

# **CATEGORY BOOK OF 2020-21**

## **FOR 3-PHASE TRACTION MOTOR**

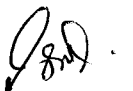
### **PART-II (TYPE 6FXA-7059)**

#### **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 FXA 7059 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> 5812/207, 307 & 407	29721106 22 17 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 : P 9126		HZN - 02575 (D I No.) CLW/TM/176 (Rev.0)	10 m of width 510 mm	COMMON TO 6FRA 6068
2	861		<u>5816/050</u>	29720904 01 17 A	POLYAMIDE (NOMEX Type - 410) STRIP SIZE:- 0.25 mm Thk. X $9^{+0.02}_{-0.4}$ mm width x 417 ± 0.2 mm long.	4TWD.096.169 Ref.- 2, Alt-1or Latest	HZN 02239	152 pcs	UN-COMMON TO 6FRA 6068
3			<u>5712/331</u> 5812/208	29720898 01 17 A	POLYAMIDE (NOMEX Type-410) STRIP SIZE:- 0.13 mm Thk. X $8.4 \pm 0.05$ mm width x $90 \pm 0.1$ mm long.	4TWD.096.169 Ref.- 1, Alt-1or Latest	HZN 02239	1134 pcs	COMMON TO 6FRA 6068
4			<u>5716/023</u> 5816/005	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.) CLW/TM/176 (Rev.0)	0.075 m of width 914 mm	DO
5	251		<u>5716/010</u> 5816/018	2972 1064 2217 A	SILICON IMPREGNATING RESIN SILRES H 62 C or EQUIVALENT			14.3 Kg	DO
6	169		<u>5716/053</u> 5812/208 5812/308 & 5812/408	29721039 1317A	NON ADHESIVE POLYIMIDE FILM TAPE 2 MIL. THK X 20 mm WIDE (IN CONTINUOUS ROLL OF 50 m)		4TMS.096.029 ALT-1 or Latest CLW/TM/169 (Rev.0)	390 m	DO
7	252		<u>5716/012</u> 5816/019	29721192 1317 C	AUXILIARY MATERIAL - 38 ABB INDENT NO. HZN 451560 R/P - P 0001		HZLK - 605002 (D I No.)	0.26 Kg	DO
8	257		<u>5716/019</u> 5816/022	29721209 1317 C	BASIC RESIN SI - 32 ABB INDENT NO. HZN 451176		HIFE - 650004 (D I No.)	0.37 Kg	DO
9			<u>5716/020</u> 5816/023	29721210 1317 C	ACCELERATOR 27		4TMS.096.016 (latest version)	0.01 Kg	DO
10	265		<u>5716/045</u> 5816/038, 5890/010	29720667 1317 C	SILICON RUBBER COMPONENTS ELASTOSIL RT 622 A OF WACKER METROARK CHEMICAL OR EQUIVALENTS		CLW/TM/0265 Rev.0 or latest	4.5 Kg	DO
11			<u>5716/046</u> 5816/039, 5890/010	29720679 1317 C	SILICON RUBBER COMPONENTS ELASTOSIL RT 622 B OF WACKER METROARK CHEMICAL OR EQUIVALENTS		CLW/TM/0265 Rev.0 or latest	0.5 Kg	DO
12	265		<u>5716/047</u> 5816/040 5890/010	29720655 13 17 C	PRIMER G 790 OF WACKER MATROARK CHEMICALS OR EQUIVALENT			0.25 Kg.	COMMON TO 6FRA 6068

