

ISO 9001: 2015	Documents No. MP-M-8.1-1	Version No 1.2	Date effective: 18.11.2020
Document title: Master List of Qualifying Quantity for up-gradation to approved vendors and Qualifying Quantity & Qualifying Periods for Approval for RDSO vendor for developmental order of items controlled by MP Directorate			



भारत सरकार  
रेल मंत्रालय

**GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS**

**Document No. MP-M-8.1-1  
Ver. 1.2**

**Master List of Qualifying Quantity for up-gradation to approved vendors  
and Qualifying Quantity & Qualifying Periods for Approval for RDSO vendor for developmental order of items controlled  
by MP Directorate**

चालन शक्ति निदेशालय  
अनुसंधान अभिकल्प और मानक संगठन  
लखनऊ – 226 011

**MOTIVE POWER DIRECTORATE  
RESEARCH DESIGNS & STANDARDS ORGANISATION  
LUCKNOW - 226 011**

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**1.0 AMENDMENT HISTORY: -**

S. No.	Amendment date	Version	Reason for amendments
1.0	14-09-18	1.0	First issue under new documentation system
2.0	14-10-20	1.1	Second issue due to Vendor directory item deletion/transfer to PUs and some item decontrol to vendor directory
3.0	18-11-20	1.2	Change in S.No. 3, Qualifying quantity for approval for RDSO vendor for developmental order due to typographical error.

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This document contains Qualifying quantity for up-gradation to approved vendors and Qualifying quantity & qualifying periods for approval for RDSO vendor for developmental order of critical locomotive items to be procured only from RDSO (Motive Power Directorate) approved sources, only with no exception being permitted, as per Annexure 'A' of Railway Board letter no. 2001/M(L)/466/2706 dated 28.05.2003 and it's revisions. The Qualifying quantity & periods of such items will be applicable from the date of issue of this document.

### Annexure-1

#### QUALIFYING QUANTITY AND QUALIFYING PERIOD FOR UPGRADATION TO APPROVE AND FOR DEVELOPMENT VENDOR FOR VENDOR DIRECTORY ITEMS

SN.	Description	EMD / DLW / Firm's Pt. no. / Drawing No.	Specification No.	Qualifying quantity for up-gradation to approved vendors	Qualifying quantity & Period for approval for RDSO vendor for developmental order	
					Qualifying quantity	Qualifying Period
<b>Engine and Engine system Items</b>						
1.	Connecting Rod Bearings (Steel Backed) Anti – Friction Metal Lined for ALCo locomotives.					
	• Half Bushing, Con Rod (Cap Only)	DLW Pt. no. 10150055	31PD 5703A	1000	48 (3 loco sets)	One year
	• Half Bushing, Con Rod (Rod Only)	DLW Pt. no. 10150043		1000	48 (3 loco sets)	One year
2.	Filter Air Dryer & MR, for ALCo & EMD locomotives		-			
	(A) Filter Air Dryer & MR for ALCo locomotives	DLW Pt. no. 11664253	-	200	20 (10 loco sets)	One year
	(B) Filter Air Dryer & MR, for EMD locomotives	EMD Pt. no. 9559346, DLW Pt. no. 17450822	-			
3.	Filter Element, Brake Panel, for EMD locomotives	NYAB Pt. no. 775925	-	100	5 (5 loco sets)	One year

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SN.	Description	EMD / DLW / Firm's Pt. no. / Drawing No.	Specification No.	Qualifying quantity for up-gradation to approved vendors	Qualifying quantity & Period for approval for RDSO vendor for developmental order	
					Qualifying quantity	Qualifying Period
4.	Filter element, fibre glass, ECC for EMD locomotives	EMD Pt. no. 8402068, DLW Pt. no. 17453057	-	500	50 (10 loco sets)	Six months
5.	Lube Oil and Fuel Oil Filter Elements & Filter Paper Media for ALCo Locos					
(A)	Low Mean Pore Size Primary & Secondary Fuel Oil Filter Elements for Diesel Electric Locomotives	RDSO Drg. No. SKDP-3901 & 3902	RDSO Spec. No. MP.0.2600-25	300 loco sets	30 (15 loco sets)	190 days
(B)	Low Mean Pore Size Primary & Secondary Fuel Oil Filter Elements for Diesel Electric Locomotives	RDSO Drg. No. SKDP-3908 & 3909			30 (15 loco sets)	100 days
(C)	Filter Paper Media for Long Life Lubricating Oil Filter Element for Locomotive Diesel Engines	-	RDSO Spec. No. MP.0.2600-15.	2400	80 (10 loco sets) with CLOC	250 days with CLOC
6.	Long Life Lubricating Oil Filter Element for Locomotive Diesel Engines	-	RDSO Spec. No. MP.0.2600-15	2400	80 (10 loco sets) with CLOC	250 days with CLOC

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**Electrical Machines (DEMU Items)**

**DEMU Items** (For items that are similar in design and construction between Locomotives & DEMU, in case a vendor is already approved for similar item in locomotives, it may be granted same status in DEMU also, subject to successful completion of type test and field trial of the equipment. This is due to the logic that application in Locomotives is more severe as compare to DEMU. However, by the same logic, the reverse would not be admissible).

