

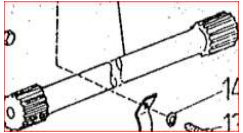
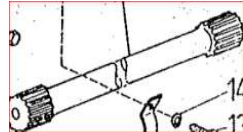



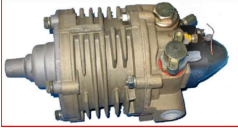
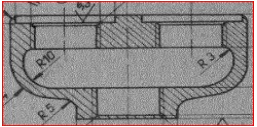

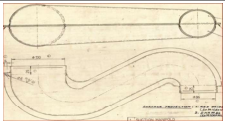




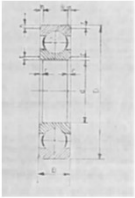
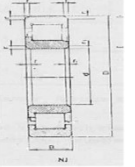
LIST OF ITEMS FOR DEVELOPMENT UNDER MAKE-II PROCEDURE -(PHASE-IV)

Cumulative SI.No	Business Group	Division	Part Number	Description	Approx. Annual Qty. Reqmnt	UoM	Brief Specifications	Photograph
1236	Defence	Palakkad	442075575114	CROSS MEMBER ASSY	25	Nos	TECHNICAL SPECIFICATION: Load bearing item connected with backbone tube to chassis Fe 540B, Structural steel Sheet metal Size: 1040x500x10mm Weight :32.5 kg	
1237	Defence	Palakkad	4436210190	TELESCOPIC DAMPER	25	Nos	TECHNICAL SPECIFICATION: Absorbs shocks transmitted from wheels to frame and provide cushioning effect. sheetmetal/fabrication item Extended length :652± 3mm Contracted length 412±3 mm Weight : 5kg	
1238	Defence	Palakkad	442028660474	TORSION BAR LH	25	Nos	TECHNICAL SPECIFICATION: Load bearing Front Axle suspension Item Rolled bar Size:1900xØ80mm Weight :15 kg Approx	
1239	Defence	Palakkad	442028660464	TORSION BAR RH	25	Nos	TECHNICAL SPECIFICATION: Load bearing Front Axle suspension Item Rolled bar Size:1900xØ80mm Weight :15 kg Approx	
1240	Defence	Palakkad	443612280001	CONTROL VALVE	25	Nos	TECHNICAL SPECIFICATION: Regulates and Controls Air supply for brake application. MEDIUM : COMPRESSED AIR BODY : CASTING OPERATING PRESSURE : 8 BAR WORKING TEMPERATURE : -40°to 80°C	
1241	Defence	Palakkad	443612386806	COUPLING HEAD	25	Nos	TECHNICAL SPECIFICATION: Coupling element serves for functioning of Trailer brake with Hose connections Casting with Rubber packing Dimensions : 130x60x90 Operating Medium: AIR	

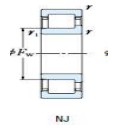
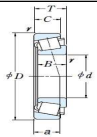
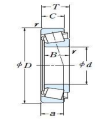
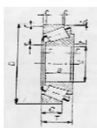
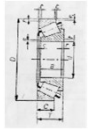

LIST OF ITEMS FOR DEVELOPMENT UNDER MAKE-II PROCEDURE -(PHASE-IV)

Cumulative SI.No	Business Group	Division	Part Number	Description	Approx. Annual Qty. Reqrmnt	UoM	Brief Specifications	Photograph
1242	Defence	Palakkad	443612386806	HEAD COUPLING	25	Nos	TECHNICAL SPECIFICATION: Coupling element serves for functioning of Trailer brake Casting with Rubber packing Dimensions : 130x60x90 Operating Medium: AIR	
1243	Defence	Palakkad	443612015807	AIR PRESSURE GOVERNOR	25	Nos	TECHNICAL SPECIFICATION: Maintains the operating Air pressure for tyre inflator, safety valve . Medium: Compressed Air Body : Casting Relief valve Setting Pressure:980±100kpa (10±1KP/cm2) Working Temperature : -40°to60°C Internal threading for connection fitting:M22x1.5mm	
1244	Defence	Palakkad	442026120014	CONNECTING CHAMBER	25	Nos	TECHNICAL SPECIFICATION: Casting Item ,connecting component of Pneumatic line Material : White Heart Malleable Iron Casting, Gr-WM410,IS:2107-77 Dimensions: 90x43x35mm	
1245	Defence	Palakkad	443621015010	DAMPER P50x225	25	Nos	TECHNICAL SPECIFICATION: Absorbs shocks transmitted from wheels to frame and provide cushioning effect. sheetmetal/fabrication item Weight : 5kg Extended length :675± 3mm Contracted length 437±2/3 mm	
1246	Defence	Palakkad	130070332264	SUCTION MANIFOLD ASSY	25	Nos	TECHNICAL SPECIFICATION: Suction Tube item connecting to Air cylinder with spot welding Assembling. sheetmetal/fabrication item(Flame/ Spot welding) Air tight at Pressure :0.01Mpa Material : Gr-EDD,IS:513-94 DimensionsL:550x190x110mm	




