

CATEGORY BOOK 2022-23

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 2022-23

SN	TENDER CASE No.	KIT C&D.NO.	C&D.NO	M.C. NO.	DESCRIPTION	DRAWING.NO.	SPECIFICATION NO / STR No	QTY / TM	REMARKS
					GROUP-A (FULLY IMPORTED)				
1	176		5712/327 357,377 & 5716/003	29721106 2217 A	POLYIMIDE FOIL (KAPTON), P1 FO 1 Size:- 0.125 x 510 mm (IN CONTINUOUS 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			5716/060	29720904 0117 A	POLYAMIDE (NOMEX Type-410) STRIP SIZE:- 0.25 mm Thk. X 9 ^{+0.02} _{-0.4} mm width x 507 ± 0.2 mm long.	4TWD 096.169 Ref. - 3, Alt-1 or Latest	HZN 02239	152 pcs	
3	861		5712/331	29720898 01 17 A	POLYAMIDE (NOMEX Type-410) STRIP 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			5716/023	2972 5100 2217 A	POLYAMIDE PAPER (NOMEX), PAP 1 SIZE:- 0.38 X 914 MM (IN CONTINUOUS 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		5716/054	29721283 01 17 A	POLYAMIDE (NOMEX Type-410) STRIP (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		5716/053 5712/331 5712/361 5712/381	2972 1064 2217 A	NON ADHESIVE POLYIMIDE FILM TAPE 2 MIL. THK. X 20 mm WIDE (IN CONTINUOUS ROLL OF 50 m)		4TMS 096.029 ALT-3 or Latest STR No: CLW/TM/169 (Rev.0) or Latest	390 m	
7	251		5716/010	29721039 1317C	SILICON IMPREGNATING RESIN SILRES H 62 C or EQUIVALENT			14.3 Kg	
8	252		5716/012	29721192 1317 C	AUXILIARY MATERIAL - 38 ABB IDENT NO. HZN 451560 R/P:P0001		HZLK - 605002 (D I No.)	0.26 Kg	
9			5716/019	29721209 1317 C	BASIC RESIN SI - 32 ABB IDENT NO. HZN 451176		HIFE - 650004 (D I No.)	0.37 Kg	
10	257		5716/020	29721210 1317 C	ACCELERATOR 27		4TMS 096.016 Latest version	0.01 Kg	
11			5716/045 5780/011,	29720667 1317 C	SILICON RUBBER COMPONENTS ELASTOSIL RT 622 A OF WACKER METROARK CHEMICAL OR EQUIVALENTS		f	4.5 Kg	Break up for 1 m/s i) Dow Silicone Make SILASTIC RTV-4250-S-4 545 Kg & Curing Agent--0.455 Kg. ii) Alltopole Make Neukasil RTV230= 2.5 Kg.& Neukasil crosslinker A 149=2.5 Kg. iii) 3A Associates Make 522A-4.545 Kg & 522B=0.455 Kg * SI No 11 & 12 to be supplied in maximum 20-25 Kg and 03 kg capacity respectively.
12	265		5716/046 5780/011,	29720679 1317 C	SILICON RUBBER COMPONENTS ELASTOSIL RT 622 B OF WACKER METROARK CHEMICALS OR EQUIVALENTS		CLW/TM/0265 Rev.0 or latest	0.5 Kg	

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13	265		5716/047 5780/011	29720655 13 17 C	PRIMER G 790 OF WACKER MATROARK CHEMICALS OR EQUIVALENT			0.25 Kg.	i) Dow Silicone Make:- P R- 1200 RTV prime Coat is suitable. ii) Altropole Make:- Primer Z3042 is suitable.
14			5720/207 5721/328, 5730/304 5740/405	29721246 1317 C	PRIMER PAINT		4TMS.096.019 (latest version) CLW/TM/12210 (latest version)	1 Kg.	
15	623		5780/065	29721003 1317 C	TOP COATING PAINT		4TMS.096.020 (latest version) CLW/TM/12210 (latest version)	1.6 Kg.	
16			5780/066	29721015 1317 C	HARDENER FOR TOP COATING PAINT		CLW/TM/12210 (latest version)	0.14 Kg	
17			5780/067	29721258 1317 C	THINNER FOR TOP COATING PAINT		CLW/TM/12210(latest version)	0.75 Kg	Rotor=0.3Kg Comp. Motor=0.45kg
18	0051	5780/ 073	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.096.065or Latest	01 SET	
					GROUP- B (IMPORTED + INDIGENEOUS)				
19	261		5780/052	8098 0545 1317 A	"LUBRICATING GREASE SERVOPLEX SHC - 120 (IOC)"			1.8 Kg (1.5 Kg = 6FRA 6068 & 0.3 Kg = Suspension Tube)	
20	193		5716/052 5712/329, 359,379 5713/029,054 079, 504 5714/505	29720722 2217 C	POLYESTER GLASS SILK TAPE SIZE - 0.09 ± 0.01 mm X 20 mm		4TMS.096.088 CLW/TM/193 (Rev.0) or Latest	687 m	2307 Sec = 540 m 2308 Sec = 147 m
21	171		5712/322 352, 372 & 5713/028,053, 078, 507 & 5714/502, 5716/013	2972 1120 2217 A	MICA GLASS FABRIC TAPE Mir/Gl- Gw6 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		5716/034	29721090 1317 C	THINNER FOR STATOR WASHING		4TMS.096.030 or Latest CLW/TM/0263(Rev 0) or Latest	10 Kg	2101 Sec = 5 Kg 2308 Sec = 5 Kg