7.	Three phase AC-AC transmission System & Associated Control equipment for 1600 HP Diesel Electric Multiple Unit		MP.0.24.00.45	5 Systems, Minimum life proving criteria (MLPC) – 02 System for 3 years	02 Systems	Six months
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**Electrical Machines (EMD Locomotive Items)**

8.	Bearings, Traction Motor- for EMD locomotives					
	TM Drive end (DIN 43283-N 332-ECM-SRL 340-370-VA309)			30 nos.*	15 nos.	Six months
	TM Non-drive end (DIN 43283-6326-M/C5-VA309),			30 nos.*	15 nos.	Six months
9.	3-Phase Induction Motors for 4500 HP, AC- AC WDG4 & WDP4B Diesel Electric Locomotives	EMD Pt No 40071569 & 40086753 / DLW Pt No 18080017 & 18070036 and 18080080 & 18080091	MP.0.2400.52	60 nos. for 24 months & minimum life proving criteria 12 nos. for 24 months (Also see Rly. Board's letter no. 2007/M(L)/466/5(402) dt. 14.10.09)	60 nos. (Also see Rly. Board's letter no. 2007/M(L)/466/5(402) dt. 14.10.09)	Six months
10.	Traction gears & pinions (Case hardened) for EMD & Alco Locomotives					
(A)	Axle Gear Steel (Carburizing Type)		Spec. No. EMS 157	60 Nos.	15 Nos.	Six months

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		Gear – 90 teeth	EMD / DLW Pt. no. 40074148 / 18440022				
		Gear – 77 teeth	EMD / DLW Pt. no. 10662230 / 18440046				
(B)	Pinion Gear Steel (43 B 17)			Spec. No. EMS 81; STR No. MP.STR. EM.04.11.11	60 Nos.	15 Nos.	Six months
	Pinion -17 teeth	EMD / DLW Pt. no. 40074147 / 18440010					
	Pinion-17 teeth	EMD / DLW Pt. no. 10662229 / 18440034					
(C)	Traction Gears, (Case hardened) for ALCo locomotives			Spec. No. MP.0.2800.17; STR No. MP.STR. EM.04.11.11	125 Nos.	15 Nos.	Six months
(D)	Traction Pinion, (Case hardened) for ALCo locomotives			Spec. No. MP.0.2800.17; STR No. MP.STR. EM.04.11.11	150 Nos.	15 Nos.	Six months
11.	Suspension tube: Housing bearing kit for EMD locomotives						
(A)	Tube Suspension: Housing bearing kit (consisting 11 items) for EMD locomotives	DLW Pt No. 17454499		STR No. MP.STR. EM.01.01.12	125 sets	15 sets	Six months
(B)	Tube Suspension: Housing bearing kit (consisting 4 items) for EMD locomotives	DLW Pt No. 17454487		STR No. MP.STR. EM.01.01.12	125 sets	15 sets	Six months

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<b>Electrical Machines (BG ALCo Locomotive Items)</b>							
12.	Traction motor bearings for ALCo locomotives						
(A)	Bearing, roller type, of Traction motor, for ALCo locomotives, NH320 rivetless- commutator end, NU330 rivetless- Pinion end & alternator/generator bearings			MP.0.2402.03	Traction motors- 30 each type* Alternator/Generator - 30 nos.*	Traction motors- 15 nos. each type Alternator/Generator - 3 nos.	Six months
(B)	Bearings for Traction motor, ALCo locomotives - (NU328 & NH318 rivetless)			MP.0.2402.03	30 nos. each *	15 nos.	Six months
13.	Carbon blocks		As per manufacturer's data sheet	Approval issued by MP Dte of RDSO vide letter no. SD.DFM.A2.2, dtd. 25.06.2020, Spec. MP.0.2400.60		Nos. of carbon brush	
i.	TM165/ 165M/ 4906/ 4907/ GE 752 / C1001TM	WDM2, WDM3A, WDG3A, WDM3C & WDM3D	Do	Do	3600	180	Six months
ii.	TM5002AZ/ BW & TM7362 (CGL)/ TM7362A	WDP1, WDP3A, WDP3DH, WDP3A,W DM3D	Do	Do	3600	180	Six months
iii.	TG 10931 AZ	WDM2	Do	Do	3000	150	Six months
iv.	TG 5301 BX	WDM2	Do	Do	3000	150	Six months
v.	TG 581/586A	WDM2	Do	Do	2000	100	Six months
vi.	TG-5GT586 (GE)	WDM2	Do	Do	2400	100	Six months

