



## RESEARCH DESIGNS & STANDARDS ORGANIZATION

Manaknagar, Lucknow – 226011

### QM-M-7.1-2

*List of items controlled by QA(Mech) Dte. indicating upgradation quantity,  
testing charges for testing in RDSO*

#### 1.0 Amendment History:

S. No.	Amendment Date	Version	Reasons for Amendment
1	26.04.2013	1.0	Fresh issue
2.	16.08.2013	1.1	Upgradation quantity for item at SN 51 i.e. Medium Phosphorous Brake Blocks is changed from 5,000 nos. to 22,500 nos.
3.	23.08.2013	1.2	Upgradation quantity for item at SN 51 i.e. Medium Phosphorous Brake Blocks is retained as 5,000 nos. as mentioned in Ver 1.0.

## 2.0 Purpose:

This document contains the consolidated list of items controlled by QA(Mech) Directorate indicating Renewal month, Upgradation quantity, Testing charges for testing in RDSO lab.

The relevant specifications, drawings & STR pertaining to the items are also mentioned.

The reference directives for vendor registration process at RDSO are listed under **para 5.0**.

## 3.0 Scope of Application:

It is applicable for QA (Mech.) Directorate.

## 4.0 Procedure / Details:

Following table lists the items controlled by QA(Mech) Directorate indicating Renewal month, Upgradation quantity, Testing charges for testing in RDSO lab.

*(Wherever testing charges are indicated, these items are to be tested at RDSO lab during Fresh Registration, unless specified separately)*

SN	Item	Specification	Drng no.	STR	Upgradation Qty & approval policy	Renewal Month	**Testing Charges (Applicable for testing in RDSO) (to be revised)
1.	Graduated release compressed air brake equipment for freight stock including components	02-ABR-2002		QMS-14-2009	1000 wagon sets of any type of wagon (supply of individual components cannot be accounted for Wagon Set)	JAN	N/A
	Distributor Valve	02-ABR-02 Appendix -A1	Proprietary item	QMS-14-2009			
	Brake Cylinder (Wagon 355 mm)	02-ABR-02 Appendix -B	WD-92051-S-06 Alt.5	QMS-30-2009			
	Brake Cylinder (Brake Van 300mm)	02-ABR-02 Appendix -B	WD-92051-S-11 Alt.3				
	Auxiliary Reservoir 100 lit.	02-ABR-02 Appendix-C	WD-92051-S-01 Alt.3	QMS-31-2009			
	Auxiliary Reservoir 75 lit.	02-ABR-02 Appendix-C	WD-92051-S-02 Alt.2				
	Cut off Angle Cock	02-ABR-02 Appendix-D	WD-88123-S-01				
	Dirt Collector	02-ABR-02 Appendix-E	WD-92051-S-03 Alt.4	QMS-32-2009			
	Hose coupling Assembly for Brake Pipe	02-ABR-02 Appendix-F	SK-73547 Alt.11	QMS-27-2009			
	Guard Emergency Brake Valve	02-ABR-02 Appendix-G	SK-73549 Alt.12	QMS-32-2009			
	Common pipe bracket with control reservoir	02-ABR-02 Appendix-A1	WD-97951-S-10				
	Load Sensing Device	02-ABR-02 Appendix-P	WD-01065-S-01or Alternative design approved by RDSO	QMS-14-2009			
	Isolating Cock for Brake Van	02-ABR-02 Appendix-I	WD-83062-S-04 Alt.02	QMS-32-2009			
Pipes for air brake system	04-ABR-2002	WD-83062-S-6 & 7,Alt.05 , WD-94056-S/1	QMS-21-2009				
2.	Graduated release compressed air brake equipment for coaching Stock including components	02-ABR-02		QMS-14-2009	500 sets of all types of coaches	JAN	N/A
	Distributor Valve	02-ABR-02	Proprietary Item	QMS-14-2009			
	Brake cylinder 355mm	02-ABR-02 Appendix-B	SK-97015	QMS-30-2009			