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23			5712/324 354 & 374	29721131 2217 A	AUTO ADHESIVE TAPE (KAPTON), Selbst KI - F 11, SIZE - 0.07 X 9.5 mm (IN ROLL OF 33 m) ABB IDENT NO. GMM 590755 R/P NO.: P 1090			90 m	SI No 23 24 & 25 to be dealt together
24	173		5712/325 355, 375 & 5713/502, 027, 052, 077 & 5714/504	29721143 2217 A	AUTO ADHESIVE TAPE (KAPTON), Selbst KI - F 11, SIZE - 0.07 X 19.1 mm (IN ROLL OF 33 m) ABB IDENT NO. GMM 590755 R/P NO.: P 1190		HZN - 02435 (DI No.) STR No: CLW/TM/173 (Rev.1) or Latest	280 m	2307 Sec = 65 m 2308 Sec = 215 m
25	173		5712/326 356 & 376	29721155 2217 A	AUTO ADHESIVE TAPE (KAPTON), Selbst KI - F 11, SIZE - 0.076 X 50 mm (IN ROLL OF 33 m) ABB IDENT NO. GMM 590755 R/P NO.: P 1500			45 m	
26	862		5716/015 022 5712/330, 360, 380	29721118 2217 A	POLYAMIDE (NOMEX) PA VLIES 1, 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	
27			5716/005	29721052 2217 A	GLASS FIBRE CORD - 1 Ø 7 ABB IDENT NO. GMM 592010 R/P NO.: P 0107		ZN 02035 (DI No.) STR No: EL/TM/2066, Rev-1	25.25 m	
28	867		5716/006	29721260 2217 A	GLASS FIBRE CORD - 1 Ø 11 ABB IDENT NO. GMM 592010 R/P NO.: P 0111			5 m	
29			5716/051	29720710 2217 C	FLAT HOSE, GI Gefl - 7 Size:- 1.6 X 17 mm ABB IDENT NO. HZN - 451141		HIME - 650108 (DI No.) STR No: EL/TM/2066, Rev-1	125 m	
30	172		5716/024	29721088 2217 C	HOSE GI Gefl - 3 (FLAT HOSE) SIZE:- 4 X 22 mm ABB IDENT NO. NBT 401106 R/P : P 0018		HZN - 02350 (DI No.) EL/TM/2066, Rev-1	1.8 m	
31	56		5760/600	299905520117 A	TEMPERATURE SENSOR ASSLY (COMPLETE) for 3 PHASE TM type 6 FRA 6068 & 6 FXA 7059		4TMS 096.087 or Latest STR No: CLW/TM/17320 Rev. 0 or Latest	01 set	TOTAL QTY = 10% OF TOTAL requirement Common to 6 FRA 7059
32	57		5760/650	299406180117 A	COMPLETELY ASSEMBLED TEMPERATURE SENSOR for 3 PHASE TM type 6 FRA 6068		4TMS 096.085 Ref.1 Rev 1, Alt-1 or latest STR No: CLW/TM/17320 Rev. 0 or Latest	01 No.	TOTAL QTY = 90% OF TOTAL requirement of 6 FRA 6068 (Un Common to 6 FRA 7059)
33	876		5721/333	292602201317 A	MOLYCOTE (R) G-N PLUS OF DOW CORNING OR HIGH TEMPERATURE EP GREASE MK-WS2-HT FROM M K IMPEX CANADA			0.025 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
GROUP - C									
(LONG DELIVERY INDIGENEOUS)									
34	421	5711/301		2994 0450 0317 B	SET OF STATOR & ROTOR STAMPINGS 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- 8 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- 8 or Latest		
					iv) ROTOR MID STAMPINGS	1TWD 096 010, Alt-9, Ref. 2	4TMS 096.053 Rev-2, Alt- 8 or Latest		
					v) SOLID ROTOR END PLATE	SKEL-4890 (Latest Version)			
35	869	5721/360		299413740317 T	SET OF ROTOR STAMPINGS EACH SET CONSISTING OF FOLLOWING THREE (03) ITEMS		STR NO. CLW/TM/0421/STATOR & ROTOR STAMPINGS/ALT-2 or Latest	01 SET	
					i) ROTOR MAIN STAMPINGS	1TWD 096 010, Alt-9, Ref. 1 or Latest	4TMS 096.053 Rev-2, Alt- 8 or Latest		
					ii) ROTOR MID STAMPINGS	1TWD 096 010, Alt-9, Ref. 2 or Latest	4TMS 096.053 Rev-2, Alt- 8 or Latest		
					iii) SOLID ROTOR END PLATE	SKEL-4890 (Latest Version)			
36	179	5716/004		229942019 0117 C	STATOR SLOT WEDGE	4TWD 096 050 Alt-2 or Latest	ZN 02148/ STR No: CLW/TM/STR/12060 or Latest	150 Nos.	
					TERMINAL BOARD ASSLY. (COMPLETE)	2TWD 096 019 (latest version)	4TMS 096.025 or Latest STR No:CLW/TM/STR/0198 or Latest	01 No.	
38		5711/330			SET OF STATOR STAMPINGS	CLW/TM/0421/STATOR & ROTOR STAMPING /Alt-2		01 SET	
					i) STATOR MAIN STAMPINGS	1TWD 096 015, Alt-6, Ref. 1 or Latest	4TMS 096.053 Rev-2, Alt- 8 or Latest		
					iii) SOLID STATOR END PLATE	SKEL-4889 (latest version)			

