

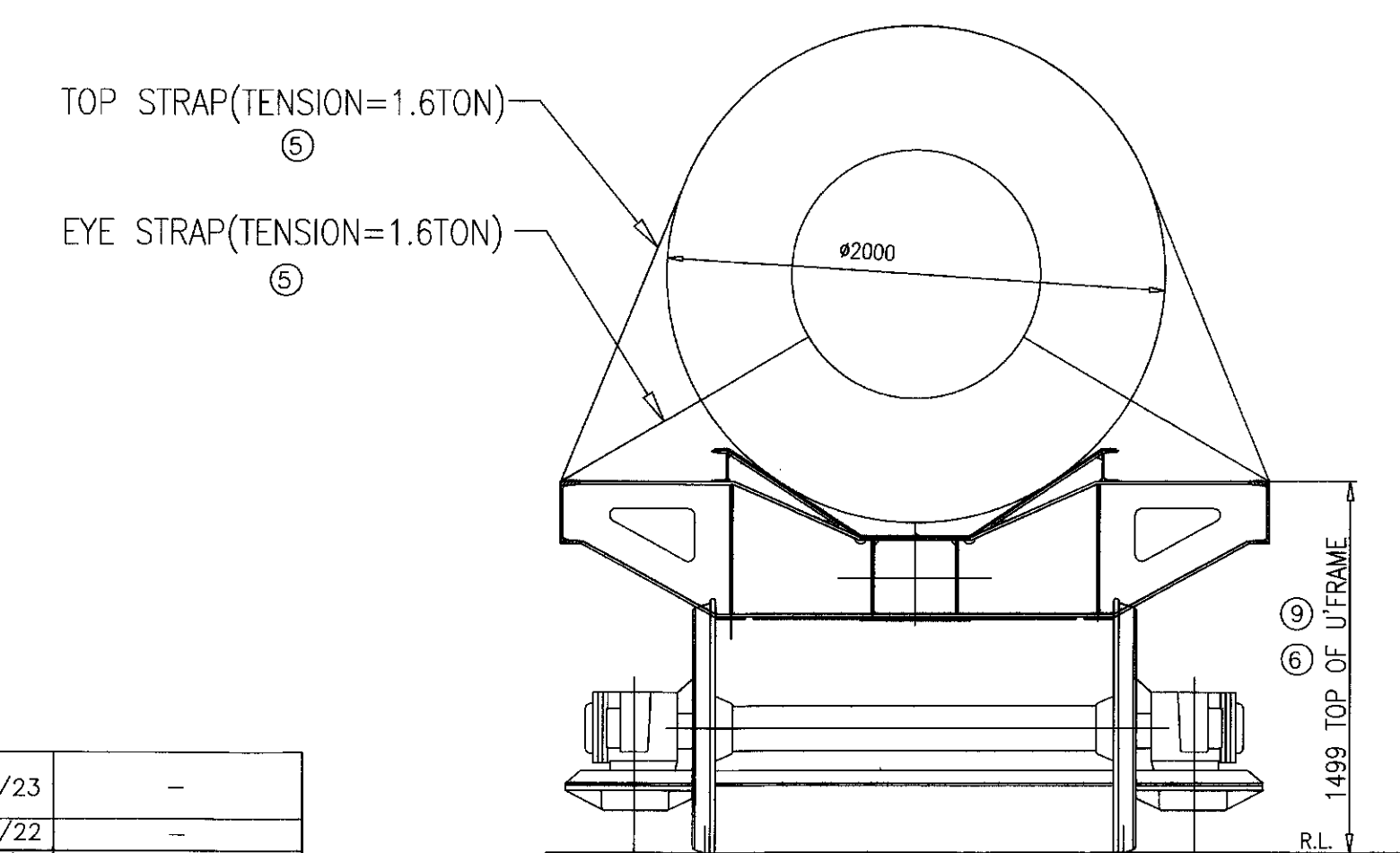
DATA (BOGIE)		UNDER TARE (mm.)
HEIGHT OF BOTTOM OF BOGIE FRAME FROM R.L. AT CENTRE	165	
DISTANCE FROM R.L. TO TOP OF PIVOT	928	⑥
DISTANCE FROM R.L. TO TOP OF BOGIE SIDE BEARER	909	⑥
HEIGHT OF SPRINGS	247	⑥

DATA (WAGON)		WAGON UNDER TARE (mm.)
HEIGHT OF CBC, FROM R.L.	1105	⑥ ⑨
DISTANCE BETWEEN WHEEL FLANGES AND FLOOR	225.5	⑥
DISTANCE BETWEEN TOP & BOTTOM SIDE BEARERS	NIL	
TOP OF THE SOLE BAR	1499	⑥ ⑨