	Auxiliary Reservoir 200 lit	02-ABR-02 Appendix-C	SK-96081	QMS-31-2009			
	Cut off angle cock	02-ABR-02 Appendix-D	WD-88123-S-01	QMS-32-2009			
	Two way Dirt Collector	02-ABR-02 Appendix-E	SK-97005				
	Hose Coupling Assembly for B.P.	02-ABR-02 Appendix-F	SK-73547	QMS-27-2009			
	Hose Coupling Assembly for F.P.	02-ABR-02 Appendix-F	WD-81027-S-01				
	Pressure gauge for brake pipe & feed pipe	02-ABR-02 Appendix-H	SK- 73553 & WD- 83062- S/05	QMS-33-2009			
	Check Valve Assembly	02-ABR-02 Appendix-I	SK-98112, WD- 83062-S-03	QMS-32-2009		JAN	N/A
	Passenger emergency Alarm Valve	02-ABR-02 Appendix-J	SK-97029				
	Passenger Emergency Alarm Signal Device with fixed key arrangement	02-ABR-02 Appendix-J	SK-97017				
	Guard's Emergency Brake Valve	02-ABR-02 Appendix-G	SK-73549				
	Isolating Cock	02-ABR-02 Appendix-I	SK-97002, SK-89021, SK-98013				
<b>3.</b>	<b>(a)</b> Auxiliary Reservoirs for freight & Coaching stock			QMS -31-2009	3000 nos. (Combined quantity of all three types of AR's)	JAN	N/A
	Auxiliary Reservoir 100 Lt	02-ABR-02 Appendix-C	WD-92051-S-01				
	Auxiliary Reservoir 75 Lt	02-ABR-02 Appendix-C	WD-92051-S-02				
	Auxiliary Reservoir 200 lit	02-ABR-02 Appendix-C	SK-96081				
<b>3.</b>	<b>(b)</b> Cut off Angle Cock for freight & coaching stock	02-ABR-02 Appendix-D	WD-88123-S-01	QMS -32-2009	1000 Nos.	JAN	N/A
<b>3.</b>	<b>(c)</b> Dirt Collector			QMS -32-2009	2000 nos. combined quantity of all types.	JAN	N/A
	Dirt Collector	02-ABR-02 Appendix-E	WD-92051-S-03				
	Two way Dirt Collector	02-ABR-02 Appendix-E	SK-97005				
<b>3.</b>	<b>(d)</b> Hose Assembly for freight & Coaching stock	02-ABR-02 Appendix-F	SK-73547 & WD- 81027-S-01	QMS-27-2009	BP & FP hoses combined quantity of 20,000 nos.	JAN	₹ 36,425/-
<b>3.</b>	<b>(e)</b> Guard's Emergency Brake Valve	02-ABR-02 Appendix-G	SK-73549		300 nos.		
<b>3.</b>	<b>(f)</b> Isolating Cock	02-ABR-02 Appendix-I	SK-97002, SK-89021, SK-98013		3,000 nos. combined. New vendors will be approved for all three drawings at a time. No approval would be given for individual components.		
<b>3.</b>	<b>(g)</b> Check Valve Assembly	02-ABR-02 Appendix-I	SK-98112, WD- 83062-S-03	QMS-32-2009	2,000 nos. combined quantity. New vendors will be approved for all drawings at a time. No approval would be given for individual items.	JAN	N/A
<b>3.</b>	<b>(h)</b> Passenger emergency Alarm Valve	02-ABR-02 Appendix-J	SK-97029		300 Nos.		

