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THREE PHASE TRACTION MOTOR

COMMON ITEMS FOR 6FRA 6068 AND 6FXA 7059								
1	Mica Glass fabric Tape Mi/GI -Gwb 18 Size 0.12X15 mm 5712/322 & 5812/202	HZN-02354	LAKSHMANAN B'LORE	L-10		3A ASSOCIATES/ MUMBAI	A-42	
			L.B. LOGISTIC / SWITZERLAND	L-11		PERFECT INSULATOR	P-29	
			Von Roll Switzerland Ltd./Switzerland	V-10		Isovolta India (P) Ltd./Kol	I-16	
						Ruby Mica Co. Pvt.ltd/ Gridih	R- 24	
2	<ul style="list-style-type: none"> • Auto Adhesive Tape Size:0.07X9.5 mm 5712/324 & 5812/204 • Auto Adhesive Tape Size 0.07X19.1 mm 5712/325 & 5812/205 • Auto Adhesive Tape Size:0.076X50mm 5712/326 & 5812/206 	HZN - 02435	3A ASSOCIATES /MUMBAI	A-42				
			CG-PPI /GOA	C-23				
			WACHENDORF AG/ SWZ. (THROUGH L.B. LOGISTIC/SWITZERLAND	L-10				
			BHEL/BHOPAL	B-57				
			PRS PERMACEL /MUMBAI	P-				
			INTEK TAPES/B'LORE	I-				
3	Polyimide Foil PI-FO1 (Kapton) Size 0.125 x 510 mm 5712/327 & 5812/207	HZN - 02575	DUPONT/USA/JAPAN	D-12				Any supplier having valid authorization from DUPONT can participate.

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4	<ul style="list-style-type: none"> • Polyamide Paper PAPI, (Nomex) Size 0.25 x 914 mm 5716/001, 5816/001 • Polyamide Paper PAPI (Nomex) Size 0.38 x 914 mm 5716/023, 5816/005 	<ul style="list-style-type: none"> • HZN – 02239 • HZN – 02239 	DUPONT/USA/JAPAN	D-12				Any supplier having valid authorization from DUPONT can participate.	
5	<ul style="list-style-type: none"> • Polyamide PA Vlies (Nomex) Size 2.5x1000 mm 5716/015 5816/012 	4TMS.096.028	FREUDENBERG	F-18	<ul style="list-style-type: none"> • 3A ASSOCIATES /MUMBAI • Supreme NON-Woven Ind.(P) Ltd./Jaipur 	<ul style="list-style-type: none"> • A-42 • S-75 	UNION PRESTRESS (P) Ltd./ JAIPUR	U-03	
6	<ul style="list-style-type: none"> • Glass Fibre Cord 1 Dia 7 5716/005 & 5816/008 • Glass Fibre Cord 1 Dia 11 5716/006 & 5816/007 • Glass Fibre Cord 1Dia 16 5716/007 & 5816/006 	ZN - 02035	<ul style="list-style-type: none"> • L.B. LOGISTIC / SWITZERLAND • UNION PRESTRESS/ JAIPUR 	<ul style="list-style-type: none"> • L-11 • U-03 	<ul style="list-style-type: none"> • KIRAN UDYOG/ BIDAR • 3A ASSOCIATES /MUMBAI 	<ul style="list-style-type: none"> • K-19 • A-42 			
7	<ul style="list-style-type: none"> • Flat Hose GI Gefl 7 Size 1.6 x 17mm 5716/051 & 5816/037 • Flat Hose GI Gefl –3 Size 4x 22 mm 5716/024 & 5816/010 	<ul style="list-style-type: none"> • HIME – 650108 • HZN – 02350 	<ul style="list-style-type: none"> • L.B. LOGISTIC / SWITZERLAND • UNION PRESTRESS/ JAIPUR • 3A ASSOCIATES /MUMBAI 	<ul style="list-style-type: none"> • L-11 • U-03 • A-42 	<ul style="list-style-type: none"> • KIRAN UDYOG/ BIDAR 	<ul style="list-style-type: none"> • K-19 			
8	<ul style="list-style-type: none"> • Polyester Glass Silk Tape 5716/052 & 5816/041 	ISOSEAL MF 611 OF ISOVOLTA or Equivalent	Isovolta /Austria	I-16	VONROLL ISOLA	V-07	KE Technical Textile/KGP	K-25	

