

RSP 2012-13 Retrofitment of bogie mounted brake system in air brake wagons. (For BOXN, BOXNHS AND BOXNR).

Material required (per wagon) for retrofitment.

As per Retrofitment of BMBS vide RDSO instruction Bulletin No. RDSO/2010/WD/WMI-03 DTD. 22.10.10.

SR. No.	ITEMS	QTY.	UNIT	RATE PER UNIT (₹)	VALUE (₹)	
	Set of Bogie mounted brake system for BOXN / BOXNHS / BOXNR wagon consisting of items given in Anx-L. Set of Bogie mounted brake system (confirming to WD-23-BMBS-2008 Rev. latest and) consisting and including of all items required for(full functional BMB System) in one wagon i.e. Brake cylinder with built in slack adjuster for BMBS, Automatic pressure modification device, Bogie brake gear components, other allied hand brake components etc confirming to: (a) RDSO instruction bulletin No. RDSO/2010/WD/ WMI-03 or latest (b) RDSO Drg No. WD-08093-S/2 Alt.-2 or latest, WD-10061-S-01 Alt - Nil or latest, WD-10061-S-02 Alt - Nil or latest,WD-10061-S-03 Alt - Nil or latest WD-10061-S-04 Alt - Nil or latest (c) Stainless steel pipes (SS TO ASTM-A312 SCHEDULE 40 S Gr TP 304(ERW) & its fittings shall be as per RDSO specification 04-ABR-02 Rev. latest. (d) Compregnated clamps & packings shall be as per RDSO specification WD-20-ABR-07 Rev. latest. (e) The brake head and other accessories for fitment of K-Type brake composition brake block shall be in accordance with RDSO specification No. WD-22-Brake head-97 (Rev.-1 or latest ammend.)	1	set	185165	37033000	
Anx-L						
Set of Bogie mounted brake system for BOXN / BOXNHS / BOXNR wagon consisting of following items shown at S.No.1 to 89 for one wagon.						
SR. No.	ITEMS	DRG.NO.	QTY. IN SET (NOS.)	UNIT	RATE PER SET	MATL. & SPEC.
1	AUTOMATIC PRESSURE MODIFICATION (APM) DEVICE OR VALVE ASSY, EL60 60% LH	WD-10061-S-03 ITEM-1 Alt.-Nil or latest	1	Nos.	185165	-
2	APD FOR AUTOMATIC PRESSURE MODIFICATION DEVICE (FOR EL 60 60% LH)	-	1	Nos.		-
3	TEE FLANGE (20X20X20)mm	SK-96074	1	Nos.		-
4	ISOLATING COCK WITH VENT	SK-98013	2	Nos.		-
5	AUXILIARY RESERVOIR (6.6 Lts) FOR EL -60 APM	WD-09048-S-01, WD-10061-S-03 IT-4	1	Nos.		WD-23-BMBS
6	20 NB PIPE (FROM APM TO DISTRIBUTER VALVE)	WD-10061-S-03 ITEM-5	1	Nos.		04-ABR
7	20 NB PIPE (FROM APM TO TEE FLANGE)	WD-10061-S-03 ITEM-6	1	Nos.		04-ABR
8	20 NB PIPE (FROM TEE FLANGE TO 1st ISOLATING COCK OF 1st BOGIE)	WD-10061-S-03 ITEM-7	1	Nos.		04-ABR
9	20 NB PIPE (FROM 1st/2nd ISOLATING COCK TO 1st/2nd BOGIE)	WD-10061-S-03 ITEM-8	2	Nos.		04-ABR
10	20 NB PIPE (FROM TEE FLANGE TO 2nd ISOLATING COCK OF 2nd BOGIE)	WD-10061-S-03 ITEM-9	1	Nos.		04-ABR
11	HEX HEAD BOLT M12X110	-	2	Nos.		-
12	HEX HEAD BOLT M12X30	-	2	Nos.		-
13	HEX HEAD BOLT M12X35	-	2	Nos.		-
14	HEX HEAD BOLT M12X50	-	8	Nos.		-
15	HEX NUT M12	-	12	Nos.		-
16	SPRING WASHER B12	-	16	Nos.		-
17	FLEXIBLE HOSE PIPE TO BRAKE CYLINDER	WD-10061-S-03 ITEM-10	2	Nos.		-
18	O Ring	-	2	Nos.		-
19	SCREW HEX HEAD ZINC PLATED	-	8	Nos.		-
20	WASHER, LOCK CAD PLATED	-	8	Nos.		-
11	BOLT M 12*25 / 35 LONG WITH NUT & SPRING WASHER	-	2	Nos.		IS:1364&3063
21	ISA (50X50X6)mm 370mm LONG	WD-10061-S-03 ITEM-12-1PC	2	Nos.		-
22	ISA (50X50X6)mm 160/170mm LONG	WD-10061-S-03 ITEM-16-1PC	2	Nos.		-
23	IMPREGNATED COMPRESSED LAMINATED PACKING (100X40X6)mm	WD-10061-S-03 ITEM-13-1PC	2	Nos.		20-ABR
24	IMPREGNATED COMPRESSED LAMINATED PACKING (100X40X40)mm	WD-10061-S-03 ITEM-15-3PC	2	Nos.		20-ABR
25	CLAMP FOR PIPE 20 NB	WD-10061-S-03 ITEM-14	4	Nos.		-
26	BOLT M 10X100 WITH M10NUT & SPRING WASHER M10	-	8	SET		-
27	HOSE ASSY 1/2' WITH FLANGE	WD-10061-S-03 ITEM-20	1	Nos.		04-ABR
28	O RING	-	2	Nos.		-
29	SCREW HEX HEAD ZINC PLATED	-	2	Nos.	-	

