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SN	ITEM	Current Drawing & Specification no.	CATEGORY OF APPROVED VENDORS			REMARKS
			PART-I (Regular)	PART-II (Developmental)	(Source Identified for Developmental)	

CHAPTER -III

HITACHI TRACTION MOTOR ITEMS

ORDERS ON SOURCES IDENTIFIED FOR DEVELOPEMENT TO BE DONE BY CLW ONLY AND NOT BY ZONAL RAILWAYS

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01	Traction Motor Type: HS-15250A with earth Brush Assly (Without Axle Suspension Unit, Pinion, Gear & Gear Case Assly) 5503/000	4T.CLW/TM/HITACHI – 15250A,ALT-2			RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed	
02	Commutator Assembly; 5530/000	2TWD.095-045Alt 2			RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed	
03	<ul style="list-style-type: none"> • Polyamide Non-woven Mat GXO 200, 0.9mm thk. 5575/013 • Polyamide Non-woven Mat GXO 302, 1.2 mm thk. 5588/ 208 	<ul style="list-style-type: none"> • A0298, ALT-A • A0298, ALT-A 			RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed	
04	Polyimide Woven Tape NWT 5575/010	A0248, ALT-A			RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed	
05	Polyimide Glass sheet GAB; 5588/228	A0240, ALT-A.			RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed	
06	Impregnating Varnish HEW-290 (4 components) 5588/ 216,217,218 & 219	A0271, A0272, A0273 A0274, all ALT-1			RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed	
07	Epoxy Compound HEW-821 (3Components) 5588/ 403,404 & 406	A0116, ALT-1			RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed	
08	Epoxy Compound HEW-823 (2 Components) 5588/ 237 & 238	A0256, ALT-2			RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed	

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09	<ul style="list-style-type: none"> Finishing Varnish TVA-1410 5588/ 407 Thinner-S-110 5588/ 409 	<ul style="list-style-type: none"> A0209 A0152 	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
10	Solvent less Epoxy Resin HEW-502 (2 components) 5575/ 017 & 019	A0108	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
11	<ul style="list-style-type: none"> Synthetic Varnish WSY-285 5588/ 220 Thinner S-30 5588/ 234 	<ul style="list-style-type: none"> A0205, ALT-1 A0151 	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
12	Alkyd Varnish WI-294 5535/ 005	A0175, ALT-1.	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
13	<ul style="list-style-type: none"> Finishing Varnish WSY- 101 (Core) 5528/025 Thinner S-30 5588/234 	<ul style="list-style-type: none"> A0201, ALT-1 A0151 	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
14	Lubricant KS-707 5588/246	A0119 Alt1	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
15	<ul style="list-style-type: none"> Finishing Varnish WSY-195R (Commutator) 5565/078 Thinner S-110 5588/409 	<ul style="list-style-type: none"> A0204, ALT-2 A0152 	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
16	<ul style="list-style-type: none"> Silicon Rubber Tube (ST 110 DG) 5565/819 Silicon Rubber Tube (ST 170 DG) 5580/104 	A0251, ALT-A	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			

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17	Wedge 5522/069	10S.784-757, Alt C F.0006	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
18	Flexible Mica Sheet MP-60-FCZ, 5522/005,008	A0268, ALT-1	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
19	Glass Mica Sheet GU-FZ 5522/012	A0269, ALT-C.	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
20	Semi cured Ceramic Sheets –SCQ-H 5588/202 & 5586/202	A0235, ALT-5	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
21	Glass backed uniform Mica Sheet GUA-CN-3 5588/206	A0270, ALT-5	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
22	Glass backed uniform Mica Tape GUAT-CN-3 5588/209, 212	A0270, ALT-5	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
23	Polyimide film backed Uniform Mica Tape KUAT-CZ 5524/009	A0266, ALT-4	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
24	Polyamide Adhesive £ Tape (Nomex – N) 5522/009	A0215, ALT-1	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
25	Spiral Tube (Kapton + Connex : KCTUN – C1), 5524/005	A0267, ALT-D	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
26	Silicone Rubber Tape HTV-HBT-H5, 5575/008	A0128, ALT-B	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
27	Tetron Tape ETT 5522/090	JIS:C2205'75	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
28	Terminal Support Insulator 5560/300	3TWD.092.188 ALT-5	Arco Ind/ MB	A-64	Alpha Carbon / Kol Vallabh	A-25 V17	Power Mica Insulator /Kol	P- 35	

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			Mica Mold/ Jamshedpur	M-47	Ind/Dadra											
29	Insulating Rods, 5565/675 and 5565/740	2TWD.095.052, ALT-9	Arco Ind/ Mumbai	A-64	Alpha Carbon / Kol	A-25										
			Mica Mold /Jamshedpur	M-47	Elco Enterprise/ Kol	E-32										
					Power Mica Insulator/Kol	P-35										
30	Lead Supporter 5560/401	10S.813-538, ALT.K REF. 1 &3	Atul Industries/FBD	A-54	Glass Fibre & Allied Ind/MB	G-12										
			Industrial Moulders &Fabricators	I-19												
			Micaply/ Bhopal	M-33												
			Permal Wallace/Bhopal	P-08												
			R.G. Industries /KOL	R-01												
			Shanti Fibre Industries Ltd./KOL	S-25												
31	<ul style="list-style-type: none"> • Vee Insulation of Commutator (Core side) 5538/ 001 • Vee Insulation of Commutator(Front side) 5538/ 002 • Insulating ring ofcommutator 5538/ 003 	<ul style="list-style-type: none"> • 10R.793-522, ALT.I ITEM-1 • 10R.793-522, ALT.I ITEM-2 • 10R.793-522, ALT.I ITEM-3 	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed													
									32	U- shape Insulation (Nomex-410) 5522/070	10S.784-758, ALT.1	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed				