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					3A ASSOCIATES / MUMBAI	A-42	UNION PRESTRESS (P) Ltd./ JAIPUR	U-03	
9	Silicon Impregnating Resin SILRES H62C	Wacker's SILRES H62C or Equivalent	WACKER CHEMI/ GERMANY	W-06					
10	Auxiliary Material 38 5716/012 & 5816/019	HZLK - 605002	ABB IND/ SWITZERLAND	A-04					
11	<ul style="list-style-type: none"> • Silicon Rubber Component Elastosil RTV 622 A 5716/045 & 5816/038 • Silicon Rubber Component Elastosil RTV 622 B 5716/046 & 5816/039 • Primer G790 5716/047 & 5816/040 	Silicon Rubber Component Elastosil RTV 622 A & B or Wacker Metroark Chemicals or equivalent Primer G790 of Wacker Metroark Chemicals or equivalent	WACKER CHEMI/ GERMANY (DRAWIN)	W-06			ALTROPOL KUNSTOFF /GMBH	A-50	Any supplier having valid authorization from OEM can participate.
12	<ul style="list-style-type: none"> • Basic Resin SI-32 5716/019 & 5816/022 • Accelerator 27 5716/020 & 5816/023 	<ul style="list-style-type: none"> • HIFE – 650004 • 4TMS.096.016 	DOW CORNING	D-10					Any supplier having valid authorization from OEM can participate.

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13	<ul style="list-style-type: none"> Speed Sensor assly 5750/500 & 5850/100 Speed indicator Ring 5780/009 & 5890/011 	<ul style="list-style-type: none"> 3EHM.311880 Rev.F HMMT-311427RevD 	INTERLOCK /SWZ (WPS SERVICE / SWITZERLAND AS DEALER OF M/S INTERLOCK)	I-17			
14	Temp. Sensor Assly 5760/600 & 5860/100	3EHM 311882 ALT-3	TEMP. SENSOR PROBE OF ALLMETRA WITH OTHER ACCESSORIES THROUGH ADTRANZ/SWZ., ABB OR ANY OTHER SUPPLIER HAVING VALID AUTHORIZATION	A-28 A-07 A-04	TROLEX/ BANGALORE	T-15	50% of TM temperature sensor should be PT100 element from OEM (Almetra) and 50% from other make i.e. with Trolex U.K. make sensor for M/s Trolex (I) Pvt Ltd/B'lore & UST Germany make sensor for M/s Florican Enterprise /Bhopal
15	Thinner for Stator washing 5716/034 & 5816/027	4TMS.096.030	WALTER MADER AG (MADER LACKE)	W-8	MAHENDRA CHEMICAL/ KOL	M- 30	
					AUSTIN PAINT & CHEMICALS /KOL	A- 51	
					3A ASSOCIATES /MUMBAI	A-42	

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16	<ul style="list-style-type: none"> •Stator main stampings 5711/301 •Stator end plate assly. 5711/340 •Rotor main stamping 5721/325 •Rotor mid stamping 5721/326 •Rotor end plate assly.5721/350 •Stator main stampings 5811/205 •Stator end plate assly. 5811/250 •Rotor main stamping 5821/203 •Rotor mid stamping 5821/204 •Rotor end plate assly. 5821/250 	<ul style="list-style-type: none"> • 1TWD.096.015,ALT-2, REF-1. • 4TMS.096.053 REV.2 • 3TWD.096.018,ALT-4 • 1TWD.096.010,ALT-6, REF-1. • 4TMS.096.053,Rev.2 • 1TWD.096.010,ALT-6, REF-2. • 4TMS.096.053,REV2 • 3TWD.096.109,ALT-6 • 1TWD.097.001 ALT2, REF 1 • 4TMS.096.053 REV2 • 3TWD.097.003 Alt-1 • 2TWD.097.002 REF 1, ALT 3 • 4TMS.096.053 REV2 • 2TWD.097.002 REF 3, ALT 3 • 4TMS.096.053 REV2 • 2TWD.097.004 Alt 2 	CGL / MB	C-14	PEARL ENGINEERING CO. /NDLS	P-31	KAPIL CORE PACK/NDLS	K-21	
			BHEL/BPL	B-12					
			KAPSONS/ JALANDHAR	K-20					
17	Rotor Shaft (Rough Machd) 5721/327 & 5821/201	<ul style="list-style-type: none"> • 3TWD.096.073,ALT-4 • 4TMS.096.051, Rev1 • 3TWD.097.005 • 4TMS.096.051Rev1 	BHARAT FORGE/PUNE	B-33	FORGINGS (INDIA) IRON & STEEL LTD/HWH	F-20			
		GHAZIABAD ISPAT UDYOG/GZB	G-14						
		FIELD GUN FACTORY /CNB	F-19						
		P.K. ENGG & FORGING /KOL	P-30						
		RAIL WHEEL FACTORY /SBC	R-22						

