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Sm-18

TM/HM/UTV/PL.III

Date: 04-02-2019

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  11. पूर्व मध्य रेलवे, हाजीपुर-844 101
  12. दक्षिण पश्चिम रेलवे, हुबली-580 023
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  14. पूर्वी तट रेलवे, भुवनेश्वर-751 001
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Garden Reach, S E R, Kolkata-700 043.  
Churchgate, W R, Mumbai-400 020  
N W R, Jaipur-302 001.  
E C R, Hazipur-844 101  
SWR, Hubli-580 023  
NCR, Allahabad-211 015  
East Coast Rly, Bhubaneswar-751 001  
WCR, Jabalpur-482 001  
South East Central Rly, Bilaspur-495 004

**विषय Utility Track vehicle (Trident) की Critical Spares Parts List**  
**Sub: Critical Spares Parts List for Utility Track vehicle (Trident)**

Utility Track vehicle (Trident) की Critical Spares Parts List का अंतिम पत्र सं. टीएम/एच/एम/यूटीवी/प्ल.आई. दि. 18.12.2018 द्वारा जारी किया गया था, परन्तु क्षेत्रीय रेलवे से कोई टिप्पणी प्राप्त नहीं हुई अब Critical Spares Parts List को तैयार करने की प्रक्रिया पूर्ण हो जा चुकी है। जिसकी प्रति आपके सूचनाार्थ तथा मशीन के कर्मचारियों जो फोल्ड में काम कर रहे हैं के मार्गदर्शन हेतु संलग्न है। यद्यपि सम्बन्धित लक्ष्य बनाते समय सभी सावधानियाँ बरती गई हैं कि भी यदि कोई त्रुटि हो तो आपका अपने सुझावों/ टिप्पणियों को सुधार हेतु ई-मेल/ फैक्स/ पत्राचार द्वारा अपेक्षित करने के लिए।

Provisional Critical Spares Parts List for Utility Track vehicle (Trident) has been circulated vide letter no. TM/HM/UTV pt III dt 18-12-2018, but no comments received from Zonal Railways. Now procedure of preparation for Critical Spares Parts List is completed. A copy of the same is enclosed herewith for your information and guidance of the machine staff working in the field. However every care has been taken during revision of the above said list, the discrepancy noticed, if any, may be brought to the knowledge of the undersigned for further improvement by email/fax/post.

DA: As above

*(Signature)*  
4-3-19  
(अ. प्रकाश)

