



Request for Proposal (RFP)

Selection of **Digital Entertainment Service Provider (DESP)**

For

Delivering **Content on Demand (COD)** Services

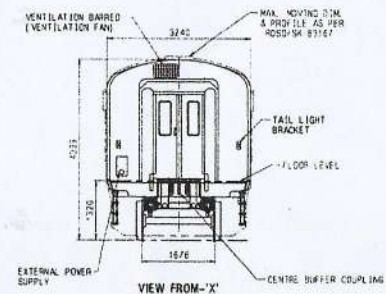
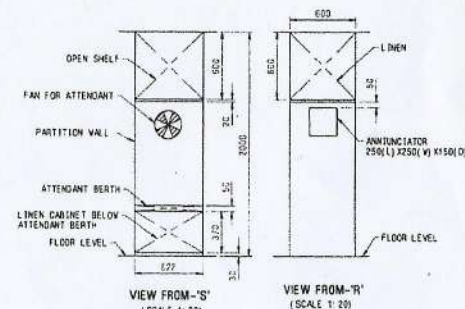
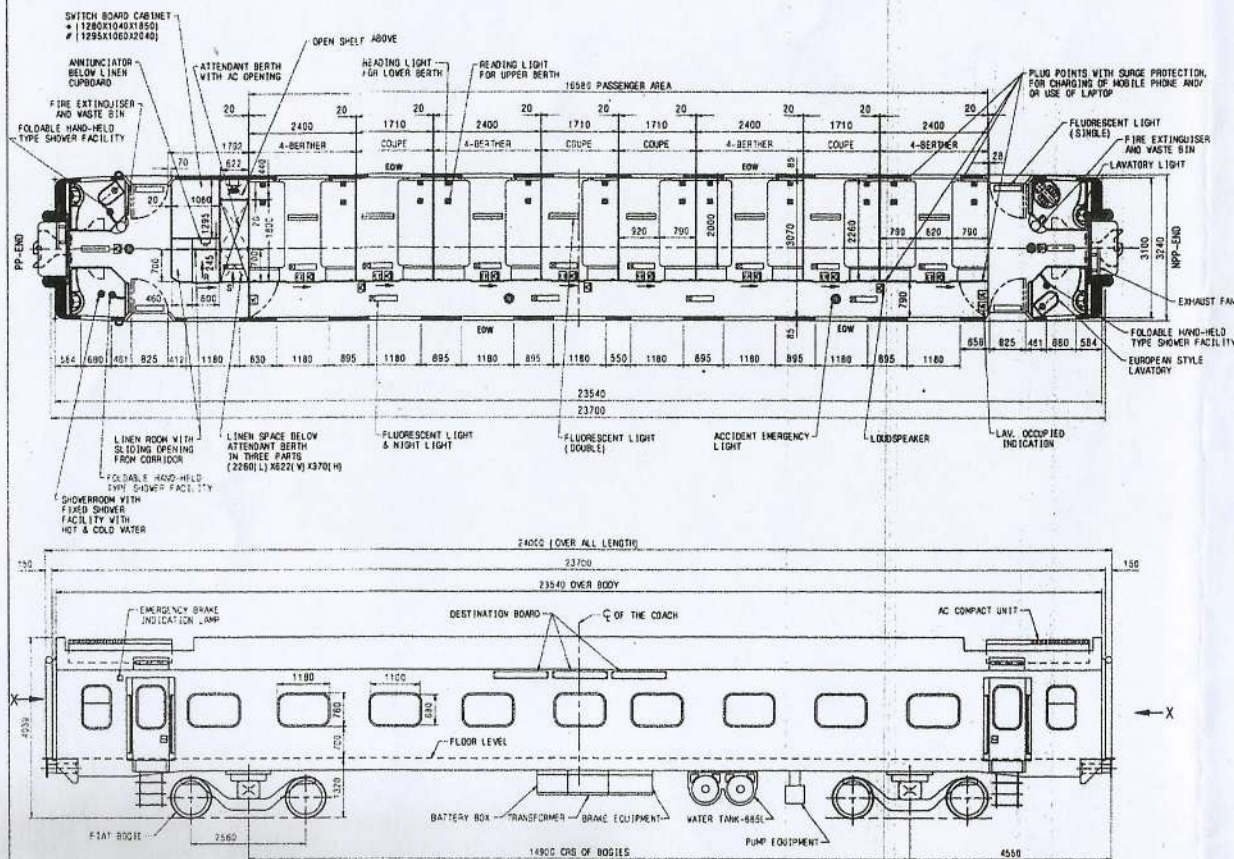
On Build Own Operate (BOO) model for Indian Railways

ANNEXURE-9 of Corrigendum-2

RAILWAY COACHING STOCK DESIGN



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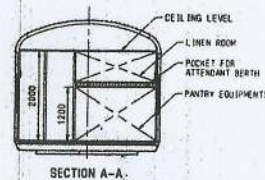
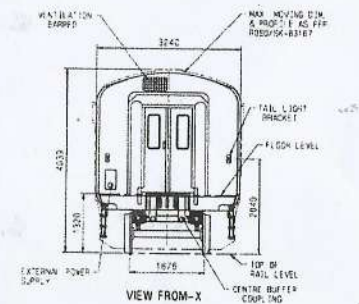
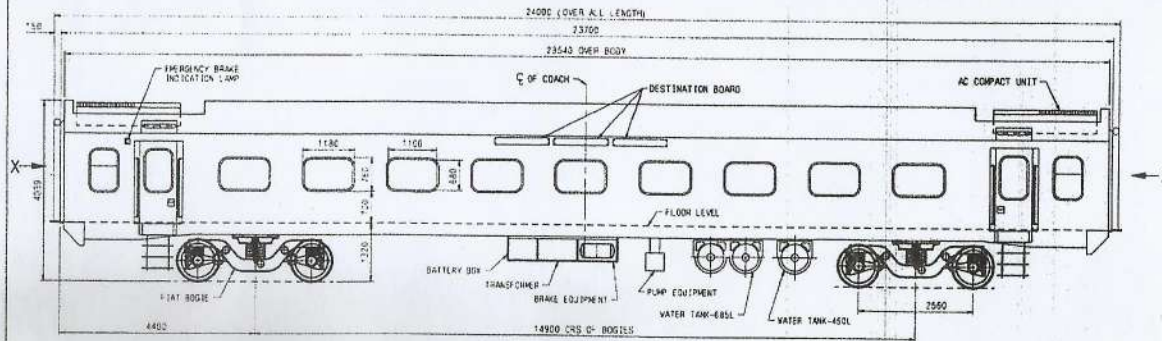
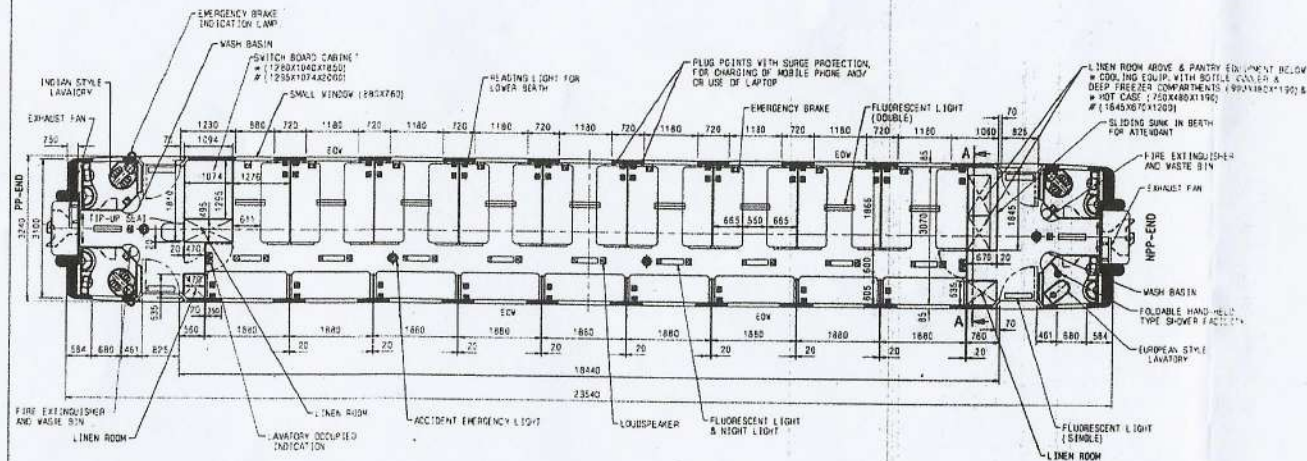
NOTE:-

- SEATING CAPACITY --- 24
- SLEEPING CAPACITY --- 24
- NO. OF LAVATORIES --- 03
- (1) EUROPEAN STYLE LAV. --- 02
- (1) INDIAN STYLE LAV. --- 01
- LINEN ROOM CAPACITY --- 1.7M³
- 4-BERTH --- 04 NOS.
- COUPE --- 04 NOS.
- ELECTRICAL EQUIPMENT DIMENSION (W) X (D) X (H).
- CLEAR SPACE FOR ELEC. EQUIPMENT (W) X (D) X (H).