30	WASHER,/ LOCK CAD PLATED	-	2	Nos.	-
31	CROSS STRINGER / BRACKET FOR APM	WD-10061-S-01 ITEM-1	1	Nos.	IS:2062 Fe 410 CuWA
32	CROSS STRINGER / BRACKET FOR APM RESERVOIR	WD-10061-S-01 ITEM-2	1	Nos.	IS:2062 Fe 410 CuWA
33	LOCK NUT INC PLATED	-	1	Nos.	-
34	CROSS STRINGER FOR TIE ROD HANGER BKT. FOR ROLLER SUPPORT	WD-10061-S-01 ITEM-3	1	Nos.	IS:2062 Fe 410 CuWA
35	HORIZONTAL LEVER	WD-10061-S-02 ITEM-1	1	Nos.	IS:2062-2006
36	HORIZONTAL LEVER SUPPORT(SMALL)	W/BG-6340 (WD-10061-S-02 ITEM-2)	1	Nos.	-
37	BRACKET FOR HORIZONTAL LEVER	WD-10061-S-02 ITEM-3	1	Nos.	IS:2062 Fe 410 CuWA
38	PIN FOR HORIZONTAL LEVER SUPPORT	-	1	Nos.	-
39	SPLIT PIN	-	1	Nos.	-
40	CABLE EQUALIZER	WD-10061-S-02 ITEM-4	1	Nos.	IS:2062 Fe 410 CuWA
41	CABLE BRACKET	WD-10061-S-02 ITEM-5	1	Nos.	IS:2062 Fe 410 CuWA
42	CABLE	WD-10061-S-02 ITEM-6	2	Nos.	-
43	CABLE PIN	WD-10061-S-02 ITEM-16	2	Nos.	-
44	SPLIT PIN FOR CABLE PIN	WD-10061-S-02 ITEM-16	2	Nos.	-
45	APD FOR PIN ON CABLE EQLIZER	-	1	Nos.	-
46	HAND BREAK PULL ROD	W/BG-6356 / WD-10061-S-02 ITEM-17	1	Nos.	IS:2062 Fe 410 CuWA
47	HANGER FOR PULL ROD/ TIE ROD ROLLER	WD-10061-S-02 ITEM-7	1	Nos.	IS:2062 Fe 410 CuWA
48	PIN FOR PULL ROD ROLLER	W/BG-6236 WD-10061-S-02 ITEM-8	1	Nos.	-
49	ROLLER FOR BOGIE PULL ROD	W/BG-6200 WD-10061-S-02 ITEM-9	1	Nos.	-
50	SPLIT PIN FOR ROLLER PIN	-	1	Nos.	-
51	COUPLING NUT FOR TIE ROD	W/BG-6181 WD-10061-S-02 ITEM-11	1	Nos.	-
52	HEX HEAD BOLT M12X40	WD-10061-S-03 ITEM-11	2	Nos.	-
53	HEX HEAD BOLT M12X50		3	Nos.	-
54	HEX NUT M12	WD-10061-S-03 ITEM-11	5	Nos.	-
55	SPRING WASHER M12/B12	WD-10061-S-03 ITEM-11	5	Nos.	-
56	HEX HEAD BOLT M8X35	-	2	Nos.	-
57	SPRING WASHER M8	-	2	Nos.	-
58	TIE ROD (SMALL) +WITH	WD-10061-S-02 ITEM-12 ++	1	Nos.	IS:2062 Fe 410 WA & IS:1875 St.CL-2
59	TIE ROD (LONG) +WITH	WD-10061-S-02 ITEM-13 ++	1	Nos.	IS:2062 Fe 410 WA & IS:1875 St.CL-2
60	PIN FOR TIE ROD (SMALL)	L/PN-613/M L/PN-614/M	2	Nos.	-