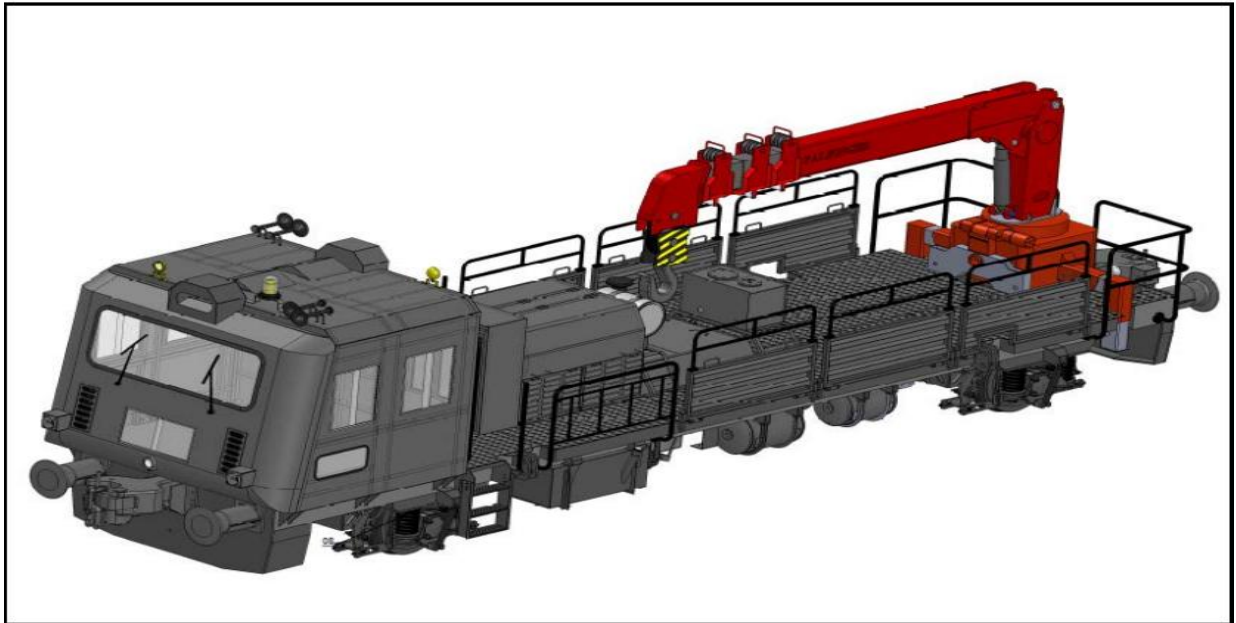
निदेशक रेलमय मशीन -III



भारत सरकार  
रेल मंत्रालय

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS

## CRITICAL SPARES OF TRACK MACHINES UTV-TRIDENT



Feburary -2019

अनुसंधान अभिकल्प और मानक संगठन लखनऊ—226011

RESEARCH DESIGNS & STANDARDS ORGANISATION LUCKNOW- 226 011

## **PREFACE**

For maintenance of any machine, timely availability of spare parts and consumables play an important role. Thus, to keep the machine in sound condition, first and foremost prerequisite is availability of spares and consumables. As there are thousands of items/spares which are required for maintenance of machine, it is very much required to identify critical spares which are vital and in turn, to ensure availability of such spares well within the scheduled time.

In this pursuit a committee was formed which after thorough scrutiny of consumption pattern of spares for different machines had finalized a list of critical spares for different types of tamping machines (CSM 3-X, CSM 09-32, Work Site Tampers, Unimat, Multipurpose tampers) Ballast Cleaning Machines (BCM, FRM), Dynamic Track Stabilizers, PQRS of 'Plasser' make, T-28 of 'Ameca' make and BRM of 'Kershaw' make.

There are a numbers of manufacturers of Utility Track Vehicle (UTV) in IR. On the basis of experience of Track machine working on Indian Railways, list of critical spare parts for M/s TRIDENT make UTV has been prepared. It may be noted that this is the list of spares required for the normal maintenance of UTV-TRIDENT for one year only and does not include the spares required for IOH , POH and other spl. Maintenance. Requirement spare parts for such schedule maintenance (IOH/POH) and emergency maintenance/attention, may be assessed separately on need basis by zonal railways itself

(OM PRAKASH)  
Director Track Machine-III

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SITE - At machine

STMD - Satellite depot

ZTMD - Zonal depot

# UTV-TRIDENT

# ENGINE

S. No	Brief description	Part no.	Nos perM/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
A. Engine (NTA 855 L) 418bhp at 2100 rpm							
1.	Lube oil temp Gauge	TAMC063/ 4071831	2	3	0	0	0.6*
2.	Engine Lube Oil	15W/40	45 lts	0.3	126 lts**	63 lts**	63 lts**
3.	Transmission oil temp Gauge	TAMC065/ 4071831	1	3	0	0	0.3*
4.	Fuel Level Gauge	TAMC026/ LG-1181/4084371	1	3	0	0	0.3*
5.	Transmission oil pressure Gauge	TAMC066/ 4071832	2	3	0	0	0.6*
6.	Radiator water temperature Gauge	TAMC062/ 4071829/ SD-1083	1	3	0	0	0.3*
7.	Lube oil pressure Gauge	TAMC064/ 4071832	1	3	0	0	0.3*
8.	RPM cum Hour Meter	TAMC067/ 2879766	1	3	0	0	0.3*
9.	Battery Charging Indicator	TAMC012/ 3875311	1	3	0	0	0.3*
10.	Digital Tachograph	TAMC020/ ACTIA	1	3	0	0	0.3*
11.	Brake air Pressure & M R Pressure (Duplex Pressure Gauge)	TAMC069/ 30095702	1	3	0	0	0.3*
12.	Parking Brake Pressure Gauge	TAMC070/ 30094201	1	3	0	0	0.3*
13.	Emergency Stop Switch	TAMC025	2	3	0	0	0.6*
14.	Engine self Starter	TAMC004	1	3	0	0	0.3*
15.	Engine Over speed switch with Sensor	TAMC035/500287	1	3	0	0	0.3*