- SHOWER
- LAVATORY LIGHT
- PACIL
- EMERGENCY BRAKE
- LAV. OCCUPIED INDICATION
- EMERGENCY OPENING WINDOW
- READING LIGHT
- LOUDSPEAKER
- FLUORESCENT LIGHT & NIGHT LIGHT
- FLUORESCENT LIGHT (DOUBLE)
- FLUORESCENT LIGHT (SINGLE)
- ACCIDENT EMERGENCY LIGHT
- ANNUNCIATOR
- PLUG POINT WITH SURGE PROTECTION FOR CHARGING MOBILE PHONE AND/OR USE OF LAPTOP

TRANSPORTATION CODE	SUPERSEDED BY	INDIAN RAILWAYS STANDARDS
LWAC	SUPERSEDED BY	LHB SHELL ON FIAT BOGIES
REFERENCE :-	SCALE 1:50	LAYOUT OF
DR. SHAWING NO. 14/00/16	1:50	AC FIRST CLASS COACH (EOG)
DR. S. S. 2/08/12	1:50	
R.D.S.O.	B.G.	CSC-1801
ICG 1		

ALT.	ITEM	AUTHY.	DESCRIPTION	CHKD.	DATE
1	STD/03/15		DRAWING REVISED & REDRAWN	02/15	



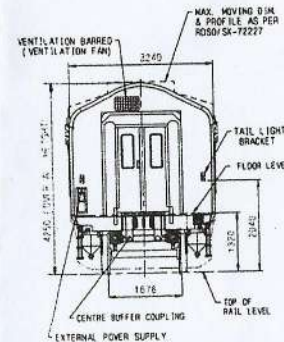
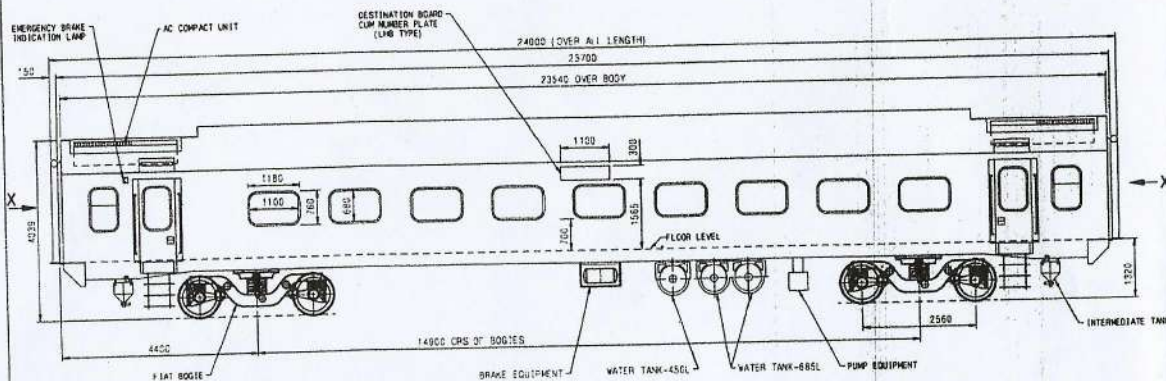
- ACCIDENT EMERGENCY LIGHT
- LAVATORY LIGHT
- LOUDSPEAKER
- PACIL
- EMERGENCY BRAKE
- LAV. OCCUPIED INDICATION
- FLUORESCENT LIGHT & NIGHT LIGHT
- FLUORESCENT LIGHT (DOUBLE)
- FLUORESCENT LIGHT (SINGLE)
- EMERGENCY OPENING WINDOW
- READING LIGHT
- PLUG POINT WITH SURGE PROTECTION FOR CHARGING MOBILE PHONE AND/OR USE OF LAPTOP

- NOTE:-
1. SEATING CAPACITY --- 52
 2. SLEEPING CAPACITY --- 52
 3. NO. OF DOORS AHEAD --- 02
 4. NO. OF LAVATORIES --- 04
 5. NO. OF PASSENGERS PER DOOR --- 28
 6. NO. OF PASSENGER PER LAVATORY --- 13
 7. LINEN ROOM CAPACITY --- 5.00M
 8. ELECTRICAL EQUIPMENT DIMENSION (WIDTH & DEPTH & HEIGHT).
 9. CLEAR SPACE FOR ELECTRICAL EQUIPMENT (WIDTH & DEPTH & HEIGHT).

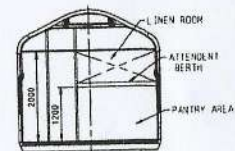
SECTION A-A

1	STD/04/16	DRAWING REVISED & REISSUED	02/16
ALT. ITEM	AUTHY.	DESCRIPTION	CHKD. DATE

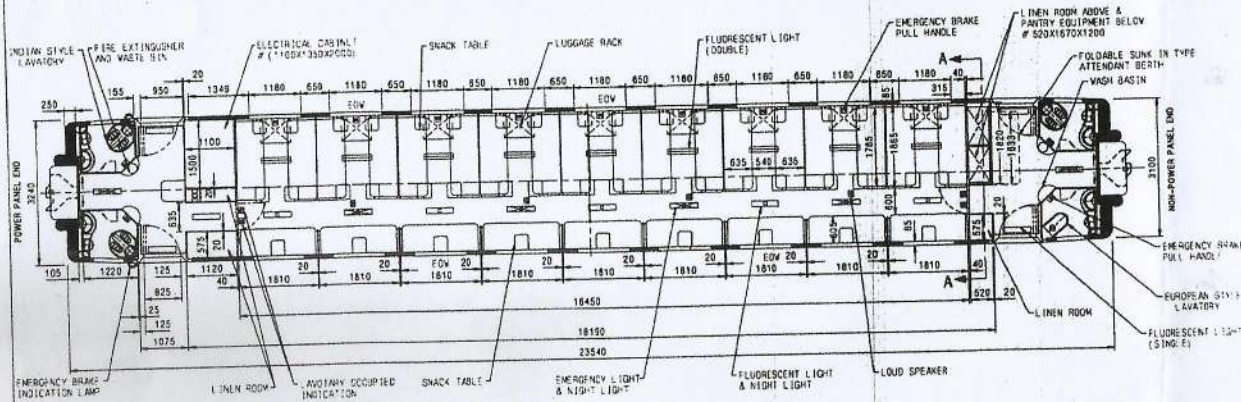
TRANSPORTATION CODE	SUPERSEDED BY:-	INDIAN RAILWAYS STANDARDS
LWACCW	SUPERSEDED BY:-	LHB SHELL ON FIAT BOGIES
REFERENCE:-	SCALE: P	LAYOUT OF
REF. DRAWING NO. LV90023	1:50	AC-2TIER SLEEPER COACH (EOG)
	U.S. STD. 29/12	
	R.O.S.D. 1CS1	CSC-1802



VIEW FROM-X



SECTION-AA



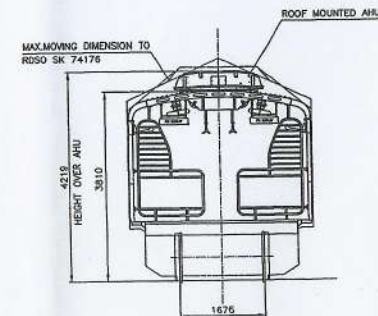
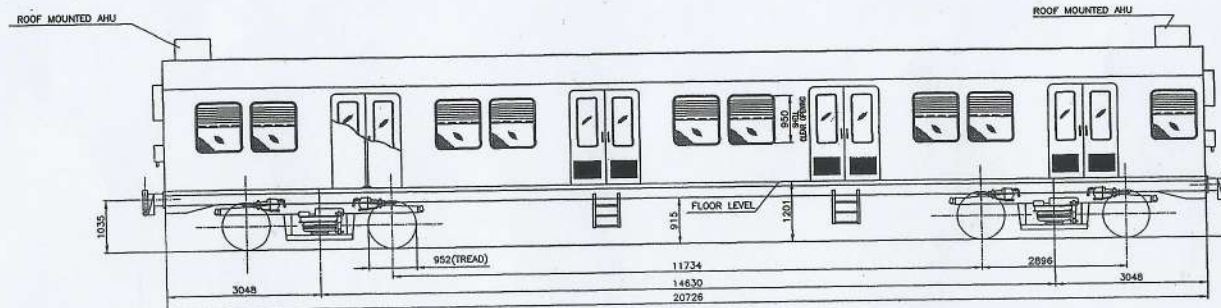
- D --- LAVATORY LIGHT
- --- LOUD SPEAKER
- --- PACIL
- --- EMERGENCY BRAKE
- --- LAV. OCCUPIED INDICATION
- --- EMERGENCY FLUORESCENT LIGHT & NIGHT LIGHT
- --- FLUORESCENT LIGHT & NIGHT LIGHT
- --- FLUORESCENT LIGHT (SINGLE)
- --- FLUORESCENT LIGHT (DOUBLE)
- --- EMERGENCY OPENING WINDOW