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vii.	TA 10105AZ, TA10106AZ, TA10102CW/ DW, TA10102 EV	WDM2, WDM7, YDM6, WDP1, WDM3A, WDG3A, WDP3A, WDM3C & WDM3D	Do	Do	200	10	Six months
viii.	AG-51, AG-2513, AG-2501	WDM2, WDP1	Do	Do	400	20	Six months
ix.	AG-2702AZ	WDM2	Do	Do	400	20	Six months
x.	AG-3101	WDM3A, WDG3A, WDP3A, WDM3C & WDM3D	-Do-	-Do-	900	45	Six months
xi.	AG-5GY27 (GE)	WDM2	-Do-	-Do-	600	100	Six months
xii.	Exciter Alternator 5G7A6A1(GE)	WDM2	Do	Do	200	10	Six months
xiii.	TM-4303AZ/ BY/CZ/DY	1400HP DEMU	Do	Do	1600	80	Six months
xiv.	TM-2141 (CGL)	700HP DEMU	Do	Do	1600	80	Six months
xv.	DB Blower Motor 5GY90	WDM2	Do	Do	400	20	Six months
xvi.	DB Blower MotorDY3423	WDM2, YDM4	Do	Do	400	20	Six months
xvii.	Fuel Pump Motor	WDM2	Do	Do	100	5	Six months

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xxviii	Fuel Pump Motor ES-117 (ELGI)	WDM2, WDM3A, WDG3A, WDP1, WDM3C & WDM3D	Do	Do	200	5	Six months
xix.	Fuel Pump Motor5BC76 AB286 (GE)	WDM2	Do	Do	100	5	Six months
xx.	Crank Case Exhauster Motor ES-92 (ELGI)	WDM2, WDM3A, WDG3A, WDP1, WDM3C & WDM3D	Do	Do	100	10	Six months
xxi.	Eddy Current Clutch-EC-9005/2/M	WDM2, WDM3A, WDG3A, WDP1, WDM3C & WDM3D	Do	Do	200	10	Six months
xxii.	Clutch Gear 5DGY32A1	WDM2	Do	Do	100	10	Six months
xxiii.	Main Alternator (TA-17)	WDP4, WDG4 & WDP4B	Do	Do	300	15	Six months
xxiv.	Companion Alternator (CA-6)	WDP4, WDG4 & WDP4B	Do	Do	200	10	Six months
xxv	DB Grid motor	WDP4, WDG4 & WDP4B	Do	Do	400	20	Six months
xxvi	TM253AZ	YDM4	Do	Do	1600	80	Six months

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	xxvii	TM-GE-761	YDM4A, WDM4	Do	Do	1600	80	Six months
	xxviii	TG-10919AZ	YDM4	Do	Do	3000	150	Six months
	xxix	TG-5GT-40PAI	YDM4A	Do	Do	3000	150	Six months
	xxx	TG-GT740PBI (Canadian GE)	YDM4	Do	Do	3000	150	Six months
	xxxi	Exciter Auxiliary Generator(GM)	YDM4	Do	Do	400	20	Six months
	xxxiii	Crank Case Exhauster Motor	YDM4	Do	Do	200	10	Six months
	xxxiv	Hasler Speedometer	DM2, YDM4	Do	Do	200	20	Six months
14.	Tubes and accessories, Suspension bearing (10 components) For TM 4907 and TM 5002 of ALCo locomotives		As per drawings prepared by BHEL/CGL or by DMW/DLW	STR No. MP.STR. EM.01.01.12		125 sets	15sets	Six months
<b>Electrical Machines (BG ALCo &amp; EMD Locomotive Items)</b>								
15.	Electron Beam Irradiation Cables							
	(A)	Locomotive Power Cable – Sizes AWG # 1 and Larger		EDPS-304		7,000 mtrs	1200 mtrs	Six months
	(B)	Locomotive Insulated Wire – Sizes AWG # 3 and Smaller		EDPS-179		25000 mtrs	4000 mtrs	Six months
<b>Electrical Control Items</b>								
16.	Low Maintenance lead acid Batteries for Diesel Electric loco engine starting application (8 V, 500 Ah lead acid)			DEL/SPN/193		200	8 (One loco set)	One year

