

**CATEGORY BOOK 2020-21**  
**FOR 3-PHASE TRACTION MOTOR**  
**PART-I (TYPE 6FRA-6068)**

**NOTE:-**

- 1. STOCKING C&D NOS ARE UNDERLINED.**
- 2. MANUFACTURING SPARES, WIP AND BUFFER ARE TO BE CONSIDERED FOR CALCULATING NPQ.**
- 3. ALWAYS LATEST VERSION OF DRAWINGS/SPECIFICATIONS TO BE FOLLOWED.**

**MATERIAL DEMAND SCHEDULE OF 3-PHASE TRACTION MOTOR TYPE 6 FRA 6068 FOR THE YEAR 2020-21**

SN	TENDER CASE No.	KIT C&D.NO.	C&D.NO	M.C. NO.	DESCRIPTION	DRAWING.NO.	SPECIFICATION. NO./ STR No	QTY./ TM	REMARKS
<b>GROUP- A (FULLY IMPORTED)</b>									
1	176		<u>5712/327</u> 357,377 & 5716/003	29721106 2217 A	<b>POLYIMIDE FOIL (KAPTON), P1 FO 1</b> Size:- 0.125 x 510 mm (IN CONTINOUS ROLL OF 50 m) ABB IDENT NO. GMN 590813 R/P:P9126		HZN - 02575 (D I No.)/ STR No: CLW/TM/176 (Rev.0) or Latest	10 m of width 510 mm	
2	861		<u>5716/060</u>		<b>POLYAMIDE (NOMEX Type- 410) STRIP</b> SIZE:- 0.25 mm Thk. X 9 <sup>+0.02</sup> <sub>-0.4</sub> mm width x 507 ± 0.2 mm long.	4TWD.096.169 Ref.- 3, Alt-1 or Latest	HZN 02239	152 pcs	
3			<u>5712/331</u>	29720898 01 17 A	<b>POLYAMIDE (NOMEX Type- 410) STRIP</b> SIZE:- 0.13 mm Thk. X 8.4 ± 0.05 mm width x 90 ± 0.1 mm long.	4TWD.096.169 Ref.- 1, Alt-1 or Latest	HZN 02239	1134 pcs	
4			<u>5716/023</u>	2972 5100 2217 A	<b>POLYAMIDE PAPER (NOMEX),PAP 1</b> SIZE:- 0.38 X 914 MM (IN CONTINOUS ROLL OF 10 m) ABB IDENT NO. NBT 402852		HZN 02239 (D I No.)/ STR No: CLW/TM/176 (Rev.0) or Latest	0.075 m of width 914 mm	
5	869		<u>5716/054</u>	29721283 01 17 A	<b>POLYAMIDE (NOMEX Type- 410) STRIP</b> (U' Shaped insulation) SIZE:- 5 mil Thk. X 25 ± 1 mm width x 140 ± 1 mm long.	4TWD.096.172 (latest version)	HZN 02239	152 nos.	
6	169		<u>5716/053</u> 5712/331 5712/361 5712/381	2972 1064 2217 A	<b>NON ADHESIVE POLYIMIDE FILM TAPE</b> 2 MIL. THK. X 20 mm WIDE (IN CONTINOUS ROLL OF 50 m)		4TMS.096.029 ALT-2 or Latest STR No: CLW/TM/169 (Rev.0) or Latest	390 m	
7	251		<u>5716/010</u>	29721039 1317C	<b>SILICON IMPREGNATING RESIN</b> SILRES H 62 C or EQUIVALENT ABB IDENT NO. HZN 451560 R/P : P0001			14.3 Kg	
8	252		<u>5716/012</u>	29721192 1317 C	<b>AUXILIARY MATERIAL - 38</b> ABB IDENT NO. HZN 451560 R/P:P0001		HZLK - 605002 (D I No.)	0.26 Kg	
9	257		<u>5716/019</u>	29721209 1317 C	<b>BASIC RESIN SI - 32</b> ABB IDENT NO. HZN 451176		HIFE - 650004 (D I No.)	0.37 Kg	
10			<u>5716/020</u>	29721210 1317 C	<b>ACCELERATOR 27</b>		4TMS 096.016 Latest version	0.01 Kg	