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34	Mould Release Sheet (Nomex-R) 5522/001	A0139, ALT.2	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed				
35	<ul style="list-style-type: none"> Polyimide Glass laminate Spacer (IGL-10), 1 mm Thick: 5575/003, 2 mm Thick: 5575/024 and 5 mm Thick 5575/025 Polyimide Glass laminate Sheet (TILG-1000), 0.4 mm Thick. 5522/002 	<ul style="list-style-type: none"> 10T.831-309,ALT.2 REF-2, REF-3, & REF-4 A0239, ALT.1 A0132, ALT.B 	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed				
36	Polyester Film (Y-P) 5588/233	A0207, ALT.3	Electrical Micanite Corpn /Kol	E-31	Bell Organics /Kol K.C. Mohta /Kol	B-57 K-34	Only Jindal polyester/Garware polyester material to be used for processing. Firm should submit OEM certificate at the time of participating tender .
37	Polyimide Sheet (UPILEX) Size:0.05 mm x 508 mm wide in 100 mtrs. roll length, 5588/207	A0241, ALT.1	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed				
38	Teflon Ring 5538/014	10R.812-076, ALT-F	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed				
39	Tetra Fluro Ethylene sheet, Size:2 x600x 5 m length ; 5588/241	4TMS.095.022	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed				

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40	<ul style="list-style-type: none"> Glass Fibre Tape (EGT) Size: 0.07 x 13 mm, 5524/002 Size: 0.10 x 25 mm, 5524/011 Size: 0.10 x 19 mm, 5523/004 Size: 0.18 x 25 mm, 5522/006 Size: 0.18 x 32 mm, 5588/213 	4TMS.095-016	Fibre glass Insul/ BPL	F-21	Electro thermal Insulation/KGP	E-37		
			Hatim Dielectrics/Kol	H-27				
			INTAF/ Kol	I-30				
			Khandelwal Ind/ Kol	K-33				
			Textech Insulation /Kol	T-24				
41	<ul style="list-style-type: none"> Glass Cord (EGY) Size: Ø 3.2 mm 5522/024 Size : Ø 6.4 mm 5522/025 	A0134 Alt 1	Hatim Dielectric/Kol	H-27	Textech Insulation	T-24	KE Tech Textile/ KGP	K-44
			INTAF / Kol	I-30				
			Khandelwal Ind/Kol	K-33				
42	Glass Tape (AYA-EGT) 0.25 x 25 mm 5575/014	A0211	INTAF/ Kol	I-30	Textech Insulation/ Kol	T-24		
			Khandelwal Ind/ Kol	K-33	Electro Thermal insulation /KGP	E-37		
43	Varnished Glass Cloth (VG) 5522/004	A0194, ALT-B	Electrical Micanite Corpn/ Kol	E-31	MicaPly/BPL	M-33	KE Technical Textiles/KGP	K-44
			Lakshman Isola/SBC	L-16				
44	Hard Press Board PB-2 5524/012	IS: 8570'77 TYPE-D	Khandelwal Insulation/ Kol	K-33				
45	Asbestos Tape 0.4x25 mm 5502/024	IS: 6230'70'	RK Industries/ Kol	R-29	Ashok Industries/ Kol	A-67		This is a standard IS product, hence may be procured from any

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	<i>F170/ 415</i>				Taran Enterprise/Kol	T-26			manufacturer to specific IS Specn.
46	Cotton Tape Size: 0.18x25 mm <i>5502/ 025</i>	IS: 1923'73	Textech / Kol	T-24	Allied Trading / Kol	A-68	Electro Thermal Insulation /KGP	E-37	
47	Commutator SEGMENT <i>5535/002</i>	10S.813-323A, Alt10	CMC/Belgaum	C-45	Malwa Strips /Dewas	M-44	Super Tech Conductor / Gujrat	S-	
			Radhika Industries/CNB	R-30			Jyoti Cu Craft (P) . /Dewas	J	
			Shet Electric/SBC	S-73			Copperod Ind Pvt. Ltd /Tumkun	C-47	
48	<ul style="list-style-type: none"> •Rectangular Copper Conductors, Size: 5.6 x 43mm, 5588/201 •Rectangular Copper Conductor, Size: 6.8 x 35 mm 5586/201 •Electrolytic Copper Strips Size: 5.3X35mm C&D NO. F170/441 F170/445 	4TMS.095.006, REV '4'	Malwa Strips (P) Ltd/ Dewas	M-44	Hindustan copper /kol	H-29	Chandra Proteco/ALD	C-37	
			Eastern Copper Mfg Co(P) Ltd /Kol	E-30			Copperod Ind Pvt. Ltd/Tumkun	C-47	
			Chandra Metal/Allahabad	C-35	VKGI / Delhi	V-16	Metal Gems /MB	M-45	
			Rupam Conductor/MB	R-25			Hyvolt Electrical /Dli	H-08	
			Vimlesh Industries (P) Ltd. /Sonepat	V-15			Meta Copper & Alloy Ltd/MB	M-59	
							Omega Rolling Mills (P) Ltd. /Thane	O-10	

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						Joyti Cu Craft Pvt Ltd/Dewas	J-20	
49	<ul style="list-style-type: none"> Spacer (Copper) 5575/004, 005 & 006 Distance Pieces (Copper) 5522/071, 072,075,076, 077, 080, 081 	<ul style="list-style-type: none"> 10T.831-478, ALT-1 ITEM-1, ITEM-2, ITEM-3 10S.784-759 Alt 6 Item-1, 2,3,4,5,6,7 	Continental Engg.Works/ Kol	C-24	Selvoc Entrp./ Kol	S-19	Shivam Enterprise/ HWH	S-73
			Indomechanical Corpn/ HWH	I-17				
			Metal Engrs/ Kol	M-27				
			Potential Engg.	P-29				
50	B.H. Assly. (Without carbon brush) 5565/750	2TWD.095.090 Alt 6	Arco Electro Tech P. Ltd/MB	A-69				
			Chandra Udyog /HWH	C-13				
			Elco Enterprise/Kol	E-32				
			MicaMold / Jamshedpur	M-47				
			Shunk Metal & Carbon /Bangalore	S-74				
51	Connectors & Terminals – 12 items 5545/000	4TMS.095-026, ALT-2	Selvoc Enterprise /Kol	S-19	Alpha Carbon/ Kol	A-25	Indian Metals & Alloys Mfg. Co. /Kol	I-32
			Continental Engg Works/ Kol	C-23	Electro Crimp contacts (P) Ltd /Nasik	E-10		
					Indo Mech. Corpn /Kol	I-17		
					Elmech Engg Syn/Hwh	E-18		
52	Modified earth Brush Box Assly 5505/100	3TWD.095.099	Chandra Udyog/HWH	C-13	Kaypee Equip/ HWH	K-35		
			Elco Enterprise/ Kol	E-32				
			Mica Mold/ Jamshedpur	M-47				