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17.	AC-AC Traction Control System for 4500 HP HHP Diesel-Electric Locomotives		MP.0.2400.43	10 loco sets for 12 months & minimum life proving criteria 2 loco sets for 24 months (Also see Rly. Board's letter no. 2007/M(L)/466/ 5(402) dt. 14.10.09)	10 loco sets (Also see Rly. Board's letter no. 2007/M(L)/466/5 (402) dt. 14.10.09)	Six months
18.	Micro controller based Electronic Speed indicating and Recording system for Railway application		MP.0.3700.07	50	3	One year
19.	Auxiliary Power Unit for HHP Locomotives	--	MP.0.2400.64*****	25 Loco Sets	3 Loco Sets	One year
20.	Automatic Control of Engine Stop with Auxiliary Power Unit-ACES with APU for Alco locomotives		MP.0.2400.62*****	25 Loco Sets	3 Loco Sets	One year
21.	Remote Monitoring and Management of Locomotive and Trains	--	MP.0.0402.04 ****	25 Loco Sets	5 Loco Sets	One year
<b>Brake Items</b>						
22.	Pressure gauge & air flow indicator ALCo & HHP Diesel & Electric Locomotive					
(A)	4" Single Air Pressure Gauge for diesel Locomotives application	DLW Part no. 11445490	STR No. MP.STR.BK.01.01.19	25	3	One year
(B)	Gauge Complex with Air Flow Indicator, HHP Locomotives	EMD Pt No. 10631881 / DLW Pt No. 17452508	MP.0.01.00.32	50	5	One year

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23.	Air Dryer, ALCO, HHP & Electric locomotives and EMUs/DEMUs/MEMUs		Spec. no. MP.0.01.00.06; STR no. MP.STR. BK.01.06.11.	25	5	One Year
24.	Composition Brake Block, ALCO, HHP Diesel & Electric Locomotives					
(A)	'L' Type Composition Brake Block, ALCo & Electric Locomotives	SK.DP-3650	MP.0.01.00.04	5000	750	One year
(B)	High Friction Composition Brake Block, HHP locomotives	SK-DP 3630	MP.0.0100.10	2400	150	One Year
25.	Brake equipments, ALCo & Electric locomotives					
S.No.	Description	Drg. No.	Specn. No.			
		WABCO PC No.	WABCO Test Spec. No.			
(A)						
i.	A-9 Auto brake valve	564140	T-2559-0	100	5	One year
ii.	SA-9 Ind. Brake valve	564141	T-2555-0	100	5	One year
iii.	C-2W relay valve with 5mm choke	579991	T-3439-0	50	5	One year
iv.	C-2W relay valve with 6mm choke	579991	T-3439-0	50	5	One year
v.	F-1 selector valve	557995	T-2428-0	50	5	One year
vi.	MU-2B valve	564144	T-2655-0	50	5	One year
vii.	C3W Distributor valve with control reservoirs	1903971308		50	5	One year
viii.	24A-Double check valve	560504	T-2447-0	100	5	One year
(B)						
1.	D-1 Emergency brake valve	564786, SKDP-3573	T-3267-0, MP.0.01.00.13	100	5	One year

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	2.	J-1 Safety valve	558296, SKDP-3580	T-2463-0 MP.0.01.00.14	50	5	One year
	3.	N-1 Reducing valve	552238, SKDP-3582	T-1605-0 MP.0.01.00.15	50	5	One year
26.		Microprocessor controlled Air Brake System / Modular Microprocessor controlled Air Brake System with advanced features		MP.0.01.00.20, MP.0.01.00.24,	25	1	Two years
27.		Water cooled Air Compressor for HHP Diesel Locomotives	SK.DP-3842	MP-0.07.00.14	25	2	Two years
28.		Rubber components, Air brake, ALCO locomotives - IRS-R48-88 & WABCO spec for WABCO Licensees					
	i.	`O' Rings	SK.DP-3031		500	50	One year
	ii.	Port Gasket (C2W)	SK.DP-3033		500	50	One year
	iii.	Gasket (F-1 Selector Valve)	SK.DP-3036		500	50	One year
	iv.	Check Valve (D-1 Brake Valve)	SK.DP-3041		500	50	One year
	v.	Seal (D-1 Emergency)	SK.DP-3042		500	50	One year
	vi.	Seal with insert (D-1 Emergency, A9, C2W)	SK.DP-3044		500	50	One year
	vii.	Pipe Bracket Gasket for C2W	SK.DP-3047		500	50	One year
	viii.	Diaphragm (A9, SA9, HS4)	SK.DP-3052		500	50	One year
	ix.	Diaphragm (C2W)	SK.DP-3053		500	50	One year
	x.	Pipe Bracket Gasket (A9 & SA9)	SK.DP-3056		500	50	One year
	xi.	Gasket (F-1 Selector Valve)	SK.DP-3057		500	50	One year
	xii.	Pipe Bracket Gasket (MU2B)	SK.DP-3058		500	50	One year
	xiii.	Gasket Bottom Cover (F-1 Selector Valve)	SK.DP-3059		500	50	One year