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SN	TENDER CASE No.	KIT C&D.NO.	C&D.NO	M.C. NO.	DESCRIPTION	DRAWING.NO.	SPECIFICATION NO./ STR No	QTY./ TM	REMARKS
11	265		<u>5716/045</u> 5780/011, 5760/600	29720667 1317 C	<b>SILICON RUBBER COMPONENTS ELASTOSIL RT 622 A</b> OF WACKER METROARK CHEMICAL OR EQUIVALENTS		CLW/TM/0265 Rev.0 or latest	4.5 Kg	break up for 1 m/s i) <u>Dow Silicone Make</u> SILASTIC RTV-4250-S =4.545 Kg & Curing Agent =0.455 Kg. ii) <u>Altropole Make</u> Neukasil RTV230 = 2.5 Kg, Neukasil crosslinker A 149 =2.5 Kg.
12			<u>5716/046</u> 5780/011, 5760/600	29720679 1317 C	<b>SILICON RUBBER COMPONENTS ELASTOSIL RT 622 B</b> OF WACKER METROARK CHEMICALS OR EQUIVALENTS		CLW/TM/0265 Rev.0 or latest	0.5 Kg	
13			<u>5716/047</u> 5780/011	29720655 13 17 C	<b>PRIMER G 790</b> OF WACKER MATROARK CHEMICALS OR EQUIVALENT			0.25 Kg.	
14	623		<u>5720/207</u> 5721/328, 5730/304 5740/405	29721246 1317 C	<b>PRIMER PAINT</b>		4TMS.096.019 (latest version) CLW/TM/12210 (latest version)	1 Kg.	
15			<u>5780/065</u>	29721003 1317 C	<b>TOP COATING PAINT</b>		4TMS.096.020 (latest version) CLW/TM/12210 (latest version)	1.6 Kg.	
16			<u>5780/066</u>	29721015 1317 C	<b>HARDENER FOR TOP COATING PAINT</b>		CLW/TM/12210 (latest version)	0.14 Kg	
17			<u>5780/067</u>	29721258 1317 C	<b>THINNER FOR TOP COATING PAINT</b>		CLW/TM/12210 (latest version)	0.75 Kg	Rotor=0.3Kg Comp. Motor=0.45Kg
18	0051	<u>5780/073</u>	5780/049, 5780/050	2903 0020 0317 D	SET OF ROLLER BEARING EACH SET CONSIST OF 01 NO ROLLER BEARING NU 2236 E/C4. 01 NO ROLLER BEARING NJ 320 E/C4. & 01 NO THRUST COLLER HJ 320 E		4TMS.096.065 or Latest	01 SET	

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<b>GROUP- B ( IMPORTED + INDIGENEOUS)</b>									
19	261		<u>5780/052</u>	8098 0545 1317 A	"LUBRACATING GREASE SERVOPLEX SHC - 120 (IOC)"			1.8 Kg (1.5 Kg = 6FRA 6068 & 0.3 Kg = Suspension Tube)	
20	193		<u>5716/052</u> 5712/329, 359,379 5713/029,054 079, 504 5714/505	29720722 2217 C	<b>POLYESTER GLASS SILK TAPE</b> SIZE - 0.09 ± 0.01 mm X 20 mm		ISOSEAL MF 611 OF ISOVOLTA OR EQUIVALENT / STR No: CLW/TM/193 (Rev.0) or Latest	687 m	2307 Sec. = 540 m 2308 Sec. = 147 m
21	171		<u>5712/322</u> 352, 372 & 5713/028 053, 078, 507 & 5714/502, 5716/013	2972 1120 2217 A	<b>MICA GLASS FABRIC TAPE</b> Mi/GI- Gwb 18, SIZE - 0.12 X 15 mm (IN ROLL OF 30 m) ABB Indent No. HZN 451028 R/P No. P 0015		HZN-02354 (D I No) /STR No: CLW/TM/0171 (Rev.1) or Latest	2840 m	
22	263		<u>5716/034</u>	29721090 1317 C	<b>THINNER FOR STATOR WASHING</b>		4TMS.096.030 or Latest CLW/TM/0263(Rev 0) or Latest	10 Kg	2101 Sec. = 5 Kg 2308 Sec. = 5 Kg
23			<u>5712/324</u> 354 & 374	29721131 2217 A	<b>AUTO ADHESIVE TAPE (KAPTON),</b> Selbst KI - F 11, SIZE - 0.07 X 9.5 mm (IN ROLL OF 33 m) ABB IDENT NO. GMN 590755 R/P NO. : P 1090		HZN - 02435 (D I No.) STR No: CLW/TM/173 (Rev.1) or Latest	90 m	SI.No 23.24 & 25 to be dealt together
24	173		<u>5712/325</u> 355, 375 & 5713/502, 027, 052, 077 & 5714/504	29721143 2217 A	<b>AUTO ADHESIVE TAPE (KAPTON),</b> Selbst KI - F 11, SIZE - 0.07 X 19.1 mm (IN ROLL OF 33 m) ABB IDENT NO. GMN 590755 R/P NO. : P 1190			280 m	2307 Sec. = 65 m 2308 Sec. = 215 m
25	173		<u>5712/326</u> 356 & 376	29721155 2217 A	<b>AUTO ADHESIVE TAPE (KAPTON),</b> Selbst KI - F 11, SIZE - 0.076 X 50 mm (IN ROLL OF 33 m) ABB IDENT NO. GMN 590755 R/P NO. : P 1500			45 m	
26	862		<u>5716/015</u> 022 5712/330, 360,380	29721118 2217 A	<b>POLYAMIDE (NOMEX) PA VLIES 1,</b> Size - 2.5 X 1000 mm (IN CONTINUOUS ROLL OF 10 m)		4TMS 096.028 ALT.-1 or Latest STR No. CLW/TM/015 (Rev.1) or Latest	2.75 m of width 1000 mm	