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			Special Elect.Engg Co./Mumbai	S-47					
53	• Aluminium Bronze item of HTM (Terminal & Clamper) 5560/633	4TMS.095.030	Chandra Udyog/HWH	C-13					
			Elco Enterprise/ Kol	E-32					
			Selvoc/ Kol	S-19					
54	Rivet (Aluminium) 5586/406	10T.809-448,ALT-1	Elmech Engg Syndicate/HWH	E-18				-Zonal Railways can follow their own sources	
			BK Industries/ HWH	B-03					
			CS Engineers/ Kol	C-01					
			Indo Mechanical Corpn./HWH	I-17					
55	Silver Brazing Alloy Foil 5588/214 5580/203	IS:2927'75 Gr.Ba-Cu-Ag-9	Esab India Ltd./ Kol	E-34	SaruSilver/ Meerut	S-76		Firm should furnish Authorised Distributor/ Dealership certificate along with their quotation	
			L&T/Mumbai	L-17	Electro Enterprise / Kol	E-33			
			Shradha Refinery/ Khamgaon	S-75					
56	• Lead Wire (12 items) 5500/000 • Lead Wire (+ve & -ve) 5565/400, 450	• 3TWD.095.067 to 078 & E0028 for Cable 4TMS.095.028 • 3TWD.095.057 Alt 7 3TWD.095.058 Alt 7 & E0028 for cable	Arco Electro Techno Pvt. Ltd/MB	A-69	Universal Cable LTD /Satna	U-11	Radiant Cable /Hyd	R-39	The fluonlex cable should be obtained from RDSO approved sources only
			Mica Mold/ Jamshed pur	M-47	Continental Engineering/ Kol	C-24			
			Metal Engineers/Kol	M-27					
			Selvoc Enterprise /Kol	S-19					
			Sumitomo Corporation/Japan	S-77	Vallabh Industries/ Dadra	V-17			
57	• Rivet (Steel) 5586/105	• 10T.809-447, ALT-3	BK Industries/ HWH	B-03	Elmech Engg. Syndicate/HWH	E-18		Zonal Railways can follow their own	
			CS Engineers/ Kol	C-01					

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	• Rivet (Steel) 5588/104	• 10T.809-446, ALT-4	Indo mechanical Corpn. /HWH	I-17				sources
58	Name Plate for rating 5502/018	4TWD.095-006 Alt 3	Dhar & Co./ Kol	D-07	Sales & service /Kol	S-08		Zonal Railways can follow their own sources
			National Engraving Co./ Kol	N-03	Sarweswar & Co./ Kol	S-15		
59	Low heat input Stainless Steel Electrodes Dia 3.15 x350 mm long suitable for joining of Stainless steel to Mild steel, 5586/107	4TMS.095-015 Alt-1	Ador Welding Ltd/Kol	A-79			Diffusion Engineers Ltd./Nagpur	Firm should furnish Authorised Distri- butor/ Dealership certificate along with their quotation
			D&H/Indore	D-17				
			L&T / MB	L-17				
60	a) Magnet Frame 5590/001 with set of End cover s (11 items) in Kits form; 5590/055	4TMS.095.036 Rev 1	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed					Prototype approval for 1 st 06 set will be done by RDSO.

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61	a) Outer Bearing Cover (CE) 5570/202 b) Inner Bearing Cover (CE) 5570/213 c) Outer Bearing Cover (PE) 5518/201 d) Inner Bearing Cover (PE) 5518/204 e) Inner Bearing Stopper (PE) 5528/018 f) Inner Bearing Stopper (CE) 5528/019 g) Outer Bearing Stopper (CE) 5528/020 h) Deflector 5528/016 i) Bearing Bracket Assly (CE) 5570/100 j) Bearing Bracket Assly (PE) 5518/100	a) 10Q.750-259, ALT.H ITEM-1 b) 10Q.750-259, ALT.H ITEM-2 c) 10Q.750-258, ALT.6 ITEM-1 d) 10Q.750-258, ALT.6 ITEM-2 e) 10T.806.918, ALT-4 f) 10T.806-919, Rev1 g) 10S.778-663, ALT-E h) 10.R.823.234, ALT-2 i) 10Q.750-246, ALT.N j) 10Q.750-245, ALT.M	Refer RDSO vendor List.		-----	*Trident Auto components/ CNB	T-28	*To be considered for items from a to h only(UPTO 600MM DIA) . Prototype will be done by CLW for individual items
62	Armature Shaft (Rough machined) 5528/002	3TWD.095.010, ALT.7 4TMS.095.005, ALT.6	Field Gun Factory/CNB	F-22	Ghaziabad Ispat Udyog/GZB	G-22		
			P.K.Engg & Forging/Kol	P-02				
			Rail Wheel Factory/SBC	R-31				
			Vishnu Forge Ind/SBC	V-18				
			Vikrant Forge /Kolkata	V-13				
63	<ul style="list-style-type: none"> Armature Main Punching 5528/006 Commutating Pole Core Punching 	<ul style="list-style-type: none"> 10R.799-865 Rev-1, ITEM NO.1 4TMS.095.035 Rev 1 3TWD.095.044, ALT.6 4TMS.095.035 Rev 1 	BHEL/BPL	B-17			Patel Fab Machinery Mfg/Bhopal	P-32
			Kapsons/Jalandhar	K-40				
			Crompton Greaves Ltd/ MB	C-31				

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	5586/101		Pearl Engg./NDLS	P-30					
			Precision Stampings/FBD	P-31					
64	Armature End Punching In spot welded condition 5528/034	3TWD.095.019, Alt-5, 10R.799.865 Rev-1 Item No.2 & 3	Lamination Core Fabricators/Kol	L-19	CGL/MB	C-31			
			Navanirman/Kol	N-19	Kapsons/ Jalandhar	K-40			

