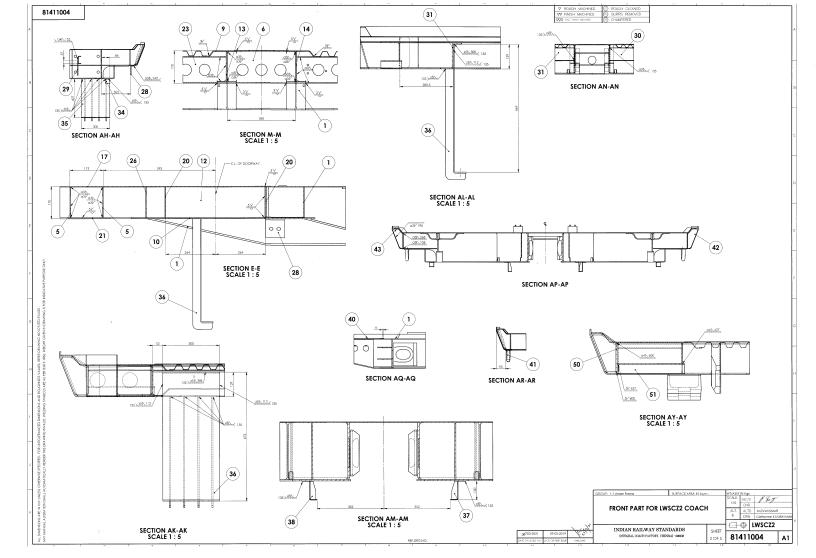


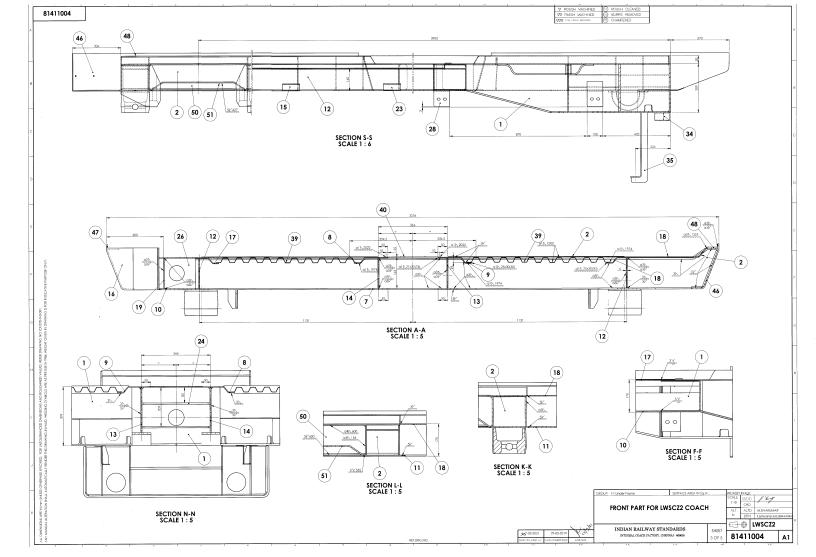


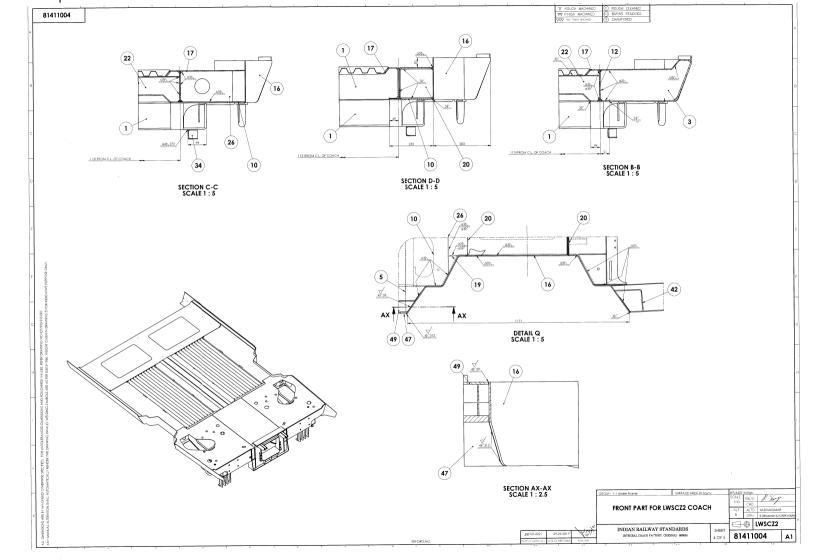


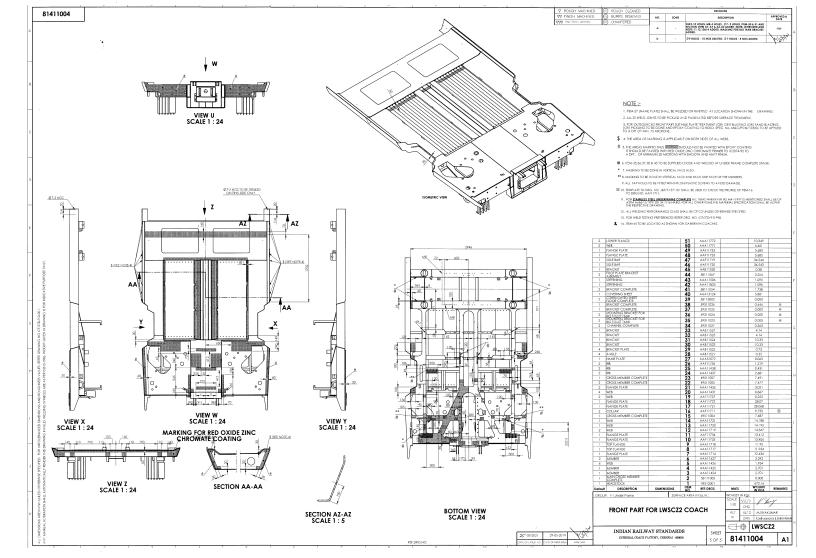


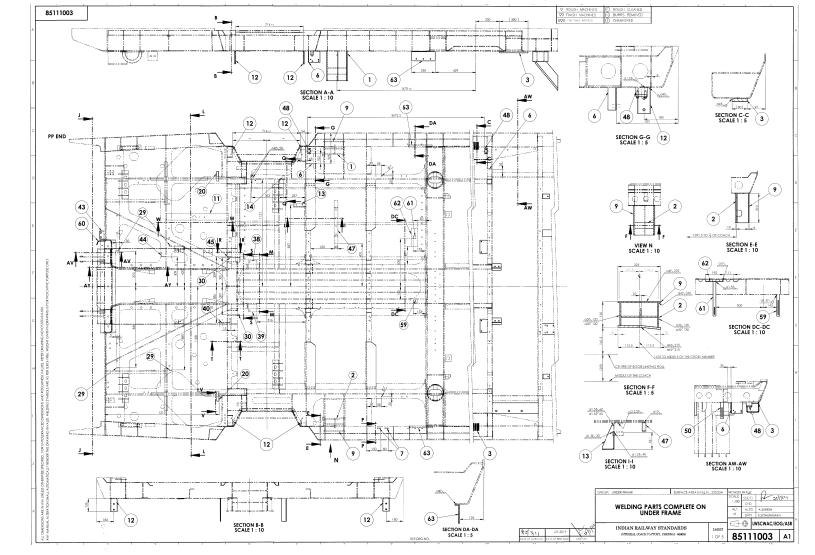


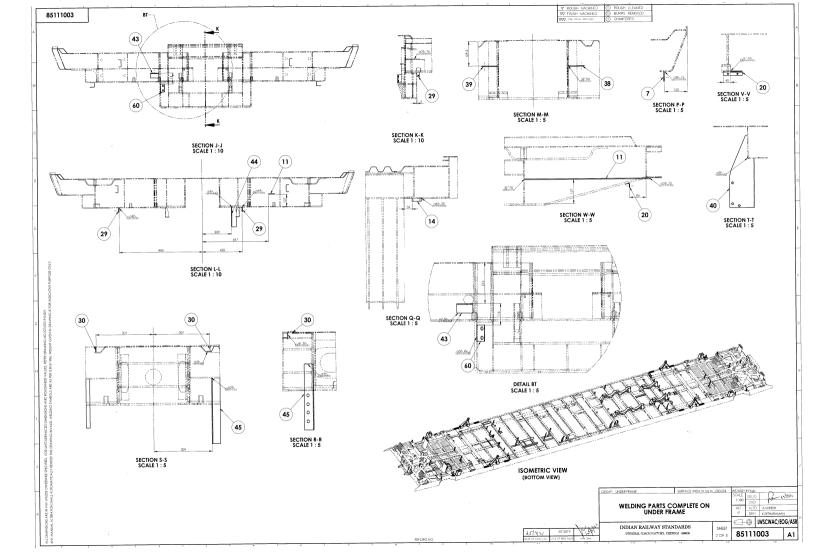