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	xiv.	Piston Head Disc (WDM2 Loco)	SK.DP-3061		500	50	One year
	xv.	Piston Head Disc (YDM4 Loco)	SK.DP-3062		500	50	One year
29.		Modified Hand Brake Assembly	SKDP-3947 for Alco locos SKDP-4089 for EMD locos SKEL-4993 for Electric Locos		100 nos.	10 nos.	Six months
30.		Air flow measuring Valve and Air flow Indicator, ALCo & Electric locomotives					
		Air Flow Measuring Valve	SK-DP-2705	MP-1412/88	50	5	One year
		Air Flow Indicator	WABCO Drg.No.C-76488, Diesel Loco SK-DP-3523 & 3533, Electric Loco SK.DP- 3510 & 3518	MP-1412/88 RDSO Insp. Plan No. MP: TP-14	50	5	One year
31.		Other Brake equipments, ALCo, HHP & Electric Locomotives					
	(A)	Auto drain Valve, ALCo, EMD and Electric Locomotives		MP.0.01.00.26	100	5	One year
	(B)	Feed Valve, ALCo, EMD and Electric Locomotives:			50	5	One year
	(C)	Valve Emergency Brake for HHP locomotives	DLW drg. No. / Pt. no. 8136987 / 17390187	-	100	5	One year

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32.	Brake Interface Unit (BIU) for Train Collision Avoiding System and Distributed Power Control system for diesel locomotives fitted with IRAB class of brake system	Nil	MP.0.01.00.31	15	5	Six months
<b>Bogie Items</b>						
33.	Fabricated Bogie Frame & Bolster assembly for locomotives	-	Spec. no. VL.Spec-6/ STR no. MP. STR- VL-02.02.11.	40	1 Loco set	One year
34.	Rubber to metal bonded bushings for HHP Locomotives					
(A)	Motor Nose Link Bushing for HHP locomotives	EMD Pt No. 40076633 / DLW Pt No 17452259.		120	3 loco sets	One year
(B)	Bushing Rubber for HHP locomotives	EMD Pt No 40076807 / DLW Pt No 17452200		50	3 loco sets	One year
(C)	Bushing Traction Rod for HHP locomotives	EMD Pt No 40036366 / DLW Pt No 17452211		300	3 loco sets	One year
35.	Centre Pivot Block Assembly	RDSO Drg. No SK.VL-501 (item no.2) /DLW Pt. no. 11276332		13 loco sets	3 loco sets	One year
36.	Hydraulic Dampers for locomotives					

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	(A)	Hydraulic dampers for conventional locomotives except WDM3D (with equaliser-less bogie) locomotives	SK.VL-295, SK.VL-328, SK.VL-471	MP.0.49.00.16	150	3 loco sets	One year
	(B)	Hydraulic dampers for WDM3D (with equalizer-less bogie) locomotives	SK.VL-387	MP.0.40.99.03	150	3 loco sets	One year
	(C)	Primary Vertical Damper for HHP locomotives	SK.VL- 484	MP.0.40.99.03	150	3 loco sets	One year
	(D)	Secondary Yaw Damper for HHP locomotives	SK.VL- 484	MP.0.40.99.03	50	3 loco sets	One year
37.		Centre Pivot Liner for Locomotives	SK.DL-3255, SK.VL-472	Spec. no. MP.0.40.99.02, STR no. MP.STR.VL.04.09.11	75	5 loco set	One Year
38.		Spring – Single Coil for HHP locomotives					
	a)	Spring-Single coil for WDG4/WDM3D (With equaliser less bogie) locomotives	RDSO Drg. No SK.VL-750 / EMD Pt No. 40075318 / DLW Pt No.17410060		300	5 loco sets	One year
	b)	Spring-Single coil for WDP4 locomotives	RDSO Drg. No SK.VL-751 / EMD Pt No. 40090911 / DLW Pt No.17410101		300		
	c)	Spring-Single Coil for WDG4D locomotive	RDSO Drg. No SK.VL-755 / DLW Part no. 17410137		300		
39.		Rubber Spring Assembly for HHP locomotives					