- NOTE:-
1. SEATING CAPACITY --- 72
 2. SLEEPING CAPACITY --- 72
 3. NO. OF DOORS ASIDE --- 02
 4. NO. OF LAVATORIES --- 04
 5. NO. OF PASSENGERS PER DOOR --- 18
 6. NO. OF PASSENGER PER LAVATORY --- 18
 7. # INDICATES CLEAR SPACE FOR ELECTRICAL EQUIPMENT (DEPTH, WIDTH, HEIGHT).

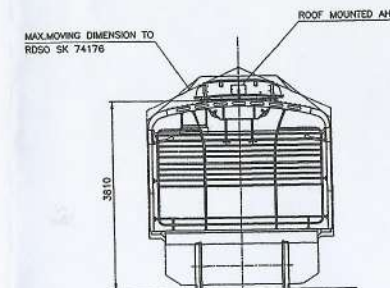
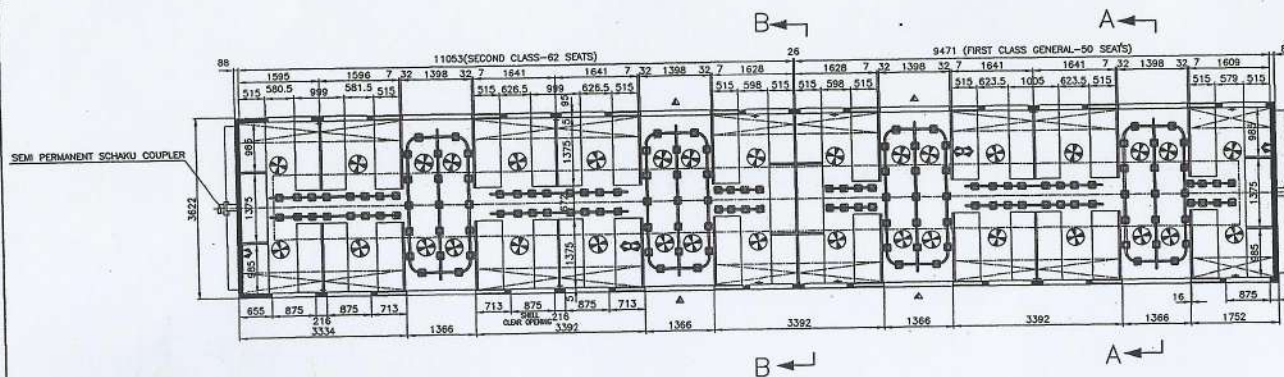
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TRANSPORTATION CODE		SUPERSEDED BY		INDIAN RAILWAYS STANDARDS	
LWACCH		SUPERSEDED BY		LHB SHELL ON FIAT BOGIES	
REFERENCE 1: RD DRAWING NO. 120000		SCALE: 1:50		LAYOUT OF AC-3TIER SLEEPER COACH (EOG)	
		DATE: 25/10/12		CSC-1803	
CDDC NO. 34803		B.G. 1CG1			

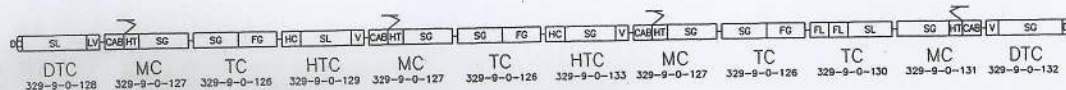
1	STD/05/16	DRAWING REVISED & REDRAWN	02/16
ALT. BY	AUTH.	DESCRIPTION	CKD. DATE



SECTION-AA



SECTION-BB

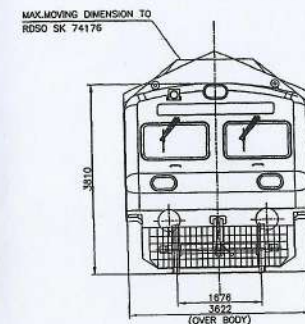


12 COACH FORMATION AS PER WESTERN RLY'S REQUIREMENT

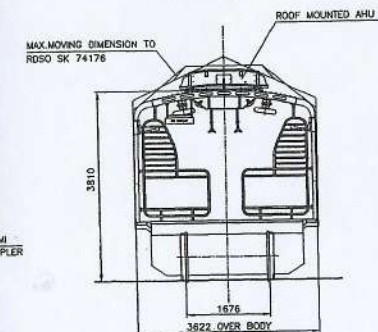
1. BOogie-----AIR SPRING BOogie
2. AXLE CAPACITY-----20.32 TONNES
3. NO. OF PASSENGERS TO SEAT
 I CLASS GENERAL -50
 II CLASS-----62
 TOTAL SEATING CAPACITY -112
4. SEATED PASSENGER LOAD (112X80kg)-----6.72 TONNES
5. ADGL. STANDING PASSENGER LOAD(SDCL-451X60kg)-----27.06 TONNES
 TOTAL PAY LOAD -----33.78 TONNES
6. TARE WEIGHT-----37 TONNES (APPROX.)

- ⊗ FAN
- PASSENGER ALARM
- ⊕ PASSENGER INFORMATION SYSTEM (SINGLE SIDED)
- ⊖ PASSENGER INFORMATION SYSTEM (DOUBLE SIDED)
- ▲ EMERGENCY FOOT STEP

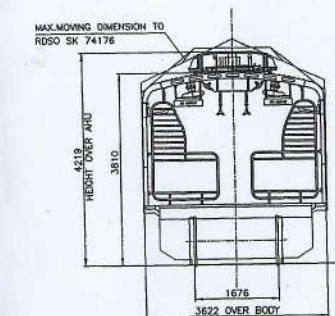
CITY	DESCRIPTION & DIMENSION	ITEM	REF.DRGS	MAT.SPEC	WEIGHT/UNIT	REMARKS
GROUP: 9-0						
LAYOUT OF 3 PHASE AC EMU TRAILER 'C' COACH (W.RLY.)						
SUPERSEDED BY: SUPERSEDED BY 903-9-0-126 at -/-						
SCALE: SSK/DSS 1:50						
ALTD: N.Sharmugavel						
DRN: N.Sharmugavel						
Alpha AC-0						
INTERNAL COACH FACTORY CHENNAI-38						
DATA CODE NO. 329	INDIAN RAILWAY STANDARDS	SHEET 1 OF 1	ICF/SK3-9-0-126			



VIEW FROM-X










SECTION-AA




SECTION-BB

12 COACH FORMATION AS PER WESTERN RLY'S REQUIREMENT

- | | |
|--|--------------------------|
| 1. BOGE----- | AIR SPRING BOGE----- |
| 2. AXLE CAPACITY----- | 20.32 TONNES----- |
| 3. NO. OF PASSENGERS TO SEAT----- | |
| LADIES VENDORS COMPT(3 A.M. TO 1 P.M.)----- | 83----- |
| | 6----- |
| TOTAL SEATING CAPACITY----- | <u>89</u> |
| | |
| 4. SEATED PASSENGER LOAD (89X600g)----- | 5.34 TONNES----- |
| 5. LUGGAGE----- | 1.33 TONNES----- |
| 6. ADDL. STANDING PASSENGER LOAD(SDDL-425x600g)----- | 26.10 TONNES----- |
| TOTAL PAY LOAD----- | <u>32.77</u> TONNES----- |
| 7. TARE WEIGHT----- | 39 TONNES (APPROX.)----- |

-  FAN
-  PASSENGER ALARM
-  PASSENGER INFORMATION SYSTEM (SINGLE SIDED)
-  PASSENGER INFORMATION SYSTEM (DOUBLE SIDED)
-  REMOVABLE EMERGENCY FOOT STEP
-  BUZZER
-  CAB LIGHT