  
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13	623		<u>5720/207</u> 5890/053 5811/103 5821/208 5830/105 & 5840/105	29721246 1317 C	PRIMER PAINT		4TMS.096.019 (latest version) CLW/TM/12210 (latest version)	1 Kg.	DO
14			<u>5780/065</u> 5820/207 5811/103 5821/208 5830/105 & 5840/105	29721003 1317 C	TOP COATING PAINT		4TMS.096.020 (latest version) CLW/TM/12210 (latest version)	1.6 Kg.	DO
15			<u>5780/066</u> 5820/208	29721015 1317 C	HARDENER FOR TOP COATING PAINT		CLW/TM/12210 (latest version)	0.14 Kg	DO
16			<u>5780/067</u> 5820/209	29721258 1317 C	THINNER FOR TOP COATING PAINT		CLW/TM/12210 (latest version)	0.75Kg	DO Rotor=0.3Kg Comp. Motor=0.45Kg
17	0052	<u>5890/051</u>	5890/049 5890/050	29030031 0317D	SET OF ROLLER BEARING EACH SET CONSIST OF 01 NO. ROLLER BEARING NU 224 E/C4, 01 NO. ROLLER BEARING NJ 219 E/C4. & 01 NO. THRUST COLLER HJ 219 E		4TMS.096.065 (latest version)	01 SET	UN-COMMON TO 6FRA 6068
18	260		5890/044		Lubricating Grease for Traction Motor Bearing(WAP-5)			0.5 Kg	DO
					<b>GROUP- B ( IMPORTED + INDIGENEOUS)</b>				
19	193		<u>5716/052</u> 5816/041	29720722 2217 C	POLYESTER GLASS SILK TAPE SIZE - 0.09 ± 0.01 mm X 20 mm		ISOSEAL MF 611 OF ISOVOLTA OR EQUIVALENT CLW/TM/193 (Rev 0) or Latest	687 m	2307 Sec = 540 m 2308 Sec = 147 m COMMON TO 6FRA 6068
20	0056		<u>5760/600</u> 5860/100	2994 0552 0117 A	Temperature Sensor Assly. (Complete) for 3 phase TM type 6 FRA 6068 & 6 FXA 7059		4TMS 096 087 CLW/TM/17320 (Rev 0) or Latest	01 set	Total qty = 75 % of total requirement
21	0055		<u>5860/150</u>	2994 0540 0117 A	Completely assembled Temperature Sensor for 3 phase TM type 6 FXA 7059		4TMS 096 085 Ref - 2. All -3 or latest STR No CLW/TM/17320 Rev 0 or latest	01 No.	Total qty = 25 % of total requirement of 6 FXA 7059
22			<u>5721/333</u> 5821/209		MOLYCOTE (R) G-N PLUS OF DOW CORNING OR HIGH TEMPERATURE EP GREASE MK-W82-HT FROM M.K IMPEX CANADA			0.05 Kg	COMMON TO 6FRA 6068
23	171		<u>5712/322</u> 5812/202 302, 402 5813/205 305 & 405 5814/102 5815/015	2972 1120 2217 A	MICA GLASS FABRIC TAPE M/GI- Gwb 18. SIZE - 0.12 X 15 mm (IN ROLL OF 30 m) ABB Ident No. HZN 451028 R/P No. P 0015		HZN-02354 (I I No) CLW/TM/0171 (Rev 1) or Latest	2840 m	COMMON TO 6FRA 6068
24	263		<u>5716/034</u> 5816/027	29721090 1317 C	THINNER FOR STATOR WASHING		4TMS 096 020 CLW/TM/0263(Rev 0) or Latest	10 Kg	2101 Sec = 5 Kg 2308 Sec = 5 Kg