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	(A)	Rubber Spring Assembly for WDG4 locomotives	EMD Pt No. 40075328 / DLW Pt No. 17020293		100	5 loco sets	One year
	(B)	Rubber Spring Assembly–A & B for WDP4 locomotive	A- EMD Pt No. 40090677 / DLW Pt No. 17021121		100	5 loco sets	One year
			B- EMD Pt No. 40090678 / DLW Pt No. 17021133				
40.		Thermoplastic polyurethane Spring Pads (Happy Pad) for locomotives		MP.0.40.99.01	600	5 loco sets	One year
41.		Truck Frame Assembly for HHP locomotives	EMD Pt No 40074880 / DLW Pt No 17020189		25	1 loco set	One year
42.		Half Cylinder Wear for HHP locomotives	RDSO Drg. No. SK.VL-705, EMD Pt No 40075177/ DLW Pt No 17453458	Spec no. MP.0.40.99.02, STR no. MP.STR.VL.04.09.1 1	50	3 loco sets	One year
<b>Under-frame Items</b>							
43.		Buffer Assembly, Side, High capacity, Long Life					
	(A)	Buffer Assembly, Side, high capacity, Long Life	SK.DL-4561, SK.DL-4725, SK.DL-4748.	MP.0.41.00.03	15 loco sets	12 (3 loco sets)	One year
	(B)	Spring Pads Assembly, Side Buffer, Long life	SK.DL-4726	MP.0.41.00.07	15 loco sets	12 (3 loco sets)	One year

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	(C)	Spring Rubber, Buffer	SK-DL- 4565	MP.0.41.00.04	15 loco sets	48 (3 loco sets)	One year
44.		Coupler Assembly for ALCo, HHP Deisel Locomotives & Electric Locomotives					
	(A)	Coupler Assembly, H type Tight lock for ALCo / Electric / HHP Passenger Locomotives	SK DL-4800 & SK DL-4801	MP.0.41.00.05	15 loco sets	06 (3 loco sets)	One year
	(B)	Coupler E-type for EMD locomotives	EMD Pt Nos. 10632625 & 10661402 / DLW Pt Nos. 17451103 & 17454505	Spec. no. 56-BD-07, STR no. QMS-10:2015	15 loco sets	06 (3 loco sets)	One year
45.		Draft Gear assembly for Alco HHP Diesel Locomotive & Electric Locomotive					
	(A)	Draft Gear Soft with Yoke Assembly		MP.0.41.00.06	15 loco sets	06 (3 loco sets)	One year
	(B)	Draft gear with Yoke assembly for EMD locomotives	EMD Pt Nos. 8420236 & 8439090 / DLW Pt Nos. 17451115 & 17454530		15 loco sets	06 (3 loco sets)	One year

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## Annexure-2

### QUALIFYING QUANTITY AND QUALIFYING PERIOD FOR ANNEXURE ITEMS OF VENDOR DIRECTORY

S.N.	Description	EMD / DLW / Firm's Pt. no. / Drawing No.	Specification No.	Qualifying quantity & Period for approval for RDSO vendor for developmental order	
				Qualifying Quantity	Qualifying Period
1.	Main Bearing, Thrust (Steel Backed) Anti – Friction Metal Lined Thrust Bearing (Gen. End Upper) for ALCo locomotives	DLW Pt. no. 10150031	31PD 5703	3 (3 loco sets)	One year
2.	Disposable car body filters with built-in louvers and casing				
(A)	Disposable car body filters with built-in louvers and casing For WDG3A, WDM3B, WDM3D and WDM3A locomotives	RDSO Drg. No. SKDP-4109, SKDP- 4110	RDSO Spec. No. MP.0.2600-28	5 loco sets	Six months
(B)	Disposable car body filters with built-in louvers and casing For WDM2 locomotives	RDSO Drg. No. SKDP-4111, SKDP-4112			
3.	Bearings, traction alternator for EMD locomotive	EMD Pt No. 9549071		3 nos.	Six months
4.	Alternator Traction with Auxiliary Machines and their sub-assemblies for Broad Gauge Diesel Electric ALCO Locomotives		MP.0.2402.19		
(A)	Traction Alternator with Auxiliary Machines and their sub-assemblies for 3100HP and 3300HP ALCO Locomotives			3 nos.	One year
(B)	Traction Alternator with Auxiliary Machines and their sub-assemblies for 1400HP and 2300HP ALCO Locomotives.			5 nos.	Six months
5.	Traction motor Bellows- (Leather), for ALCo locomotives				
	For BG locos		MP.0.2400.25	15 nos.	Six months
	For MG locos		MP.0.2400.29	15 nos.	Six months