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27	867		<u>5716/005</u>	29721052 2217 A	<b>GLASS FIBRE CORD - 1 Ø 7</b> ABB IDENT NO. GMN 592010 R/P NO. : P 0107		ZN 02035 (DI No.)/ STR No: EL/TM/2066 (latest version)	25.25 m		
28			<u>5716/006</u>	29721260 2217 A	<b>GLASS FIBRE CORD - 1 Ø 11</b> ABB IDENT NO. GMN 592010 R/P NO. : P 0111			5 m		
29	172		<u>5716/051</u>	29720710 2217 C	<b>FLAT HOSE, GI Gefl - 7</b> Size:- 1.6 X 17 mm ABB IDENT NO. HZN - 451141		HIME - 650108 (D I No.)/ STR No: EL/TM/2066 (latest version)	125 m		
30			<u>5716/024</u>	29721088 2217 C	<b>HOSE GI Gefl - 3 (FLAT HOSE)</b> SIZE:- 4 X 22 mm ABB IDENT NO. NBT 401106 R/P : P 0018		HZN - 02350 (D I No.) EL/TM/2066 (latest	1.8 m		
31	56		<u>5760/600</u>	299905520117 A	<b>TEMPERATURE SENSOR ASSLY (COMPLETE) for</b> 3 PHASE TM type 6 FRA 6068 & 6 FXA 7059		4TMS 096.087or Latest STR No: CLW/TM/17320 Rev. 0 or Latest	01 set	TOTAL QTY = 75% OF TOTAL requirement Common to 6FXA 7059	
32	57		<u>5760/650</u>	299406180117 A	<b>COMPLETELY ASSEMBLED TEMPERATURE SENSOR for</b> 3 PHASE TM type 6 FRA 6068		4TMS 096.085 Ref 1 Alt.3 or latest STR No: CLW/TM/17320 Rev. 0 or Latest	01 No.	TOTAL QTY.= 25% OF TOTAL requirement of 6FRA 6068 (Un Common to 6FXA 7059)	
33			<u>5721/333</u>		<b>MOLYCOTE (R) G-N PLUS OF DOW CORNING OR HIGH TEMPERATURE EP GREASE MK-WS2-HT FROM M K IMPEX CANADA</b>			0.05 Kg		
<b>GROUP- C (LONG DELIVERY INDIGENEOUS)</b>										
34	421	<u>5711/301</u>		2994 0450 0317 B	<b>SET OF STATOR &amp; ROTOR STAMPINGS</b> EACH SET CONSISTING OF FOLLOWING FIVE (05) ITEMS		STR NO. CLW/TM/0421/STATOR & ROTOR STAMPINGS/ALT- 2 or Latest	01 SET		
					i) STATOR MAIN STAMPINGS	1TWD.096.015. Alt.-6 Ref 1 or Latest	4TMS 096 053 Rev-2. Alt.- 5 or Latest			
					ii) SOLID STATOR END PLATE	SKEL-4889 (latest version)				
					iii) ROTOR MAIN STAMPINGS	1TWD.096.010. Alt.-9. Ref 1	4TMS 096 053 Rev-2. Alt.- 5 or Latest			
					iv) ROTOR MID STAMPINGS	1TWD 096.010. Alt.9. Ref 2	4TMS 096 053 Rev-2. Alt.- 5 or Latest			
					v) SOLID ROTOR END PLATE	SKEL-4890 (Latest Version)				