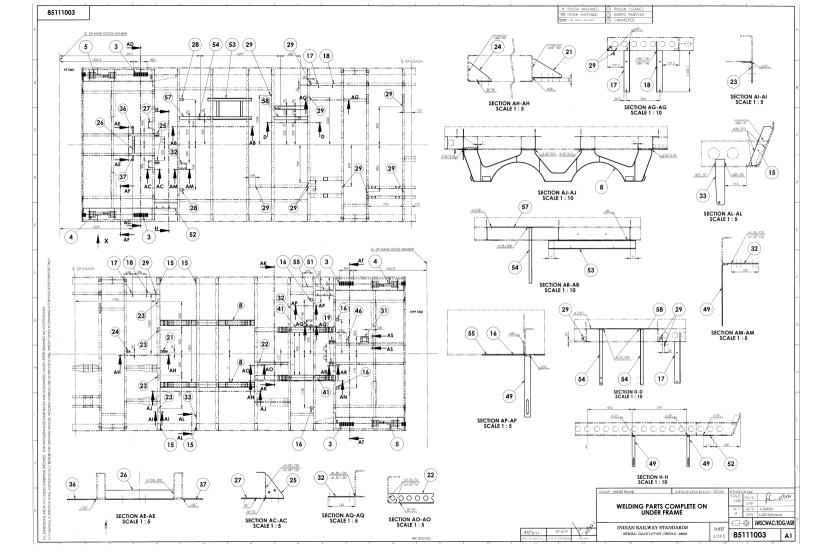


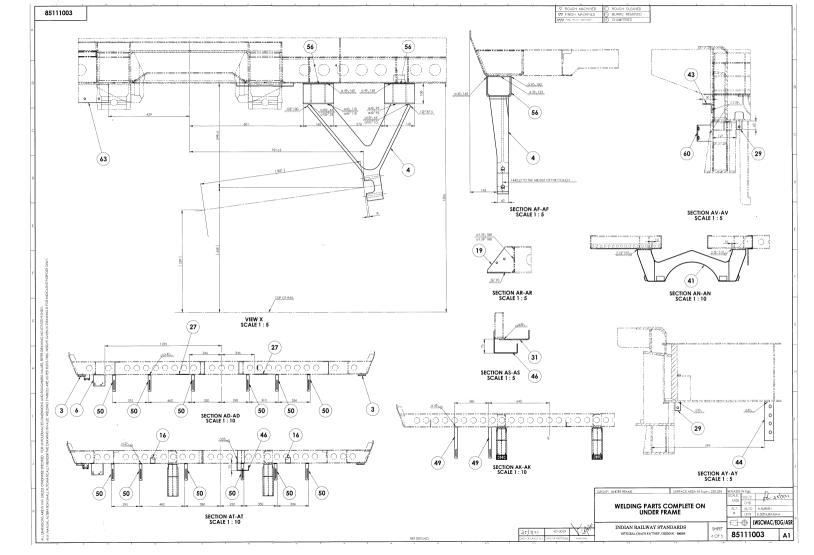


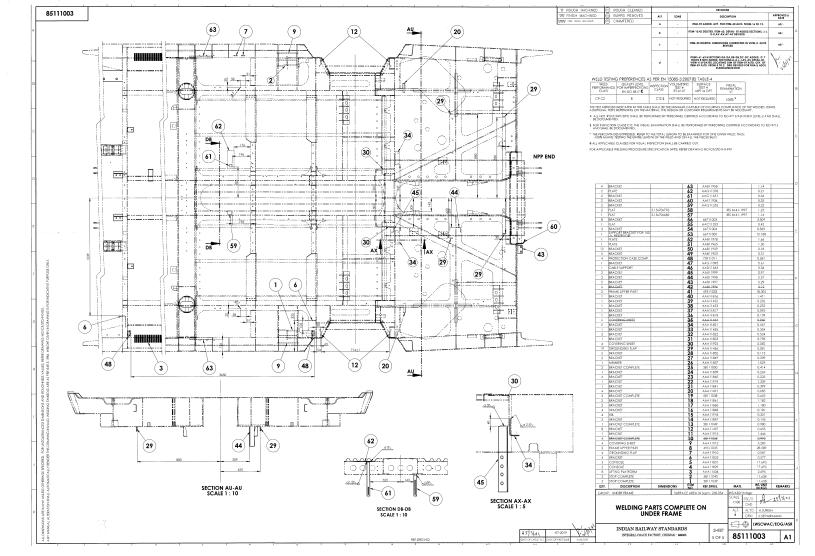


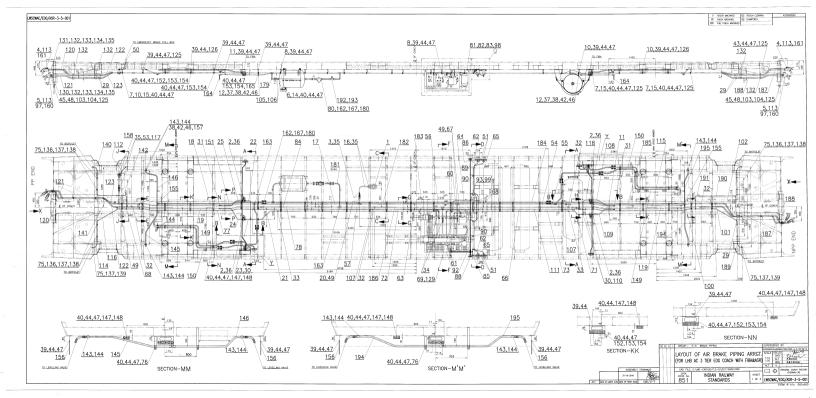


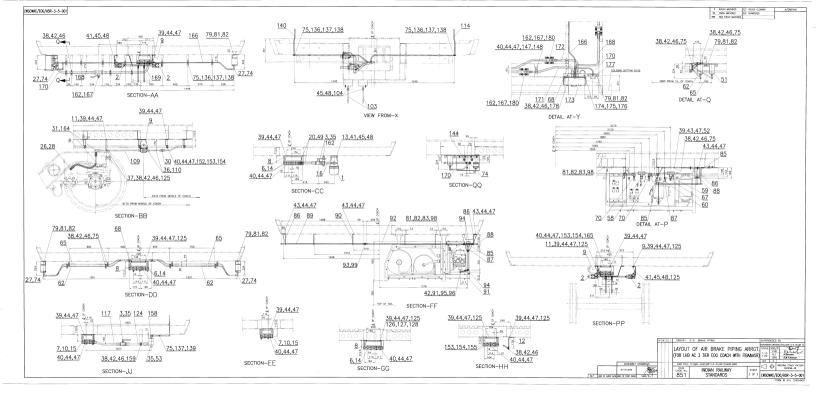












NOTE:-

NOTE:
1. ALL SCREW CONNECTIONS WITH NUTS OF STAINLESS STEEL HAVE TO GREASED WITH MOUTKOTE/MOUTBOBAUM DISJUPHIDE PRIOR TO BE SCEWED W.

2. FASTENERS SHALL BE OF MAKE OWN OR TVS OR UNBRAKO OR LPS ONLY.

V FOUGH MACHINED (B) CHAMPERED

W FINSH MACHINED (B) CHAMPERED

WW FINS FINSH MACHINED

(FOR LHB AC 3 TIER EOS COACH WITH FIBABASR)

COP FLE CIMB-OCKENIA-3-0003980000000

COCK NO. INDIAN RAILWAY SHEET.

851 STANDARDS

ALTERATIONS

a 03/2021

ASR LIME MODIFED, IEEM 194 & 195 ADDED, RET/D FROM LEG/MOD /ASR 3-5-006

AAXS/139.