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			VIKRANT Forging Ltd /KOLKATA	V-02			
			VISHNU FORGE IND/SBC	V-08			
18	Neutral conductor Ring 5714/501 & 5814/101	<ul style="list-style-type: none"> •4TWD.096.061,ALT-3, REF-1 •4TMS.096.062, ALT-3 •4TWD.097.006 REF-1 ALT-1 •4TMS.096.062 ALT-3 	KAY PEE EQUIP/HWH	K-02			
			SELVOC / KOL	S-15			
			TIRUPATI ENGG/HWH	T-11			
19	Set of Stator Chamber & Associated Components (13 items) for 6FRA6068 type T.M.	For Details refer SN-20	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed				Prototype approval will be given by RDSO for first 06 sets.

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20	<p>13 (Thirteen) Items of Stator of 6FRA6068 T.M. a)Stator Chamber DE 5711/319 b)End Frame DE with Air Outlet Net 5780/308 c) Inner Labyrinth /DE 5720/202 d)Outer Bearing Cap /DE 5780/056 e)Inner Labyrinth /DE 5780/001 f) Outer Labyrinth DE 5780/069 g)Stator Chamber NDE 5711/320 h)End Frame NDE 5740/408 I) Inner Labyrinth (NDE) 5720/201 j) Inner Labyrinth (NDE) 5780/005 k)Bearing Cap NDE 5780/058 l)Clamp Plate NDE 5780/057 m) Speed Probe Housing 5780/079</p>	<p>a) 1TWD.096.017, ALT-5 4TMS.096.059, ALT-3 b) 1TWD.096.005, ALT-6 REF-4 4TMS.096.068 Rev1,Alt1 & 2TWD.096.078 c) 4TWD.096.043 ALT-4 d) 1TWD.096.006ALT-3 e) 4TWD.096.028ALT-3 f) 4TWD.096.029 ALT-5 g) 1TWD.096.016ALT 5 4TMS.096.059 ALT-3 h) 0TWD.096.003,ALT-7 REF-5 i) 4TWD.096.042 ALT-4 j) 4TWD.096.031ALT-3 k) 3TWD.096.032 ALT-5 l) 2TWD.096.033 ALT-5 m) 1TWD.096.077 ALT-3 & spec No. 4TMS.096.068 Rev1 Alt 1 for b to f & h to m</p>	Refer RDSO list			*TRIDENT AUTO COMPONENTS/ KANPUR	T-28	<p>* TO BE CONSIDERED FOR ITEMS c,d,e& h to k (Upto 600MM DIA) Prototype approval will be given by CLW for individuals components</p>
21	Set of Stator Chamber & Associated Components (12 items) for 6FXA70598 type T.M.	For details refer SN 22	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			Prototype approval will be given by RDSO for first 06 sets.		

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22	12(Twelve) Items of Stator of WAP-5 T.M. a)Stator Chamber DE 5811/202 b)End Frame DE with Air Outlet Net 5830/101 c) Inner Labyrinth /DE 5820/102 d)Inner Labyrinth /DE 5890/002 e) Bearing Cover DE 5890/001 f)Stator Chamber NDE 5811/201 g)End Frame NDE 5840/101 h)Inner Labyrinth (NDE) 5820/101 i)Inner Labyrinth (NDE) 5890/004 j)Bearing Cap NDE 5890/005 k)Clamp Plate NDE 5890/007 l) speed Probe Housing CNC Machd 5890/101	a) 1TWD.097.010 REF-1, ALT-2 4TMS.096.059, ALT-3 b) 1TWD.097.011ALT-4 REF-1 & 3TWD.097.008 c) 4TWD.097.035 ALT2 d)4TWD.097.037 ALT-2 e)3TWD.097.036 ALT-2 f) 1TWD.097.009 REF-1 Alt 1 4TMS.096.059, ALT-3 g) 0TWD.097.012 ALT-3 REF-1 h) 4TWD.097.034 ALT-2 i) 4TWD.097.038 ALT-1 j) 3TWD.097.039 Alt 2 k) 2TWD.097.040 ALT-1 & spec No 4TMS.096.068 Rev 1 for b to e and g to l l) 1TWD.096.077 Alt 3	Refer RDSO vendor list			*TRIDENT AUTO COMPONENTS/ KANPUR	T-28	*TO BE CONSIDERED FOR ITEMS c,d,e& h to k (Upto 600MM DIA) Prototype approval will be given by CLW for individuals components
23	Rotor End Ring (Modified) CNC Machd. 5721/332 & 5821/205	•2TWD.096.100ALT-1 •2TWD.097.013 REF-1 ALT-3 •4TMS.096.068 Rev 1Alt 1	Sources to be similar as in the Sn 20 i.e. RDSO sources for sn 20			TRIDENT AUTO COMPONENTS/ KANPUR	T-28	
					SPECIAL ENGG SERVICE S LTD /KOL	S-53		
24	Stator Slot wedge 5716/004 &	• 4TWD.096.050,	GLASS FIBRE / MB	G-12	PERMALI WALLACE /BPL	P-22		