	⑨ ⑩ ⑦ ⑭		
	BFNS	BFNS22.9	FLATCOIL3
SUMMARY OF WEIGHT (ESTIMATED)			
UNDER FRAME COMPLETE WITH BODY ENDS, SIDE STANCHIONS, SADDLE AND FLOOR PLATE	13.896	13.896	13.896
TWO CENTRE BUFFER COUPLER COMPLETE (NON-TRANSITION) WITH YOKE & TWO DRAFT GEARS	1.32	1.32	1.32
BRAKE GEAR ON U'FRAME AND AIR BRAKE EQUIPMENT INCLUDING PIPING ETC	0.758	0.758	0.758
BOGIES COMPLETE EXCEPT SPRINGS WHEELS & AXLES, BEARING, ADAPTER & CENTRE PIVOTS ASSEMBLY	3.472	3.472	3.472
BOGIES BRAKE GEAR COMPLETE	0.500	0.500	0.500
FOUR PAIR OF WHEELS & AXLES + BEARING	6.080	6.080	6.080
ADAPTER	0.092	0.092	0.092
BOSTER SPRINGS AND SNUBBER SPRING	0.368	0.368	0.368
TWO TOP CENTER PIVOTS	0.224	0.224	0.224
ESTIMATED TARE	26.71	26.71	26.71
CARRYING CAPACITY	54.57	64.89	64.89
GROSS WEIGHT PER METER RUN OVER COUPLING FACES	5.55	6.25	6.25
RATIO OF CARRYING CAPACITY TO TARE	2.043	2.429	2.429
GROSS WEIGHT AS PER AXLE LOAD	81.28	91.6	91.6

LOADING PATTERNS OF BFNS WAGON							
S.No.	LOADING CONDITION	MAX. LOAD IN POCKET (Tonnes)					MAX. PAY LOAD (Tonnes)
		1st	11nd	11rd	1Vth	2Vth	
1.	SINGLE POCKET				20		20
2.	DOUBLE POCKET	32				32	64.89
3.	THREE POCKET	24		18		24	64.89
4.	FOUR POCKET	22	20		20	22	64.89
5.	FIVE POCKET	19	19	11	19	19	64.89

NOTE:- THE LOADING SHOULD BE SUCH THAT HIGHER LOADS ARE PLACED IN THE END POCKET AS FAR AS POSSIBLE.



S.NO.	WAGON	BOGIE	OUTER	INNER	SNUBBER	FRICION WEDGE	SIDE BEARER
1.	BFNS	CASNUB 22 HS	14	12	4	METALLIC	PU
2.	BFNS22.9	CASNUB 22 HS	14	14	4	METALLIC	PU
2.	FLATCOIL3	CASNUB 22 RFT	14	14	4 (OUTER) 4 (INNER)	DRG. NO. WD-22055-S/5 AS PER SPEC NO. CONTR-02-MISC-2007	VARIANT-C OF WD-62-MISC.-17

NOTE: 1. THE LOADING SHOULD BE SUCH THAT IN NO CASE THE LOAD ON ANY BOGIES EXCEED THE 22.9T AXLE LOAD.
 2. BFNS WAGON ARE FITTED WITH TWIN PIPE GRADUATED RELEASE AIR BRAKE SYSTEM.
 3. ALL SIDE STANCHION MUST BE ENSURED IN UPRIGHT POSITION AFTER LOADING.

④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭			
WD-23023	WD-22083	WD-21073	WD-21057	WD-17030	WD-16053	WD-16019	WD-14018	WD-07037	WD-05095	WD-04090	WD-04079	WD-04046	WD-03071
FLATCOIL3 IS ADDED IN TITLE BLOCK, RESPECTIVE DATA COLUMN ADDED IN SUMMARY OF WEIGHT TABLE AND SPRING GROUP COMPOSITION TABLE ADDED	MAXIMUM HEIGHT IN LOADED CONDITION SHOWN & NOTE ADDED	BFNS22.9 IS ADDED IN TITLE BLOCK	MAXIMUM MOVING DIMENSIONS FOR DFC ADDED	BFNSMT NAME MODIFIED AS BFNS22.9.	CBC HEIGHT INCREASED FROM 1101 TO 1105. TOP OF U/F & FIXED PART INCREASED BY 4 MM. BFNSMT NAME INTRODUCED IN SUMMARY TABLE.	NOTE NO. 2 ADDED & TWIN PIPE MENTIONED.	NEW COLUMN IN 'SUMMARY OF WEIGHT' HAS BEEN ADDED FOR 22.9T AXLE LOAD. TABLE 'LOADING PATTERNS OF BFNS WAGON' IS REVISED AND NEW NOTE '3' ADDED.	CBC HEIGHT 1101 WAS 1105. ACCORDINGLY WAGON HEIGHTS, WAGON & BOGIE DATA HAVE BEEN REVISED.	LOCATION OF SIDE BKT. CHANGED.	LASHING CHAIN DELETED & SIDE STANCHION ADDED.	SUMMARY OF WEIGHT REVISED & LOADING PATTERN ADDED.	DRAWING REVISED.	
3/23	9/22	8/21	7/21	5/17	9/16	4/16	07/14	06/07	12/05	12/04	10/04	7/04	10/03
ALT.	ITEM	AUTHY.	DESCRIPTION	DATE	ASSLY. DRGS.								

SUPERSEDED BY	DATE	BOGIE FLAT STEEL WAGON TYPE 'BFNS', 'BFNS22.9' & FLATCOIL3
SCALE PASSED	D.D.SRIVASTAV/99	
1:20	CHECKED A.K.SAXENA/99	
DRAWN	D.R.RIZVI	5/99
TRACED		
COMPARED		
J.S.NO.	WD-98057	11/98
B.G.	R.D.S.O.	GROUP
[W]		WD-98057-S-02

SECTION AA

DIAGRAM