887: 807 Ltr ns. MD4413/ Dt 17-00-2021

SHEET S - INTERNAL COUCH FACTORY CHEMICAL COU

			- 2 -	PIPE 1" 0.0	15d '3	-5-002		ITDN-57	- 1	PIPE 1/2" 0.0	100 34	5-002		ITEM-34	-	- 1 EMERCENCY BRAKE LAY PASSENGER AREA		50 3-3-003		
			- 2 -	PIPE 1" 0.0	149 19	5/E00/ASR -5-002 5/E00/ASR -5-002		ITEN-56	2 -	HEX. THIN NUT MID	100 °	4 (PMT-4) XX	5136T (PMRT-14) 84, 82 70		-			50 (55/t00 3-3-003 49 (57/50) 49 (57/50)		ITEM-5
			10	BRACKET	148	G36185			16	STAINLESS STEEL HEX. HD. SCHEW M10x45	98 5136	3 (9965-2)	21387 (PART-14) 84, 42 70		40		112	48 3 7002-2005(91) 04. 32 70	4)	
			10	PIPE CUP	147	G36184				REDUCING BUSH 1 1/4"BSPT(M) x 1"BSP(F)	97 5	7/STD 5-036		ITEM-10	169	- STANLESS STELL	49.	47 s:7002-2005(31) 5:1357 (PMRT-1	4)	
				PPE 1" 0.0	146	S/EDG/ASR		ITEM=56	1 -	SPUT PIN 1.6 x 12	96 854	49-1974	#2 TO S.1367 (PART-14) -84		202	- STANLESS STEEL PREVALING TORQUE NUT I		46 s:7002-2005(31) S:1367 (PMRT-1	4)	
	US/005/ksk 3-5-002	ITEM=77		PIPE 1" 0.0	146	S/LOG/AGR		ITEM-54	1	BOLT B6x30x23	05		(56963-70 A2-70		32	_ STANLESS STEEL MACHINE	WISHER	45 IS 2016-1967 ASS-304		
	3-5-002	TDM-76		MALE CONNECTOR 1" 0.0 x 3/4"BSPT	179	5/E0G/ASR -5-002 CF/STD -5-016		mrw-4		FORK HEAD COMPLETE	04 10	S/E00 5-024	A2-70		222	STAINLESS STEEL WACHINE	WASHER	44 IS 2016-1967 AG-304		
- 1 - PIPE 1" 0.0 194	3-5-002 8000/50	R050/2015/CG	- 14 -		144	-5-015 OHIO/ASS		ITEM-1	9 -	THREAD BUSH	94 5	5-024 8/500 5-023			18	STANLESS STEEL HEX. HD	SCREW	4 7 5 194 (987-2) (CIME (981-2	0	-
1 20mm CHECK YALVE ASSY, WITH CHOKE 19.	98112	-05 R050/2015/CG	4	HOSE CONNECTION 20 BORE x 550		TEMU/W/ASR 3-5-009 S/700/ASR			11 - 1		90 15	5-023 5/506 5-022			2022	STANLESS STEEL MACHINE	WISHER	43 xxx 54, x2 70 42 x2016-1987 49:-304		
1 TWO WAY DIRT COLLECTOR 20mm BORE 193	9030/5K 97005	-05	- 1 -	PIPE 1/2" 0.0	142	5-002 5/603/ASH		ITEM-53	1 -	SLACK	92 1	5-022		-	202	STANLESS STEEL HEX. HD		4 1 S1364 (FMT-2) S1367 (FMT-	6	_
- 1 - PIPE 1/2" 0.0 19	1GS/EGG/ASR 3-5-GG2	TEM-74	- 1 -	PRE 1/2" O.D	1413	1-5-002		ITEM=52	1 -	FORK HEAD	91 5	5/t0G 5 001			8	STANLESS STEEL HEX. HD		4 0 6 1 6 4 6 6 7 7 8 6 1 1 2 7 1 1 2 7 1		_
- 1 - PIPE 1/2" 0.0 190	L65/E06/ASR 3-5-502	птем−73	- 1 -	PIPE 1/2" 0.0	140 ¹⁶	1-5-002	6:1367 (9965-14) 64, A2 70	ITEM-51	4 -	BRACKET	90 🔑	S/E00 5-020			95	STANLESS STEEL HEX. HD		39 5:1364 (7497-22 5:1387 (9491-	~	
	L0S/E00/AGR 3-5-002	ITEM-72	10	STAINLESS STEEL HEX. HD. SCREW MSx16	139 2	384 [PART-2] 2002	8(1367 (9985-14) 84, A2 70		1 -	SLACK COMPLETE	89 🔑	5/500 5-019			74	STANLESS STEEL HEX HD		38 (5:1364 (7467 - 2) (5:1367 (7467 - 2) 38 (5:1364 (7467 - 2) (5:1367 (7467 - 2) 34, 42 70	2	