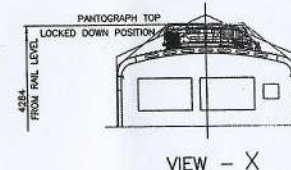
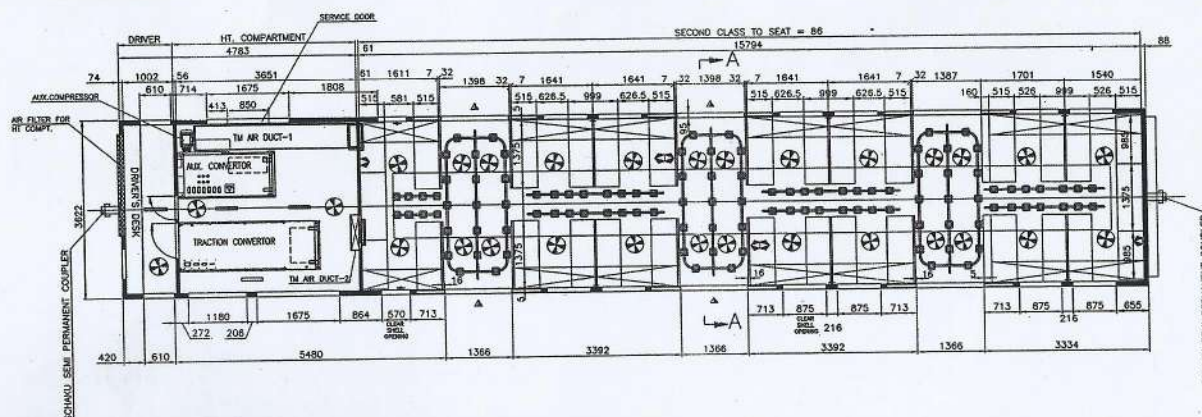
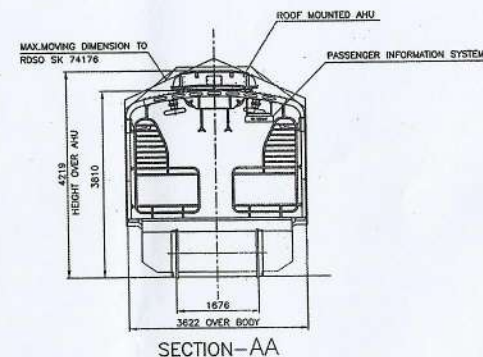
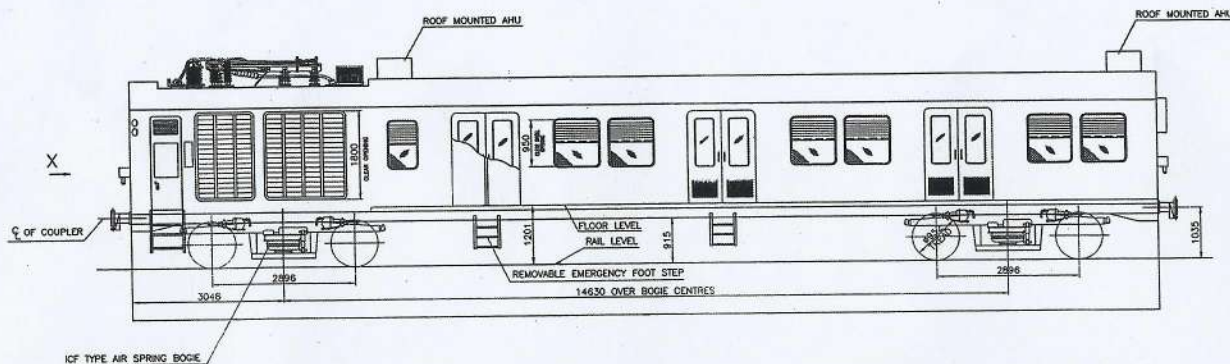
CITY	DESCRIPTION & DIMENSION	ITEM	REF.DRGS	MAT.SPEC	WEIGHT/LUNIT	REMARKS
GROUP: 9-0	LAYOUT OF 3 PHASE AC EMU DRIVING TRAILER 'D' COACH				SUPERSEDED BY: SUPERSEDES: ICF/SK3-9-0-128 dr-/-	
					SCALE: SSE/D 1:50	Handwritten: 1:50
					CHD	
					ALTO DRN	N. Shenmugavel A. Suresh
					Alpha ME-0	
						INTERVAL COACH FACTORY CHENNAI-38
DATA CODE NO.	INDIAN RAILWAY STANDARDS			SHEET 1 OF 1	ICF/SK3-9-0-128	
329					FORM-JR-A1-B40X600	

ICF/SK3-9-0-127

ALTERATIONS

02/2014

TITLE REVISED, SLIDING DOOR &
WINDOW MATERIAL DELETED.
SSE/DO SMC/SKS




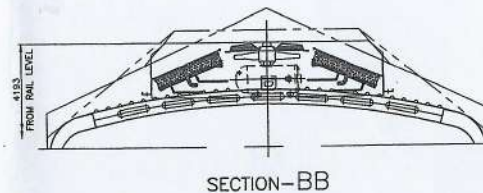
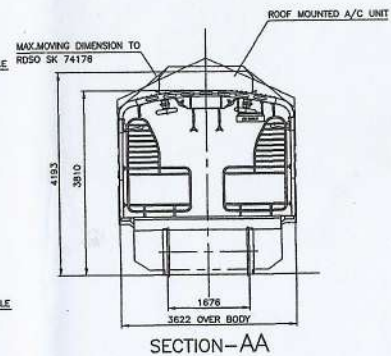
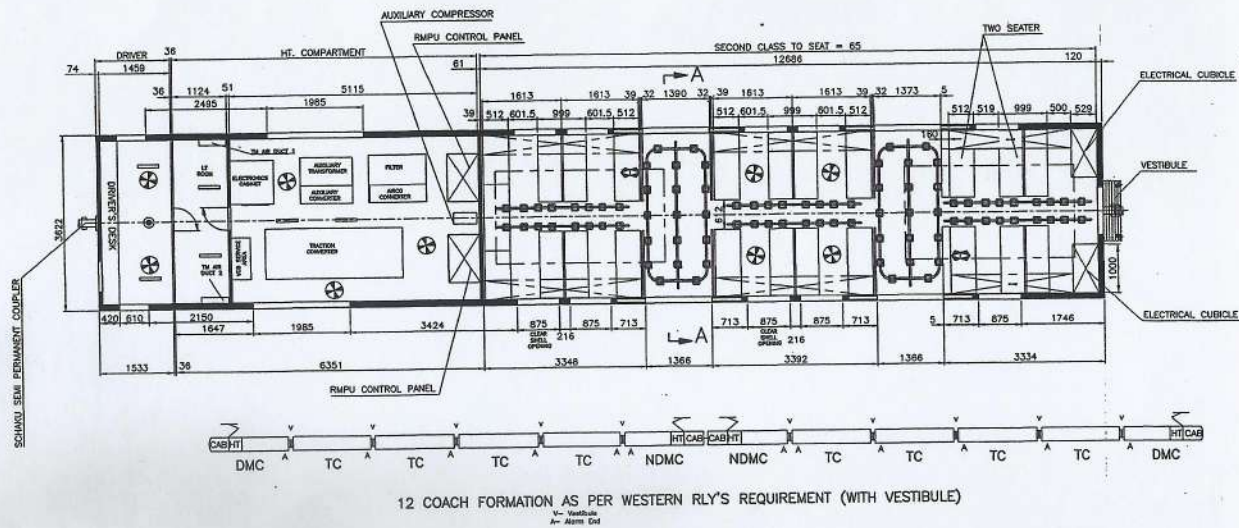
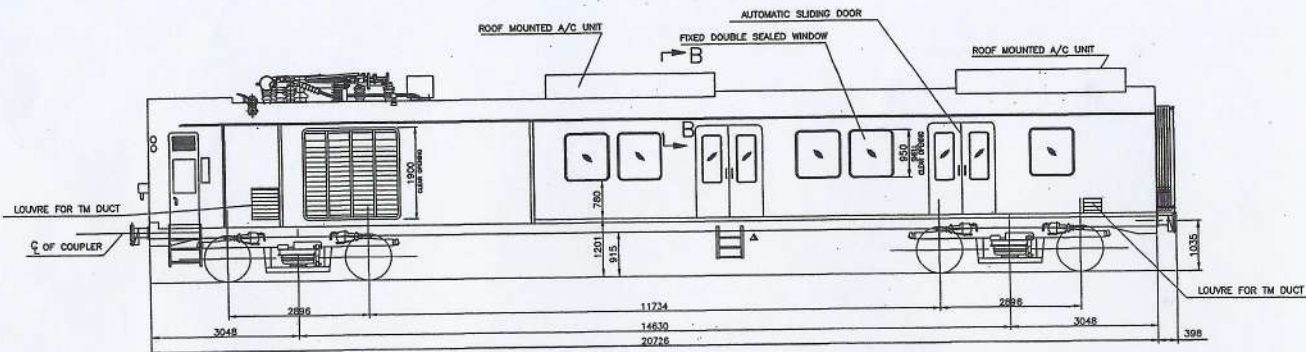
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DTC	MC	TC	HTC	MC	TC	HTC	MC	TC	HTC	MC	TC	HTC	MC	TC	HTC	MC	TC	HTC	MC	TC	HTC	MC	TC	HTC	MC	TC	HTC	MC	TC	HTC	MC	DTC
329-9-0-128	329-9-0-127	329-9-0-126	329-9-0-129	329-9-0-127	329-9-0-126	329-9-0-133	329-9-0-127	329-9-0-126	329-9-0-130	329-9-0-131	329-9-0-132																					

