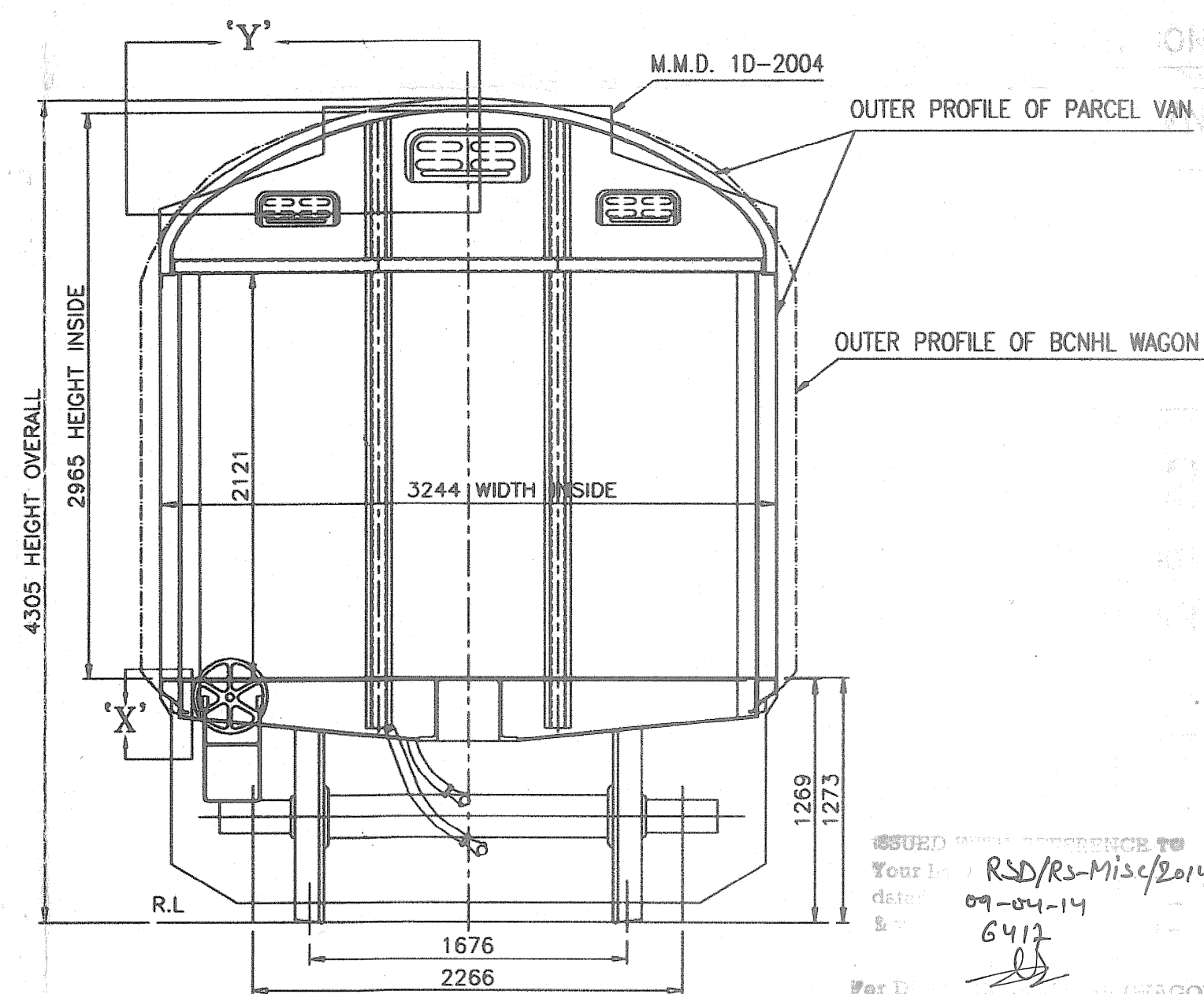
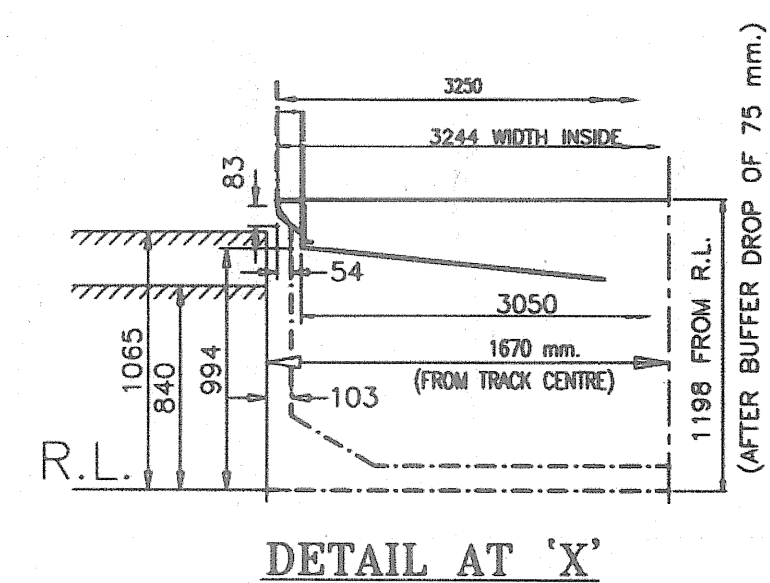
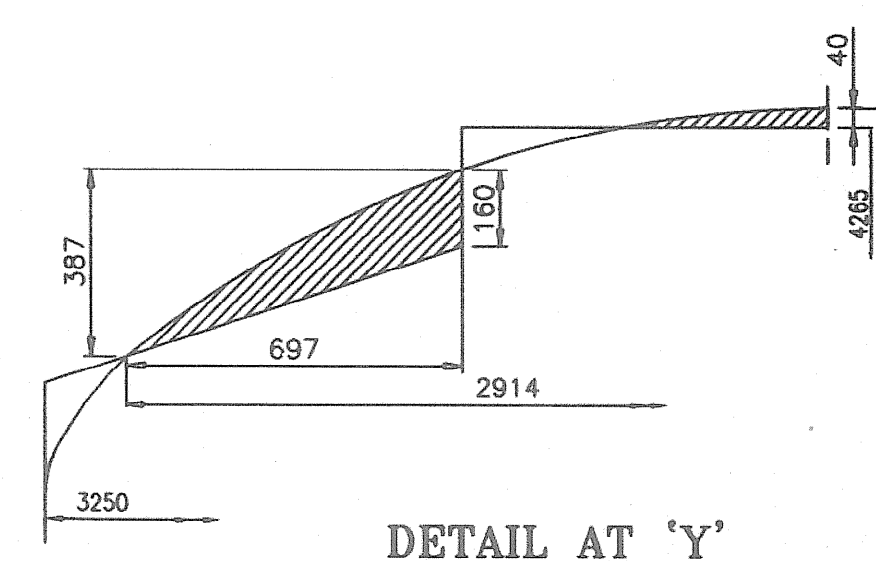