\*Minimum Quantity 1    \*\* 45x4=180+6lts/month is given for top up

## UTV-TRIDENT

## ENGINE

S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
16.	L.O.P bypass Sensor Switch	TAMC032/SD-1089/4071835	1	3	0	0	0.3*
17.	Engine stop Switch	TAMC025	3	3	0	0	1
18.	Fuel Cut off Valve Solenoid -engine	TAMC036/ FV-2019/3043000/3053470	1	3	0	0	0.3*
19.	Alternator	TAMC005/EE-1319/4963471	1	3	0	0	0.3*

\*Minimum Quantity 1

## UTV-TRIDENT

## HYDRAULICS

S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
1.	SPLINE GEAR	TAHL001	1	6	0	0	0.2*
2.	PUMP ADAPTER SHAFT	TAHL002	1	6	0	0	0.2*
3.	CIRCLIP ( INTERNAL )	TAHL003	2	6	0	0	0.3*
4.	CIRCLIP ( EXTERNAL )	TAHL004	1	6	0	0	0.2*
5.	DEEP GROOVE BALL BEARING	TAHL005	1	6	0	0	0.2*
6.	PSI CHECK VALVE ¾" 5	TAHL0 38	1	6	0	0	0.2*
7.	CHECK VALVE ½" 5 PSI	TAHL0 39	2	3	0	0	0.6*
8.	SPACER	TAHL006	1	6	0	0	0.2*
9.	KEY, TH8, W5, L45	TAHL007	1	6	0	0	0.2*
10.	3 Phase Motor-2HP	TAFS046	1	6	0	0	0.2*
11.	RETURN LINE FILTER	TAHL0 41	1	6	0	0	0.2
12.	Filler breather	TAHL053	1	6	0	0	0.2*
13.	SUCTION LINE FILTER ASSEMBLY	TAHL0 43	1	6	0	0	0.2*
14.	Emergency Hydraulic Pump Assly	TAFS049	1	6	0	0	0.2*
15.	GASKET	TAHL010	1	0.5	1	0	1
16.	SHIM	TAHL011	1	6	0	0	0.2*
17.	BEARING RETAINER	TAHL012	1	6	0	0	0.2*
18.	HYDRAULIC HOSE, 1" x L 3300	TAHL0 24R	2	3	0	0	0.6*
19.	HYDRAULIC HOSE, 1" x L 3300	TAHL0 24R	1	6	0	0	0.2*
20.	HYDRAULIC HOSE, 1" x L 3600	TAHL0 25R	1	6	0	0	0.2*
21.	HYDRAULIC HOSE, ¾" x L 1000	TAHL030	1	6	0	0	0.2*
22.	Pressure HOSE, 1" x L 3600	TAHL0 25R	2	3	0	0	0.6*

\*Minimum Quantity 1

## UTV-TRIDENT

## HYDRAULICS

S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
23.	Pressure Crimp Hose 3/8" X4000	TAHL0 26R	2	3	0	0	0.6*
24.	Pressure Crimp Hose 3/4" X1000	TAHL029	1	3	0	0	0.3*
25.	Pressure Crimp Hose 3/4" X1000	TAHL030R	2	3	0	0	0.6*
26.	Pressure Crimp Hose 1/2" X1500	TAHL032	1	3	0	0	0.3*
27.	Pressure Crimp Hose 1/2" X1200	TAHL033R	1	3	0	0	0.3*
28.	Pressure Crimp Hose 3/8" X900 & 1000	TAHL027R	1	3	0	0	0.3*
29.	Pressure Crimp Hose 1" X1200	TAHL029	3	3	0	0	1

