

# HOAC 37313: FOR THE NATIONAL SUPPLY OF OHTE MATERIALS ON AN “AS AND WHEN” REQUIRED BASIS FOR A PERIOD OF FIVE (05) YEARS

## ANNEXURE M: FACTORY AND MACHINERY REQUIREMENTS

- Bidders should complete this annexure **for all MOUs** they intend to submit.
- Bidders are required to respond if their, or their OEM’s, factory is in possession of the listed machinery to produce each item in groups they intend to bid for.
- Responses must clearly indicate using **“Yes”** or **“No”** whether the indicated machinery is available.
- After stating whether the machinery is available, the bidder may include further pertinent information in the remaining space provided.
- Where newer technology, machinery or manufacturing methods are available, these details may be included for consideration.

**BIDDER NAME:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**OEM NAME:** \_\_\_\_\_

**OEM SIGNATURE/STAMP:** \_\_\_\_\_

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
<b>Group A</b>				
1	54033494	SPLICE, CONDUCTOR; TYPE: TENSION, MATERIAL: ALUMINIUM; DRAWING NO: BBB 3593BBB 3591BBB 3597; EQUIPMENT USED ON OHTE; SUITABLE FOR 800 MM SQ ACSR TO 800 MM SQ AAC WIRE.(CODE NAME LAPWING TO BULL)	1) Press machine 2) Lathe/CNC machine	
2	54033469	SPLICE, CONDUCTOR; TYPE: TENSION SPLICE, MATERIAL: ALUMINIUM; DRAWING NO: BBB 3594BBB 3593BBB 3592; SUITABLE FOR 500 MM SQ ACSR TO 500 MM SQ ACSR WIRE (CODE NAME DEER TO DEER)	1) Press machine 2) Lathe/CNC machine	
3	54033470	SPLICE, CONDUCTOR; TYPE: TENSION, MATERIAL: ALUMINIUM; DRAWING NO: BBB 3593, LA; BBB 3592, LA; BBB 3595, LA; EQUIPMENT USED ON OHTE; SUITABLE FOR 800 MM SQ ACSR TO 800 MM SQ ACSR WIRE (CODE NAME LAPWING TO LAPWING)	1) Press machine 2) Lathe/CNC machine	
4	54033445	ATTACHMENT; TYPE: DEAD END, APPLICATION: FEEDER TERMINATION; DRAWING NO: BBB 3590, LA; BBB 3589, LA; BBB 3596, LA; EQUIPMENT USED ON OHTE SUITABLE FOR 500 MM2 FEEDER WIRE	1) Aluminium welder 2) Lathe 3) Cutting machine 4. Stamping/drilling machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
5	54000944	SPLICE, CONDUCTOR; TYPE: FEEDER, MATERIAL: ALUMINIUM; DRAWING NO: CEE-TNB-0024; SPECIFICATION: CEE.0038/83; SUITABLE FOR 500MM2 FEEDER WIRE	1) Press machine 2) Lathe/CNC machine	
<b>Group B</b>				
1	54016913	SPLICE, CONDUCTOR; EQUIPMENT USED ON OHTE; PREFORMED SPIRAL; FOR JOINING 50 MM SQ ALUMINIUM WIRE ACSR 6/1/3,35 STRANDING RABBIT	1) Spiral Binding Machine 2) Cutting machine	
2	54009096	SPLICE, CONDUCTOR; TYPE: PREFORMED; EQUIPMENT USED ON OHTE; FULL TENSION SPLICE SUITABLE FOR USE ON CONDUCTOR WITH 30/7/2,36 STRANDING ACSR WIRE (TIGER WIRE) DIA 16.52 MM.	1) Spiral Binding Machine 2) Cutting machine	
3	54005531	SPLICE, CONDUCTOR; EQUIPMENT USED ON 5405802; PREFORMED SPIRAL; FOR JOINING 160 SQ MM ALUMINIUM WIRE 19/3,25 MM STRANDING (HORNET)	1) Spiral Binding Machine 2) Cutting machine	