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65	Main pole Core End punching Assly, (Spot welded) 5588/109, 5587/109	3TWD.095.046,Alt-4, Ref-I & II 10R.799.872,Alt-6 Item No.2 & 3	Avon Springs & Accessories P. Ltd/Kol	A-72			Maraica Industries /Kol	M-48	
66	Main Pole Core Punching 5588/101	10R.799-872, ALT.6 ITEM .1	Avon Springs & Accessories P.Ltd/Kol	A-72	Maraica Industries/KOI	M-48			
			BHEL/Bhopal	B-17					
			CGL/ MB	C-31					
			Kapsons/ Jalandhar	K-40	Patel Fab Machinery Mfg/Bhopal	P-32			
			Pearl Engineering/NDLS	P-30					
			Precision Stampings/FBD	P-31					
67	Pole Core Plate 5586/103	10S.784-766, ALT.2	CS Engineers/ Kol	C-01	Atlanta Engg Co./ HWH	A-52			
			Indo Mechanical Corpn/HWH	I-17					
68	Rocker Ring with cleat Arrangement 5565/060	10Q.750-317,ALT-E 10R.823-314, ALT-1 4TWD.095-088	Atlanta Engg Co./ HWH	A-52	Indo Mechanical Corpn/HWH	I-17			
			Pioneer Gear & Equipment/HWH	P-12					
			Anjana Engg Works /Hwh	A-73					
69	Stainless steel Liners 5586/450	4TMS.095.024, Alt-2	Avon Spring/Kol	A-72	Continental Engg Works/Kol	C-24			
					Potential Engg/Kol	P-29			
			C.S. Engrs/Kol	C-01	Selvoc Entrp./Kol	S-19			
70	Commutator Vee Ring 5538/026	3TWD.095.036, ALT.3 10S.778-666, ALT.D	Atlanta Engg. Works/ HWH	A-52	CS Engineers/ Kol	C-01			

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			Pioneer Gears/HWH	P-12	Indo mechanical Corporation/ HWH	I-17		
					Patra & Chanda/ HWH	P-06		
					Versatile/ HWH	V-08		
71	Commutator Spider (Finished) 5538/006	10Q.745-377, ALT.H	KMRI/HWH	K-38	Tirupati Engg/Hwh	T-13		
72	Disc Spring 5538/010	10S.778-669, ALT-3	Indo Mech Corpn./ Kol	I-17	AnilEngg / Hydraabad	A-35		
			Pioneer Gears/ HWH	P-12	Atlanta Engg. Co./HWH	A-52		
					Versatile/ HWH	V-08		
73	Commutator Nut 5538/012	10S.778-667, ALT.D	Atlanta Engg./ HWH	A-52	Anil Engg / Hyderabad	A-35		
			CS Engineers/ Kol	C-01	Versatile/ HWH	V-08		
			Indo mech./ HWH	I-17				
			KayPee / HWH	K-35				
74	Rotor Clamp (Finished) 5528/005	10R.793-519, ALT.L	Atlanta Engg Co./ HWH	A-52	CS Engg./ Hwh	C-01		
			Pioneer Gear/ HWH	P-12	Tirupati Engg Works/HWH	T-13		
					Versatile/HWH	V-08		
75	Needle Roller bearing	10S.813.678, Alt-1	Iko/Japan	I-31				Tenderer should Furnish

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	(FCRS-26) 5565/101		NSK/Japan	N-21					distributor/ Dealership certificate of the OEM along with their quotation and should also furnish GC/TC of the OEM
76	Support (Stainless steel) 5586/104	4TWD.095-084, ALT-2	Atlanta Engg. Co./ HWH	A-52	Vikrant/Kol	V-12	Shivam Enterpris /HWH	S-73	
			BL Engg. Co./ Kol	B-56					
			Selvoc Enterprise /Kol	S-19					
			Special Engg service/Kol	S-48					
			Universal Sheet Metal/Hwh	U-20					
77	<ul style="list-style-type: none"> • Steel Plate 5588/239 • Steel Plate 5588/240 • Tinned Sheet Plate 5588/242 • Tinned Sheet Plate 5588/245 	IS: 2062'99 GR.A	Aardee Enterprise/ HWH	A-06	Tarudeep Enterprise/Kol	T-03			
			CS Engineers/ Kol	C-01					
			Indo Mechanical Corpn./HWH	I-17					
			Potential Engg. Works/ Kol	P-29					
78	<ul style="list-style-type: none"> • Block (Steel) 5586/102 • Handle (Steel) 5565/813 • Seat (Steel) 5565/776 	10S.784-765,ALT-4	Elmech Engg Syndicate /Hwh	E-18	Recoton Engg. Corpn/ HWH	R-39	Maraica Ind/ Kol	M- 48	
		10T.835-014, ALT-4	CS Engineers/ Kol	C-01					
		10T.834-942, ALT-4	Indo mechanical Corpn. /HWH	I-17					

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79	Balancing Weight (Steel) 5522/079, 033, 034 & 035	4TWD.095-037,ALT-4, ITEM-1 4TWD.095-048,ALT-2, REF-1, 2 & 3	BK Industries /HWH	B-03			
			Pranab Egg. / Kol	P-09			
80	Balancing Weight (Brass) (For Rotor clamp) 5522/067	10T.824-721, ALT-B, ITEM-1	BK Industries /HWH	B-03	Tara Engg/Kol	T-22	
			BL Engg. / Kol	B-56			
			CS Engineers/ Kol	C-01			
			K.N.Engg/Kol	K-01			
81	<ul style="list-style-type: none"> Non-Magnetic Stainless Steel Bolt (i) Main PoleCore Size M20x80 5582/007 (ii) Com Pole Core Size M20x60, 5582/008 iii) HEX NUT M16 F170/318 	IS: 1367(Pt-14)'84	National Ind./Hwh	N-04			Tenderer should furnish distributorship /dealership certificate of the fastener manufacturer along with their quotation.
			Bolts & Nuts/ Kol	B-47			
			CS Engrs/Kol	C-01			
			Elmech/HWH	E-18			
			Kundan/ MB	K-39			
			LPS/Rohtak	L-05			
82	Standard Fasteners 5522/078- M6x20 5522/068 – M10x10 5582/003 – M24 x 95 5582/004 – M24 x 55 (Hd Ht. 15 mm) 5582/005 – M24 x 55 (Hd Ht. 13 mm) 5570/209 - M20 x 70 5570/204 – M16 x 45 5570/106 – M8 x 20	IS: 6094'81 IS: 1364 Pt-I, Pt II & Pt -III '92	Sundram Fasteners (TVS) /Chennai	S-59			Deepak Fasteners /Ludhiana
			Bolt master/MB	B-48			
			Bolt Master/MB	B-48			
			GKW/Kol.	G-19			
			Lakshmi Precision Screws Ltd. (LPS) / Rohtak	L-05			D-20
			Precision Fasteners Ltd./MB	P-19			