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25	173		5712/324 5812/204, 304 & 404	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. GMN 590755 R/P No. : P 1090		HZN - 02435 (DI No.) CLW/TM/173 (Rev.0) or Latest	90 m	SI No.24.25 & 26 to be dealt together COMMON TO 6 FRA 6068
26			5712/325 5812/205, 305 & 405	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. GMN 590755 R/P No. : P 1090			280 m	2307 Sec. = 65 m 2308 Sec. = 215 m COMMON TO 6 FRA 6068
27			5712/326 5812/206 356 & 376 306 & 406	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. GMN 590755 R/P No. : P 1500			45 m	COMMON TO 6FRA 6068
28	862		5716/015 5816/012 & 013	29721118 2217 A	POLYAMIDE (NOMEX) PA VLIES 1, Size : 2.5 X 1000 mm (IN CONTINUOUS ROLL OF 10 m) ABB IDENT NO. HZN 451139 R/P No. : P 1000		4TMS.096.028 ALT.-1 or Latest CLW/TM/015 (Rev.1) or Latest	2.75 m of width 1000 mm	DO
29	867		5716/005 5816/008	29721052 2217 A	GLASS FIBRE CORD - 1 Ø 7 ABB IDENT NO. GMN 592010 R/P No. : P 0107		ZN 02035 (DI No.) EL/TM/2066 (latest version)	25.25 m	DO
30			5716/006 5816/007	29721260 2217 A	GLASS FIBRE CORD - 1 Ø 11 ABB IDENT NO. GMN 592010 R/P No. : P 0111			5 m	DO
31			5816/006	29721271 22 17 C	GLASS FIBRE CORD - 1 Ø 16 ABB IDENT NO. GMN 592010 R/P No. : P 0116			5 m	UN-COMMON TO 6FRA 6068
32			5716/051 5816/037	29720710 2217 C	FLAT HOSE GI Gefl - 7, Size - 1.6 X 17 mm ABB IDENT NO. HZN - 451141		HIME - 650108 (DI No.) EL/TM/2066 (latest version)	120 m	COMMON TO 6FRA 6068
33			5716/024 5816/010	29721088 2217 C	HOSE GI Gefl - 3 (FLAT HOSE) SIZE - 4 X 22 mm ABB IDENT NO. NB1 401106 R/P No. : P 0018		HZN - 02350 (DI No.) EL/TM/2066 (latest version)	1.8 m	DO
34	422	5811/205		2994 5318 0317 B	<b>SET OF STATOR &amp; ROTOR STAMPINGS</b> <b>EACH SET CONSISTING</b> <b>OF FOLLOWING FIVE (05) ITEMS</b>		STR NO CLW/TM/0421/STATOR & ROTOR STAMPINGS/ALT-2 or Latest	01 SET	
					i) STATOR MAIN STAMPINGS	1TWD 097 001, Alt.3. Ref. 1 or Latest	4TMS.096.053 Rev-2. Alt. - 5 or Latest		
					ii) SOLID STATOR END PLATE	SKEL 4887 (latest version)			
					iii) ROTOR MAIN STAMPINGS	2TWD.097.002, Alt.4. Ref. 1 or Latest	4TMS.096.053 Rev.2. Alt. - 5 or Latest		
					iv) ROTOR MID STAMPINGS	2TWD 097 002, Alt 4 Ref. 3 or Latest	4TMS.096.053 Rev-2. Alt. - 5 or Latest		
					v) SOLID ROTOR END PLATE	SKEL 4888 (latest version)			