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	5816/009	ALT-2 ZN-02148 •4TWD.097.017 ZN02148	MICAPLY / BHOPAL	M-21	SUPRAPARK/ Switzerland	S-61			
25	Terminal Board Assly 5715/600 & 5815/100	2TWD.096.019 4TMS.096.025	IMF / CAL Atul Ind /FBD Permal Wallace /BPL Santi Fibre /Kol RG Ind/Kol MICAPLY/BPL	I-09 A-32 P-22 S-09 R-18 M-21	Glass Fibre Allied /MB	G-12			
26	Winding wire FI Cu Fo 13 CR size 4.00 x 2.00 (BARE) 5712/321 & 5812/201	HIFE-650030, ALT-4	RDSO APPROVED VENDOR LIST (LATEST VERSION) FOR POLYIMIDE COVERED CONDUCTOR IS TO BE FOLLOWED.						
27	Copper Welding Wire For MIG welding, Dia-1.6 mm in roll (Standard Rolls) 5721/304 5821/104	As per DIN-1733, Material No.2.1006	L.B. LOGISTIC/ SWITZERLAND POONAM TRADING / KOL	L-11 P-34	ADOR WELDING LTD/MUMBAI	A-48	ESAB (I) Ltd/Kol DIFFUSION ENGINEERS LTD/NAGPUR	E-26 D- 14	
28	Rotor Bar 5721/301 5721/305 5821/101 5721/311 5721/312	•4TWD.096.110, ALT-6 •4TWD.096.162 ALT-4 •4TWD.097.022, ALT-3 and Spec No. •4TMS.096.060,ALT-7 RDSO/2008/EL/Spec/ 0063 Rev 1.	INDIAN METAL & ALLOY / KOL SELVOC ENTERPRISE/KOL RADHIKA INDUSTRIES / KANPUR	I-08 S-15 R-23			Malwa Strips (P) Ltd./Dewas Copprrrod Ind Pvt Ltd/ Tumkun Vimlesh Industries/ Sonepat	M-31 V-10	JMW (I) Pvt Ltd. /J&K J- 14
29	Shrink Ring 5721/302 & 5821/102	•4TWD.096.109,ALT-1 •4TMS.096.063,ALT-1 •4TWD.097.023 •4TMS.096.063,ALT-1	CHANDRA UDYOG/KOL SELVOC ENTERPRISE /KOL	C-05 S-15	INDIAN METAL & ALLOY /KOL	I-08			
30	Resistance Ring	•4TWD.096.047, ALT-5	IMA/ KOL	I-08	VERSATILE/HWH	V-09			