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35	869	<u>5721/360</u>			<b>SET OF ROTOR STAMPINGS</b> EACH SET CONSISTING OF FOLLOWING THREE (03) ITEMS		STR NO. CLW/TM/0421/STATOR & ROTOR STAMPINGS/ALT-2 or Latest	01 SET	
			5721/325		i) ROTOR MAIN STAMPINGS	1TWD.096.010, Alt.-9, Ref. 1 or Latest	4TMS.096.053 Rev-2, Alt.- 5 or Latest		
			5721/326		ii) ROTOR MID STAMPINGS	1TWD.096.010, Alt.9, Ref. 2 or Latest	4TMS.096.053 Rev-2, Alt.- 5 or Latest		
			5721/351		iii) SOLID ROTOR END PLATE	SKEL-4890 (Latest Version)			
36	179		<u>5716/004</u>	229942019 0117 C	<b>STATOR SLOT WEDGE</b>	4TWD.096.050 Alt.-2 or Latest	ZN 02148/ STR No: CLW/TM/STR/12060 or Latest	150 Nos.	
37	198		<u>5715/600</u>	29942123 0117 S	<b>TERMINAL BOARD ASSLY. (COMPLETE)</b>	2TWD.096.019 (latest version)	4TMS.096.025 or Latest	01 No.	
38		<u>5711/330</u>			<b>SET OF STATOR STAMPINGS</b>				
			5711/301		i) STATOR MAIN STAMPINGS	1TWD.096.015, Alt.6, Ref. 1 or Latest	4TMS.096.053 Rev-2, Alt.- 5 or Latest	01 SET	
			5711/341		iii) SOLID STATOR END PLATE	SKEL-4889 (latest version)			
39	170		<u>5712/321</u>	2994 0370 1317 F	<b>WINDING WIRE FLAT</b> <b>FI Cu Fo 13 CR</b> Size - BARE (4.00 X 2.00) mm & INSULATED (4.23 X 2.23) mm		HIFE - 650030 Alt. 4 or Latest	160 Kg.	Common to 6 FXA 7059
40	884		<u>5711/220</u>	2994 0990 0317 T	<b>MACHINED STATOR ASSLY. (MODIFIED)</b>	1TWD.096.102, Alt.-13 or Latest (As per annex.-M)	4TMS.096.070 Alt.- 7/STR No: CLW/TM/18600 Rev. 0 or Latest	01 Set.	
41	394		<u>5721/327</u>	2994 2135 0117 S	<b>ROTOR SHAFT (ROUGH MACHINED)</b>	3TWD.096.073 Alt-7 or Latest	4TMS.096.051 Rev.-1, Alt.- 3 or Latest STR No: CLW/TM/STR/10100 Arm shaft/rotor shaft(rough machd ) or Latest	01 No.	Manufacturing Spares are taken @2.5% Vide Note No: TMM-20/05 Dtd.22.12.16
42	1011		<u>5721/321</u>	299408860117 S	<b>ROTOR SHAFT (FINISH MACHINED)</b>	1TWD.096.009 2TJE.096.015 Alt-3 or Latest	4TMS.096.071 Rev. '0' Alt.-1STR NO: CLW/TM/0394/ROTOR SHAFT (FINISHED) or Latest	01 No.	

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43	1010	<u>5780/095</u>	5730/308	2994 100 30317T	<b>ASSOCIATED COMPONENT OF MACHINED STATOR ASSEMBLY</b> EACH SET CONSISTING 11 NOS. FOLLOWING ITEMS:-	As per annexure A	4TMS.096.068 Rev.-1, Alt.- 4 or Latest	1 SET	UNCOMMON TO 6FXA 7059
					i) END FRAME /DE ASSLY.(CNC MACHD.) WITH AIR OUTLET NET & RDSO STR NO. 21,Rev-1or Latest	1TWD.096.005 Alt. -8,Ref.-4 & 2TWD.096.078 Alt- 1 or Latest	4TMS.096.068 Rev.1, Alt.-4 or Latest		
					ii) END FRAME /NDE ASSLY. (CNC MACHD.)with covering (Modified) & RDSO STR NO. 21. Rev-1 or Latest	0TWD.096.003 Alt. - 9 or Latest 3TWD 096.108 (latest version)	4TMS.096.068 Rev.1, Alt.-4 or Latest		
					iii) SPEED PROBE HOUSING (CNC MACHD.) & RDSO STR NO 21. Rev-1 or Latest	1TWD.096.077, Alt-4	DO		
			5720/202		iv) INNER LABYRINTH/DE (CNC MACHD.) RDSO STR NO.-21, Rev-1 or Latest	4TWD.096.043 Alt.- 5 or Latest	DO		
			5780/056		v) OUTER BEARING CAP/DE (CNC MACHD.) RDSO STR NO.-21, Rev-1 or Latest	1TWD.096.006 Alt.- 5 or Latest	4TMS.096.068 Rev.1, Alt.-4 or Latest		
			5780/001		vi) INNER LABYRINTH/DE (CNC MACHD.) RDSO STR NO.-21, Rev-1 or Latest	4TWD.096.028 Alt.- 4 or Latest	DO		
			5780/069		vii) OUTER LABYRINTH/DE (CNC MACHD.) RDSO STR NO.-21, Rev.1 or Latest	4TWD 096.029 Alt.5 or Latest	DO		
			5720/201		viii) INNER LABYRINTH/NDE (CNC MACHD.) RDSO STR NO.-21. Rev-1 or Latest	4TWD.096.042 Alt - 5 or Latest	DO		
			5780/005		ix) INNER LABYRINTH/NDE (CNC MACHD.) RDSO STR NO.-21 Rev-1 or Latest	4TWD.096.031 Alt - 4 or Latest	DO		
			5780/058		x) BEARING CAP/NDE (CNC MACHD.) RDSO STR NO.-21. Rev-1 or Latest	3TWD.096.032 Alt. 7 or Latest	DO		
			5780/057		xi) CLAMP PLATE/NDE (CNC MACHD.) RDSO STR NO. 21. Rev-1 or Latest	2TWD.096.033 Alt. - 6 or Latest	DO		
			44		1013	5780/096	5711/319 5711/320		
45	1012		<u>5711/360</u>	2994 2032 0117 B	MACHINED TERMINAL BOX ASSLY.	3TWD 096.059 Alt -3 or Latest	4TMS.096.055 Alt.-5 or Latest STR NO- CLW/TM/18310Latest	01 No	
46	1014		<u>5770/700</u>	2994 0163 0117 B	TERMINAL BOX COVER ASSLY.	4TWD.096.027 Alt.-2 or Latest	IS 10192'82 or Latest STR NO-CLW/TM/ 17030 Rev.0 or Latest	01 No	