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35	893		<u>5821/205</u>	2994 5203 0117 B	ROTOR END RING (CNC MACHD.)	2TWD.097.013 Alt.-3. Ref. - 1	4TMS.096.068 Rev.-1, ALT.-4 or Latest STR No: CLW/TM/18109 Rev. 0 or Latest	02 Nos.	UN-COMMON TO 6FRA 6068
36	182		<u>5816/009</u>	29945252 0117 C	STATOR SLOT WEDGE	4TWD.097.017 (latest version)	ZN 02148 CLW/TM/STR/12060 or Latest	150 Nos.	DO
37			<u>5715/600</u> <u>5815/100</u>		TERMINAL BOARD ASSLY. (COMPLETE)	2TWD.096.019 (latest version)	4TMS.096.025 or Latest	01 No.	COMMON TO 6FRA 6068
38	170		<u>5721/321</u> <u>5812/201</u> <u>301, 401</u>	2994 0370 1317F	WINDING WIRE FLAT FI Cu Fo 13 GR Size:- BARE (4.00 X 2.00) mm & INSULATED (4.23 X 2.23) mm		HIFE - 650030 Alt. 4 or Latest	160 Kg.	DO
39	372	<u>5890</u> <u>/057</u>		2994 5422 0317B	SET OF STATOR CHAMBER AND ASSOCIATED COMPONENTS EACH SET CONSISTING 14 NOS. FOLLOWING ITEMS:-	As per Annexure B		01 Set	
			5811/202		(i) STATOR CHAMBER/DE (CNC MACHD.) RDSO STR NO. -21, Rev-1	1TWD.097.010, Alt-3 or Latest	4TMS.096.059 Alt. - 5 or Latest		
			5890/001		(ii) BEARING COVER (DE) (CNC MACHD) RDSO STR NO. -21, Rev-1	3TWD 097.036, Alt. 2 or Latest	4TMS.096.068 Rev-1 Alt. - 4 or Latest		
			5820/102		(iii) INNER LABYRINTH/DE (CNC MACHD.) RDSO STR NO. -21, Rev-1	4TWD.097.035 Alt. -2 or Latest	DO		
			5890/002		(iv) INNER LABYRINTH/DE (CNC MACHD ) RDSO STR NO. -21, Rev-1	4TWD 097.037 Alt. -2 or Latest	DO		
			5830/101		(v) END FRAME /DE ASSLY. (CNC MACHD ) WITH AIR OUTLET NET & RDSO STR NO. 21, Rev-1	1TWD 097.011 Alt. -4 or Latest & 3TWD 097.008 Alt. - 1 or Latest	4TMS 096.068 Rev.1, Alt. -4 or Latest		
			5811/201		(vi) STATOR CHAMBER/NDE (CNC MACHD ) RDSO STR NO. -21, Rev-1	1TWD.097.009, Alt-2 or Latest	4TMS.096.059 Alt. 5 or Latest		
			5890/005		(vii) BEARING CAP/NDE (CNC MACHD ) RDSO STR NO. -21, Rev.1	3TWD 097.039 Alt. 3 or Latest	4TMS.096.068, Rev.-1, Alt. - 4 or Latest		
			5890/007		(viii) CLAMP PLATE/NDE (CNC MACHD.) RDSO STR NO. -21, Rev-1	2TWD 097.040 Alt. 2 or Latest	DO		
			5820/101		(ix) INNER LABYRINTH/NDE (CNC MACHD ) RDSO STR NO. -21, Rev-1	4TWD 097.034 Alt.-2 or Latest	DO		
			5890/004		(x) INNER LABYRINTH/NDE (CNC MACHD ) RDSO STR NO. -21, Rev.1	4TWD 097.038 Alt.-2 or Latest	DO		
			5840/101		(xi) END FRAME /NDE ASSLY (CNC MACHD ) with covering & RDSO STR NO. 21, Rev-1	0TWD 097.012 Alt. 5, Ref. -1, or Latest 4 TWD 097.042 (latest version)	DO		
			5870/101		(xii) SPEED PROBE HOUSING (CNC MACHD ) & RDSO STR NO. 21, Rev-1	1TWD 096.077 Alt-4 or Latest	DO		

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MATERIAL DEMAND SCHEDULE OF 3-PHASE TRACTION MOTOR TYPE 6 FXA 7059 FOR THE YEAR 2020-21