12 COACH FORMATION AS PER WESTERN RLY'S REQUIREMENT






- BOGIE-----AIR SPRING BOGIE
 - AXLE CAPACITY-----20.32 TONNES
 - NO. OF PASSENGERS TO SEAT-----86
 - SEATED PASSENGER LOAD (86x60kg)-----5.16 TONNES
 - ADDL. STANDING PASSENGER LOAD(SDCL-352x60kg)-----21.12 TONNES
- TOTAL PAY LOAD-----26.28 TONNES
6. TAKE WEIGHT-----54 TONNES (APPROX.)

- FAN
 PASSENGER ALARM
 PASSENGER INFORMATION SYSTEM (SINGLE SIDED)
 PASSENGER INFORMATION SYSTEM (DOUBLE SIDED)
 EMERGENCY FOOT STEP
 FLUORESCENT LIGHT

QTY	DESCRIPTION & DIMENSION	ITEM	REF.DRGS	MAT.SPEC	WEIGHT/UNIT	REMARKS
GROUP: 9-0					SUPERSEDED BY: SUPERSEDED BY: SK/3-9-0-127 alt-1	
LAYOUT OF 3 PHASE AC EMU MOTOR COACH					SCALE	SEE D/1
					1:50	1:50
					ALTD	N.Shanmugaselvi
					ALTD	S.GANESH KUMAR
					Alpha Alt:-	
DATA CODE NO. 329	INDIAN RAILWAY STANDARDS			SHEET 1 OF 1	ICF/SK/3-9-0-127	
					 INTEGRAL COACH FACTORY CHENNAI-38	

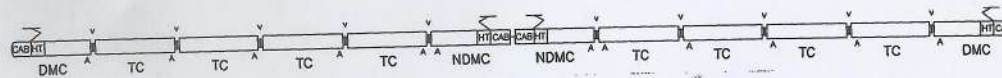
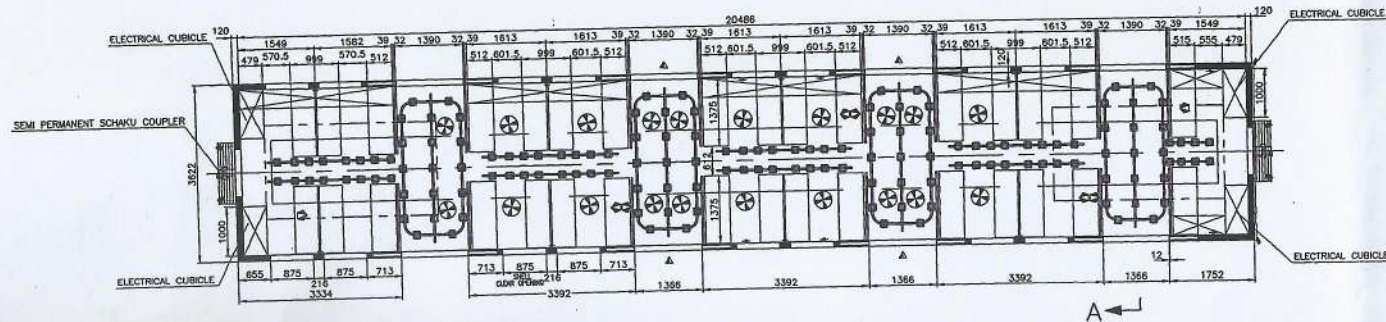
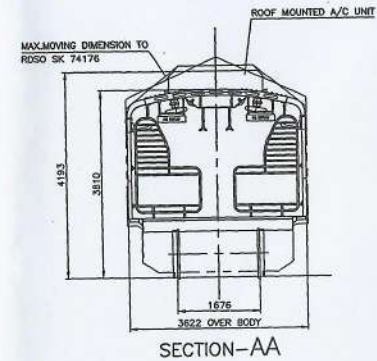
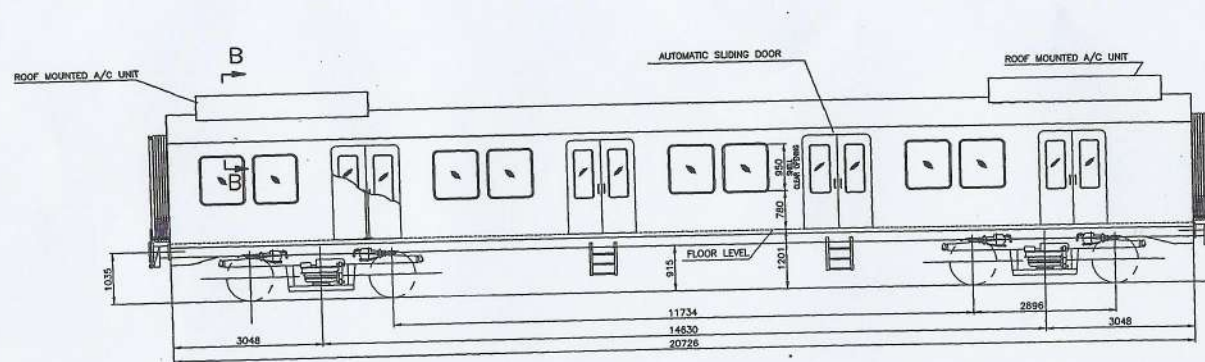


- | | | | |
|--|----------------|-----------------|--------------|
| 3. BOGE | ----- | AIR SPRING BOGE | ----- |
| 4. AXLE CAPACITY | ----- | 20.32 TONNES | ----- |
| 5. NO. OF PASSENGERS TO SEAT (H CLASS) | ----- | 45 | ----- |
| 6. SEATED PASSENGER LOAD (SEATING) = DRIVER | ----- | 3.96 TONNES | ----- |
| 7. ADDL. STANDING PASSENGER LOAD (SDCL=258x60%) | ----- | 15.48 TONNES | ----- |
| | TOTAL PAY LOAD | ----- | 19.44 TONNES |
| 8. TARE WEIGHT | ----- | 56.71 TONNES | (APPROX.) |
| 9. AIR CONDITIONING UNIT (0.75/32) | ----- | 1.5 TONNES | ----- |
| INCREASE IN ELECTRICS AND MISC. ITEMS LIKE VESTIBULE, BOGIE COMPARED TO MRCV PHASE-I | ----- | 1.01 TONNES | ----- |
| MRCV PHASE-I MOTOR COACH WEIGHT | ----- | 54.20 TONNES | ----- |
| 10. GROSS WEIGHT UNDER SDCL (16 PASSENGERS / SQ. M.) | ----- | 78.15 TONNES | (APPROX.) |

-  FAN
-  ALARM PULL HANDLE
-  PASSENGER INFORMATION SYSTEM (SINGLE SIDED)
-  PASSENGER INFORMATION SYSTEM (DOUBLE SIDED)
-  EMERGENCY FOOT STEP

QTY	DESCRIPTION & DIMENSION	ITEM	REF.DWG.	MAT SPEC.	WEIGHT/JUNIT	REMARKS
	GROUP - 9-0				SUPERSEDED BY:	
	LAYOUT OF 3 PHASE AIR CONDITIONED AC/EMU NON DRIVING MOTOR COACH				SUPERSEDES ICF SK/SK-9-0-119-A/W	
					SCALE ISSUED TO K-7	
					1:60	
					CHECKED	
					A.L.T.D N.Sharmasangevi	
					D.R.N N.Sharmasangevi	
					Made At-	
					INDIAN RAILWAY CHENNAI-38	
					ICF/SK/SK-9-0-119	