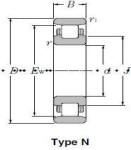
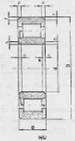
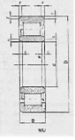
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Cumulative SI.No	Business Group	Division	Part Number	Description	Approx. Annual Qty. Reqrmnt	UoM	Brief Specifications	Photograph
1247	Defence	Palakkad	443857019012	SOCKET	25	Nos	<p>TECHNICAL SPECIFICATION: Seven pole socket - N-Type Mounting hole pitch: 74.6 mm Electrical configuration: 24 V No of poles : 7 Pins : Dia6.4mm (01 No), Dia 4.8mm (6Nos) Std:- Electrical connection: 1.Common Return Lead 2. Rear left out line, tail light, & registration plate. 3.Left directional indicator 4. brake light 5.right directional indicator 6. . Rear right out line, tail light, & registration plate. 7.Unoccupied</p>	
1248	Defence	Palakkad	443857085012	7-POLE SOCKET	25	Nos	<p>TECHNICAL SPECIFICATION: Seven pole socket - S-Type Mounting hole pitch: 74.6 mm Electrical configuration: 24 V No of poles : 7 Pins : Dia8.3mm (01 No), Dia 4.8mm (6Nos) Std:- Electrical connection: 1.Common Return Line 2. not connected 3.Reverse light 4. current supply 5.checking connection (trailer) 6. additional current supply 7.rear fog light</p>	
1249	Defence	H&P	112162200103	BALL BEARING	25	Nos	<p>BALL BEARING 6220AC3 CSN 02 4630 Single row deep groove ball bearing ZKL-6220A d=100 mm, D= 180 mm</p>	
1250	Defence	H&P	112422200503	ROLLER BEARING	25	Nos	<p>ROLLER BEARING NJ 220 B C3 CSN 02 4670 ROLLER BEARING NTN NJ 220C3/NSK NJ 220C3 d=100 mm, D= 180 mm</p>	






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1251	Defence	H&P	112428092003	ROLLER BEARING	25	Nos	ROLLER BEARING NTN NJ2309EC3/NSK NJ2309EC3/SKF NJ2309EC3 d=45 mm, D= 100 mm	
1252	Defence	H&P	112712100100	TAPERED ROLLER BRG.	25	Nos	TAPERED ROLLER BRG.30210A CSN 02 4720 TAPPER ROLLER BEARING NTN 4T 30210/ NSK HR 30210J d=50 mm, D= 90 mm	
1253	Defence	H&P	112712140100	TAPERED ROLLER BRG.	25	Nos	TAPERED ROLLER BRG.30214A CSN 02 4720 TAPERED ROLLER BEARING NTN 32314/ NSK HR 30214J/ SKF 30214 d=70 mm, D= 125 mm	
1254	Defence	H&P	112717180100	TAPERED ROLLER BRG.	25	Nos	TAPERED ROLLER BRG.32218A CSN 02 4720 TAPERED ROLLER BEARING NTN 32218U/ NSK HR 32018J d=90 mm, D= 160 mm	
1255	Defence	H&P	112717200100	TAPERED ROLLER BRG.	25	Nos	TAPERED ROLLER BRG.32220A CSN 02 4720 TSPERED ROLLER BEARING TIMKEN 32220 d=100 mm, D= 180 mm	
1256	Defence	H&P	112718100500	TAPERED ROLLER BRG	25	Nos	TAPERED ROLLER BRG NSK HR32310CJ/SKF 32310B d=50 mm, D= 110 mm	


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Cumulative SI.No	Business Group	Division	Part Number	Description	Approx. Annual Qty. Reqmnt	UoM	Brief Specifications	Photograph
1257	Defence	H&P	112718120500	TAPERED ROLLER BRG.	25	Nos	TAPERED ROLLER BRG.32312B CSN 02 4720 TAPERED ROLLER BRG. ZKL 32312B/ FAG 32312B d=60 mm, D= 130 mm	
1258	Defence	H&P	112718130100	T.R.BEARING	25	Nos	T.R.BEARING NTN 32313U/ NSK HR 32313J d=65 mm, D= 140 mm	
1259	Defence	H&P	112727152000	TAPER ROLLER BEARING	25	Nos	TAPER ROLLER BEARING 33215	
1260	Defence	H&P	324163174988	BALL BEARING	25	Nos	BALL BEARING 6317 N/P 64 CSN 02 4640 Ball Bearing NTN 6317NC4/ NSK 6317NC4/ SKF 6317NC4 d=85 mm, D= 180 mm	
1261	Defence	H&P	324414101241	ROLLER BEARING	25	Nos	ROLLER BEARING NU 410 BNC3 CSN 02 4670 d=50 mm, D= 100 mm	
1262	Defence	H&P	324417172072	ROLLER BEARING	25	Nos	ROLLER BEARING NU 2217 EN C3 CSN 02 4670Z ROLLER BEARING NTN NU2217ENC3/ NSK NU2217 d=85 mm, D= 150 mm	

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1263	Defence	H&P	111 111 010 000	BUSHING	25	Nos	BUSHING 2015 KU 23 X 20 X 15	
1264	Defence	H&P	112545041000	BEARING	25	Nos	BEARING INA 60X68X46 F85001	
1265	Defence	H&P	112545043000	BEARING	25	Nos	BEARING INA 72X80X46 F87651	
1266	Defence	H&P	112545044000	BEARING	25	Nos	BEARING INA 85X93X55 F90754	
1267	Defence	H&P	112545052000	BEARING	25	Nos	BEARING INA 55X63X32 F92414	

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1268	Defence	H&P	112545042000	BEARING	25	Nos	BEARING INAK 65 X 73 X 3	
1269	Defence	H&P	112545045000	BEARING	25	Nos	BEARING IOK 100X107X21	