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47	877		<u>5713/400</u>	2994 0461 0317 B	CONNECTION COMPLETE WITH CLAMPING PLATE (WITHOUT INSULATION)	1TWD.096.014 Alt.-4 or Latest	4TMS.096.062 Alt.-4 or Latest STR No : CLW/ TM/10060 Rev. 0 or Latest	01 SET	UNCOMMON TO 6FXA 7059
48	561		<u>5714/501</u>	2994 0394 0117 F	NEUTRAL CONDUCTOR RING ASSLY. (WITHOUT INSULATION)	4TWD.096.061 Alt.-3,Ref.-1or Latest	4TMS.096.062 Alt.-4 or Latest STR No : CLW/ TM/10060 Rev. 0 or Latest	01 Nos.	DO
49	947		<u>5721/402</u>	2994 1295 0117 S	ROTOR BAR FOR SCHEME - I ROTOR,	SKEL 4740 Alt-3 or Latest	RDSO/08/EL/SPEC./ 0063 /REV.- 2 / STR No. CLW/TM/9039 Rev. 0 or Latest	88 Nos.	TOTAL QTY = 40% OF TOTAL ROTOR TARGET
50	947		<u>5721/404</u>	2994 1301 0117 S	ROTOR BAR FOR SCHEME - II ROTOR,	SKEL 4741 Alt-1 or Latest	RDSO/08/EL/SPEC./ 0063 / REV.- 2 , STR No:CLW/TM/9039 Rev. 0 or Latest	88 Nos.	TOTAL QTY = 60% OF TOTAL ROTOR TARGET
51	924		<u>5721/401</u>	2994 1313 0117 S	Zr-Cu STAMPING TYPE RESISTANCE RING FOR SHAFT MOUNTED SCHEME - I ROTOR	SKEL 4738 ALT. 1 or Latest	RDSO/08/EL/SPEC /0062/REV.- 2 STR No: CLW/TM/17700 Latest version	26 Nos.	TOTAL QTY = 40% OF TOTAL ROTOR TARGET
52	950		<u>5721/405</u>	2994 1362 0117 S	Zr-Cu PUNCHING TYPE RESISTANCE RING MECHANICALLY INTERLOCKED TO END PLATE FOR SCHEME - II ROTOR	SKEL 4742 ALT. 1 or Latest	RDSO/08/EL/SPEC /0064/REV.- 2 STR No: CLW/TM/17730 (latest version)	02 Nos.	TOTAL QTY = 60% OF TOTAL ROTOR TARGET
53	949		<u>5721/403</u>	2994 1325 0117 L	END RING PLATE FOR SCHEME - I ROTOR,	SKEL 4739 Alt-1 or Latest	4TMS.096.068 REV.-1, ALT.-4, or Latest STR No:CLW/ TM/18109 Rev. 0 or Latest	02 Nos.	TOTAL QTY = 40% OF TOTAL ROTOR TARGET
54	951		<u>5721/406</u>	2994 1350 0117 T	ROTOR END RING FOR SCHEME - II ROTOR.	SKEL 4732 Alt-1 or Latest	4TMS.096.068 REV.-1, ALT.-4 or Latest STR No : CLW/ TM/18109 Rev. 0 or Latest	02 Nos.	TOTAL QTY = 60% OF TOTAL ROTOR TARGET
55	562		<u>5721/407</u>	2994 1337 1317 F	BRAZING ROD Size - ( ) 2 x 600 x 6 mm Long		DIN EN 1044 AG 203 STR No:CLW/TM/951 Rev. 0	1.03 Kg	COMMON ITEM FOR SCHEME I & SCHEME II TYPE ROTOR
56	868		<u>5721/317</u>	2694 1247 1317 F	BRAZING FLUX		DIN EN 1045-FH 10 STR No:CLW/TM/961 Rev. 0 or Latest	0.2 Kg	DO