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	5560/614 - M20 x 55 5560/601 - M12 x 90 5560/605 - M12 x 65 5560/630 - M12 x 50 5560/602 - M12 5528/041 - M18 x 45 5528/042 - M16 x 40 5565/802 - M16 5565/814 - M12 x 25 5565/782 - M16 x 35		Sundram Fasteners Ltd. (TVS)/ Chennai	S-59				
			Vardhman Ind Fasteners/Delhi	V-02				
83	Self tapping Screw φ 2.5 5502/015	DIN:7974.	Dhar & Co./ Kol	D-07	Alfred Engg Industries/Kol	A-74	Authorised dealership /distributorship certificate of the 'OEM' should be furnished along with the quotation	
					Associated Manufacturrs /Kol	A-49		
			Satya Ind /Kolkata	S-16	Bolts & Nuts/ Kol	B-47		
					B.K. Industries/ Howrah	B-03		
					Monosa/ Howrah	M-14		
					National Engg./Kol	N-01		
			Shiva Engg./ HWH	S-83				
			Tarudeep Ent./Kolkata	T-28				
84	Machined Washer 24 5565/817 Machined Washer 20 C&D 5560/615 Machined Washer 16 C&D 5565/ 804 Machined Washer 12 C&D 5560/603	IS: 2016'67	Alfred Engg./ Kol	A-74	Bolts& Nuts /Kol	B-47	Tenderer should furnish distributorship /dealership certificate of the fastener manufacturer along with their quotation.	
			Continental Engg.Works/ Kol	C-24				
			JN Traders/ Kol	J-04	Ramjilal Ramswarup /Kol	R-33		
			Precision Fasteners	P-19				
			Shiva Engg./ HWH	S-83				

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			Sundram Fasteners	S-59				
85	Spring Washers 5582/006 (B24) 5582/009 (B20) 5570/205 (B16) 5565/815 (B12) 5570/107 (A8)	IS: 3063'94(ZN PLATED)	Forbes & Co Ltd./Mumbai (BBBB Brand)	F-24				Tenderer should furnish distributorship /dealership certificate of the fastener manufacturer along with their quotation.
86	Armature Core Key 5528/003	10T.806-920	CS Engineers/ Kol	C-01				
			Indomech/ HWH	I-17				
			Selvoc Entrp./ Kol	S-19				
87	Special Bolt 5565/805 5565/777	10T.835-015, ALT-G 10T.834-941, ALT-D	Alfred Engg./ Kol	A-74	Associated Manufacturers/ Kol.	A-49		
			CS Engineers/Kol	C-01	Atlanta Engg.Works/ HWH	A-52		
			Nexo Ind/Ludhiana	N-18	B.K. Industries/ Howrah	B-03		
			Vardhaman Ind/ Delhi	V 02	Monosa/ Howrah	M-14		
					National Engg. /Kol	N-01		
Tarudeep Entr. /Kolkata	T-28							
88	• Lock Washer Commutator End 5528/014 • Double Locking Plate 5528/040	4TWD.095.253 4TWD.095-093	Alfred Engg./ Kol	A-74	BL Engineering Works/Kol	B-56		
			BK Industries/HWH	B-03	Indo Mech Corpn./ HWH	I-17		
89	Square hd. Plug ¼" 5570/203	4TWD.095-014	CS Engineers/ Kol	C-01				
			Super Products/ Kol	S-61				
90	Pinion Retaining Plate 5528/039	4TWD.095-094	Indo mech Corpn./ Kol	I-17	Recoton Engg/Kol	R-39	Marica Ind/Kol	M-48
			BK Industries/ HWH	B-03				

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			CS Engineers/ Kol	C-01				
			Elmech Engg syndicate/Hwh	E-18				
91	Packing (Rubber item) 5570/108, 5560/609, 611	10S.778.709, ALT-F 10T.835.011 ALT-C 10T.835.010 ALT-C	Diehard Polymer /Kol	D-10	Bharat Oil/ Giridih	B-18		Sources of rubber items for conventional locomotive, item no are to be considered as per their existing status
			Maxworth Rubber/Hwh	M-42				
			MGM Rubber/ Kol	M-32	Orient Rubber/ Kol	O-11		
			Swan Rubber/Kol	S-64				
92	Methyl Alcohol / Industrial Solvent similar to Methyl Alcohol 5588/408 Trichloroethylene Technical Second Revision 5522/ 103	IS: 517'86 GR-Methonol pure IS: 245'1998 Type 1	Ashok Industries/ Kol	A-67	Prabhat Udyog/Kol	P-33		Zonal Railway can follow their own sources
			RK Industries/Kol	R-34				
			Orient Chemical/Kol	O-04				
			Anand Chemicals/ Kol	A-34				
93	Molybdenum Disulphide Grease 5555/005	4TMS.095-019	Lubgraf Products/ Ahmedabad	L-18				Zonal Railway can follow their own sources
94	Lubricating Grease, Servogem RR-3 of IOC Or LL-13 of Balmer Lawrie 5502/ 026	SOURCES AS PER LATEST RDSO MASTER LIST ARE TO BE FOLLOWED.						
95	Silicone Rubber Compound (KE 45 RTV-R of Shin-Etsu OR Anabond 685 of Anabond) 5582/001	A0113, ALT.A	Anabond/ Chennai	A-75		Dow Corning/USA (through Eastern Comemrcial Corporation/Kol)	D-11 E-35	
			Shin-Etsu/Japan	S-85			Momentive Performance materials(I) Pvt Ltd/ B'lore	

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96	Liquid Gasket (3 B 1105) 5582/002	4TMS.095-017	Anabond/ Chennai	A-75		
97	Anaerobic Adhesive (3 B 1303) 5560/622	4TMS.095-018	Anabond/ Chennai	A-75		
98	Roller Bearing PE – 5528/009 CE – 5528/010	10S.778-707, (NU-330) 10S.778-708, (NU-324)	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
99	Non-calendared Polyamide Sheet (Nomex –411) 5524/003	A164	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
100	Calendared Polyamide Sheet (Nomex–410) 5522/021,018 & 5588/411	A0255 Alt-1	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
101	Polyglass Tape/ Resi Glass Tape 5522/026	RDSO Specn. no. SPEC/E-7/17-Oct 94 & Amendments 1 & 2 of 2/99 & 6/99 respectively	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
102	Kapton covered Conductor 6.9 x 3.3 mm 5524/001	RDSO Spec. no. ELRS/SPEC/TM/0012 of Dec 2000 4TMS.095.006 Alt 8	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
103	Kapton covered Conductor 5.5 x 1.4 mm 5523/001	RDSO Spec. no. ELRS/SPEC/TM/0012 of Dec 2000 4TMS.095.006 Alt 8	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			
104	Polyimide Adhesive Tape (Kapton-N); 5588/226	A0133, ALT.3	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed			