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	5721/303 5721/306 5821/103 5721/313 5721/314	•4TWD.096.161, ALT-5 •4TWD.097.024, ALT-3 and Spec No. 4TMS.096.064, ALT-5 RDSO/2008/EL/Spec/ 0063 rev-1	METAL ENGG / KOL	M-06	ZOLLERN / GERMANY	Z-03					
			PAHLADRAI STEEL FORGING WORKS/CNB	P-35							
			SELVOC ENTERPRISE / KOL	S-15							
31	Connection complete with Clamping Plate 5713/400,5813/100	1TWD.096.014,ALT-4 4TMS.096.062, ALT-3	KAY PEE EQUIP/HWH	K-02							
			TIRUPATI ENGG /HWH	T-11							
			SELVOC ENTERPRISE/KOL	S-15							
32	Name plate 5780 /068 & 5890/055 Name Plate for Rating 5780/018, 5890/020	4TWD.096.090 4TWD.096.039. Alt 1 4TWD.097.043 Alt 1	DHAR & CO/ KOL	D-05	Sales & Service /Kol	S-05		Zonal Railways can follow their own sources.			
					Sarweshwar /Kol	S-10					
33	•Tension bar •(Modified) 5711/313 •Tension bar (Modified) 5711/314 •Tension Bar Ref 1 5811/203 •Tension Bar Ref 2 5811/204	•3TWD.096.092 ALT.1 •3TWD.096.093 ALT.1 •4TWD.097 026 REF 1 ALT2 •4TMS.096.055 ALT 1 •4TWD.097 026 REF 2,ALT2 •4TMS.096.055 ALT 1	C.S. ENGRS./ KOL	C-01	Recoton Engg Corp./ Hwh	R- 15	NATIONAL INDUSTRIES /KOLKATA	N- 08			
			INDO MECH / HWH	I-18							
			K. N. ENGG/KOL	K-23							
			VERSATILE/HWH	V-09							
34	•Stator Rib (Modified) 5711/315 •Stator Rib Ref 1	•3TWD.096.095ALT.1 •3TWD.097.030 REF-1	C.S. ENGRS/KOL	C-01	ATLANTA /HWH	A-24					
			INDO MECH/HWH	I-18	Recoton Engg Corp./ Hwh	R- 15					

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	5811/209 •Stator Rib Ref 2 5811/210	•4TMS.096.055 ALT 1 •3TWD.097.030 REF-2 •4TMS.096.055 ALT 1	VERSATILE/HWH	V-09	NATIONAL INDUSTRIES /KOLKATA K.N. ENGG/KOL	N-08 K-23		
35	Key 5721/322 & 5821/202	•4TWD.096.048ALT.1 •4TMS.096.055, ALT-1 •4TWD.097.031 •4TMS.096.055 ALT 1	HARADHAN / HWH INDO MECH / HWH TIRUPATI ENGG/KOL VERSATILE / HWH	H-04 I-18 T-11 V-09	C.S. ENGRS./ KOL K. N. ENGG	C-01 K-23		
36	•Balance Weight, 5720/203, 204 &205 5820/103,104 &105 •Balance Weight (Modified) 5720/208 & 5820/210	•4TWD.096.044, ALT-6 •4TWD.096.101, ALT-2	B.K.IND/HWH KAY PEE /HWH K.N. ENGG/KOL NATIONAL IND/ HWH TIRUPATI ENGG./KOL	B-02 K-02 K-23 N-08 T-11	TARA ENGG /HWH	T-22		
37	Flange 5711/308 & 5811/206	4TWD.096.067, ALT-3	TIRUPATI ENGG /KOL	T-11	B.G. Ind/Hwh ALPHA CARBON / KOL	B-25 A-11	SD ENGG WORKS /KOL	S- 68
38	Machined Terminal Box Assly 5711/360 & 5811/300	3TWD.096.059, ALT-3	KAY PEE / HWH TIRUPATI ENGG /KOL ALPHA CARBON /KOL	K-02 T-11 A-11	ELCO ENTERPRISE/ KOL	E-09		
39	Thrust Carrying Piece 5780/013 & 5890/008	3TWD.096.037 ALT-2 4TMS.096.055ALT-1	ALPHA CARBON /KOL	A-11	C.S. ENGRS./ KOL PIONEER GEAR/ HWH VERSATILE / HWH TIRUPATI ENGG /KOL	C-01 P-32 V-09 T-11		