- 1 - BRAKE PIPE (NB) 18			78	STAINLESS STEEL MYLDC MUT	11381≈	002-2005(91)	5:1357 (79/6:-14) 94, A2 70		1 -	SLACK COMPLETE	88 🗜	5/50G 5-018 5/50G 5-017			197	- STANGESS STEEL HEX. HD	SUMEN	38 200 84, 12 30	"	
- 1 - FEED PIPE (NB) 18	worses		82	STAINLESS STEEL MACHINE WASHER	137 5	2015-1957	ASI-304		1	LEVER COMPLETE	87 5	5-017			1 1-1	5 - CLAMP		37 LGS/EDG 3-5-028		ITEM-
	L0S/bos/ASR	ITDN-71	54	STANLESS STEEL HEX. HD. SCREW	13651	364 (FART-2) 2002	IS(1367 (PMRT-14) 84, AZ 70		2 -	BRACKET COMPLETE	86 10	S/E00			-	8 - MALE CONNECTOR 3/4"0.0	x 1/2"BSPT	36 SEF/STD 3-5-016		ITEM-
- 1 - PIPE 28 O.D 18		TDV=70	12 -	SPRING WASHIN BIO	135	FHMOS	IS:3063-1994	CONTING TO MOTS GOT	2 -	BRACKET COMPLETE	85 3	S/E00 5-090			-	8 - MALE CONNECTOR 28mm O	0 x 1"89FT	35 SF/STD 3-5-016		пем-
- 1 - PPE 1" O.D 18	3-5-002	TEM-69	12	HEX.NUT MID	34		S.1364, PT.3-92-8	ITEM -4 CONTING TO MOTS GOT	- 1	PPE 28 O.D	84 19	EDG/ASR		ITEM=33	1 -	2 - UNION ELBOW 3/4*0.D		34 KEF/STD		ITDA
- 1 - PIPE 1" O.D 18	3-5-002	TEM-68	12	RUBBER PACKING 4x30x70 FOR	123			MDTS-030 EPON QUALITY	4 -		83 5	000/ASR 5-002 5/000 5-014			1 -	2 - STRWGHT UNION 3/4°O.	D	33 CF/STD		ITEM
- 1 - PIPE 1" O.D 18.	3-5-602			25 NB PIPE	123	0036923	-+	EPON QUALITY	40 -	STAINLESS STEEL PREDALING TORQUE NUT M10	82	0-014	S 1367 (PART-14) 54, 82 70		١.	6 - STRAIGHT UNION 28mm		32 EF/STD		ITEM
- 1 - PIPE 1" O.D 18		ITEM−67	12	U-CLANP FOR 25 NB PIPE				ITEM-3		STANLESS STEEL MACHINE WASHER		116-1967	84, 82 70 89-304		НŰ	WAY FIRM COMPETITIONED C		31 KF/STD	1	ITEM
- 1 - PIPE 1" 0.0 18	1.05/1005/1001 3-5-002 167/500 3-5-020	ITEM-66	2	FRP LINING FOR 25 NB PIPE		0036538			56 -	10.5		000/88	A3-3A	ITEM-32	11	4 3/4" 0.0 x M26x1.5 (M) 2 - UNION TEE 3/4"0.0	_	3-5-13/ 20 FE/SID		ITEM
- 20 - FLANCE MALE CONNECTOR PIPE TO 18	1 CF/STD 3-5-020	ITEM-1	2	FRP UNING FOR 25 NB PIPE	104	0036538		ITEM=4	- 2	PIPE 1" O.D STAINLESS STEEL HEX. HD. SCREW	00 3-	5-002	P.1767 (MAT. 16)	1169-32	11			JU 3-5-018		ITEM
- 1 - PIPE 1" 0.0 17	9 3-5-002	ITEM-65	- 2 -	UNION ELBOW 1/2*0.0	129	KCF/STD 5-5-017		ITEN-1	24 -	M10x35	79 3	002	5.1367 (MMT-14) 84, A2, 70		11-1	4 - FEMALE CONNECTOR 28mm		29 3-5-107	-	
9 PIPE CLIP (13) 17	LGS/E00 3-5-030	ITEM-3	0	HARDENER KV 39.0650	128	K090	EP-0S		- 1	PIPE 1/2" 0.0	78 3-	5-002 /ros/wst		ITEM=31	-	4 - FEMALE CONNECTOR 3/4"O.		ZO 3-5-107		ITEM
4 INDICATOR 17	A93736/A	R090/2015/09 -05	0	- VARNISH RAL 7012	127	KX090	RAL7012, BASALTGr		- 1	PIPE 1/2" 0.0	77 32	5-002		ITON-30	-	4 - SWVEL ELBOW 1/2"0.0		27 SF/STD 3-5-022		ITEM
CONTROL CALL	S 2002-2009(91) 15:1367 (FMF-14) B4, A2 70		9	SCREW PROTECTION	126	243	ACRYLESTER WL420601		4 -	PIPE CUP (26)	76 5	5-030		ITEM - 7	-	4 - PPE 3/4" 0.0		26 3-5-002 26 3-5-002		ITEM