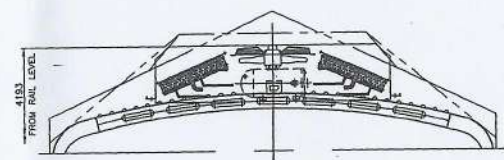
ALTERATIONS			
①	11/2012	LAYOUT REVISED.	
②	06/2013	FLOOR HEIGHT & VESTIBULE REVISED. NOTE DELETED. LAYOUT REVISED.	
③	07/2013	LAYOUT REVISED	
④			



12 COACH FORMATION AS PER WESTERN RLY'S REQUIREMENT (WITH VESTIBULE)

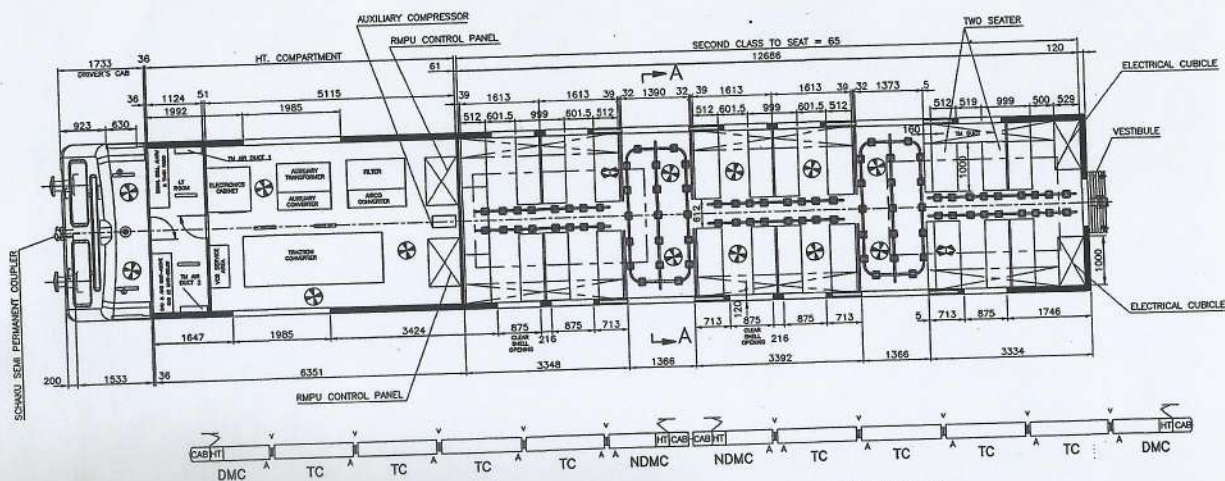
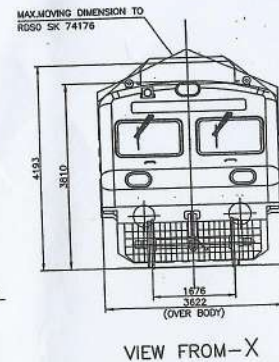
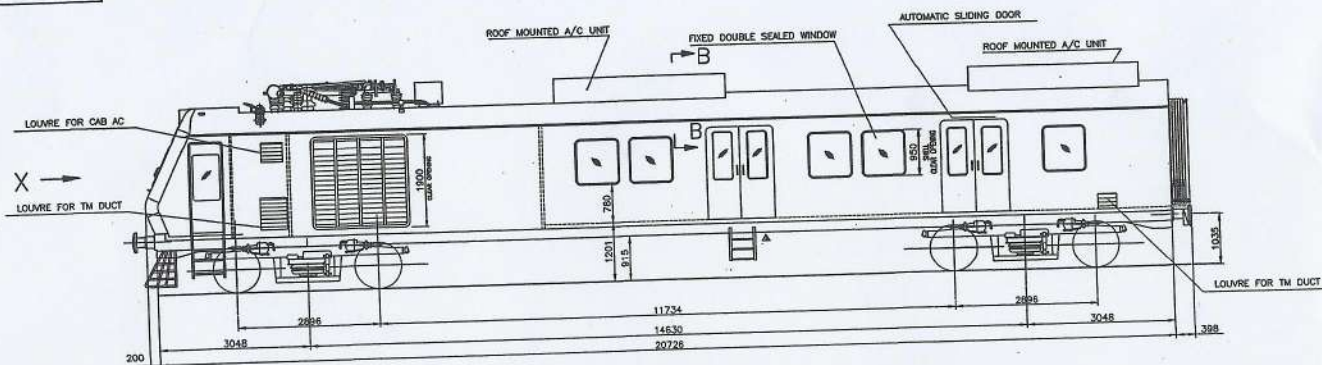
- BOGE - AIR SPRING BOGE
- AXLE CAPACITY - 20.32 TONNES
- NO. OF PASSENGERS TO SEAT (II CLASS) - 96
- SEATED PASSENGER LOAD (96x60kg) - 5.76 TONNES
- ADDL. STANDING PASSENGER LOAD (SDCL-488x60kg) - 29.28 TONNES
- TOTAL PAY LOAD - 35.04 TONNES
- TARE WEIGHT - 39.5 TONNES (APPROX.)
- AIR CONDITIONED UNIT (0.75x2) - 1.5 TONNE (APPROX.)
- WEIGHT OF BATTERY BOX + COMPRESSOR - 1.0 TONNE (APPROX.)
- MVWC PHASE-I TRAILER COACH WEIGHT - 37.0 TONNES
- GROSS WEIGHT UNDER SDCL (16 PASSENGERS / SQ. M.) - 74.54 TONNES (APPROX.)

- FAH - ALARM PULL HANDLE
- PASSENGER INFORMATION SYSTEM (SINGLE SIDED)
- PASSENGER INFORMATION SYSTEM (DOUBLE SIDED)
- EMERGENCY FOOT STEP

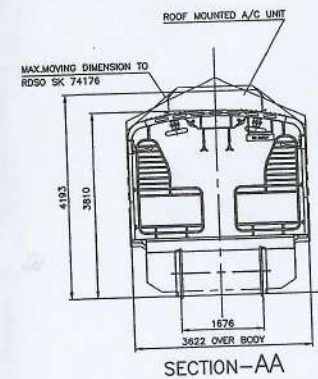


SECTION-BB

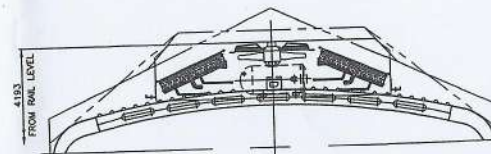
QTY	DESCRIPTION & DIMENSION	ITEM	REF. ORGS	MAT. SPEC	WEIGHT/UNIT	REMARKS
GROUP: 9-0						
LAYOUT OF 3 PHASE AIR CONDITIONED AC/EMU C COACH						
SUPERSEDED BY: ICF/SK3-9-0-116/AM 1						
SCALE: SSS/D 1:20						
C/D						
ALTO N.Shammugavel						
GRN N.Shammugavel						
Alpha AE-C						
INTEGRAL COACH FACTORY CHENNAI-38						
DATA CODE NO. 329	INDIAN RAILWAY STANDARDS		SHEET 1 OF 1		ICF/SK3-9-0-116	