3. (i)	Passenger Emergency Alarm Signal Device with fixed key arrangement	02-ABR-02 Appendix-J	SK-97017		300 Nos.		
3. (j)	Pipes for air brake system for freight & coaching stock	04-ABR-2002	WD-83062-S-6 & 7, WD-94056-S/1	QMS-21-2009	2000 sets of air brake pipe system (combined quantity of pipe system of any type of freight stock or any type of coaching stock).	JAN	N/A
3. (k)	Pressure gauges for air brake system – Coaching & freight stock	02-ABR-02 Appendix 'O' & Appendix H	WD-92047-S-01Alt 03, SK-73553 Alt 03, WD-83062-S-05, WD-91101-S-05 Alt 05	QMS -33-2009	600 nos. combined quantity of all the 3 types of gauges. Quick coupler arrangement supply need not be counted for up-gradation. Once the firm is upgraded for pressure gauge it deemed to be upgraded for quick coupler also.	JAN	N/A
4.	Brake Cylinder Assembly			QMS-30-2009	2000 nos. of combined quantity of all the three types of brake cylinders. Vendor approval shall be taken up for the new vendors for all the 3 types of brake cylinders at a time. No individual approval shall be given for brake cylinders drawing-wise.	JAN	N/A
	Brake Cylinder (Wagon 355 mm)	02-ABR-02 Appendix –B	WD-92051-S-06 Alt.5				
	Brake Cylinder (Brake Van 300mm)	02-ABR-02 Appendix –B	WD-92051-S-11 Alt.3				
	Brake cylinder 355mm	02-ABR-02 Appendix-B	SK-97015				
5.	Bogie Mounted Brake Cylinder	C-K013	SK-81200, SK-81057, SK-81202		1,000 nos.	JAN	N/A
6.	Slack Adjuster and Spares – for coaching stock	07-ABR-1992	SK-83063 & SK-85062	QMS-07-2009	400 nos.	JAN	N/A
7.	Slack Adjuster and Spares - for freight stock	07-ABR-1992	SK-83063 & SK-85062	QMS-07-2009	Combined quantity of 600 nos. of different types of slack adjusters for freight stock. (Spares shall not be counted against the complete assembly.)	JAN	N/A
8.	Empty load device	IR –ELD –10	WD-84074-S-01 Alt-03, 2 Alt-02, 3-RC Alt-03	QMS-39-2009	1000 Nos. of empty load device assembly.	JAN	N/A
9.	Spring Steel Rounds Gr.60Si7 and Gr. 55Si7)	WD-01-HLS-1994 & IS: 3195		QMS-16-2009	300MT	MAR	N/A
10.	Spring Steel Rounds (Gr. 52Cr4Mo2V and Gr.AISI 8650H)	WD-01-HLS-1994		QMS-16-2009	300 MT	MAR	N/A
11.	Suspension Coil spring to material Gr.60Si7 and Gr. 52Cr4Mo2V for freight stock	WD-01-HLS-1994		QMS-17-2009	30,000 nos. combined quantity of both springs for any type of freight bogie	MAR	N/A
12.	Suspension coil springs for coaching stock	WD-01-HLS-1994		QMS-17-2009	8,000 nos.	MAR	N/A
*13.	Suspension Coil Springs for Locomotives	MP.0.4900.12		QMS-17-2009	5,000 nos.	MAR	N/A
14.	Rubber Buffer Pads for freight stock	R-36	W/BD-2267	QMS-06-2009	10,000 pads	MAY	N/A
15.	Side Bearer Pads for freight stock	03 Misc 86 Rev.3	–	QMS-06-2009	50,000 pads	MAY	₹ 23,500/-

16.	High Capacity Buffer Spring for Side Buffers of BG Coaches	CK-210 Rev. 03	SK- K 2048	Included in spec.	10,000	MAY	₹ 28,200/-(without static characteristic test), ₹ 39,950/- (with characteristic test)
17.	Draw Gear Pads for coaching stock	C-9501 Rev.3	SK-K-3004	Included in spec.	5,000 packs	MAY	₹ 28,200/-(without static characteristic test), Rs 39,950/- (with characteristic test)
18.	RF-8 Rubber Springs (High capacity draft gear pad)	55 –BD –90	WD-90076.S.01	QMS-06-2009	5,000 nos.	MAY	₹ 27,25/-
19.	Elastomeric Pads	20-Misc-95 Rev 3, Amendment of May'06	WD-95005-S-01	QMS-06-2009	100,000 nos.	MAY	₹ 23,500/- (for M&C lab) + ₹ 16,30,900/- (for Fatigue testing lab)
20.	Side Bearer (secondary rubber spring for diesel locomotives)	VL-03, VL-02	SKVL-127, SKVL-133	QMS-42-2009	Total = 400 nos. combined.	MAY	N/A
21.	Centre Pivot Rubber Bush for WDP1, WDG2		SK.VL-028A, SK.VL-128, SKVL-266	QMS-42-2009	Total = 100 nos. combined.	MAY	N/A
22.	Upper & Lower rubber washer	R-64/ 98 Rev.2	-	QMS-04-2009	10,000 nos. Combined quantity of Upper and Lower washers New vendors will be approved for Upper & Lower rubber washer at a time. No approval would be given for individual components.	MAY	₹ 32,900/-
23.	Acetal Guide Bush & Guide Ring	C – 8215 Rev.2	SK-84102, SK-84092	Included in spec.	15,000 nos. Acetal Guide Bush. Guide ring shall not be counted.	SEP	₹ 12,925/- (Type test charge), Rs 8,225/- (Product test charge)
24.	Nylon-66 brake gear bushes	WD –04 – Nylon Bush –02	SK-81039	QMS-15-2009	100,000 Nos.	SEP	₹ 16,450/- (Type test charge), ₹ 8225/- ( Product test charge) each
25.	High tensile CBC coupler & its components for freight stock	48-BD-2008	SK-62724	QMS-10-2009	2,000 Nos.	NOV	N/A
	Coupler Body	48-BD-2008	SK-62724, Item-1		2,000 Nos.		
	Knuckle	48-BD-2008	SK-62724, Item-2		4,000 Nos.		
	Lock	48-BD-2008	SK-62724, Item-8		4,000 Nos.		
	Knuckle Thrower	48-BD-2008	SK-62724, Item-9		2,000 Nos.		
	Knuckle Pivot Pin	48-BD-2008	SK-62724, Item-4		2,000 Nos.		
	Toggle	48-BD-2008	SK-62724, Item-5				
	Universal Lock Lift Lever Connector	48-BD-2008	SK-62724, Item-6		2,000 Nos.		
	Lock Lift Hook	48-BD-2008	SK-62724, Item-7				
	Coupler Yoke	48-BD-2008	SK-62724, Item-3		2,000 Nos.		
	Yoke Pin	48-BD-2008	SK-62724, Item-12		2,000 Nos.		
	Yoke Pin Support	48-BD-2008	WA/BD-4462		2,000 Nos.		
	Striker Casting(N.T.)	48-BD-2008	WA/BD-4460		2,000 Nos.		
	Striker Casting Wear Plate	48-BD-2008	WD-87056-S-01		2,000 Nos.		
Shank Wear Plate	48-BD-2008	SK-62724 Item-10	2000 Nos.				