PRODUCTOR CONTRACTOR MATERIAL PARTY IN THE PROPERTY OF THE PRO			0	MOLYBODNUM DISJUPHIDE	125		NOLYSSANDSLUTD		- 40	PPE CUP (13)	75 10	5/600 5-029 F/SID		ITEM-3	-	1 - PPE 3/4" 0.0		25 LGS/EDG/ASR 3-5-002		ITEM
STANLESS STEEL HEX. HD. SCHEW 17	45-1564 (P60T-57 Sc1267 (P60T-14)		- 1	PIPE 28 0.D	124	B/E0G/ASR 3—5—002 B/E0G/ASR		ITEM-50	- 8	MALE CONNECTOR 1/2"0.0 x 1/4"BSPT				ITEM-13	-	1 - PPE 3/4" 0.0		24 LGS/E0G/ASR 3-5-002		ITEM
	9 2002 84, A2 70 C 149523	RDS0/2015/00	1	PIPE 28 0.0	123	5/E00/ASR 3-5-007		ITEM-49	- 1	PIPE 3/4" O.D	73 103/	/500/ASR		ITEM-29	1 -	1 - PIPE 3/4" 0.0		23 LGS/EDG/ASR		ITEM
- 2 Fight DEFICE	179 30 47 7650	-Q5 ITEM-64	1.3	PIPE 28 0.0	2224	3-5-002 5/E00/ASR 3-5-002		ITEM-48	- 1	PIPE 3/4" 0.0	72 1997	/EOG/ASR		/TEM−28	1 -	1 - PPE 3/4" 0.0		22 LCS/100/ASR 3-5-002 21 LCS/100/ASR 3-5-002		ITEM
- 1 - PIPE 1" 0.0 17	2 US/200/48# 3-5-002 105/206/48# 3-5-002 105/206/48#	ITEM=63	H	PPE 25 (NB)	124	3-5-002 M006331			1-11	DDE 3/4" 0.0	71 103/	/toc/ASR		ITEM-27	1 -	1 - PIPE 3/4" 0.0		21 LGS/EDG/ASK		ITDA
- 1 - PIPE 1" 0.0 17	3-5-002		1-11			4006330				PPE 3/4" 0.0	70 105	-5-002 /E0G/ASR		// (πεм−26	H.	1 - PPE 28 O.D	-	20 LGS/EDG/ASR	1	ITDA
- 1 - PPE 1/2 0.0	3-5-002	ITDM-62	- 1 -	- PIPE 25 (NB)	120	5/mc/wat		ITM-47	- 2	PPE 1/2" 0.0	60 100	5-002 /E06/ASR		ITEM-25	ΗĒ	1 - PPC 28 0.D		10 LGS/DG/ASR	_	ITEM
- 1 - PIPE 1" 0.0 16	9 (05/100/ASH 3-5-002 100/100/ASH	(TEM-61	- 1 -	- PPE 28 0.0				ITEN-46	- 1	PPE 1/2 0.0	70 (3) 69 (3) 68 (67 (3) 66 (3) 65 (3)	5-002 F/SID			H-			19 (3/706/48) 19 (3/706/48) 18 (3/706/48) 17 (3/6-62) 17 (3/6-62) 16 (3/706/48) 15 (48/706/48) 15 (48/706/48)	_	ITEM
- 1 - PIPE 1" 0.0	8 3-5-002 7 97003	ILEM-RO	- 1 -	- PIPE 3/4" 0.0	J 18	S/000/ASA 3-5-002			- 7	UNION TEE 1/2"0.0	00	5-018		ITEM-1	1-	1 - PIPE 28 0.0		10 3-5-002 4 7 (SV)00C/858		ITEM
g ISOLATING COCK 16	7 97000 97000 105/9702/898	R0S0/2015/CG -05	- 1	- PIPE 28 0.D	117	3-5-002		ITEM-45	- 1	PIPE 1/2" 0.0	6/3	5-002		ITEM−24	1 -	1 - PIPE 28 0.D		3-5-002	+	
- 1 - PIPE 1/2" O.D 16	6 3-5-002	ITEM-59	- 1	- PIPE 1/2" 0.0	116	3-5-002		ITEM=44	- 1	PIPE 1/2" 0.0	66 3	5-002		ITEM-23	11-	1 - PIPE 28 0.D		10 3-5-002	-	тем
	L 1036350		- 1 -	- PIPE 28 O.D	115	3-5-002		ITEM-43	- 2	PIPE 1/2" 0.0	65 3	5-002		ITEM-22	4	PIPE CLIP		15 3-5-000		_
4 Hogs connection 81/25-650mm		RD50/2011/00 -04	- 1	- PIPE 1/2" 0.0	114	25/t06/ASR 3-5-002 25/t06/ASR 3-5-002		ITEM-42	- 1	PIPE 1/2" 0.0	1641	5-002		ITEM-21	15	PIPE CUP		14 3-5-005		
- 3 - REDUCING UNION TEE 28mm 0.0 x 1785P7 1 F	3 3-5-019	ITEM-1	- 4	HEX. PIPE NUT G1"	1175	3468-1991	At51-304		- 1	- PIPE 1/2" 0.0		/EDG/ASR -5-002 /EDG/ASR		ITEM-20	1	PACKING		14 LGS/EDG/ASR 3-3-0-005 13 LGS/EDG 13 3-5-010		