4	54000207	GRIP; TYPE: PREFORMED DEAD END, MATERIAL: ALUMINIUM WIRE; DRAWING NO: SSE-208228, LA; 8MM; OVERHEAD TRACK; SALDANHA	1) Spiral Binding Machine 2) Cutting machine	
5	54010799	GRIP; TYPE: PREFORMED DEAD END; SUITABLE FOR USE ON 131,23/30,62/160 SQ MM TIGER 30/7/2,36 STRANDING ACSR WIRE DIA 16,52 MM. COLOUR CODE BROWN.	1) Spiral Binding Machine 2) Cutting machine	
<b>Group C</b>				
1	54112448	TERMINAL, LUG; TYPE: BOND FASTENER, WIRE SIZE ACCOMMODATED: 100 MM2, TERMINAL MATERIAL: ALUMINIUM; DRAWING NO: CEE-TU-0136, LA	1) Stamping machine.	
2	54112449	TERMINAL, LUG; TYPE: BOND FASTENER, WIRE SIZE ACCOMMODATED: 120 MM2, TERMINAL MATERIAL: ALUMINIUM; DRAWING NO: CEE-TU-0136, LA	1) Stamping machine.	
3	54112450	TERMINAL, LUG; TYPE: BOND FASTENER, WIRE SIZE ACCOMMODATED: 150 MM2, TERMINAL MATERIAL: ALUMINIUM; DRAWING NO: CEE-TU-0136, LA	1) Stamping machine.	
4	54112451	TERMINAL, LUG; TYPE: BOND FASTENER, WIRE SIZE ACCOMMODATED: 160 MM2,	1) Stamping machine.	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
		TERMINAL MATERIAL: ALUMINIUM; DRAWING NO: CEE-TU-0136, LA		
5	54112445	TERMINAL, LUG; TYPE: BOND FASTENER, WIRE SIZE ACCOMMODATED: 50 MM2, HOLE QUANTITY: 1, TERMINAL MATERIAL: ALUMINIUM; DRAWING NO: CEE-TU-0136, LA	1) Stamping machine.	
6	54112446	TERMINAL, LUG; TYPE: BOND FASTENER, WIRE SIZE ACCOMMODATED: 70 MM2, HOLE QUANTITY: 1, TERMINAL MATERIAL: ALUMINIUM; DRAWING NO: CEE-TU-0136, LA	1) Stamping machine.	
7	54005607	TERMINAL, LUG; TYPE: COMPRESSION, WIRE SIZE ACCOMMODATED: 160 MM2, HOLE QUANTITY: 1, TERMINAL MATERIAL: ALUMINIUM, ATTACHMENT METHOD: CRIMPING; DRAWING NO: CEE-TZ1-0121 SHEET 37, LA	1) Stamping machine.	
8	54017109	TERMINAL, LUG; TYPE: BOND FASTENER, WIRE SIZE ACCOMMODATED: 95 MM2, HOLE QUANTITY: 1, TERMINAL MATERIAL: ALUMINIUM; DRAWING NO: CEE-TU-0136, LA	1) Stamping machine.	
9	54031697	TERMINAL, LUG; TYPE: CRIMPING, WIRE SIZE ACCOMMODATED: 95 MM2, HOLE QUANTITY: 1, TERMINAL MATERIAL: TINNED COPPER, SPECIAL FEATURES: M16 STUD; DRAWING NO: BBH 1332 SHEET 1, LA	1) Stamping machine. 2) Facilities for copper tinning.	
10	54017122	TERMINAL, LUG; TYPE: BOND FASTENER, WIRE SIZE ACCOMMODATED: 150 MM2, HOLE QUANTITY: 1; DRAWING NO: CEE-TU- 0136, LA; EQUIPMENT USED ON OHTE	a) Stamping machine.	
<b>Group D</b>				
1	54001076	INSULATOR ASSEMBLY; TYPE: SUSPENSION, INSULATOR MATERIAL: PORCELAIN; DRAWING NO: CEE-TNC-0018, LA	1)Clay mixer and grinder 2) Machine to shape insulator 3) Temperature controle industrial oven 4) Glasing facilities.	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
2	54016901	GREASE; TYPE: ELECTRICAL JOINTING COMPOUND, TRADE NAME: OXIDATION INHIBITION; TO BE SUPPLIED IN 1 KG TINS. BIDDERS ARE REQUIRED TO SUBMIT A TECHNICAL DATASHEET OF THE COMPOUND. ITEM USED ON ALUMINIUM CONDUCTORS FOR OXIDATION INHIBITION.	1. Chemical composition laboratory	
<b>Group E</b>				