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			5811/300		(xiii) MACHINED TERMINAL BOX ASSLY.	3TWD.096.059 Alt. 3 or Latest	4TMS.096.055 Alt- 5 or Latest STR No: CLW/TM/18310 or Latest		
			5880/100		(xiv) 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		
40	565		<u>5821/104</u>	7698 2129 1317 F	COPPER WELDING WIRE FOR MIG WELDING. Size:- $\phi$ 1.6 mm ON ROLLS (STANDARD ROLLS)		AS PER DIN-1733 MATERIAL NO. 2.1006 STR No: CLW/TM/950 Rev. 0 or Latest	5 Kg	UN-COMMON TO 6FRA 6068
41	183		<u>5821/101</u>	2994 5057 0117 S	ROTOR BAR (MACHINED)	4TWD.097.022 Alt.-3 or Latest	4TMS.096.060 Alt-8 STR No: CLW/TM/9039 Rev. 0 or Latest	88 Nos.	DO
42	184		<u>5821/102</u>	2994 5112 0117 F	SHRINK RING (MACHINED)	4TWD.097.023 Alt.-1 or Latest	4TMS.096.063.Alt.-2 STR No: CLW/TM/17140 Rev. 0	02 No.	DO
43	185		<u>5821/103</u>	2994 5124 0117 F	RESISTANCE RING (MACHINED)	4TWD.097.024 Alt.-3 or Latest	4TMS.096.064.Alt.-5 or Latest STR No: CLW/TM/9069 Rev. 0 or Latest	02 No.	DO
44	902		<u>5813/100</u>	2994 5368 0317 B	CONNECTION COMPLETE WITH CLAMPING PLATE (WITHOUT INSULATION)	1TWD.097.007 Alt.-3 or Latest	4TMS.096.062 Alt.-4 or Latest STR No: CLW/TM/10060 Rev. 0 or Latest	01 SET	DO
45	399		<u>5821/201</u>	2994 5069 0117 S	ROTOR SHAFT (ROUGH MACHINED)	3TWD.097.005 Alt. - 3 or Latest	4TMS.096.051Rev.-1, Alt. - 3 or latest STR No: CLW/TM/10100/ Armature shaft/ Rotor shaft( Rough Machined)	01 No.	Do Manufacturing Spares are taken @2.5% Vide Note No: TM/M-20/05 Dtd:22.12.16
46	377		<u>5814/101</u>	2994 5331 0117 F	NEUTRAL CONDUCTOR RING ASSLY. (WITHOUT INSULATION)	4TWD.097.006. Alt. -1,Ref -1 or Latest	4TMS.096.062 Alt. -4 or Latest STR No: CLW/TM/10060 or Latest	01 Nos.	UN-COMMON TO 6FRA 6068
47	0058		<u>5800/000</u>		3-PHASE ASYNCHRONOUS TRACTION MOTOR TYPE 6FXA 7059		4TMS.097.001 Alt. - 5 STR No: CLW/2008/ 3PH/TM/STR 0001 or Latest	01 No.	
49					<b>GROUP- D ( SHORT DELIVERY INDIGENEOUS )</b>				
50	904		<u>5890/020</u>	2967 0020 0117 I.	NAME PLATE FOR RATING	4TWD.097.043. Alt. 2 or Latest	CLW/TM/17290 (latest version)	01 No.	UN-COMMON TO 6FRA 6068
51	879		<u>5700/000</u> <u>5890/055</u>		NAME PLATE	4TWD.096.000. Alt. 2 or Latest	CLW/TM/17290 (latest version)	02 Nos	COMMON TO 6FRA 6068