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6.	Film Polyimide (Kapton / Apical film or equivalent)	As per manufacturer's data sheet		15 kg	Six months
7.	Motor Magnet Frame (machined), DC Traction for ALCo			15 Motor Sets	Six months
8.	Papers Nomex, Untreated of all grades	As per manufacturer's data sheet		18 kg	Six months
9.	Resins & Varnishes for Traction Machines used on Diesel Electric Locomotives		As per MPMI No. 153/92		
	Mica bonding for insulating tapes—4.5 x 6 = 27kg			70 kg	Six months
	Mica bonding for V - cone & segment--0.5 x 6 = 03 kg			8 kg	Six months
	Laminating and coil moulding— 2.5 x 6 = 15 Kg			40 kg	Six months
	Putty for application behind commutator riser-2.5x 6 =15Kg			40 kg	Six months
	Putty/compound between split field coils and gaps at lead/coil turns— 2 x 6 = 12 Kg			30 kg	Six months
	Impregnating (solvent less) varnish— 20x6=120 Kg			300 kg	Six months
	Impregnating (solvent less) varnish for Aux. M/cs--- -07x2 =14 Kg			35 kg	Six months
	Anti-tracking (finishing) Varnish---3 x 6 = 18 Kg			45 kg	Six months
	Anti-tracking (finishing) Varnish for AGs ---2.8 x 2 = 5.6 Kg			15 kg	Six months
	Epoxy based potting compound for field coils of TM 4601&4603 =6 x 6 = 36 Kg			90 kg	Six months
10.	Nickel Cadmium Starter batteries for Diesel Locomotives (6V, 150AH Ni Cd Storage Unit)		MP.0.51.01.02	10 (One loco set)	One year
11.	Microprocessor based Control system with Automatic Flasher Light Control, Multi-Setting Vigilance Control & Event Recorder for Diesel Electric locomotives (ALCO)		MP.0.2400.26	2	One year

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12.	Microcontroller based Event Recorder used on EMD Locomotive			MP.0.3700.12	3	One year
13.	Governors MCBG Micro-controller based for ALCo/ DLW/ DMW					
	(A)	Micro controller based governor (MCBG) for Application on ALCo/DLW/DMW 16 cylinder 251series D- E Locomotives		MP.0.1700.01	2	One year
	(B)	Micro controller based governor (MCBG) for Application on Micro- processor Controlled ALCo / DLW 6 cylinder 251 series WDS6 D- E Locomotives		MP.0.1700.04	2	One year
14.	Distributed Power Control System for HHP Locomotives			MP.0.0400.02 **	04 loco sets (Rly. Board Itr No. 2007/ M(L)/466/5(402) dt. 14.10.09)	Six months
15.	Distributed Power Control System for Alco Locomotives			MP.0.0400.02 **	04 loco sets (Rly. Board Itr No. 2007/ M(L)/466/5(402) dt. 14.10.09)	Six months
16.	Compact (Tri-plate) type IRAB-1 pure air brake and 28 LAV-1 dual brake panel for diesel Locomotives			MP.0.01.00.19	5	Two year
17.	Air Compressor (Enhanced reliability and M-24 schedule), ALCO Locomotives			MP.0.0700.13	3	Two year
18.	Spares for compressor / expessor, ALCO Locomotives					
	(A)	1 Oil seal (compressor)	ELGI pt no. 000470500 / KPC pt no. 0965011050 RDSO Drg. no. SKDP-3626		5	Two Year

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	2	Piston- Diameter 140mm	ELGI pt no. 00021858c / KPC pt no. 0960150250	MP.0.0700.03	3	Two Year
	3	Lube oil pump (gear driven type)	ELGI pt no. 07030011A / KPC pt no. 0960181650 RDSO Drg. no. SKDP-3442		3	Two Year
	(B)	Coolers (copper tube fin type cooling core with MS headers)				
		Inter cooler for expessor/ compressor	ELGI pt no. 070402560 & 00044726A / KPC pt no.0960171950		5	Two Year
	(C)	Coolers (copper tube fin type cooling core with MS headers)				
		After cooler for compressor	ELGI pt no. A070053 / KPC pt no. 0965031250		5	Two Year
	(D)	Face type Oil seal assembly with mating ring (Expressor)-	ELGI pt no. 000470300 / KPC pt no. 0950137200	SKDP-4072	5	Two Year
	(E)	Piston- Diameter 197mm	ELGI pt no. 000112040 / KPC pt no. 0950140150		5	Two Year