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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
39	170		5712/321	2994 0370 1317 F	WINDING WIRE FLAT FI Cu Fo 13 CR 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		5711/220	2994 0990 0317 T	MACHINED STATOR ASSLY. (MODIFIED)	1TWD 096 102, Alt. -13 or Latest (As per annex -M)	4TMS.096.070 Alt. - 7/STR No: CLW/TM/18600 Rev. 1 or Latest	01 Set.	
41	394		5721/327	2994 2135 0117 S	ROTOR SHAFT (ROUGH MACHINED)	3TWD 096 073, Alt. -7 or Latest	4TMS 096 051 Rev.-1, Alt.- 4 or Latest STR No: CLW/TM/STR/10100 Armatur shaft/rotor shaft(rough machd.) or Latest	01 No.	Manufacturing Spares are taken @2.5% Vide Note No: TM/M-20/05 Dtd:22.12.16
42	1011		5721/321	2994 5409 0117 S	ROTOR SHAFT (FINISH MACHINED)	1TWD 096 009 2TJF 096 015 Alt.4 or Latest	4TMS 096 071 Rev. -'0' Alt.1-STR NO. CLW/TM/0394/ROTOR SHAFT (FINISHED)/Alt-1 or Latest	01 No.	
43	1010	5780/ 095	5730/308 5740/408 5780/079	2994 100 30317T	ASSOCIATED COMPONENT OF MACHINED STATOR ASSEMBLY EACH SET CONSISTING 11 NOS. FOLLOWING ITEMS:- i) END FRAME /DE ASSLY.(CNC MACHD.) WITH AIR OUTLET NET & RDSO STR NO. 21 Rev- 1 or Latest ii) END FRAME /NDE ASSLY. (CNC MACHD.)with covering (Modified) & RDSO STR NO. 21, Rev-1 or Latest iii) SPEED PROBE HOUSING (CNC MACHD.) & RDSO STR NO. 21, Rev-1 or Latest iv) INNER LABYRINTH/DE (CNC MACHD.) RDSO STR NO.-21, Rev-1 or Latest v) OUTER BEARING CAP/DE (CNC MACHD.) RDSO STR NO.-21, Rev-1 or Latest vi) INNER LABYRINTH/DE (CNC MACHD.) RDSO STR NO.-21, Rev-1 or Latest vii) OUTER LABYRINTH/DE (CNC MACHD.) RDSO STR NO.-21, Rev-1 or Latest viii) INNER LABYRINTH/DE (CNC MACHD.) RDSO STR NO.-21, Rev-1 or Latest ix) INNER LABYRINTH/DE (CNC MACHD.) RDSO STR NO.-21, Rev-1 or Latest	As per annexure -A 1TWD 096 005 Alt. -9 Ref. -4 & 2TWD 096 078 Alt. -1 or Latest 0TWD 096 003 Alt. - 11 or Latest 3TWD 096 108 (latest version) 1TWD 096 077, Alt.4 4TWD 096 043 Alt. -6 or Latest 1TWD 096 006 Alt. -6 or Latest 4TWD 096 028 Alt. -5 or Latest 4TWD 096 029 Alt. -6 or Latest 4TWD 096 042 Alt. -6 or Latest 4TWD 096 031 Alt. -5 or Latest	4TMS.096.068 Rev.-1, Alt.- 6 or Latest 4TMS.096.068 Rev.1, Alt.-6 or Latest 4TMS.096.068 Rev.1, Alt.-6 or Latest DO DO 4TMS.096.068 Rev.1, Alt.-6 or Latest DO DO DO DO	1 SET	UNCOMMON TO 6FXA 7059