SUMMARY OF WEIGHTS (ESTIMATED)	MEASURES (APPROX.)
UNDERFRAME, BODY SIDES ROOF & ENDS COMPLETE	15.5
FLOOR PLATES.	2.5
APM, AIR BRAKE EQUIPMENT, BRACKETS INCLUDING PIPING.	0.50 t.
TWO CBC COMPLETE (NON TRANSITION) WITH YOKE AND DRAFT GEAR.	1.32 t.
BOGIES COMPLETE EXCEPT SPRINGS, WHEELS & AXLES, CARTRIDGE BEARINGS WITH ADAPTERS AND CENTRE PIVOTS	10.81 t.
FOUR PAIRS OF WHEELS AND AXLES	
EIGHT CARTRIDGE BEARING UNITS AND ADAPTERS.	
BOLSTER SPRINGS AND SNUBER SPRINGS	
CENTRE PIVOT ASSEMBLIES	
BOGIE BRAKE GEAR COMPLETE (BMBS)	
VOLUMETRIC CAPACITY (LOADABLE)	180.65 cu.m.
ESTIMATED TARE (APPROX.)	31.0
* CROSS WEIGHT AS PER AXLE LOAD (22.9 X4)	91.6 t.
AXLE LOAD (ASSUMING PAY LOAD OF 30 t)	15.25 t
NO. OF WAGONS IN 636m TRAIN	25
VOLUMETRIC CAPACITY PER TRAIN	4516.25 m <sup>3</sup>

DATA (WAGON)	WAGON UNDER TARE (m.m) APPROX.
HEIGHT OF CENTRE LINE OF CENTRE BUFFER COUPLER FROM RAIL LEVEL	1105
DISTANCE BETWEEN WHEEL FLANGE AND BOTTOM OF FLOOR	240.5
DISTANCE BETWEEN TOP & BOTTOM SIDE BEARERS	NIL
HEIGHT OF TOP OF SOLE BAR AT BOGIE CENTRE FROM R.L.	1269
DISTANCE BETWEEN LOWEST FITTING (BOGIE PULL ROD SAFETY STRAP) AND R.L.	155
VERTICAL DISTANCE BETWEEN LOWEST PART OF U/F (BOLSTER BOTTOM FLANGE AND TOP OF BOGIE SIDE FRAME AT CENTRE	260
VERTICAL DISTANCE BETWEEN LOWEST PART OF U/F (CROSSBAR BOTTOM FLANGE AND TOP OF BOGIE SIDE FRAME AT PEDestal JAW	255
CAMBER OF UNDER FRAME (MEASURED FROM HEAD STOCK TO HEAD STOCK	
MINIMUM CLEARANCE BETWEEN WHEEL FLANGE AND NEAREST UNDER FRAME MEMBER IN LOADED CONDITION AT 10° CURVE	50 mm