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57	942		<u>5720/400</u>		SHAFT MOUNTED Zr-Cu STAMPING TYPE RESISTANCE RING DESIGN OF ROTOR (SCHEME-I) FOR TM TYPE 6FRA-6068 FOR WAG-9/WAP-7 LOCOS	SKEL-4881 (latest version)	RDSO/08 /EL/SPEC. /0060 (LATEST ALTERATION)	01 No.	
58	941		<u>5720/500</u>	2994 0758 0117 P	COMPLETE ROTOR (Scheme-II design) USING ZIRCONIUM COPPER PUNCHED DESIGNED RESISTANCE RING MECHANICALLY INTERLOCKED WITH END RING FOR 3-PHASE TM type 6FRA 6068	SKEL-4882 (latest version)	RDSO/2008/ EL/ SPEC/0061 REV.-2 STR No. CLW/2012/3PH TM ROTOR/STR/0003 (Rev-0) or Latest	01 No.	
59	942		<u>5700/004</u>		3-PHASE ASYNCHRONOUS TRACTION MOTOR (WITH SHAFT MOUNTED Zr-Cu STAMPING TYPE RESISTANCE RING DESIGN OF ROTOR, SCHEME-I) FOR TM TYPE 6FRA 6068 FOR WAG-9/WAP-7 LOCOS		4TMS.096.080 (latest version)	01 No.	
60	52		<u>5700/005</u>	2994 2007 0117 P	3-PHASE ASYNCHRONOUS TRACTION MOTOR (RESISTANCE RING MECHANICALLY INTERLOCKED TO END PLATE DESIGN ROTOR,SCHEME-II FOR TM TYPE 6FRA 6068) FOR WAG-9/WAP-7 LOCOS without active speed sensor		4TMS.096.081Alt.-2 (or latest ) STR No. CLW/2008/3PH TM /STR/0001 ( or latest )	01 NO.	
61	857		<u>5710/100</u>		COMPLETE STATOR ASSLY. FOR 3-PHASE TM TYPE 6FRA-6068	0TWD.096.002. Alt.-3 or latest	4TMS.096.069 Alt.-5 (or latest alteration) STR No. CLW/2008/3PH TM /STR/0002 or Latest	01 No.	
62					GROUP- D (SHORT DELIVERY INDIGENEOUS)				
63	368		<u>5780/018</u>	2967 0019 0117 L	NAME PLATE FOR RATING	4TWD 096.039 Alt. 3 or Latest	CLW/TM/17290 (latest version)	01 Nos	
64	879		<u>5780/068</u>	2967 0111 0117 L	NAME PLATE	4TWD 096 090 Alt. 2 or Latest	CLW/TM/17290 (latest version)	02 Nos	
65	384		<u>5711/313</u>	2994 0620 0117 B	TENSION BAR (MODIFIED)	3TWD 096 092 Alt - 3 or Latest	4TMS 096 055 Alt - 5 STR No: CLW/TM/939 Rev. 1 or Latest	02 Nos	
66	886		<u>5711/314</u>	2994 0631 0117 B	TENSION BAR (MODIFIED)	3TWD 096 093, Alt - 3 or latest	DO	02 Nos	
67	887		<u>5711/315</u>	2994 0667 0117 B	STATOR RIB (MODIFIED)	4TWD 096 095 Alt - 2 or Latest	DO STR No: CLW/TM/935 (latest version)	04 Nos	
68	888		<u>5711/316</u>	2994 0679 0117 B	CROSS PIECE (MODIFIED)	3TWD 096 094 Alt - 3 or Latest	DO STR No. CLW/TM/939 Rev. 1 or Latest	02 Nos	

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## MATERIAL DEMAND SCHEDULE OF 3-PHASE TRACTION MOTOR TYPE 6 FRA 6068 FOR THE YEAR 2020-21