26.	Alliance II Coupler & its components	24-BD-79	SK-79555	QMS-10-2009	400 Nos.	NOV	N/A
	Coupler body		SK-79556 Item 1		400 Nos.		
	Knuckle		SK-79556 Item 4		400 Nos.		
	Lock		SK-79556 Item 2		400 Nos.		
	Knuckle thrower/kicker		SK-79556 Item-3		400 Nos.		
	Lock lift lever hook/ Rotary lever		SK-79556 Item 6		400 Nos.		
	Toggle/Bottom lifter		SK-79556 Item 5		400 Nos.		
	Striker casting		SK-79557 Item 1		400 Nos.		
	Yoke pin support with wear plate		SK-79557 Item 3		400 Nos.		
	Lock Lift Connector		SK-79556		400 Nos.		
27.	High Tensile CBC Coupler & its components for locomotives	56-BD-2007		QMS-10-2009	500 nos.	NOV	N/A
28.	High Capacity Draft Gear	49-BD-07	WD-81010-S-03	QMS-10-2009	2000 nos. Draft Gear Assembly	NOV	N/A
29.	Knuckle pin with washer	48-BD-2008	SK-62724 Item-4	QMS-36-2009	2,000 Nos.	NOV	N/A
30.	Yoke Pin	48-BD-2008	SK-62724 Item-12	QMS-36-2009	2,000 Nos.	NOV	N/A
31.	Knuckle Thrower	48-BD-2008	SK-62724 Item-9		2,000 Nos.	NOV	N/A
32.	Locomotive side buffer assembly and its spares	MP.0.41.00.02		QMS-44-2009	-	JUL	N/A
33.	Casnub bogie and its components	WD-21-Casnub-22NLB Bogie-93 Rev.2 July 02 Amnd.2 of Oct'04, WD-17-Casnub-22HS-Bogie-92 Rev.3, WD-34-Casnub-22-HS (Mod-I)-2004 Amnd.1		QMS-09-2009	Total 1,500 nos. Casnub bogies. (All types of casnub bogies combined, excluding CONCOR bogie)	DEC	N/A
	Cast steel side frame		WD-89067-S/3				
	Cast steel bolster		WD-89067-S/4 WD-92058-S/3				
	Centre pivot assembly (top & bottom)		WD-85079-S/2 & UIC/IRS bogie stock		4,000 nos. combined quantity of Centre pivot top & Centre pivot bottom (WD-97049-S/3, Alt. 3 & WD-85079-S/2 & UIC/IRS bogie stock)		
	Wedge		SK-77579		2,000 Nos.		
	Side Bearer Housing		SK-69594 Item 4, WD-92093-S/1		3,000 Nos.		
	End piece & Sturt Casting for Brake Beam		WD-89033-S/1		3,000 Nos.		
	Brake Beam for Casnub 22W(M)		WD-85084-S-1		3,000 Nos.		
34.	Cast Steel bogies for CONCOR flat wagons	CONTR.9404-S/2 for BLCA/BLCB & BLLAB/BLLB	CONTR.LCCF 20(C)-96 (Rev.2)	QMS-09-2009	500 nos. CONCOR bogie	DEC	N/A
	Cast steel side frame						
	Cast steel bolster						
	Centre pivot assembly (top & bottom)						
	Wedge						
Brake Beam							
35.	Spring Plank	WD-21-Casnub-22NLB Bogie-93 Rev 2	SK-69594 Item 1	QMS-23-2009	2,000 nos. (combined quantity of all types shall be counted as upgradation quantity)	DEC	N/A
36.	Centre Pivot Washer		WD-85079-S-2	QMS-06-2009	4,000 nos.	MAY	₹ 15,275/-