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40	Hose Clamp 5780/016 & 5890/014	4TWD.096.070ALT-1	ALPHA CARBON/ KOL	A-11	ATLANTA / HWH	A-24	RECOTON ENGG /HWH	R-15	
41	Welding Plate 5711/310 & 5811/208	4TWD.096.068 4TWD.097.029	ALPHA CARBON/ KOL	A-11	ATLANTA/HWH	A-24			
					B K IND/ HWH	B-02			
					INDO MECH / HWH	I-18			
					KN ENGG./ KOL	K-23			
42	Earthing Stud 5711/309 & 5811/207	4TWD.096.066, ALT-1	KAY PEE/ HWH	K-02					
			VERSATILE / HWH	V-09					
43	Terminal Box Cover assly 5770/700 & 5880/100	4TWD.096.027, ALT-1	INDUSTRIAL MOULDERS & FABRICATORS / KOL	I-09			B.G Industries/Hwh Chandra Udyog /Hwh National Industries /Hwh	B-25 C-5 N-8	Zonal Railways can follow their own sources
44	Rubber Bush 5780/012 & 5890/009 •Sealing Ring Ref 1 5780/004 •Sealing Ring Ref 2 5780/007 & 5890/003 •Sealing Ring Ref 3 5890/006	•4TWD.096.036ALT-1 •4TWD.096.030/1 ALT-2 •4TWD.096.030/2 ALT-2 •4TWD.096.030/3 ALT-2	MGM RUBBER / KOL	M-09	Manish Rubber	M-22	Phonix Rubber /Kol	P-24	
			Swan Rubber /Kol	S-38	Sujan Ind Basant Rubber /Mumbai	S-50 B-26			
			Jaishree Rubber Products/Giridih	J-03	HG Industries /Kol	H-01			
			DIE HARD POLYMER /KOL	D-06	Shree Rubber Works/Mumbai	S-49			

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45	•Corrug Hose Coflex 5780/015 & 5890/013	3TWD.096.072, ALT-3	TARUDEEP ENTERPRISE /KOL	T-01				Zonal Railways can follow their own sources.
			Jaishree Rubber Product/Giriddih	J-03				
46	•Cable Binder 5780/053 5890/043	4TWD.096.079ALT.1	BLACK BURN / KOL	B-16	Ashwin Electro Ind /Kol	A-46		Zonal Railways can follow their own sources.
			Sure Lock Plastic Mumbai	S-70				
47	•Clip assly (without welding plate) 5780/061 •Clamp Assly (w/o welding Plate) 5880/200	•4TWD.096.082, ALT-1 •2TWD.097.018	C S ENGRS./KOL	C-01	POTENTIAL ENGG WORKS /KOL	P-36		
			HINDUSTHAN TRADING /KOL	H-16	UNIVERSAL SHEET METAL /HWH	U-07		
48	•Primer Paint 5720/207 & 5890/053 •Top Coating Paint 5780/065 & 5820/207 •Hardener for top Coating Paint-5780/066 & 5820/208 •Thinner for Top coating Paint-5780/067& 5820/209	•4TMS.096.019 •4TMS.096.020 ----- -----	MADER LACKE / SWITZERLAND	M-29				
49	•Covering (Modified)	•3TWD.096.108			ATLANTA / HWH	A-24	VERSATILE/ Hwh	V-
					C.S. ENGRS./ KOL	C-01		

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	5780/071 •Covering 5890/012	•4TWD.097.042			KN ENGG./ KOL	K-23		09	
					INDO MECH / HWH	I-18			
					TIRUPATI ENGG/KOL	T-11			
50	•Adhesive glass Cloth tape, Size 0.14 x19mm 5716/041 & 5816/044 •Adhesive glass Cloth tape, Size 0.14 x50mm 5716/042 & 5816/042	4TMS.096.026	CG-PPI / GOA	C-23					
			3A ASSOCIATES/ MUMBAI	A-42					
51	•Polyester film (Y-P) 2 mil 5716/044 & 5816/043	A-0207, ALT-2	BELLS ORGANIC/ KOL	B-35	Electrical Micanite Corporation /Kol	E-27			Only Jindal Polyester /Garware Polyester material to be used for processing
					K.C.MOHTA/ KOL	K-24			
52	High temperature Non- Asbestos Fabric Mat Size -0.762x914mm wide 5716/043 ,5816/045	4TMS.096.027 Rev 1			KE TECHNICAL TEXTILE PVT LTD /KGP	K-25			
53	a) Cylindrical pin Kit (FRA) C&D No. 5780/080 b) Cylindrical pin Kit (FXA) C&D 5890/057	4TMS.096.072 Alt-1	K.N. ENGG / KOL	K-23	ALFREDENGG./KOL	A-37			
					INDO MECH / Hwh	I-08			
			C.S. ENGRS./KOL	C-1	VERSATILE / HWH	V-09			
					KAY PEE/KOL	K-02			
54	a) Machined washer Kit (FRA) C&D No. 5780/090 (5780/081, 5716/057) b) Machined washer Kit	4TMS.096.073 Alt-1			ALFRED / KOL	A-37			
					INDO MECH / Hwh	I-08			