12 COACH FORMATION AS PER WESTERN RLY'S REQUIREMENT (WITH VESTIBULE)
V- Vestibule



SECTION-AA



SECTION-BB

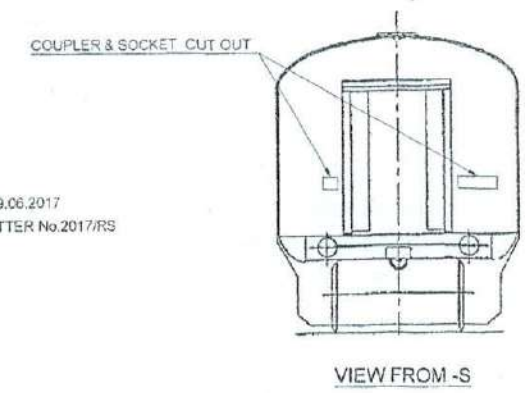
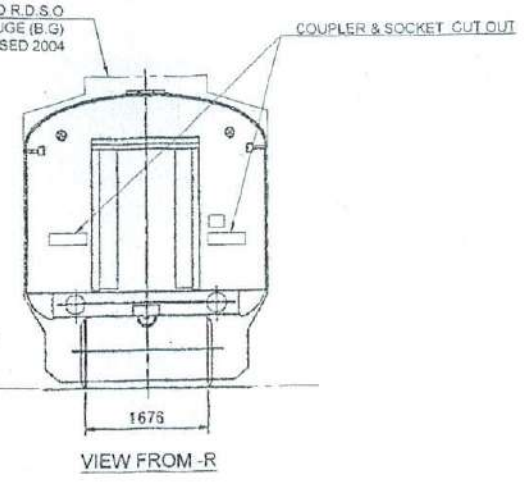
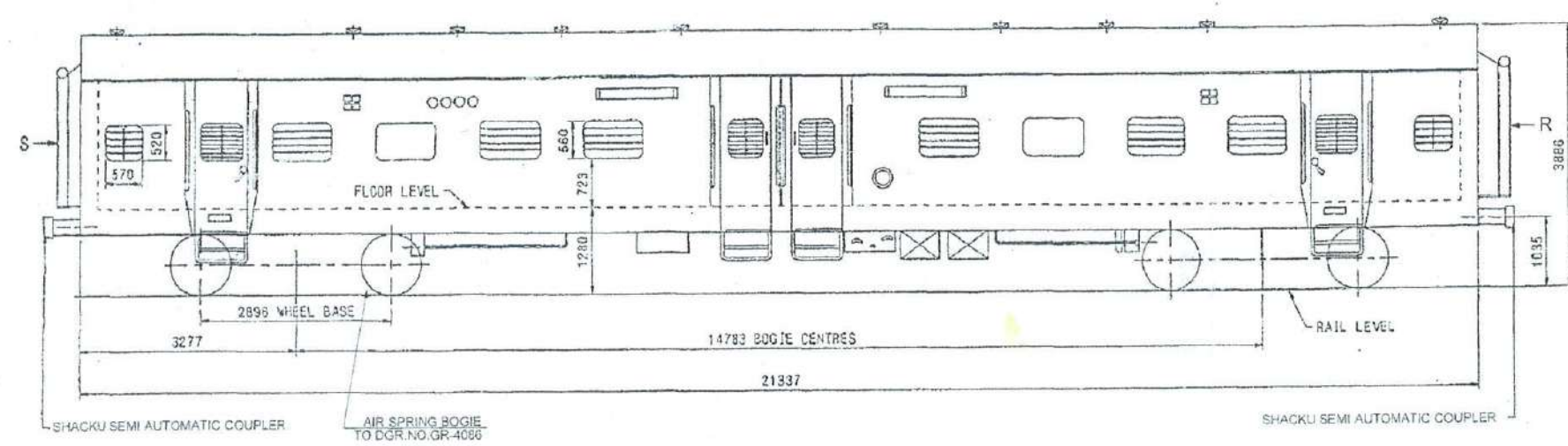
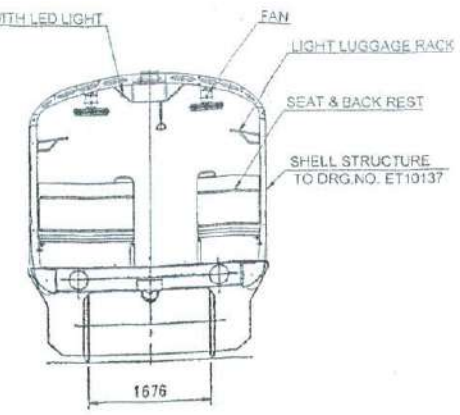
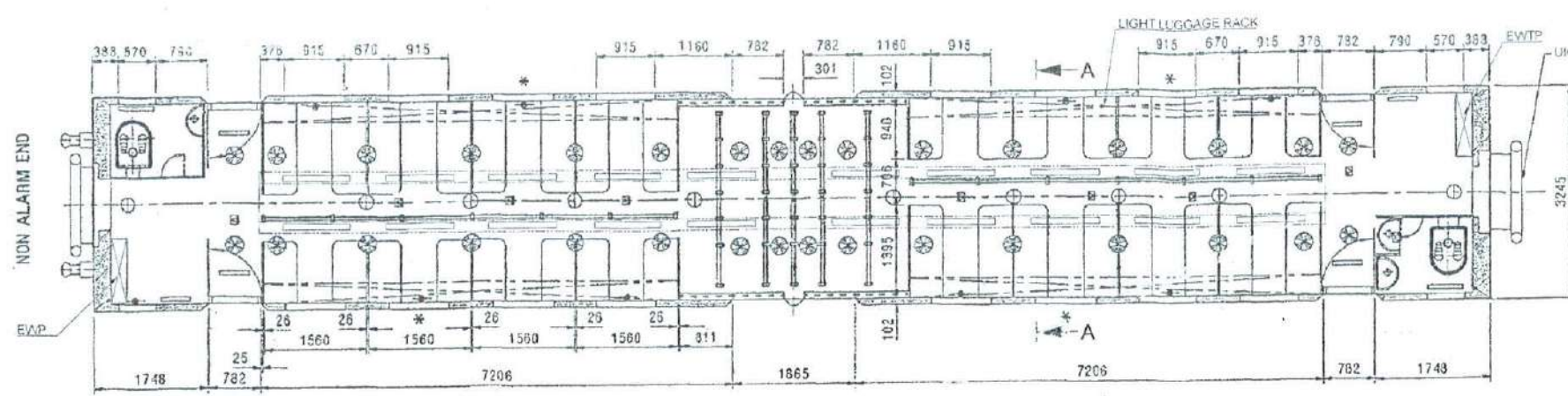
- | | | |
|---|-----------------------|---------------------|
| 1. BOGE | 40.32 TONNES | AIR SPRING BOGE |
| 2. AXLE CAPACITY | 20.32 TONNES | |
| 3. NO. OF PASSENGERS TO SEAT (11 CLASS) | 65 | |
| 4. SEATED PASSENGER LOAD (65x60kg) + DRIVER | 3.96 TONNES | |
| 5. ADDL. STANDING PASSENGER LOAD (40x60kg) | 14.48 TONNES | |
| | <u>TOTAL PAY LOAD</u> | <u>19.44 TONNES</u> |
| 6. TARE WEIGHT | 57.82 TONNES | (APPROX.) |
| AIR CONDITIONED UNIT (0.78KJ2) | 1.5 TONNES | |
| INCREASE IN WEIGHT OF ELECTRICS AND MISC. ITEMS | | |
| USE CATTLE GUARD, VESTIBULE, BUFFER, BOGE, ETC. | 1.82 TONNES | |
| COMPAIRED TO MRAC PHASE-I | | |
| [MRAC PHASE-I MOTOR COACH WEIGHT] | 54.20 TONNES | |
| 7. GROSS WEIGHT UNDER SOCL | 76.96 TONNES | (APPROX.) |
| (16 PASSENGERS / 50. M.) | | |

-  FAN
-  ALARM PULL HANDLE
-  PASSENGER INFORMATION SYSTEM (SINGLE SIDED)
-  PASSENGER INFORMATION SYSTEM (DOUBLE SIDED)
-  EMERGENCY FOOT STEP

QTY	DESCRIPTION & DIMENSION	ITEM	REF.DRGS	MAT.SPEC	WEIGHT/UNIT	REMARKS
	GROUP 3-9-0				SUPERSEDED BY: SUPERSEDES: ICF 303-9-115/AT-1	
	LAYOUT OF 3 PHASE AIR CONDITIONED AC/EMU MOTOR COACH				SCALE: 1/8" = 1'-0" 1:50 1:20 CHD ALTD N.Shenmugavel DRN N.Shenmugavel	
					Notes: AE-1 	
	DRAWING NO. 329	INDIAN RAILWAY STANDARDS		SHEET 1 OF 1	ICF/SK3-9-0-115 FORM-IRAI-640X600	

EL 204 G

1/5



- 0000 COACH NUMBER
- VENTILATOR
- RAILWAY
- LOUD SPEAKER
- 450mm SWEEP FAN
- LED LIGHTS
- ALARM PULL CHAIN
- OPENABLE EMERGENCY WINDOW
- RAILWAY CREST
- LIMIT SWITCH
- EWTP - END WALL TERMINAL PANEL
- EWP - END WALL PANEL

- NOTE:**
- PASSENGER TO SEAT
 - NO. OF STANDING PASSENGERS
 - TOTAL NO. OF PASSENGERS
 - NO. OF DOORS ASIDE
 - PASSENGERS PER DOOR ASIDE
 - NO. OF LAVATORIES