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52	938		<u>5811/203</u>	2994 5215 0117 B	TENSION BAR	4TWD.097.026 Alt.- 3, Ref.-1 or Latest	4TMS.096.055 Alt- 5 or Latest STR No: CLW/TM/939 Rev. 1 or Latest	06 Nos.	UN-COMMON TO 6FRA 6068
53	939		<u>5811/204</u>	2994 5227 0117 B	TENSION BAR	4TWD.097.026 Alt.- 3, Ref.-2 or Latest	4TMS.096.055 Alt- 5 or Latest STR No: CLW/TM/939 Rev. 1 or Latest	02 Nos.	DO
54	935		<u>5811/209</u>	2994 5239 0117 B	STATOR RIB	4TWD.097.030, Ref.- 1 (latest version)	STR No: CLW/TM/939	01 Nos.	DO
55	936		<u>5811/210</u>	2994 5240 0117 B	STATOR RIB	4TWD.097.030, Ref.-2 or Latest	Rev. 1 or Latest	01 Nos.	DO
56	937		<u>5821/202</u>	2994 5070 0117 S	KEY	4TWD.097.031 (latest version)	DO STR No: CLW/TM/18310 or Latest	01 No.	DO
57	891		<u>5721/324</u> <u>5821/206</u>		HALF RING	4TWD.096.049, Alt. 2 or Latest	DO STR No: CLW/TM/18190 Rev. 0 or Latest	02 Nos.	COMMON TO 6FRA 6068
58	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 6FXA 7059 )	4TWD.096.044 Alt-7 or Latest 4TWD.096.101 Alt 3 or Latest	4TMS.096.084 or Latest	01 Set	COMMON TO 6FRA 6068 with SCH.-I rotor
59	387		<u>5711/308</u> <u>5811/206</u>	2994 0527 0117 B	FLANGE	4TWD.096.067, Alt. 5 or Latest	STR No: CLW/TM/17501 Rev. 0,4TMS 096.055, Alt-5 or Latest	01 No.	COMMON TO 6FRA 6068
60	375		<u>5811/208</u>	2994 5082 0117 S	WELDING PLATE	4TWD.097.029 Alt- 2 or Latest	CLW/TM/17050 (latest version)	01 No.	UN-COMMON TO 6FRA 6068
61	385		<u>5711/309</u> <u>5811/207</u>		EARTHING STUD	4TWD.096.066 Alt. 1 or Latest	CLW/TM/17040 (latest version)	01 No.	COMMON TO 6FRA 6068
62	913		<u>5780/018</u> <u>5890/014</u>		HOSE CLAMP	4TWD.096.070 Alt. 1 or Latest	STR No: CLW/TM/17280 Rev. 0 or Latest	01 No.	COMMON TO 6FRA 6068
63	922		<u>5713/434</u> <u>5813/204</u> , 305, 405 & 5816/004	2594 8556 1317 F	SILVER BRAZING ALLOY ROD Ø 2 X 500 ± 6 mm LONG		TO IS: 2927-75, Gr. BA-Cu-Ag16A STR No: CLW/TM/951 Rev. 0 or Latest	0.4 Kg. (Shop 23 = 0.4 Kg)	COMMON TO 6FRA 6068
64	992		<u>5713/437</u> <u>5813/207</u> 308, 408 & 5816/029	2590 8095 1317 F	BRAZING FLUX SUITABLE FOR SILVER BRAZING ALLOY ROD & SILVER BRAZING ALLOY FOIL		TO IS: 2927-75, Gr. BA-Cu-Ag16A STR No: CLW/TM/961 Rev. 0 or Latest	0.18 Kg. (Shop 21 = 0.1 Kg Shop 23 = 0.08 Kg)	COMMON TO 6FRA 6068
65	873		<u>5760/013</u> <u>5890/008</u>		THRUST CARRYING PIECE	4TWD.096.037 Alt 2 or Latest	4TMS.096.055 Alt 5 STR No: CLW/TM/18310 (latest version)	01 No.	COMMON TO 6FRA 6068

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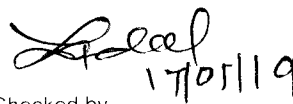
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**MATERIAL DEMAND SCHEDULE OF 3-PHASE TRACTION MOTOR TYPE 6 FXA 7059 FOR THE YEAR 2020-21**