\*Minimum Quantity 1



# UTV-TRIDENT

## MECHANICAL

S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
<b>A.</b>	<b>NUTS &amp; BOLTS</b>						
1.	Screw M4 XL 40	TADF009	8	6	2	0	0
2.	Nut , M4 X 0.75	TADF010	8	6	2	0	0
3.	SPECIAL LOCK BOLT ASSLY	TADF008	16	6	3	0	0
4.	Nut , M10 X 1.5	TABR039	16	6	3	0	0
5.	Nut , M24 X 2	TABC005	28	6	3	0	2
6.	Nut , M20 X 1.5	TABR053	16	6	2	0	1
7.	Nut , M12 X 1.5	TABR030	48	6	0	5	10
8.	Nut , M20 X 2.5	TABR018	16	6	0	0	3
9.	Hex Nut (HT) M 30	TACM005	4	6	0	0	0.7*
10.	'Hex Nut 7/16"-14 UNC	TAHL019	2	6	0	0	0.3*
11.	Hex Nut M 10 X 1.5	TATA014	2	6	0	0	0.3*
12.	Hex Nut M16 X 1.5	TADD060	1	6	0	0	0.2*
13.	Check Nut M16	TADD061	1	6	0	0	0.2*
14.	Castle Nut, M40 X 2, W50	TATA003	2	6	0	0	0.3*
15.	Castle Nut, M45 X 2.5, SL10 X 8	TATA012	1	6	0	0	0.2*
16.	Slotted Nut, M16 X 2.5, TH25	TABR036	16	6	0	0	2
17.	Slotted Nut, M20 X 2.5, SLW8, SLH5	TABR065	12	6	0	0	2
18.	BOLTCROSS BAR, M12 X 60	TABR067	32	6	0	0	4
19.	Nut for Adjusting Stud, M16 X 2	TABR017	16	6	2	0	1
20.	Bolt, M10 X 60	TAPP034	12	6	0	0	1
21.	Bolt, M20 X 350	TAWA015	16	6	1	0	2
22.	Bolt 5/8"-11 UNC-2B	TAPP009	4	6	0	0	0.7*
23.	Bolt M20 X 120	TAPP012	4	6	0	0	0.7*

\*Minimum Quantity 1

## UTV-TRIDENT

## MECHANICAL

S. No	Brief description	Part no.	Nos. per M/C	Est. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
24.	NUT M20 NYLOCK	TAPP013	12	6	1	0	1
25.	Bolt M16 X 120	TAPP015	4	6	0	0	0.7*
26.	Bolt M10 X80	TAPP016	16	6	2	0	1
27.	Bolt M12 X 100	TAPP017	16	6	2	0	1
28.	Bolt, M24 X 120	TABC003	28	6	2	0	3
29.	Bolt ½"-13UNC-2B	TAPP021	32	6	2	0	4
30.	Bolt M16 X2.0 L150	TAPP022	32	6	2	0	4
31.	Bolt, M10 X1.5, L 60	TAPP034	8	6	0	0	0.3*
32.	Bolt 7/6"-14 UNC-2B	TAPP037	21	6	2	0	2
33.	Bolt M12 X 75	TABR035	32	6	2	0	4
34.	Bolt M20 X 150	TABR032	16	6	1	0	2
35.	Hex Head Bolt M20X 140 L	TAAD056A	2	6	0	0	03.*
36.	Spring Washer	TABR034	4	6	0	0	0.7*
37.	Hex Head Bolt M 24 X 240	TAAD053	4	6	0	0	0.7*
38.	Hex Head Bolt M 20 X 200	TAAD056	2	6	0	0	03.*
39.	Hex Head Bolt M 12 X 50	TAAD059	11	6	0	0	2
40.	Eye Bolt M 20	TAAD047	4	6	0	0	0.7*
41.	Hex Head Bolt M10 X 75	TADD045D	1	6	0	0	0.2*
42.	Hex Head Bolt M 45 X 2.5, L 200	TATA008	2	6	0	0	0.3*
43.	Hex Head Bolt M 12 X 1.5 X L100	TAPP016	16	6	0	0	0.7*
44.	Hex Head Bolt M10 X 1.5 X L120	TADD086	4	6	0	0	1

\*Minimum Quantity 1

# UTV - TRIDENT

# MECHANICAL

S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
A. WASHER & SCREW							
1.	Spring Washer, D 38, d 23.5, T 2.5	TABR058	4	6	0	0	0.7*
2.	Spring Washer, D 36, d 20.5, T 2.5	TABR057	16	6	1	0	2
3.	Spring washer, D 60, d 40.5, T 3	TABR060	8	6	1	0	0.3*
4.	Spring washer, D 38, d 25.5, T 2.5	TABR059	32	6	2	0	4
5.	Spring washer, D 78, d 40.5, T 3.5	TABR061	10	6	1	0	0.7*
6.	Spring Washer, D 45, d 30.5, T 2.5	TABR062	16	6	1	0	2
7.	Spring Washer, M 12 X2.5	TABR031	16	6	1	0	2
8.	Spring Washer, M10 X 2.5	TABR040	28	6	4	0	1
9.	Spring Washer M12	TASA024	48	6	4	2	2
10.	Spring Washer M20	TABR058	16	6	1	0	2
11.	Spring Washer M10	TASA022	08	6	1	0	0.3*
12.	Spring Washer 7/16"	TAAD032	6	6	0	0	1
13.	Spring Washer 3/8"	TADD067	6	6	0	0	1
14.	Spring Washer B 6	TADD080	3	6	0	0	0.5*
15.	Lock Washer	TAAD023	3	6	0	0	0.5*
16.	Plain Washer 7/16"	TAHL019	2	6	0	0	0.3*
17.	Lower Rubber Washer	TASA009	08	6	1	0	0.3*
18.	Hex Head Screw M8 X 20L	TADD008	12	6	0	0	2
19.	Head Screw M12X 30L	TADD012	33	6	2	2	2
20.	Hex Head Screw M 10X1.5, L 25	TADD030	6	6	0	0	1
21.	Hex Head Screw M8 X 15L	TADD043	4	6	0	0	0.7*