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	(FXA) C&D No. 5890/067 (5890/ 058, 5816/047)				K.N.ENGG / KOL	K-23		
					VERSATILE / HWH	V-09		
55	a) Spring Washer Kit (FRA) C&D No. 5780/091 (5780/ 083, 5716/058) b) Spring Washer Kit (FXA) C&D No. 5890/068 (5890/ 060, 5816/048)	4TMS.096.074 Alt-1	FORBES & Co LTD/ MUMBAI	F-22				Authorised distributor ship/dealership certification of the 'OEM' should be furnished along with the quotation.
56	a) Standard Hardware Kit (FRA) C&D No. 5780/092 (5780/ 085, 5716/059) b) Standard Hardware Kit (FXA) C&D No. 5890/069 (5890/ 062, 5816/049)	4TMS.096.075 Alt-1	BOLT MASTER/MB	B-29				Authorised distributor ship/dealership certification of the 'OEM' should be furnished along with the quotation.
			GKW/KOL	G-07				
			LAKSHMI PRECISION SCREW LTD. (LPS) /ROHTAK	L-12				
			PRECISION FASTENERS LTD. /MB	P-37			DEEPAK FASTNERS LTD/LUDHIANA	D-15
			SUNDRAM FASTENERS LTD. (TVS)/ CHENNAI	S-62				
			VARDHMAN IND FASTENERS/DELHI	V-05				

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57	a) Non Standard Hardware Kit (FRA) C&D No. 5780/089 b) Non Standard Hardware Kit (FXA) C&D No. 5890/066	4TMS.096.077 Alt-1	C.S. ENGRS. /Kol	C-01	ALFRED ENGG INDUSTRIES/ KOL	A-37			
			INDO MECH /HWH	I-08	SALES & SERVICE /KOL	S-05			DHAR & CO/KOL
58	a) Thread Insert Kit (FRA) C&D No. 5780/093, (5780/087 & 019) b) Thread Insert Kit (FXA) C&D No. 5890/070, (5890/064 & 018)	4TMS.096.076 Alt 1	ALFRED / KOL	A-37	FASTENERS MFG. /KOL	F-23	Harishrum Engg Pvt Ltd./Hwh	H-17	Authorised distributor ship/dealership certification of the 'OEM' should be furnished along with the quotation. Alfred quoted brand "Helisert" of Helisert Fastners /Kol as they are Autho.dealer of Helisert Fastners /Kol
59	Expanding Dowel Ø10 5730/303 & 5830/104	4TWD.096.075 ALT-1			VERSATILE/HWH	V-09			Zonal Railways can follow their own sources
60	Non Adhesive POLYIMIDE Flim Tape 2 mil thick x20 mm wide 5716/053	4TMS.096.029	Dupont/USA/JAPAN		KANEKA –CORPN ,USA	K-			Any supplier having valid authorization from DUPONT /KANEKA CORPN. (for Raw material) can participate
61	Kits for Temperature sensor Assly	4TWD.096.163 Alt 2	B.G. Ind /Hwh	B-25	ALFRED ENGG IND /KOL	A-37			

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	5760/624 ,		C.S. ENGS/KOL	C-01	SALES & SERVICE /KOL	S-05		
			INDO MECH/HWH	I-08	DHAR & CO/KOL	D-05		

UNCOMMON ITEMS OF 6FRA-6068											
62	•Roller Bearing 5780/049 •Roller Bearing 5780/050	NU2236 & NJ320	RDSO CONTROLLED ITEMS. RDSO APPROVED VENDOR LIST TO BE FOLLOWED								
63	SERVOPLEX SHC-120 (IOC) 5780/052	-	RDSO CONTROLLED ITEMS. RDSO APPROVED VENDOR LIST TO BE FOLLOWED								
64	Cross Piece (Modified) 5711/316	3TWD.096.094ALT-1	C.S. ENGRS./ KOL	C-01	NATIONAL						
			INDO MECH / HWH	I-08	INDUSTRIES/KOL KATA					N-08	
			K.N. ENGG / KOL	K-23	Recoton Engg Corpnr/Hwh					R-15	
					VERSATILE / HWH					V-09	
65	•Accessory Bar 5711/317 •Accessory Bar 5711/318	• 3TWD.096.096ALT-1 • 3TWD.096.097ALT-1	C.S. ENGRS./ KOL	C-01	K.N. ENGG / KOL	K-23	NATIONAL INDUSTRIES /KOLKATA	N-08			
			INDO MECH / HWH	I-08	VERSATILE / HWH	V-09					
					Recoton Engg Corpnr/ Hwh	R-15					
66	Half Ring 5721/324	4TWD.096.049, ALT-2 4TMS.096.055, ALT-1	HARADHAN/ HWH	H-04	ATLANTA HWH	A-24					
					C.S. ENGRS./ KOL	C-01					
					INDO MECH/ HWH	I-08					
			VERSATILE / HWH	V-09	KAY PEE /HWH	K-02					
					K.N. ENGG / KOL	K-23					