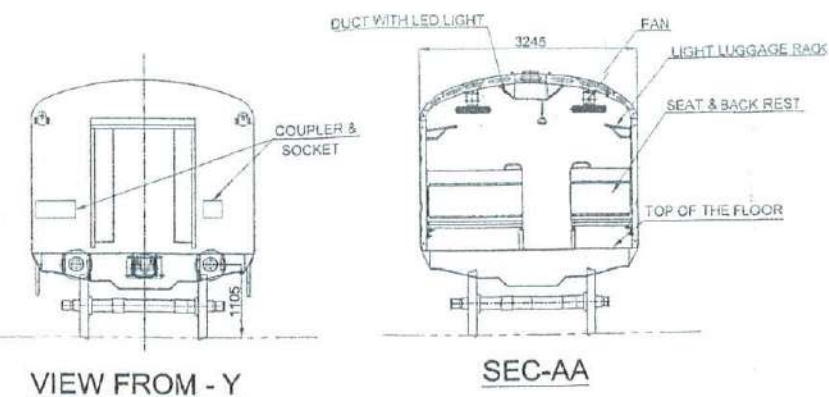
- NOTE:**
- RAILWAY BOARD CONTRACT NO. 2017/RS(PF & EC) - 142/ COACHES/BEMU 1 dtd. 19.06.2017
 - LAVATORIES ARE PROVIDED AT DIAGONALLY OPPOSITE END AS PER Rty. Bd. LETTER No. 2017/RS (PF & EC)-142/Coaches/BEM 1 dtd. 01.08.2013
 - ALL DIMENSIONS ARE IN 'mm'
 - MOBILE CHARGER SOCKETS WILL BE PROVIDED IN EACH BAY.
 - LOCATION OF PIS DISPLAY BOARD IN COMPARTMENT AREA WILL BE DECIDED DURING PROTO FURNISHING STAGE.

ITEM	REF.	QTY.	PART/STOCK NO.	DESCRIPTION
MEMU - 3 PHASE (TC)				
APPROVED				
CHECKED				
DRAWN				
TRACED				
STANDARD				
BEM LIMITED				
PRODUCT DESIGN				
GENERAL ARRANGEMENT OF TRAILER CAR (TC)				
GR-3999				

ITEM REF.	QTY.	PART/STOCK NO.	DESCRIPTION
MEMU - 3 PHASE (TC)			
APPROVED			
CHECKED			
DRAWN			
TRACED			
STANDARD			
BEM LIMITED			
PRODUCT DESIGN			
GENERAL ARRANGEMENT OF TRAILER CAR (TC)			
GR-3999			

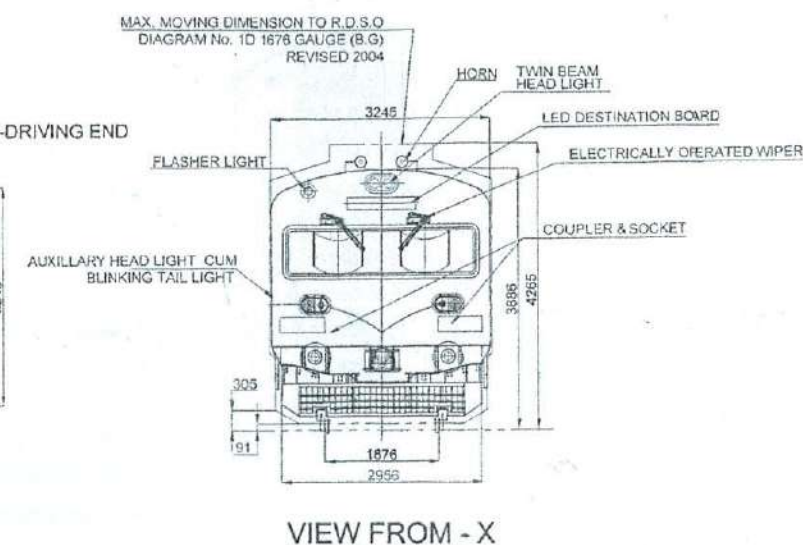
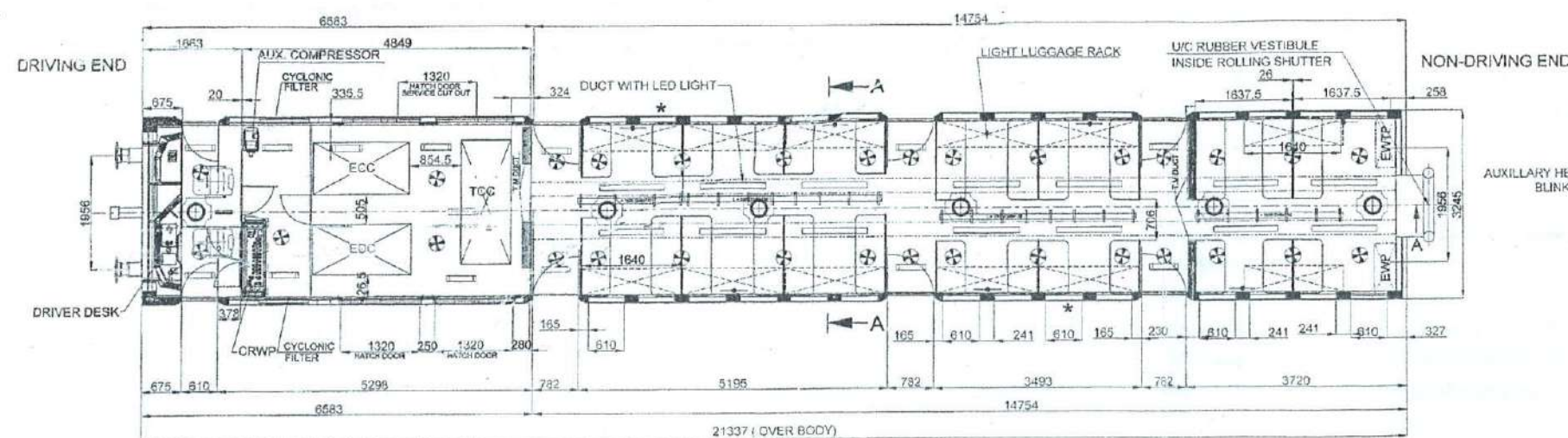
Vivek Acharya
Director/Carriage
(Govt. of India-Min. of Rlys.)
R.D.S.O., Lucknow-22601

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VIEW FROM - Y

SEC-AA



VIEW FROM - X

GR-3826

CRWP	-	CAB REAR WALL PANEL
ECC	-	ELECTRICAL CONTROL CUBICLE
EDC	-	ELECTRICAL DISTRIBUTION CUBICLE
TCC	-	TRACTION CONVERTER CUBICLE
EWTP	-	END WALL TERMINAL PANEL
EWL	-	END WALL PANEL

LEGEND :

0000	COACH NUMBER
① 	VENTILATOR
	RAILWAY
	450mm SWEEP FAN
	LED LIGHTS
	ALARM PULL CHAIN
	OPENABLE EMERGENCY WINDOW
	RAILWAY CREST





NOTE:

1. NO OF PASSENGER SEATING	65
2. NO OF PASSENGER STANDING	142
3. NO OF DOOR ASIDE	3
4. TOTAL NO OF PASSENGERS	207
5. NUMBER OF PASSENGERS PER DOOR	69

NOTE:

1. RAILWAY BOARD CONTRACT NO.2017/RS(PF & E&C)-142/ COACHES/BEMU/1 dtd.19.06.2017
2. ALL DIMENSIONS ARE IN 'mm'
3. MINIMUM CLEARANCE FROM TOP OF RAIL TO BOTTOM OF FINAL DRIVE (UN SPRUNG)
(S 205 mm (WITH NEW WHEEL Ø252) & 102mm (WITH FULLY WORN WHEEL Ø850).
4. MOBILE CHARGER SOCKET WILL BE PROVIDED IN EACH BAY.
5. LOCATION AND QUANTITY OF LIGHTS AND FANS IN H.T AND L.T AREA WILL BE DECIDED DURING THE PROTO DEVELOPMENT STAGE.
6. LOCATION OF PIS DISPLAY BOARD & LOUD SPEAKERS IN COMPT. AREA WILL BE DECIDED DURING PROTO FURNISHING STAGE.

[illegible]

ITEM REF.	QTY.	PART/STOCK No.	DESCRIPTION	
PROJECT			MEMU 3- PHASE (DMC)	
APPROVED		DESIGNS	MATERIAL	SCALE
CHECKED		DRAWERS	1	1:50
DRAWN		TRUSTE		
ERACED			QTY.	
SANGARSH			MODEL	
			MATERIAL CODE	
BEML LIMITED			TITLE	
PROJECT DESIGN			GENERAL ARRANGEMENT OF	
SANGARSH (COMPLEX)			DRIVING MOTOR CAR (DMC)	
			GR-3826	