SN	TENDER CASE No.	KIT C&D.NO.	C&D.NO	M.C. NO.	DESCRIPTION	DRAWING.NO.	SPECIFICATION. NO./ STR No	QTY./ TM	REMARKS
69	889		<u>5711/317</u>	2994 0643 0117 B	ACCESSORY BAR	3TWD.096.096, Alt.- 3 or Latest	DO STR No: CLW/TM/18150 Rev. 1 or Latest	02 Nos.	
70	890		<u>5711/318</u>	2994 0655 0117 B	ACCESSORY BAR	3TWD.096.097, Alt.- 3 or Latest	DO STR No: CLW/TM/18150 Rev. 1 or Latest	02 Nos.	
71	387		<u>5711/308</u>	2994 0527 0117 B	FLANGE	4TWD.096.067, Alt. 5 or Latest	DO STR No: CLW/TM/17501 Rev. 0 or Latest	01 No.	
72	875		<u>5711/310</u>	2994 2111 0117 S	WELDING PLATE	4TWD.096.068, Alt. 3 or Latest	CLW/TM/17050 (latest version)	01 No.	
73	385		<u>5711/309</u>	2972 1106 0117 S	EARTHING STUD	4TWD.096.066, Alt. 1 or Latest	CLW/TM/17040 (latest version)	01 No.	
74	386		<u>5721/322</u>	2938 0054 0117 S	KEY	4TWD.096.048, Alt. 1 or Latest	4TMS.096.055 Alt - 5 STR No: CLW/TM/18310 (Latest version)	01 No.	
75	891		<u>5721/324</u>	2994 2100 0117 S	HALF RING	4TWD.096.049, Alt. 2 or Latest	DO STR No: CLW/TM/18190 Rev. 0 or Latest	02 Nos	
76	868		<u>5720/210</u> <u>5820/211</u>	2994 5598 0317 D	BALANCE WEIGHT KIT (Scheme- I rotor for 3-PHASE TM type 6FRA 6068 & rotor for 6 FXA 7059 )	4TWD.096.044, Alt. 7 or Latest 4TWD.096.101 Alt.3 or Latest	4TMS.096.084 or Latest	01 SET	40% of total shop target of 6 FRA 6068 rotor
77	866		<u>5720/209</u>	2994 5586 0317 D	BALANCE WEIGHT KIT (Scheme- II rotor for 3-PHASE TM type 6FRA 6068 )	4TWD.096.173, Alt. 1 or Latest	4TMS.096.083 or Latest	01 SET	60% of total shop target of 6 FRA 6068 rotor
78	913		<u>5780/016</u>	2994 0308 0117D	HOSE CLAMP	4TWD.096.070, Alt. 1 or Latest	STR No: CLW/TM/ 17280 Rev. 0 or Latest	01 No.	
79	922		<u>5713/434</u> 454, 474 & 5716/009	9198 5020 1317 F	SILVER BRAZING ALLOY ROD Ø 2 X 500 ± 6 mm LONG		IS: 2927-75 or Latest Gr. BA-Cu-Ag16A STR No: CLW/TM/951 Rev. 0 or Latest	0.16 Kg. (Shop 23 0.16 kg)	Common to 6 FXA 7059
80	992		<u>5713/437</u> 457, 477 & 5716/031	2560 8095 1317 F	BRAZING FLUX SUITABLE FOR SILVER BRAZING ALLOY ROD & SILVER BRAZING ALLOY FOIL		IS: 2927-75, or Latest Gr. BA-Cu-Ag16A STR No: CLW/TM/961 Rev. 0 or Latest	0.04 Kg. (Shop 23 0.04 kg)	Do
81	873		<u>5780/013</u>	2994 0278 0117 D	THRUST CARRYING PIECE	3TWD.096.037, Alt 2 or Latest	4TMS.096.055 Alt 5 or Latest STR No: CLW/TM/18310 (latest version)	01 No.	

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**MATERIAL DEMAND SCHEDULE OF 3-PHASE TRACTION MOTOR TYPE 6 FRA 6068 FOR THE YEAR 2020-21**