61	SPLIT PIN FOR TIE ROD (SMALL)	WD-10061-S-02 ITEM-12	2	Nos.	-
62	PIN FOR TIE ROD (LONG)	W/PN-90 WD-10061-S-02 ITEM-15	1	Nos.	-
63	SPLIT PIN FOR TIE ROD (LONG)	WD-10061-S-02 ITEM-15	1	Nos.	-
64	PRIMARY BEAM ASSEMBLY ONE FOR EACH BOGIE	WD-08093-S/2 ALT-2 ITEM-1	2	Nos.	-
65	SECODARY BEAM ASSEMBY ONE FOR EACH BOGIE	WD-08093-S/2 ALT-2 ITEM-2	2	Nos.	-
66	10 inch BRAKE CYLINDER WITH BUILT IN SLACK ADJUSTER FOR BMBS WITH HAND BRAKE CABLE	WD-08095-S-01 WD-08093-S/2 ALT-2 ITEM-3	1	Nos.	-
67	10 inch BRAKE CYLINDER WITH BUILT IN SLACK ADJUSTER FOR BMBS WITHOUT HAND BRAKE CABLE	WD-08095-S-02 WD-08093-S/2 ALT-2 ITEM-3	1	Nos.	-
68	BELL CRANK LEVER L.H.	WD-08093-S/2 ALT-2 ITEM-4	2	Nos.	-
69	BELL CRANK LEVER R.H.	WD-08093-S/2 ALT-2 ITEM-5	2	Nos.	-
70	PUSH ROD / ASSEMBLY	WD-08093-S/2 ALT-2 ITEM-6	4	Nos.	-
71	APD FOR PINS ON PUSH ROD	-	4	Nos.	-
72	WASHER	-	8	Nos.	-
73	BRAKE HEAD FOUR FOR EACH BOGIE	WD-08093-S/2 ALT-2 ITEM-7	8	Nos.	-
74	BRAKE HEAD PIN	WD-08093-S/2 ALT-2 ITEM-8	8	Nos.	-
75	K-TYPE COMPOSITION BRAKE BLOCK	WD-00006-S/1 WD-08093-S/2 ALT-2 ITEM-9	8	Nos.	-
76	BRAKE BLOCK KEY (WITH KEY RETAINER IF REQUIRED)	W/BG-6150 WD-08093-S/2 ALT-2 ITEM-10	8	Nos.	-
	KEY RETAINER		8	Nos.	-
77	PIN : CLEVIS	WD-08093-S/2 ALT-2 ITEM-11	4	Nos.	-
78	PIN : CLEVIS	WD-08093-S/2 ALT-2 ITEM-12	4	Nos.	-
79	PIN : CLEVIS	WD-08093-S/2 ALT-2 ITEM-12	4	Nos.	-
80	PIN : CLEVIS	WD-08093-S/2 ALT-2 ITEM-12	4	Nos.	-
81	PIN ;COTTER DIA 8MMx50 (for pins)	WD-08093-S/2 ALT-2 ITEM-13	4	Nos.	-
82	PIN; COTTER DIA 6.3MMx50 (for pins)	WD-08093-S/2 ALT-2 ITEM-13	8	Nos.	-
83	PIN; COTTER DIA 6.3MMx75 (for pins)	WD-08093-S/2 ALT-2 ITEM-14	16	Nos.	-
84	APD FOR PINS ON BREAK BEAM	-	8	Nos.	-
85	SPHERICAL BEARING	WD-08093-S/2 ALT-2 ITEM-17	8	Nos.	-
86	WASHER	WD-08093-S/2 ALT-2 ITEM-18	4	Nos.	-
87	BUSH	WD-08093-S/2 ALT-2 ITEM-20	4	Nos.	-
88	DOWEL SLEEVE	WD-08093-S/2 ALT-2 ITEM-21	4	Nos.	-
89	Other if required as per RDSO Drg & Instruction.				