37.	Brake Beam for freight (Fabricated)	WD-21-Casub-22NLB Bogie-93 Rev 2, WD-17-Casub-22 HS-Bogie-92 Rev.3	WD-89033-S/1 WD-07052-S/1	QMS-25-2009	3,000 nos. (combined quantity of all types shall be counted as upgradation quantity)	DEC	N/A
38.	Narrow & Wide Jaw Adapters	AB/RB-39-2002, Rev.3,	WD-89067-S/9, SK-7852	QMS-26-2009	3,000 nos. combined quantity of wide jaw, narrow jaw and modified adopters. New vendors will be approved for all the 3 items at a time. No approval would be given for individual type of adopters.	JUL	N/A
39	Side Frame Key		SK-69594 Item 6	QMS-24-2009	5,000 Nos.	DEC	N/A
40.	Cartridge Taper Roller Bearing for BG Freight stock	AB/RB-39-2002 Rev.3		-	20,000 nos.	JUL	N/A
41.	Locking Plate	AB/RB-39-2002 Rev.3	WD-86002/S-4, WD-87019/S-1, T-0-2-637	QMS-19-2009	30,000 nos.	JUL	N/A
42.	Axle end steel high tensile cap screws	AB/RB-39-2002 Rev.3	-	QMS-43-2009	20,000 Nos.	JUL	N/A
43.	Three axle cast steel trimount and Flexi-coil Bogie frame & Bolster for BG Locomotives	MP.0.4900.04 Rev.1 Oct'04,)	Drg. No., SKDL-3812 & 3813	QMS-45:2009		DEC	
44.	Bogie Bolster Suspension Hanger	C – K105	SK –92057 & SK –83033	Included in spec.	3,000 nos.	APR	N/A
45.	Brake Block Hanger	C- 9808	SK-93286	Included in spec.	3,000 nos.	APR	N/A
46.	Screw Couplings	For Freight stock R-9-66,  For coaching stock C-9505 Rev Aug 2001  -	-  -  For locomotives SKDL-2494	Included in specification	1,000 nos. (All types shall be counted for upgradation quantity). New vendors will be approved for Screw Couplings for coaching, freight & loco at a time. No approval would be given for individual components.	NOV	N/A
47.	Draw Gear Arrangement	C-9509 Rev 2	SK-99003 Alt -04	Included in spec.	500 nos.	NOV	N/A
48.	Lubricated taper plug valves	WD-06-TPV-93	WD-93066-S-01	QMS-38-2009	500 Nos.	FEB	N/A
49.	Silico-Manganeses Steel Liners & Wear Plates for wagons	WD-21-Casub-22 NLB-93 Rev 2		QMS-22-2009	5,000 nos. combined quantity of all types of liners. New vendors will be approved for Silico-Manganeses Steel Liners & Wear Plates for wagons at a time. No approval would be given for individual liners.	JUL	N/A
*50.	Snubber Assembly for Locomotives	-	SKDL 2089A	QMS-34-2009	2,000 nos.	APR	N/A
51.	Medium Phosphorous Brake Blocks	M&C/MDT/ 101/94	-	QMS-107-2009	5,000 nos.	JUL	N/A
52.	Class 'A' foundry	IS: 12117	-	IS: 12117	-	OCT	N/A

**Note: (\*) Items require field trials.**

**(\*\*) Testing Charges is under revision.**

## 5.0 Referenced Documents

The list of related documents to be referred is given below.

Ref. S. No.	Document Number	Document Name
1.	QO-D-7.1-10	Vendor sample type testing
2.	QO-D-7.1.11	Vendor changes in approved status
3.	QO-D-7.1-14	Vendor registration schedule of charges

## 6.0 Referenced Documents of External Origin

None

## 7.0 Associated Records

None

## 8.0 Responsibility and Authority

Activity	Responsible	Approver	Supporting	Consulted	Informed
Creation, maintenance of this document	Director/I&L/ LKO	ED/QA(Mech)	Staff of QA (Mech) Dte.		All Zonal office of QA (Mech) Dte.
Requirement of deviation from this form template.	Director/I&L/ LKO	ED/QA(Mech)	Respective AIE/I&L	MR/ISO Cell	All Zonal office of QA (Mech) Dte.

## 9.0 Abbreviations:

QA	Quality Assurance
ED/QA (Mech)	Executive Director/ Quality Assurance (Mechanical)
RDSO	Research Designs & Standards Organisation
M&C	Metallurgical & Chemical
ARO	Assistant Research Officer
STR	Schedule of Technical Requirements