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					TIRUPATI ENGG./ KOL	T-11			
67	i) Brazing Rod for Brazed Rotor , Size (20x8x5)mm C&D No. 5721/307	IS : 2927 (Latest Version) or DIN 8513 Gr BA-Cu-Ag-8	ESSAB INDIA/ CAL	E-26	SARU SILVER /MEERUT	S-64	Indian Solder & Braze Alloy/ Merut	I-19	
	L&T /MUMBAI		L-13	Maheshwari Silver Alloy (P) Ltd/Meerut	M-31				
	SHRADDHA REFINERY/ KHAMGAON		S-63	ELECTRO ENTERPRISE /KOL	E-25				
68	i) Brazing Rod for Brazed Rotor ,(Zr.Cu.) Size (20x8x5)mm C&D No. 5721/315	As per DIN EN 1044 AG 203	ESSAB INDIA/ CAL	E-26	SARU SILVER /MEERUT	S-64	Indian Solder & Braze Alloy/ Merut	I-19	
	L&T /MUMBAI		L-13	Maheshwari Silver Alloy (P) Ltd/Meerut	M-31				
	SHRADDHA REFINERY/ KHAMGAON		S-63	ELECTRO ENTERPRISE /KOL	E-25				

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69	MOBILUXEP2 5890/044		RDSO CONTROLLED ITEMS. RDSO APPROVED VENDOR LIST TO BE FOLLOWED				
70	<ul style="list-style-type: none"> Roller Bearing 5890/049 Roller Bearing with thrust collar 5890/050 	NU 224 & NJ219	RDSO CONTROLLED ITEMS. RDSO APPROVED VENDOR LIST TO BE FOLLOWED				
71	ASSESSORIES OF 3PH STATOR CHAMBER TYPE 6FRA6068 5711/202	3TWD.096.165 ALT 2		SAINI ELECTRICAL/MU MBAI	S-69	B.G. IND /HWH	B- 25
72	Complete 3 ph T.M. type 6FRA-6068 5700/000	4TMS.096.069	CGL/Bhopal	C-26			
			BHEL/Bhopal	B-12			
			KEC/B'lore	K-04			
73	Complete 3 ph T.M. type 6FXA7059 5800/000	4TMS.097.001 Alt 1	CGL/Bhopal	C-26			
			BHEL/Bhopal	B-12			
			KEC/B'lore	K-04			
74	Active Speed Sensor for Traction Motor for WAG-9 & WAP-5 Electric Locomotives	CLW/ES/3/0493			Advanced Rail Controls Private Ltd./Banglore	A-49	
75	Complete Rotors for 3 ph T.M. type 6FRA 6068 C&D No.	4TMS.096.069	CGL/Bhopal	C-26		ABB Ltd /MB	A-47
			BHEL/Bhopal	B-12			
			KEC/B'lore	K-04			
			Saini Electricls /MB	S-69			
76	Wound Stator Assly for 3-phase TM type 6FRA	Spec.4TMS.096.069 Drg.No.0TWD.096.002	CGL/Bhopal	C-26			

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	6068. C&D No.5710/100	Alt-3	BHEL/Bhopal	B-12					
			KEC/B'lore	K-04					
77	Machined Stator Assly for 3-phase TM type 6FRA 6068. C&D No.5711/220	Spec.4TMS.096.070 Alt-2 Drg.No.1TWD.096.102 Alt-6 STR No.CLW/TM/18600 Rev.o,July 09	CGL/Bhopal	C-26					
			BHEL/Bhopal	B-12					
			KEC/B'lore	K-04					
			Kaypee	K-02					
			KMRI	K-05					
			Simplex	S-59					
			Kalyani	K-22					
78	Doplar Radar Based Adhesion Control system with Active Speed sensor for 3-phase	CLW/ES/3/0493 Rev I	Advance Rail controls (P) Ltd./B'lore.	A-49					

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