\*Minimum Quantity 1

**UTV - TRIDENT****MECHANICAL**

S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
22.	Hex Head Screw M12 X 25L	TAAD009	6	6	0	0	1
23.	Hex Head Screw M 6 X 15 L	TAAD037	12	6	0	0	2
24.	Hex Head Screw M20 X 70 L	TAAD022	6	6	0	0	1
25.	Hex Head Screw M10 X 55 Long	TADD050	4	6	0	0	0.7*
26.	Hex Head Screw M 6 X 15 L	TAAD043	12	6	0	0	2
27.	Hex Head Screw 3/8"UNC X ¾"	TADD066	6	6	0	0	1
28.	Hex Head Screw M6 X 25L	TADD079	3	6	0	0	0.5*
29.	Hex Head Screw (Special) M20 X 70L	TADD081	1	6	0	0	0.2*
30.	Grub Screw M6 X 6	TADD090	2	6	0	0	0.3*
31.	Grub Screw M20 X 20	TADD096	2	6	0	0	0.3*
32.	Grub Screw M12 X 12	TADD103	1	6	0	0	0.2*
33.	CSK Screw M6 X 15	TADD045C	7	6	1	0	0.2*
34.	Brake shoes	TABR009	8	2	2	0	2

\*Minimum Quantity 1

## UTV-TRIDENT

## ELECTRICAL

S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
1.	Toggle switch crane Light	TAMC029	12	3	0	0	4
2.	Toggle switch LED Light	TAMC028	18	3	0	0	6
3.	Forward/ reverse control switch	TAMC014/ KAYCEE-SRPM-323	1	3	0	0	0.3*
4.	Gear control switch	TAMC015/ KAYCEE-	1	3	0	0	0.3*
5.	Button Emergency stop	TAFS037	1	3	0	0	0.3*
6.	Forward/ neutral Transmission Indicator	TAMC019	6	3	0	0	0.2*
7.	Reverse Transmission Indicator	TAMC018	1	3	0	0	0.3*
8.	Battery Charging Indicator	TAMC012/ 3875311	1	3	0	0	0.3*
9.	Engine Stop S/W	TAMC025	1	6	0	0	0.2*
10.	By Pass S/W	TAMC024/504395	1	6	0	0	0.2*
11.	Ignition Switch	TAMC009/ 504975	1	6	0	0	0.2*
12.	Ampere Meter	TAMC013/ 2880104	1	3	0	0	0.3*
13.	Battery 12V/180 AH	TAMC001	2	3	0	0	0.7*
14.	Panel Main S/W	TAMC008	1	3	0	0	0.3*
15.	Starter Relay	TAMC010	1	3	0	0	0.3*

\*Minimum Quantity 1

## UTV-TRIDENT

## ELECTRICAL

S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
1.	Indicator Green, 24 VDC	TAMC017	3	3	0	0	1
2.	Head Light , 24 VDC	TAMC056	4	3	1	0	0.3*
3.	Search Light , 24 VDC	TAMC057	2	3	0	0	0.7*
4.	MARKER Light , 24 VDC	TAMC059	4	3	0	0	2
5.	Cab. Light , 24 VDC	TAMC038	3	3	0	0	1
6.	Cab. Fan , 24 VDC	TAMC050	2	3	0	0	0.7*
7.	2AMP Wiper Motor , 24 VDC	TACI027	2	3	0	0	0.7*
8.	MCB 16	TAMC007	6	6	0	0	1
9.	MCB 63	TAMC008	1	6	0	0	0.2*
10.	MCB 6	TAMC023	4	6	0	0	0.7*
11.	Engine Lube Oil pressure Sensor	TAMC032 /SD-1089/ 4071835	1	3	0	0	0.3*
12.	High Water Temperature Sensor	TAMC033/SD- 1088/4071834	1	3	0	0	0.3*
13.	Low Water Level Sensor	TAMC034/SD-1083/ 3066463	1	3	0	0	0.3*
14.	Relay 8 Points with Base plate, 24 VDC	TAMC022	1	3	0	0	0.3*
15.	Buzzer 24 VDC	TAMC037	1	3	0	0	0.3*
16.	Digital Tachograph with speed sensor	TAMC020	1	3	0	0	0.3*