DATA (BOGIE)	WAGON UNDER TARE (m.m) APPROX.
MINIMUM HEIGHT OF BOGIE SIDE FRAME BOTTOM FROM R.L. AT CENTRE	165
DISTANCE FROM R.L. TO TOP OF TOP PIVOT	934
DISTANCE FROM R.L. TO TOP OF BOGIE SIDE BEARER	921
HEIGHT OF SPRING TOP ON EACH BOGIE FROM 'R.L.	538.5



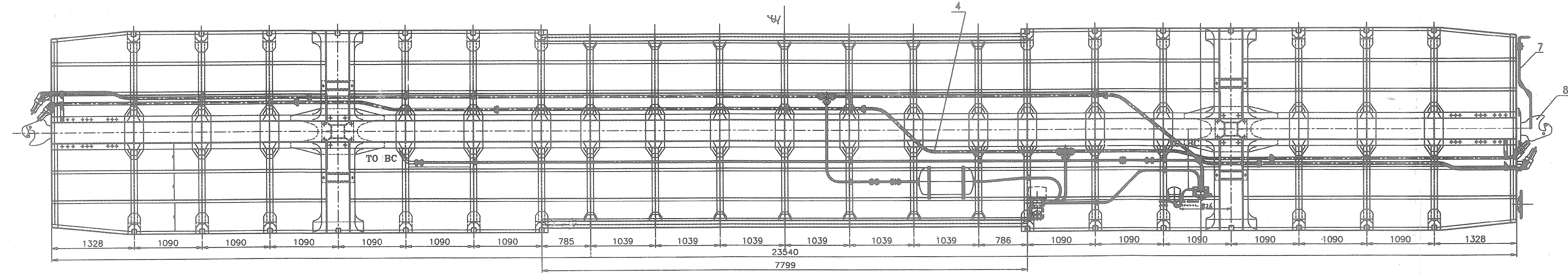
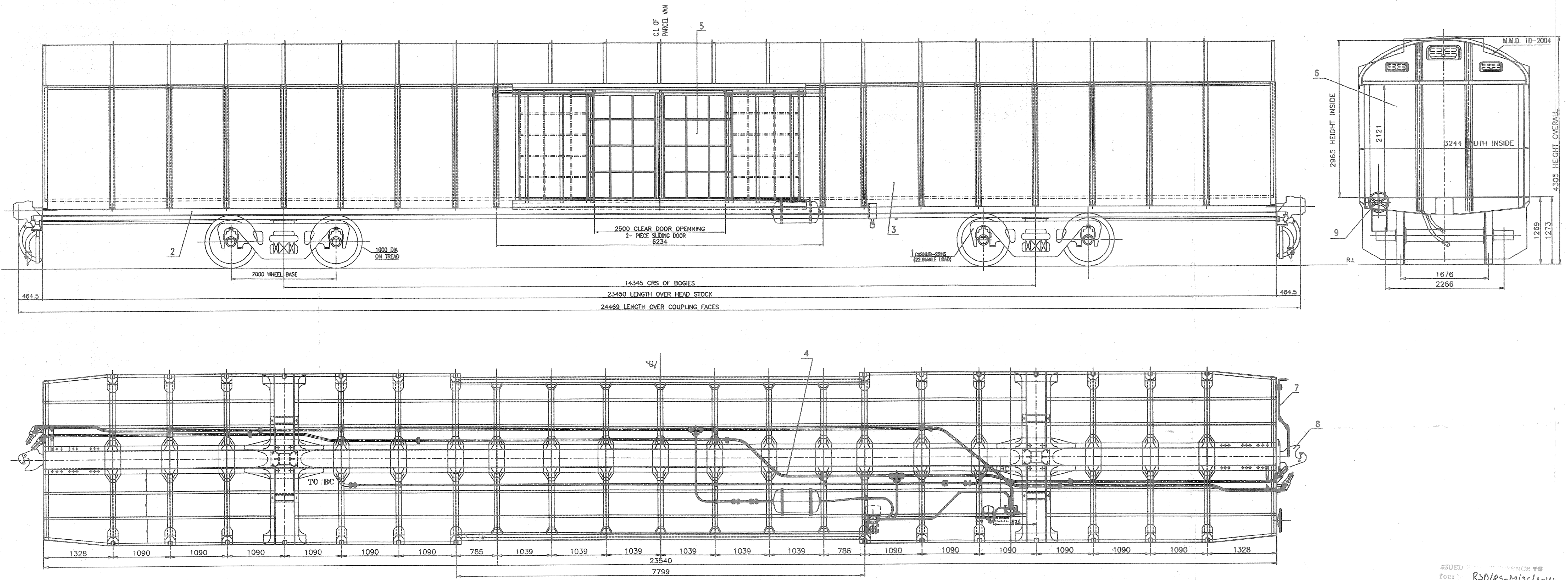
\* PARCEL VAN STRUCTURAL DESIGN IS FIT FOR 22.9 t AXLE LOAD (GROSS LOAD 91.6 t) HOWEVER CASNUB 22HS BOGIE HAS BEEN OPTIMISED ASSUMING 30t PAY LOAD AND GROSS LOAD OF 61 t..