SN	TENDER CASE No.	KIT C&D.NO.	C&D.NO	M.C. NO.	DESCRIPTION	DRAWING.NO.	SPECIFICATION. NO / STR No	QTY./ TM	REMARKS
82	918		<u>5780/094</u>	2937 5060 2217 D	RUBBER BUSH for 6 FRA 6068	4TWD.096.171 or Latest	STR No: CLW/TM/14350 Rev. 0 or latest	03 Nos.	
83	915		<u>5780/004</u>	2925 0596 0117 D	SEALING RING REF.-1	4TWD.096.030/1 Alt.-3 or Latest	STR No: CLW/TM/14350 Rev. 0,4TMS 096.086 or Latest	1.4 No.	
84	916		<u>5780/007</u>	2925 0584 0117 D	SEALING RING REF.-2	4TWD.096.030/2 Alt.-3 or Latest	Do	1.4 No.	
85	174		<u>5780/015</u>	2994 0280 0117 D	CORRUGATED HOSE COFLEX	3TWD.096.072 Alt.-4 or Latest		01 Set	
86	177		<u>5780/053</u>	2994 0291 0117 D	CABLE BINDER	4TWD.096.079 Alt.-2 or Latest	4TMS.096.067 or Latest	05 Nos.	
87	231		<u>5780/054</u>	2598 3258 5117 C	ANAEROBIC ADHESIVE AND SEALENT FOR THREAD LOCKING SIMILAR TO THREE BOND SCREWLOCK SUPER 1303 OF M/s THREE BOND Co LTD./JAPAN		4TMS.095.018 or Latest	0.11 litre	
88	180		<u>5780/061</u>	2994 0310 0317 D	CLIP ASSLY. (WITHOUT WELDING PLATE)	4TWD.096.082 Alt.- 1or Latest	CLW/TM/17220 (latest version)	02 set.	
89	230		<u>5780/074</u>	2598 0968 0117 C	LIQUID GASKET (THREE BOND 1105 of M/s THREE BOND Co. LTD./JAPAN or SIMILAR)		4TMS.095.017 (latest version)	0.1 Kg	
90	186		<u>5716/041</u>	29720734 2217 C	ADHESIVE GLASS CLOTH TAPE Size:- 0.14 x 19 mm WIDE (IN CONTINUOUS ROLL OF 30 m)		4TMS.096.026(latest version) CLW/TM/12079/STR/AGCT(Rev.0) (latest version)	15 m	
91	188		<u>5716/042</u>	29720746 2217 C	ADHESIVE GLASS CLOTH TAPE Size:- 0.14 x 50 mm WIDE (IN CONTINUOUS ROLL OF 30 m)			10 m	
92	187		<u>5716/044</u>	29720576 0117 C	POLYESTER FILM (Y-P) 2 MIL. THK. SIZE:- 100 <sup>±</sup> .0 mm X 500 <sup>±</sup> .0 mm		A 0207 Alt.-3 or Latest	150 Nos.	
93	095		<u>5716/043</u>	29720758 2217 C	HIGH TEMPERATURE NON ASBESTOS FABRIC MAT.		4TMS 096.027 Rev. - 1 or Latest	0.35 m	
94	221		<u>5716/056</u>	25722682 5117 A	METHYL ALCOHOL OR INDUSTRIAL SOLVENT IS SIMILAR TO METHYL ALCOHOL TO IS 51786 GR. METHANOL PURE/TECH			0.95 liter	
95			<u>5716/061</u>		"ASBESTOS TAPE" SIZE: 0.4 mm Thk X 25 mm wide (Roll length 33 m)		IS 6230'70 or Latest	13 m	Uncommon to 6 F X A /059

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SN	TENDER CASE No.	KIT C&D.NO.	C&D.NO	M.C. NO.	DESCRIPTION	DRAWING.NO.	SPECIFICATION. NO./ STR No	QTY./ TM	REMARKS
96	143		<u>5716/055</u>	2560 8125 2217 A	<b>GLASS TAPE (EGT)</b> Size :- 0.18 x 25 mm		4TMS.095.016 Alt. - 1 or Latest	25 m	
97			<u>5716/062</u>	819807605117A	<b>TOLUOLE</b> (Industrial Grade)		IS:536'1968 or Latest	0.16 Kg.	Common to 6 FXA 7059
98	0052		<u>5711/203</u>	2994 1260 0317B	<b>ACCESSORIES OF 3-PHASE STATOR CHAMBER TYPE 6FRA 6068</b>	3TWD.096.167 Alt.- 3 or Latest	STR No: CLW/TM/18038 Rev. 0 ( or latest )	01 Set.	
99					<b>GROUP- E</b> ( <b>HARDWARE ITEMS</b> )				
100	100	<u>5780/080</u>	5780/057	2994 5446 0317 L	"CYLINDRICAL PIN KIT"		4TMS.096.072, Alt. -1 or Latest	01 SET	SHOP 21 = 5780/080
101	103	<u>5780/090</u>	5780/081 5716/057	2994 1167 0317 L	"MACHINED WASHER KIT"		4TMS.096.073, Alt. 1 or Latest	01 SET	SHOP 21 = 5780/081 SHOP 23 = 5716/057
102	111	<u>5780/091</u>	5780/083 5716/058	2994 1076 0317 L	"SPRING WASHER KIT"		4TMS.096.074, Alt.-1or Latest STR NO- CLW/TM/11020(Rev-0) ( or latest	01 SET	SHOP 21 = 5780/083 SHOP 23 = 5716/058
103	109	<u>5780/092</u>	5780/085 5716/059	2994 1039 0317 L	"STANDARD HARDWARE KIT"		4TMS.096.075, REV '0' or Latest STR No: CLW/TM/0854 Rev. 1 or latest	01 SET	SHOP 21 = 5780/085 SHOP 23 = 5716/059
104	106	<u>5780/093</u>	5780/087 5780/019	2994 1192 0317 L	"THREAD INSERT KIT"		4TMS 096.076. Alt. -1 or Latest STR No: CLW/TM /0857 Rev. 0 or latest	01 SET	SHOP 21 = 5780/087 SHOP 23 = 5780/019
106	104	<u>5780/089</u>		2994 1040 0317 L	"NON-STANDARD HARDWARE KIT"		4TMS 096.077, Alt. -2 or Latest	01 SET	SHOP 21 = 5780/089
107	921		5760/624	2994 0862 0317A	<b>KITS FOR TEMPERATURE SENSOR ASSEMBLY FOR TM TYPE 6FRA 6068</b>	4TWD 096.163 ALT 4 REF-1 or Latest		01 No	

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