- 3 - REDUCING UNDA TEL SERVE CO X T 85" E	2 00014		- 1	- PIPE 1/2" 0.0	112	55/EDG/ASR 3-5-002 55/EDG/ASR 3-5-002		ITEM-41	- 2	PIPE 1/2" 0.0	62 3	/F0G/AGR -5-002		ITEM-19	2	BRACKET		12 5-5-009		
10 - SOLATING COCK	2 CC35334 10550 DRICMO 100-58133-5-0	R050/2011/00	1	- PIPE 1/2" 0.0	1119	S/TOG/ASR		ITEM-40		1 BRAKE DEVICE CONTAINER COMPLETE	61 01	97437		RDSO/2011/06 -04	2	BRACKET		11 3-5-008		
2 ANGLE COCK (F.P) 16	BIGG 095X0	RDS0/2011/CG		- PPE 3/4" 0.0	110	3-5-002 05/T0G/ASR 3-5-002		ITEM-39	- 1	PIPE 1/2" 0.0	COLUM	/E00/ASR 5-002		ITEM=18	4	BRACKET COMPLETE		10 (05/600		
	0 0 7500	-04 ITEM-8	1	- PPE 3/4" 0.0	Log	3-5-002 (S/E00/ASR 3-5-002		ITEM-38	1. 1	PIPE 28 0.0				ITEM-17	1 .	BRACKET COMPLETE		9 1-5-006		
	9 LGS/E05 3-5-028 DF/STD		1-11			3-5-002 05/00/ASR		ITEM-37	110	- PIPE 28 0.0	Louis	5-002 /EDG/ASM		ITEM-16	15	BRACKET COMPLETE		8 1636212		1
- 1 - WALE ELECT CONVECTION 15	8 157/STD 3-5-023 7 1-5-029	ITEM-14	1-11	- PIPE 3/4" 0.D	108	3-5-002 ICF/SID		ITEM-1	+10	PIPE 28 0.0	E 7 LES	5=002 /EDG/ASR		ITEM-15	1 .	BRACKET		7 LDS/EGG 3-5-004	+	_
- 17 - PIPE CUP (26)	7 3-5-029	ITEM=6	- 12	- STRAIGHT UNION 1/2"0.D	107	3-5-015 ICE/STD			1-11		56			ITEM-15	+	BRACKET		6 1034215	1	1 -
- 4 - PLATE	6 44435139	_	- 2	- MALE CONNECTOR 1"O.D x 1"BSPT	106	3-5-016 875/STD		ITEM=8	- 1	PPE 28 0.0				ITEM=13	115			E 8050/3K		R050/2
- 3 - UNION TEE 1" O.D	5 J-5-018	ITEM-3		1 AR RESERVOR 150 Ltm	105	3-5-066		0.70.000	- 1	PPE 28 0.0	30 3	-5-022 /E00/ASH			1 -	- 2 HOSE CONNECTION FOR B.F		5 73547 4 W0-81027	+	80507
	4 LIS/F007/ASR 3-5-003		4 -	- HEX. FIT BOLT M12x27.5x50	104	3640-1982		A2 TO IS 1367 (PART-14) -84	- 1	- PPE 28 0.0	3-	-5-002		ITEM=12	1 -	- 2 HOSE CONNECTION FOR F.P.	L=796 mm	4 5-01		R050/2
10 BRACKET	T (0.36181		4 -	- ноок	103	165/E00 3-5-006			- -	DWERGENCY BRAKE VALVE	53 ≪	89712/83		RD90/2011/00 -04	1 -	- 2 ISOLATING COCK 1"		3 сапась	1	R050/
	39 (636179		- 1	- PIPE 28 0.0	102	3-5-002		/TEM=36	1 -	- BRACKET	52 5	25/EDG -5-013			LI-	- 4 ANTI SKID VALVE		2 0131766	1	R050/
	1 LUS/100/ASR 3-5-002	TEM-58	- 1	- PPE 28 0.0	101	55/T05/ASR 3-5-002		mew-35		4 INDICATOR	51 49.	3736/A		RD90/2011/06 -04	1 -	- 1 BRAKE PIPE ACCELERAT	OR	1 2882102	1	
NO. OFF DESCRIPTION & DIMENSIONS IT	M REF. DRG. MATA: SPECN. WEIGHT/U	INT REMARKS	NO. OFF	F DESCRIPTION & DIMENSIONS	TEM	REF. DRG.	MATA: SPECN, WEIGHT/LINT	REMARKS	NO. OF	DESCRIPTION & DIVENSIONS	ITEM RE	F. DRG.	MAT.& SPECN. WEIGHT/U	IT REMARKS		OFF DESCRIPTION & DIMENS		ITEM RDF. DRG. MAT.& SPEC		
																			SUPERSEDED	