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			5780/058		x) BEARING CAP/INDE (CNC MACHD.) RDSO STR NO -21, Rev-1 or Latest	3TWD 096 032 Alt. 8 or Latest	DO		
			5780/057		xi) CLAMP PLATE/INDE (CNC MACHD.) RDSO STR NO -21, Rev-1 or Latest	2TWD 096 033 Alt. - 7 or Latest	DO		
44	1013	5780/096	5711/319 5711/320	2994 0916 0317 B	SET OF STATOR CHAMBER DE & NDE (CNC MACHD)	1TWD 096 017 Alt. - 6 or Latest 1TWD 096 016 Alt. - 6 or Latest	4TMS 096 059 Alt.-5, or Latest & RDSO STR No.-21 rev.1 or Latest	01 SET	
45	1012		5711/360	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/18310 Latest version	01 No	
46	1014		5770/700	2994 0163 0117 B	TERMINAL BOX COVER ASSLY.	4TWD 096 027 Alt.-2 or Latest	IS:1019282 or Latest STR NO-CLW/TM/ 17030 Rev.0 or Latest	01 No	
47	877		5713/400	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		5714/501	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		5721/402	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		5721/404	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		5721/401	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 - 3 STR No: CLW/TM/17700 Latest version	26 Nos.	TOTAL QTY = 40% OF TOTAL ROTOR TARGET
52	950		5721/405	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

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53	949		5721/403	2994 1325 0117 L	END RING PLATE FOR SCHEME - I ROTOR,	SKEL 4739 Alt-1 or Latest	4TMS.096.068 REV.-1, ALT.-6, or Latest STR No:CLW/ TM/18109 Rev. 0 or Latest	02 Nos.	TOTAL QTY.= 40% OF TOTAL ROTOR TARGET
54	951		5721/406	2994 1350 0117 T	ROTOR END RING FOR SCHEME - II ROTOR,	SKEL 4732 Alt-1 or Latest	4TMS.096.068 REV.-1, ALT.-6 or Latest STR No: CLW/ TM/18109 Rev. 0 or Latest	02 Nos.	TOTAL QTY.= 60% OF TOTAL ROTOR TARGET
55	562		5721/407	2994 1337 1317 F	BRAZING ROD Size:- $\varnothing 2 \times 600 \pm 6$ 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		5721/317	2994 1246 1317 F	BRAZING FLUX		DIN EN 1045-FH 10 STR No:CLW/TM/961 Rev. 0 or Latest	0.2 Kg	DO
57	942		5720/400		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		5720/500	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)	EL/ SPEC/0061 REV.-2 STR No. CLW/2012/3PH TM ROTOR/STR/0003 (Rev-0) or Latest	01 No.	
59	942		5700/004		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.096.081 (latest version)	01 No.	
60	52		5700/005	2994 2007 0117 P (Shop Made) 2994 0606 0117 P (Trade Supply)	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	0 TWD 096.001 Alt-3 or latest	4TMS.096.081 Alt.-2 (or latest version STR No. CLW/2008/3PH TM /STR/0001 (or latest)	01 NO.	
61	857		5710/100	2994 0989 0117 T	COMPLETE STATATOR 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/2011/3PH TM /STR/0002 or Latest	01 No.	