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105	Carbon Brush EG-9049 Or EG-105 S; 5565/812	EL3.BS.013 (Mod) Alt 5 3TWD.095.017 Alt 8	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
106	Earth Brush Assembly / Earth return brush 5505/114	3TWD.095-106	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
107	<ul style="list-style-type: none"> Tetrafloro Ethylene Tape treated with Sodium (4FT & 4 FTNA) 5588/231, 232, 5524/010, 025, F013/ 127 Teflon Tape 5588/235, 5586/231 	A0124, ALT-2	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
108	Cable for Lead wire 5580/101	E-0028	RDSO controlled item. Vendors as per latest version of RDSO approved vendor list to be followed						
109	MP Potted coils for Hitachi T.M. 5587/412	4TMS.095.032	BHEL/Bhopal	B-26	KEC/Bangalore	K-17	Shankar Coil/Kol	S-	
							Steasalit/Kol	S-53	
	CP Potted coils for Hitachi T.M. 5586/418	4TMS.095.033	CGL/Bhopal	C-50	Saini Electricals/Mumbai	S-96	Rotomac/Kol	R-36	
							Cosmic General Ind./Mumbai	C-	

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CHAPTER –IV

SMOOTHING REACTOR AND INDUCTIVE SHUNT (SL & SJ)

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1.	<ul style="list-style-type: none"> LAMINATION for SJ (in SET) <i>F013/130</i> LAMINATIONS OF MAGNETIC CORE FOR SL-30 (IN SET) <i>F170/409</i> 	3TWD.133.019, REF.1, REF-2 & REF-3 ALT.9. 4TMS.096.053 Rev2	KAPSONS/ JALANDHAR	K-40					
			LAMINATION CORE FABRICATOR/ KOL	L-19					
			PEARL ENGG./ DLI	P-30					
			PRECISION STAMPING/ DLI	P-31					
2.	RECTANGULAR COPPER STRIP Size-31.5X2.24 mm <i>F013/087</i>	4TMS.095.006,REV.'5' ITEM NO.7 OF PARA 8.0,	RUPAM CONDUCTOR /MUMBAI	R-25	JEWEL METAL/MUM BAI	J-18	MALWA STRIP/DEWAS	M-44	
			EASTERN COPPER/ KOL	E-30	VIMLESH INDUSTRIES (P) LTD. /SONEPAT	V-15	HY VOLT ELECTRICALS/ DLI	H-08	
					METAL GEMS/ MUMBAI			M-45	
					Copprod Ind Pvt Ltd/ Tunkur			C-47	
3	RECTANGULAR COPPER STRIP SIZE: 63X 1.6, 20X 1, 50X 12 & 80X 6 mm <i>F013/088, 090</i> & <i>F170/461,462</i>	4TMS.095.006,REV '5' ITEM NO. 8,9,5 & 6 OF PARA 8.0	RUPAM CONDUCTOR /MUMBAI	R-25			CopprodInd Pvt Ltd/ Tunkur	C-47	
			MALWA STRIPS/ DEWAS	M-44					
			EASTERN COPPER/ KOL	E-30					
4	DISC SPRING <i>F013/119</i> DISC SPRING A31.5 <i>F170/312</i>	4TMS.133.005, ALT.1 4TWD.133.040/11, ALT-2	Continental/Kol	C-24					
			Windston Spring P.Ltd/Mumbai	W-07					
5	G.M.G.S. SHEET <i>F013/091</i>	4TMS.092.039, ALT.1	HATIM DIELECTRIC/ KOL	H-27	AGATE ELECTRO INSULATION/	A-65			

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			POWER MICA/ KOL	P-35	BANGALORE				
			RATAN DIELECTRIC/ GIRIDIH	R-35					
6	IMPREGNATED NOMEX SILICONE PAPER TAPE <i>F013/094</i>	4TMS.133.007	ELECTRICAL MICANITE CORP/KOL	E-31	POWER MICA INSULATORS/KOL	P-35			
			HATIM DIELECTRIC./ KOL	H-27					
7	<ul style="list-style-type: none"> FIBRE GLASS TAPE. <i>F013/105</i> GLASS FIBRE TAPE, <i>F170/351</i> 	4TMS.073.014	HATIM DILECT./ KOL	H-27	ELECTRICAL MICANITE CORP/KOL	E-31	Electro Thermal Insulation/ Kgp	E-37	
			INTAF / KOL	I-30	FIBRE GLASS INSULATION. / BHOPAL	F-21			
			KHANDELWAL IND/ KOL	K-33	ORIENTAL Entr/MB	O-09			
			TEXTECH INSULATION/ KOL	T-24					
8	SILVER BRAZING ALLOY FOIL <i>F013/102, F170/458</i> SILVER BRAZING ALLOY ROD <i>F013/103, F170/452</i> 5588/248, 5713/434 & 5813/204	IS: 2927'75. Gr.Ba-Cu-Ag-16A	ESSAB INDIA/ CAL	E-34	SARU SILVER /MEERUT	S-76		Authorized dealership/distributor certificate of the OEM to be submitted at the time of quoting	
			L&T /MUMBAI	L-17	ELECTRO ENTERPRISE /KOL	E-33			
			SHRADDHA REFINERY/ KHAMGAON	S-75					
9	BRAZING FLUX SUITABLE FOR BRAZING ROD & FOIL ; <i>F013/104, F170/453 & 5588/215</i> <i>5713/437 & 5813/207</i>	IS: 2927'75. Gr.Ba-Cu-Ag-16A	ESSAB INDIA/ KOL	E-34			Diffusion Engrs Ltd./Nagpur	D-19	Authorized dealership/distributor certificate of the OEM to be submitted at the time of quoting
						Larsen & Tubro Ltd/Durgapur	L-17		
10	INSULATING COMPONENTS	4TES.000.095, ALT.2	AGATE ELECT/ BLORE	A-65	ATUL INDUSTRIES/	A-54			