- NOTE:-  
THE PARCEL VAN IS FITTED WITH:-
1. THE PARCEL VAN IS FITTED WITH TWIN PIPE BOGIE MOUNTED AIR BRAKE SYSTEM
  2. HIGH TENSILE (NON TRANSITION TYPE CENTRE BUFFER COUPLER.)
  3. CAST STEEL BOGIE TO STR NO. WD-17-CASNUB 22HS BOGIE 92 WITH LATEST AMMENDMENTS.
  4. THE PARCEL VAN DESIGN INFRINGES THE M.M.D. 1D-2004, AS SHOWN IN END VIEW. THE DETAILS INFRINGEMENTS ARE SHOWN AT 'X' AND 'Y'
  5. THE PARCEL VAN DESIGN IS WITHIN THE OUTER PROFILE OF BCNHL WAGON WHICH IS ALREADY CONDONED BY RLY.BD, VIDE LETTER No.2007/CED0/SR/23 DATED 23.4.2009.

PRELIMINARY SKETCH		ONLY FOR PROTOTYPE APPLICATION UNDER GUIDANCE OF R.D.S.O. (WAGON)	
SUPERSEDED BY		BOGIE COVERED PARCEL VAN TYPE 'BCPVN'	
SUPERSEDES	DATE		
SCALE PASSED	3/14		
CHECKED	3/14		
DRAWN	J.AHMAD	07/13	
TRACED			
J.SHEET	WD-13037	10/13	
B.G.	R.D.S.O. [W]	GROUP	WD-13037-S-02

ALT	ITEM	AUTHY	DESCRIPTION	DATE	ASSEMBLY DRAWING





WITHOUT FLOOR PLATE

ISSUED FOR REFERENCE TO  
 Year: RSD/RS-Misc/2014  
 Date: 09-04-14  
 No: 6412  
 Per Dr. [Signature]  
 R.D.S.O. WAGON  
 W.D. No. 13037OW-226011

ITEM	DESCRIPTION	NO. OF PER WAGON	REF. DRG.	WT. OF ONE(Kg)	MTL. & SPEC	REMARKS
9	HAND BRAKE ARRANGEMENT	1	WD-81010-S-09			
8	ARRANGEMENT OF CBC	2	WD-81010-S-03			
7	UNCOUPLING ARRANGEMENT	2	WD-13037-S-22			
6	END SUB ASSEMBLY	2	WD-13037-S-11			
5	SLIDING DOOR ARRANGEMENT	2SET	WD-13037-S-15			
4	AIR BRAKE PIPES LAYOUT	1SET	WD-13037-S-19			
3	BODY SIDE ARRANGEMENT	2	WD-13037-S-12			
2	UNDERFRAME ARRANGEMENT	1	WD-13037-S-04			
1	BOGIE ASSEMBLY (CASNUB 22HS)	2	WD-04078-S-01			

PRELIMINARY SKETCH

ONLY FOR PROTOTYPE APPLICATION UNDER GUIDANCE OF R.D.S.O. (WAGON)

BOGIE COVERED PARCEL VAN TYPE 'BCPVN'

**GENERAL ARRANGEMENT**

B.G. R.D.S.O. [W] GROUP WD-13037-S-03

SUPERSEDED BY	DATE
SCALE PASSED	31/14
1:30 CHECKED	06/14
1:10 DRAWN	JAHMAD 06/13
1:5 TRACED	
COMPARED	
J.S.NO.	WD-13037 10/13

ALT.	ITEM	AUTHY.	DESCRIPTION	DATE	ASSLY. DRGS.