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62					GROUP- D (SHORT DELIVERY INDIGENEOUS)				
63	388		5780/018	2967 0019 0117 L	NAME PLATE FOR RATING	4TWD 096 039, Alt. 3 or Latest	CLW/TM/17290 (latest version)	01 Nos.	
64	879		5780/068	2967 0111 0117 L	NAME PLATE	4TWD 096 090, Alt. 2 or Latest	CLW/TM/17290 (latest version)	02 Nos.	
65	384		5711/313	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		5711/314	2994 0631 0117 B	TENSION BAR (MODIFIED)	3TWD 096 093, Alt. - 3 or Latest	DO	02 Nos.	
67	887		5711/315	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		5711/316	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.	
69	889		5711/317	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		5711/318	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		5711/308	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		5711/310	2994 2111 0117 S	WELDING PLATE	4TWD 096 068, Alt. 3 or Latest	CLW/TM/17050 (latest version)	01 No.	
73	385		5711/309	2972 1106 0117 S	EARTHING STUD	4TWD 096 096, Alt. 1 or Latest	CLW/TM/17040 (latest version)	01 No.	
74	386		5721/322	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		5721/324	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	898		5720/210 5820/211	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		5720/209	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		5780/016	2994 0308 0117D	HOSE CLAMP	4TWD 096 070, Alt. 1 or Latest	STR No: CLW/TM/17280 Rev. 0 or Latest	01 No.	

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MATERIAL DEMAND SCHEDULE OF 3-PHASE TRACTION MOTOR TYPE 6 FRA 6068 FOR THE YEAR 2022-23

SN	TENDER CASE No.	KIT C&D NO.	C&D NO	M.C. NO.	DESCRIPTION	DRAWING NO.	SPECIFICATION NO./ STR No	QTY./ TM	REMARKS
79	922		<u>5713/434</u> 454, 474 & 5716/009	2594 8556 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	0.16 Kg. (Shop 23 0.16 kg)	Common to 6 FRA 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.	
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 No	
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 SEALANT FOR THREAD LOCKING SIMILAR TO THREE BOND SCREWLOCK SUPER 1303 OF M/s THREE BOND Co. LTD/JAPAN		4TMS.095.018 or Latest CLW/TM/22600(Rev 0)	0.11 litre	
88	180		<u>5780/061</u>	2994 0310 0317 D	CLIP ASSLY. (WITHOUT WELDING PLATE)	4TWD.096.082 Alt -1 or 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	186		<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" x 2, 0 mm X 500" x 2, 0 mm		A 0207 Alt.-3 or Latest STR No. CLW/TM/187 Rev.O	150 Nos.	
93	095		<u>5716/043</u>	29720758 2217 C	HIGH TEMPERATURE NON ASBESTOS FABRIC MAT. SIZE:- 0.762 X 914 mm Wide		4TMS.096.027 Rev. - 1 or Latest	0.35 m	

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MATERIAL DEMAND SCHEDULE OF 3-PHASE TRACTION MOTOR TYPE 6 FRA 6068 FOR THE YEAR 2022-23

SN	TENDER CASE No.	KIT C&D.NO.	C&D.NO	M.C. NO.	DESCRIPTION	DRAWING.NO.	SPECIFICATION NO./ STR No	QTY./ TM	REMARKS
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	To be supplied in Maximum 20-25 Kg capacity
95	911		<u>5716/061</u>	257210942217L	"ASBESTOS TAPE" SIZE: 0.4 mm Thk. X 25 mm wide (Roll length 33 m)		IS:623070 or Latest	13 m	Uncommon to 6 FXA 7059
96	143		<u>5716/055</u>	2560 8125 2217 A	GLASS TAPE (EGT) Size :- 0.18 x 25 mm		4TMS.095.016 Alt. - 1 or Latest	36 m	
97			<u>5716/062</u>	819807605117A	TOLUOLE (Industrial Grade)		IS:5351968 or Latest	0.16 Kg.	Common to 6 FXA 7059 * To be supplied in Maximum 20-25 Kg capacity
98	0052		<u>5711/203</u>	2994 1260 0317B	ACCESSORIES OF 3-PHASE STATOR CHAMBER TYPE 6FRA 6068	3TWD.096.167 Alt. - 3 or Latest	STR No: CLW/TM/18038 Rev. 0 (or latest)	01 Set.	
99					GROUP - E (HARDWARE ITEMS)				
100	100	<u>5780/080</u>	<u>5780/057</u>	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>	<u>5780/081</u> <u>5716/057</u>	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>	<u>5780/083</u> <u>5716/058</u>	2994 1076 0317 L	"SPRING WASHER KIT"		4TMS.096.074, Alt.-1 or 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>	<u>5780/085</u> <u>5716/059</u>	2994 1039 0317 L	"STANDARD HARDWARE KIT"		4TMS.096.075, REV '0 alt-1 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>	<u>5780/087</u> <u>5780/019</u>	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
105	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
106	921		<u>5760/624</u>	2994 0862 0317A	KITS FOR TEMPERATURE SENSOR ASSEMBLY FOR TM TYPE 6FRA 6068	4TWD.096.163 ALT. 4 REF-1 or Latest		01 No	10% of total requirement of 6 FRA 6068 TM

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