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	IN KITS- 11 ITEMS (GLASS EPOXY) F013/008 Cleat for SJ F013/116	4TMS.133.002 Rev-1	HATIM DIELECT./ KOL	H-27	FDB			
			INDUSTRIAL MOULDERS/ KOL	I-19				
			PERMALI WALLACE LTD. / BHOPAL	P-08	GLASS FIBRE & ALLIED / MB	G-12		
			RG INDUSTRIES/ KOL	R-01	MICA PLY/ BHOPAL	M-33		
			SHANTI FIBRE(I) / KOL	S-25				
11	MAKER'S NAME PLATE F013/036 F170/333,	3TWD.133.018, ALT.1 4TWD.073.007 Alt-3	DHAR & CO./ KOL	D-07	SARWESHW R/ KOL	S-15		Zonal Railways can follow their own sources
			NATIONAL ENGRAVING/ KOL	N-03	Sales & service/Kol	S-08		
12	ROUND HEAD SELF TAPPING SCREW TYPE-U F013/037, F170/334	4TDD.000.008 ALT-2	DHAR & CO. / KOL	D-07				
			P.K. DUTTA/KOL	P-36				
			SALES & SERVICE/ KOL	S-08				
13	G.M.G.S. TAPE F013/095	4TMS.092.014, ALT.11	HATIM DIELECT./ KOL	H-27	AGATE ELECTRO INSULANTS/ B'LORE	A-65		
					ELECTRICAL MICANITE CORPN./ KOL	E-31		
			PERFECT INSULATORS/ KOL	P-37	Ratan Dielectric/ Giridhi	R-35		
					Power Mica Insulators/ Kol	P-35		
					Khandelwal Ind/Kol	K-33		

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14	MOULD RELEASE AGENT EQUIVALENT TO METROARK SILICONE-17 <i>F013/114</i>	---	WACKER METROARK	W-08				
15	INSULATING VARNISH (996) CLASS - H <i>F013/099,F170/450</i> THINNER TO SUIT INSULATING VARNISH CLASS-H (996) <i>F170/451,F013/126</i>	4TMS.092.104, ALT.2	BAKELITE HYLAM/ HYDERABAD	B-49				Authorized distributor/dealership certificate of the OEM to be submitted at the time of quoting
			Elantas Beck India Ltd/Pune	E-38				
16	<ul style="list-style-type: none"> FINISHING ANTITRACKING INSULATING VARNISH CL. - H <i>F013/100,F170/456</i> THINNER TO SUIT FINISHING ANTITRACKING INSULATING VARNISH CL.- H <i>F013/122,F170/457</i> 	4TMS.092.106, ALT.2	Elantas Beck India Ltd/Pune	E-38				Authorized distributor /dealership certificate of the OEM to be submitted at the time of quoting
			GEC ALSTHOM / FRANCE	G-09				
			ROTOMAC ELECT. /KOL	R-36				
17	NON-ASBESTOS PUTTY POWDER <i>F013/101,F170/464</i>	4TMS.073.012	INTAF/ CAL	I-30	PACIFIC CHEMICAL/ MB	P-38		
18	CLAMPING PIECE LOWER (AL. ALLOY) <i>F013/047</i>	2TWD.133.024, ALT.11	CHANDRA UDYOG/ HWH	C-13			I.M.A/Kol	I-32
			SELVOC ENTRP. / KOL	S-19				
			ELCO Entp./Kol	E-32				
19	LOCKING PLATE (STEEL) <i>F013/120</i>	4TWD.131.019, ALT.4	B.K. INDUSTRIES / HWH	B-03	Recoton Engg Corpn./HWH	R-39	Maraica Ind/Kol	M-48
			Indo Mech/Hwh	I-17				

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			C.S.Engrs/Kol	C-01				
			Elmech Engg. Syndicate /Hwh	E-18				
20	PROTECTION SHEET AND SPRING BLADE <i>F013/121</i>	4TMS.133.006, ALT.1	CONTINENTAL/ KOL	C24	USHA SHEET/ KOL	U-18		
			NAVANIRMAN/ KOL	N-19				
21	CLAMPING PIECE UPPER (Steel Casting Duly Machined) <i>F013/046</i>	2TWD.131.006,ALT.10	CHANDRA UDYOG/ HWH	C-13				
			KHARAGPUR METAL/ KHARAGPUR	K-32				
			Atlana Engg/Hwh	A-52				
			Pioneer Gear/Hwh	P-11				
22	HARDWARE ITEMS <i>F013/129</i>	4TMS.133.004,ALT.4	BOLT MASTER /MB	B-48	Deepak Fasteners Ltd. /Ludhiana	D-20	-Tenderer should furnish distributor/dealership certificate of the fastener manufacturer along with their quotation.	
			GKW/Kol	G-19				
			LPS / ROHTAK	L-05				
			PRECISION FASTENERS LTD./ MUMBAI	P-19				
			SUNDRAM FASTENERS LTD.(TVS)/CHENNAI	S-59				
			VARDHMAN IND FASTENERS/DELHI	V-02				
23	STEEL COMPONENTS <i>F013/117, F170/474</i>	4TMS.133.003,ALT.6 4TMS.073.007,ALT-3	B.K. INDUSTRIES/ HWH	B-03	CS ENGINEERS/K OL	C-01		
			MA TARA/ KOL	M-51				
			SUPER PRODCUTS. / KOL	S-61				

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24	HOT MOULDING MICANITE INSULATING FRAMES F170/438	3TWD.073.024,ALT.11	PERFECT INSULATORS/ KOL	P-37	FIBRE GLASS MOULDERS & FAB /KOL	F-25		
			POWER MICA INSULATORS/ KOL	P-35				
25	SILICONE BONDED BUILT UP MICA FRAME F170/439	3TWD.073.002,ALT.16	POWER MICA / KOL	P-35	HATIM DIELECTRICS / KOL	H-27	ELECTRICAL MICANITE CORPORATION/ KOL	E-31
					PERFECT INSUL/KOL	P-37		
					FIBRE GLASS MOULDERS & FAB /KOL	F-25		
26	HARDWARE ITEMS F170/489 (F170/466,386,309, 336,421,422)	4TMS.073.008,ALT.7	BOLT MASTER/MB	B-48			Deepak Fasteners Ltd. /Ludhiana	D-20
			GKW/Kol	G-19				
			LPS/ ROHTAK	L-05				
			PRECISION FASTENERS LTD/MUMBAI	P-19				
			SUNDRAM FASTENERS LTD.(TVS) / CHENNAI	S-59				
			VARDHMAN IND FASTENERS/ DELHI	V-02				
27	INSULATING COMPONENTS (GLASS EPOXY) F170/463	4TMS.073.003A,ALT.4	AGATE ELECT/ BLORE	A-16	ATUL INDUSTRIES/ FDB	A-54		
			HATIM DIELECT./ KOL	H-27				
			INDUSTRIAL MOULDERS/ KOL	I-19				