\*Minimum Quantity 1

## UTV - TRIDENT

## PNEUMATIC

S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SITE	STMD	ZTMD
1.	Check Valve	TAPS015	2	2	0	0	1
2.	Un-loader Valve	TAPS011	1	2	0	0	0.5*
3.	Auto Drain valve	TAPS010	1	2	0	0	0.5*
4.	J-1 safety Valve	TAPS007	1	2	0	0	0.5*
5.	C-2-W Relay Valve	TAPS006	1	2	0	0	0.5*
6.	'D' Check Valve	TAPS010	1	2	0	0	0.5*
7.	Brake Valve	TAPS023	3	2	1	0	0.5*
8.	Throttle Lever Valve	TAPS024	1	2	0	0	0.5*
9.	Single Solenoid Valve	TAPS148A	1	2	0	0	0.5*
10.	Pressure Reducing Valve	TAPS043	2	2	0	0	1
11.	Pressure Protection Valve (Optional)	TAPS028	1	2	0	0	0.5*
12.	SA-9 Ind. Brake Valve	TAPS005	1	2	0	0	0.5*
13.	HS-4 Control Air Valve	TAPS041	1	2	0	0	0.5*
14.	Check Valve (Flap type)	TAPS040	1	2	0	0	0.5*
15.	VA-VI Controlled Valve	TAPS039	1	2	0	0	0.5*
16.	Dual Air Pressure Gauge	TAPS031	1	6	0	0	0.2*
17.	Shut-off Cock $\frac{3}{4}$ '	TAPS019	1	6	0	0	0.2*
18.	Throttle Cylinder	TAPS027	1	2	0	0	0.5*

\*Minimum Quantity 1

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S. No	Brief description	Part no.	Nos per M/C	Estt. life cycle in Yrs.	Requirement per m/c		
					SIT E	STMD	ZTMD
1.	Horn Actuator	TAPS021	1	4	0	0	0.3*
2.	Low Pressure Switch 4.9 bar NC	TAPS014/ 00192431	1	3	0	0	0.3*
3.	3-Way Magnet Valve 9 optional	TAPS151	1	2	0	0	0.5*
4.	Manifold-5Ports	TAPS147	1	3	0	0	0.3*
5.	Direction Change Cylinder	TAPS149	1	2	0	0	0.5*
6.	Range Selector Cylinder	TAPS150	1	2	0	0	0.5*
7.	Air horn	TAPS021A	1	2	0	0	0.5*
8.	Shut Off cock-1/2"	TAPS020	2	2	0	0	1
9.	Single Solenoid Valve (MFH-1/8")	TAPS148	4	2	0	0	2
10.	Shut-off Cock 3/4'	TAPS017	1	2	0	0	0.5*
11.	Shift Cylinder Solenoid	TAMC015A	4	3	0	0	2
<b>POWER TRANSMISSION</b>							
1.	Cardon Shaft-2	TAPP007	1	6	0	0	0.2*
2.	Cardon Shaft-1	TAPP006	1	6	0	0	0.2*
3.	Air Strainer	TAPS022	1	3	0	0	0.3*
4.	Hex head Bolt (Special)	TATA008	4	6	2	1	0.7*0.
5.	Transmission Position Selector S/W	TAMC019	1	2	0	0	0.5*

\*Minimum Quantity 1



## **ACKNOWLEDGEMENT**

Following officers and staff have made their valuable contributions in finalization of the Maintenance Schedule manual of Utility Track Vehicle (TRIDENT)

### **Railway**

1. S/SRI

### **RDSO**

- |    |       |                |         |
|----|-------|----------------|---------|
| 1. | S/SRI | Muslim Ahmad   | ARE/TM  |
| 2. | " "   | A.N.Srivastava | SSRE/TM |
| 3. | " "   | A.K.Srivastava | SSE/TM  |