



SUMMARY OF WEIGHTS [ESTIMATED]		
S.N.	DESCRIPTION	TONNES
1	UNDERFRAME	3.90 t
2	CRADLES	1.0 t
3	BARREL COMPLETE WITH ALL FITTINGS, HEATING PIPES & ATTACHMENTS	10.0 t
4	BRAKE GEAR ON UNDERFRAME & AIR PIPING ETC.	0.75 t
5	C.B.C. COMPLETE WITH UNCOUPLING GEAR (NON-TRANSITION)	1.35 t
6	BOGIE COMPLETE EXCEPT SPRINGS WHEELS & AXLES AND AXLE BOXES	3.13 t
7	FOUR PAIRS OF WHEELS & AXLES	5.75 t
8	EIGHT AXLE BOXES	0.82 t
9	BOLSTER AND SNUBBER SPRINGS	0.30 t
10	TWO TOP CENTRE PIVOTS	0.10 t
11	BOGIE BRAKE GEAR COMPLETE	0.50 t
12	PLATFORM AND LADDER	0.40 t
13	ESTIMATED TARE	28.00 t
14	CARRYING CAPACITY	53.28 t
15	GROSS LOAD	81.28 t
16	AXLE LOAD	20.32 t
17	CARRYING CAPACITY TO TARE RATIO	1.9:1
18	TRACK LOADING DENSITY UNDER GROSS LOAD	6.54t/m
19	NO OF WAGONS PER RAKE IN 626 METRES LOOP LENGTH	50
20	CARRYING CAPACITY PER RAKE	2664.0 t
21	GROSS LOAD PER RAKE	4064.0 t
22	C. G. FROM R.L. (TARE)	1.43 m
23	C. G. FROM R.L. (LOADED)	2.23 m
24	LOADABLE VOLUME BY LEAVING 2.5% AIR SPACE	68.15m ³
25	VOLUMETRIC CAPACITY OF BARREL	69.90m ³

LEADING PARTICULARS

BOGIES:— TWO AXLE CAST STEEL BOGIE TYPE CASNUB 22NLB FOR BTOH ARE FITTED WITH THE FOLLOWING:—
 (i)SPRING PLANK (ii)LONG TRAVEL HELICAL SPRING(iii)LOAD PROPORTIONATE FRICTION DAMPING DEVICE (iv)TAPER ROLLER CARTRIDGE BEARINGS WITH NARROW JAW ADAPTERS.(v)ELASTOMERIC PADS(vi)UIC TYPE SPHERICAL PIVOT WITH RETAINING RING (vi)CONSTANT CONTACT TYPE SIDE BEARER (vii)WHEELS OF ONE METRE DIA. ON TREAD AND 20.3t AXLE LOAD WITH 2METRE WHEEL BASE.

BRAKES:—SINGLE PIPE GRADUATED RELEASE AIR BRAKE SYSTEM FITTED WITH SLACK ADJUSTER AND MANUALLY OPERATED MECH.EMPTY LOAD DEVICE

COUPLER:—HIGH TENSILE CENTRE BUFFER COUPLER AAR E/F TYPE WITH TOP & BOTTOM SELF.

BARREL MOUNTINGS— (i)TWO DOMES.
 (ii)TWO BOTTOM DISCHARGE VALVES (125mmDIA).
 (iii)THROUGH AND THROUGH CATWALK.
 (iv)PLAT-FORM AND LADDER ON BOTH SIDES.

S.N.	BOGIE DATA	UNDER TARE
1	HT.BETWEEN BOTTOM OF BOGIE FRAME & RL AT CR.	165 mm.
2	DISTANCE FROM R.L. TO TOP OF TOP PIVOT	928.5 mm.
3	DISTANCE FROM R.L. TO TOP OF BOTTOM SIDEBEARER	917.5 mm.
4	HEIGHT OF SPRINGS	250.5 mm.
5	JOURNAL CENTRES.	2260 mm.
6	JOURNAL DIA.	144.5 mm.
7	WHEEL DIA.ON TREAD	1000 mm.
8	DIA. OF WHEEL SEAT	210 mm.

PRELIMINARY SKETCH		ONLY FOR PROTOTYPE APPLICATION UNDER GUIDANCE OF R.D.S.O. (WAGON)	
SUPERSEDED BY	DATE	BOGIE TANK WAGON FOR HEAVY OIL TYPE 'BTOH'	
CHECKED		DIAGRAM	
DRAWN R.K.GUPTA 12/09			
TRACED			
COMPARED			
J.S.NO. WD-09100 TO/09	R.D.S.O. [W]	GROUP	WD-09100-S-02

ALT	ITEM	AUTHY	DESCRIPTION	DATE	ASSEMBLY DRAWING