SN	TENDER CASE No.	KIT C&D. NO.	C&D.NO	M.C. NO.	DESCRIPTION	DRAWING NO.	SPECIFICATION NO./ STR No.	QTY./ TM	REMARKS
66	914		5890/071	2937 5071 0117D	RUBBER BUSH for 6 FXA 7059	4TWD.097.075 (latest version)	STR No: CLW/TM/14350 Rev. 0 or Latest	03 Nos.	UN-COMMON TO 6FRA 6068
67	917		5890/006	2994 5380 0117D	SEALING RING Ref.- 3	4TWD.096.030/3 Alt.-3 or Latest	4TMS.096.086 (latest version) STR No: CLW/TM/14350 Rev. 0 or Latest	01 No.	DO
68			5780/007 5890/003	2925 0584 0117D	SEALING RING Ref.- 2	4TWD.096.030/2 Alt.-3 or Latest	Do	1.4 No.	COMMON TO 6FRA 6068
69			5780/015 5890/013	2994 5446 0317 D	CORRUGATED HOSE COFLEX	3TWD.096.072 Alt.-4 or Latest		01 Set	DO
70			5780/053 5890/043		CABLE BINDER	4TWD.096.079 Alt.-2 or Latest	4TMS.096.067 (latest version)	05 Nos.	DO
71			5780/054 5890/054	2994 5100 0317 D	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 (latest version)	0.11 litre	Do
72	398		5880/200	29945100 0317D	CLAMP ASSLY. (WITHOUT WELDING PLATE)	2TWD.097.018 Alt.-1 or Latest	CLW/TM/17220 (latest version)	01 set.	UN-COMMON TO 6FRA 6068
73			5780/074 5890/056		LIQUID GASKET (THREE BOND 1105 of M/s THREE BOND Co. LTD /JAPAN or SIMILAR)		4TMS.095.017 (latest version)	0.1 Kg	COMMON TO 6FRA 6068
74			5716/041 5816/044	29720734 2217 C	ADHESIVE GLASS CLOTH TAPE Size:- 0.14 x 19 mm WIDE (IN CONTINUOUS ROLL OF 30 m)		4TMS.096.026 CLW/TM/12079/STR /AGCT(Rev.0) or Latest	15 m	DO
75			5716/042 5816/042	29720746 2217 C	ADHESIVE GLASS CLOTH TAPE Size:- 0.14 x 50 mm WIDE (IN CONTINUOUS ROLL OF 30 m)			10 m	DO
76			5716/044 5816/043	29720576 0117 C	POLYESTER FILM (Y-P) 2 MIL. THK. SIZE:- 100 mm X 500 mm		A 0207 Alt.-3 or Latest	150 Nos.	DO
77			5716/043 5816/045	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	DO
78			5716/056 5816/044	25/22682 5117 A	METHYL ALCOHOL OR INDUSTRIAL SOLVENT IS SIMILAR TO METHYL ALCOHOL		TO IS: 517/86 or Latest Gr. METHANOL PURE/TECH	0.95 litre	DO
79			5716/062 5816/051	819807605117A	TOLUOLE (Industrial Grade)		IS 536/1968 or Latest	0.16 Kg	Common to 6FXA 7059

  
Prepared by  
JE/DRG(E)


  
Checked by  
SSE/DRG (M)

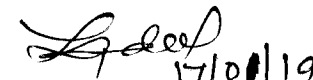
  
Approved by  
Dy CEE/TMD



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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
80					<b>GROUP- E ( HARDWARE ITEMS )</b>				
81	101	<u>5890</u> <u>/057</u>		2994 5446 0317 L	"CYLINDRICAL PIN KIT"		4TMS.096.072, Alt.-1or Latest	01 SET	SHOP 21 = 5890/057 Un-common to 6FRA-6068
82	102	<u>5890</u> <u>/067</u>	5890/058 5816/047	2994 5483 0317 L	"MACHINED WASHER KIT"		4TMS.096.073, Alt.-1 or Latest	01 SET	SHOP 21 = 5890/058 SHOP 23 = 5816/047 Un-common to 6FRA-6068
83	110	<u>5890</u> <u>/068</u>	5890/060 5816/048	2994 5501 0317 L	"SPRING WASHER KIT"		4TMS.096.074, Alt.-1, or Latest CLW/TM/11020(Rev-0) or Latest	01 SET	SHOP 21 = 5890/060 SHOP 23 = 5816/048 Un-common to 6FRA-6068
84	108	<u>5890</u> <u>/069</u>	5890/062 5816/049	2994 5513 0317 L	"STANDARD HARDWARE KIT"		4TMS.096.075, Rev '0' STR No: CLW/TM/0854 Rev. 1 or Latest	01 SET	SHOP 21 = 5890/062 SHOP 23 = 5816/049 Un-common to 6FRA-6068
85	107	<u>5890</u> <u>/070</u>	5890/064 5890/018	2994 5525 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 = 5890/064 SHOP 23 = 5816/018 Un-common to 6FRA-6068
86	105	<u>5890</u> <u>/066</u>		2994 5537 0317 L	"NON-STANDARD HARDWARE KIT"		4TMS.096.077, Alt.-2 or Latest	01 SET	SHOP 21 = 5890/066 Un-common to 6FRA-6068
87	851		<u>5860/124</u>	2994 5434 0317 A	KITS FOR TEMPERATURE SENSOR ASSEMBLY FOR TM TYPE 6FXA 7059	4TWD.096.163 ALT. 4 or Latest REF.2		01 NO	

  
Prepared by  
JE/DRG(E)

  
Checked by  
SSE/DRG (M)

  
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Dy CEE/TMD.