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19.	Spares Upgraded for compressor / expressor, ALCO Locomotives					
	1	Air suction filter	ELGI Pt. no. 070305120 / KPC Drg.No. 096.01.710.50		5	One Year
	2	Cylinders/Liners				
		a) Diameter 197mm	ELGI Pt. no. 070304780/ KPC Drg.No.095.00. 404.51		5	Two Year
		b) Diameter 140mm	ELGI Pt. no. 070304800 / KPC Drg.No. 096.01.507.51		3	Two Year
	3	Piston ring set				
		a) Diameter 197mm	ELGI Pt. no. 022401079/ KPC Drg.No. 096.50.450.50		5	Two Year
		b) Diameter 140mm	ELGI Pt. no. 072403489/ KPC Drg.No. 096.50.451.50		3	Two Year
	4	Connecting rod big end bearings				
		Upper half	ELGI Pt. no. 070302180 / KPC Drg.No. 095.00.308.50		5	Two Year

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	Lower half	ELGI Part no. 070302150 KPC Drg.No. 095.00.307.50		5	Two Year
5	Oil strainers / screens	ELGI Part no. 070402560 & 00044726A KPC Drg.No. 095.01.556.50		3	One Year
6	Suction unloader Assembly	ELGI Part no. A070073 KPC Drg.No. 096.00.563.50		5	Two Year
7	Discharge Valve assembly	ELGI Part no. A070071 KPC Drg.No. 096.50.433.50		5	Two Year
8	Inlet Valve assembly	ELGI Part no. A070072 , KPC Drg.No. 096.50.432.50		5	Two Year
20.	Air flow Indicator for microprocessor controlled brake on ALCo locomotives	SKDP -3933	MP.0.01.00.33	5	One year
21.	Alternator-Rectifier Traction for HHP locomotives	EMD Pt No. 40070737 for alternator & 40027895 for rectifier / DLW Pt No. 18020010 for alternator & 18021554 for rectifier		10 nos. (Also see Rly. Board's letter no. 2007/M(L)/466/5(402) dt. 14.10.09)	One year

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22.	Rectifier Bank Assembly for HHP Locomotives	EMD Part No 40027895, DLW Part No 18021554 or equivalent, Drawing No. 40027892-D	ETI-377, EDPS-314	20 nos. (10 pairs) (Also see Rly. Board's letter no. 2007/M(L)/466/5(402) dt. 14.10.09)	One year
23.	Flame Retardant 200°C Fluoroelastomer Insulated Main Lead & Brush Gear Cables used in Traction Motors of Diesel Electric Locomotives		MP.0.52.00.08	15 Motors Sets (4 nos. cables either 150 mm <sup>2</sup> or 200 mm <sup>2</sup> taken as one motor set)	Six months
24.	Kapton Covered Copper Conductor for Traction Machines		MP-0-2400.24	1650 kgs	Six months
25.	Glass tape, Silicon elastomer	As per manufacturer's data sheet or spec. prepared by OEM DLW		300 mtrs. / 15 motors	6 months
26.	Motor Armature, DC Traction for ALCo			15 Motor Sets	Six months
27.	Motor Commutator, DC Traction for ALCo			15 Motor Sets	Six months
28.	Motor Commutating Field Coils assembly, DC Traction for ALCo			15 Motor Sets	Six months
29.	Motor Main Field Coils assembly, DC traction for ALCo			15 Motor Sets	Six months
30.	Alternator-mounted Rectifier Assembly for AC/DC Diesel Electric Locomotives		MP.0.2402.20	Rectifiers complete- 3 nos. Diodes- 108 nos.	Six months
31.	Tape, Kapton adhesive	As per manufacture's data sheet or spec. prepared by OEM / DMW		5250 m / 15 motors	Six months

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32.	Class 200 Resin-Pre-impregnated Semi-Cured Unidirectional Polyglass Banding Tapes used on Traction Machines (TG/TM/AG) of Diesel Electric Locomotives And DEMUs		MP.0.24.00.23	7500 m/ 15 motors	Six months
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**Note:** \* The qualifying period (Up-gradation to approved vendors) for these items shall be with 18 months field trial.

\*\* These specifications are under revision.

\*\*\* As per clause 17.0 of spec, Extensive field trials shall be carried out on one or two proto types or as decided by IR. The proto type shall be subjected to at least 6 months before clearance is given for bulk supply.

This unit is combination of various important sub assemblies consisting of engine, alternator and compressor, battery charger, etc and in itself a mini power plant. It is felt that the performance of at least five APU sets should be watched for one year to establish the product reliability.

\*\*\*\* REMMLOT involves two major systems Viz, LRMS and LTMS, which need to be integrated and data has to be effectively formatted with user friendly software. The needs software configuration and various iterations to ensure effectiveness and online data availability. Hence, it is felt that the performance need to be watched for one year on 10 units.

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