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			MICA PLY/ BHOPAL	M-33							
			PERMALI WALLACE LTD. / BHOPAL	P-08	GLASS FIBRE & ALLIED / MB	G-12					
			RG INDUSTRIES/ KOL	R-01							
			SHANTI FIBRE(I) / KOL	S-25							
28	ELECTROLYTIC COPPER STRIP (BRIGHT ANNEALED) Size 35x5.3 mm <i>F170/441 & F170/445</i>	4TMS.095.006 ITEM NO. 3&4 OF PARA8.0 REV.'3'	ALREADY APPEARING IN ITEM NO. 48 OF HITACHI TM								Item to be shifted to sl.no. 48 OF HITACHI TM .
29	SLEEVE FOR CABLE (300 MM ²) COPPER <i>F170/329</i>	4TWD.073.006/A, ALT.4	CHETANA ENGG. /NASIK	C-42	FORWARD ENGG.	F-19	ELECTRO LUGS & TERMINALS P. LTD.	E-12			
			CONTINENTAL ENGG. WORKS / KOL	C-24							
			ELECTRO CRIMP CONTACTS	E-10							
			KAMALESH IND.	K-04							
			KEC ELECTRICALS/ KOL	K-43	NARBADA AGRICO ENGG./ BPL	N-16					
			KSE ELECTRICAL PVT. LTD.	K-41							
			METAL ENGINEERS/ KOL	M-27							
			UML ENGG. P. LTD.	U-03							
30	TERMINAL CLEAT (COPPER) <i>F170/427</i>	3TWD.073.009A,ALT-6	ALASIA ENGG. / HWH	A-20	Electro Crimp Contacts (I) Pvt. Ltd./Nashik	E-10	Indian Metals & Alloys Mfg. Co./Kol	I-32			
			CHANDRA UDG/ HWH	C-13							
			CONTINENTAL/ KOL	C-24							

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			METAL ENGRS/ KOL	M-27					
			SELVOC ENTP / KOL	S-19					
			ALPHA CARBON /KOL	A-25					
31	CROSS BAR ASSLY. (Stainless Steel) <i>F170/476</i>	2TWD.073.020 Alt-14 2TWD.073.021 Alt-16 4TWD.075.010 4TMS.073.005,ALT.3 4TWD.073.038 A Alt 4	Stesalit Ltd /Kol	S- 54			Recoton engg Corpn./Hwh	R-39	Sub Vendors of regular sources can also participate.
							Maraica Industries/ Kol	M-48	
32	END PLATE ASSLY.(STAINESS STEEL) <i>F170/400</i>	3TWD.073.016,ALT.10	ATLANTA ENGG./ HWH	A-52	VIKRANT/ KOL	V-12			
			SELVOC ENTP/ KOL	S-19					
			SPECIAL ENNG. SERVICE/ KOL	S-48					
			UNIVERSAL SHEET METAL/ HWH	U-20					
33	GLASS MICA FOLIUM FLEXIBLE INSULATING SHEET, <i>F170/347</i>	4TMS.000.014,ALT.4	HATIM DIELECT. / KOL	H-27	FIBRE GLASS MOULDERS & FAB/KOL	F-25			
			PERFECT INSUL/KOL	P-37					
			POWER MICA/ KOL	P-35					
34	NYLOC SELF LOCKING NUT <i>F170/316</i>	3TDD.000.020,ALT.3	PARAMOUNT/ NASIK	P-39	U.K.ENTERPRIS E/ KOLKATA	U-22			
			SIMMOND/ MUMBAI	S-87					
35	RIVET <i>F170/408</i>	4TMS.073.006,ALT.1	B.K.INDUSTRIES/ CAL	B-03	NATIONAL ENGG. / KOL	N-01			
			C.S.ENGRS. / KOL	C-01					

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			INDO MECHANICAL CORP/HWH	I-17				
			KN ENGG. WORKS/KOL	K-01	CONTINENTAL / KOL	C-24		
			MA-TARA ENGG. WORKS/ HWH	M-51				
			SELVOC ENTP/ KOL	S-19				
			SUPER PRODS. /	S-61				
36	<ul style="list-style-type: none"> SOLVENT FREE EPOXY RESIN ADHESIVE F170/454 HARDENER FOR SOLVENT FREE EPOXY RESIN ADHESIVE F170/455 	4TMS.073.011 ALT-1	HUNTSMAN/ MUMBAI	H-30			Authorized distributor/ dealership certificate of the OEM to be submitted at the time of quoting	
37	SPRING WASHER F170/478	4TMS.073.010,ALT.2	FORBES & Co Ltd /MUMBAI (BBBB Brand)	F-24			Firm should furnish distributor /dealership certificate of the fasteners manufacturer along with their quotation.	
38	HEX THIN NUT M 14 F013/065	IS:1364(Pt.4)'92 ISO:4035'86	Bolt Master /MB	B-48			Tenderer should furnish distributorship /dealership certificate of the fastener manufacturer along with their quotation.	
			Sundaram Fastners (TVS) / Chennai	S-59				
39	TOLUOLE F013/124	IS:536-1968	ORIENT CHEMICALS/ KOL	O-04	Anand Chemical /Kol	A-34	Zonal Railway can follow their own sources	
	ACETONE F013/123	IS:170-1986	R.K.Ind/Kol	R-29	Prabhat udyog Kol	P-33		
			Ashok Ind/Kol	A-67				

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40	Smoothing Reaction (SL)	CLW SPEC NO. 4TES.075.001 (or latest version)	BHEL /Jhansi	B-28	M/s Saini Electrical & Engineering Works /Navi Mumbai	S-96	This item has been transferred to CLW vide Rly Board's letter NO. No. 2010/Elect (Dev) /225/1 dtd 7.6.2010
			STESALIT / Kolkata (300 nos)	S-53	M/s Trantel Engineering (P) Ltd. Baddi	T-30	
41	Inductive Shunt (SJ)	CLW SPEC No. 4TES.133.001 9or latest version	D & P /Chennai	D-22			
			STESALIT /Kolkata (250 Nos.)	S-53			

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