1	54017021	ASSEMBLY; TYPE: CROSBY CLAMP, APPLICATION: 11 TO 13 MM WIRE; DRAWING NO: BBH 1889, LA; SPECIFICATION: SANS 121 DATE 2000 , LA; ITEM USED ON OHTE	1. Forging Machine	
2	54001201	ASSEMBLY; TYPE: CROSBY CLAMP, APPLICATION: OVERHEAD TRACK EQUIPMENT, DIMENSIONS: DIA 16 MM; DRAWING NO: BBH 1889, LA; SPECIFICATION: SANS 121, LA	1. Forging Machine	
3	54032590	ASSEMBLY; TYPE: CROSBY CLAMP, APPLICATION: OVERHEAD TRACK EQUIPMENT, DIMENSIONS: DIA 22 MM; DRAWING NO: BBH 1889, LA; SPECIFICATION: SANS 121, LA	1. Forging Machine	
4	54003859	ASSEMBLY; TYPE: CROSBY CLAMP, APPLICATION: OVERHEAD TRACK EQUIPMENT, DIMENSIONS: DIA 11 MM; DRAWING NO: BBH 1889, LA; SPECIFICATION: SANS 121	1. Forging Machine	
5	54003872	ASSEMBLY; TYPE: CROSBY CLAMP, APPLICATION: OVERHEAD TRACK EQUIPMENT, DIMENSIONS: DIA 16 MM; DRAWING NO: BBH 1889, LA; SPECIFICATION: SANS 121, LA; WIRE SIZE ACCOMODATED DIA 19 MM	1. Forging Machine	
6	54006363	SHACKLE; SHACKLE MATERIAL: STAINLESS STEEL, MATERIAL GRADE: 316; DRAWING NO: H500110-3-133-E-DE-0046,SSE-208 211 ; OHTE CATENARY SYSTEM	1. Bending machine 2. Cutting machine	
7	54009780	ADAPTOR, INSULATOR; TYPE: STEADY ARM, DIMENSIONS: OD 42 MM, APPLICATION: OVERHEAD TRACK EQUIPMENT; DRAWING NO: CEE-TZ-9/27, 0; HOLDER, STEADY ARM EYE; TUBE DIAMETER 2 BOLT TYPE	1. Drilling Machine 2. Cutting Machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
8	54009844	ADAPTOR, INSULATOR; TYPE: STEADY ARM EYE CLAMP, DIMENSIONS: OD 50.8/57 MM, APPLICATION: OVERHEAD TRACK EQUIPMENT; ; DRAWING NO: CEE-TZ-9/35, 0; HOLDER TUBE DIAMETER	1) Drilling Machine 2) Cutting Machine	
9	54006330	CLIP; TYPE: ROPE, DIMENSIONS: DIA 3 MM, MATERIAL: WIRE; DRAWING NO: H500110-3-133-E-DE-0109C; TROLLEY WIRE; SALDANHA		
10	54000208	BOLT ASSEMBLY; NOMINAL DIAMETER: M16, LENGTH: 100 MM, THREAD SERIES: UNC, HEAD: HEXAGON, BOLT GRADE: 8.8, BOLT MATERIAL: STEEL, NUT QUANTITY: 1, THREAD LENGTH: 40 MM; ITEM TO BE SUPPLIED WITH A M16 NUT, M16 SPRING WASHER AND M16 FLAT WASHER. ITEM USED ON THE SISHEN-SALDANHA LINE. H500110-3-133-E-DE-0072	1. Bolt and Nut forming machine	
11	54006329	ASSEMBLY; TYPE: U-BOLT, APPLICATION: ORE LINE RAIL, DIMENSIONS: DIA 16 MM, MATERIAL: STEEL; DRAWING NO: H500110-3-133-E-DE-0106, ; TROLLEY WIRE; SALDANHA	1. Bending/threading machine	
12	54000209	KIT, MOUNTING, BODY, VEHICULAR; TYPE: BOLT AND NUT, APPLICATION: TROLLEY WIRE; DRAWING NO: H500110-3-133-E-DE-0072, LA; WASHERS; M16; 65MM; OVERHEAD TRACK; SISHEN SALDANHA RAILWAY LINE (TFR) OHTE CATENARY SYSTEM	1. Bending/threading machine	
13	54006264	THIMBLE; TYPE: OPEN, DIMENSIONS: DIA 6 MM, MATERIAL: STAINLESS STEEL; DRAWING NO: SSE-208214,; TROLLEY WIRE; SALDANHA	1. Bending and cutting machine	
14	54006263	THIMBLE; TYPE: OPEN, DIMENSIONS: DIA 13 MM, MATERIAL: STAINLESS STEEL; DRAWING NO: SSE-208214, TROLLEY WIRE; SALDANHA	1. Bending and cutting machine	
15	54005264	THIMBLE, ROPE; TYPE: RETAINER, DIMENSIONS: LG 96 MM, MATERIAL: STEEL, ROPE DIAMETER: 100 MM2; DRAWING NO: CEE-TNB-0085; SPECIFICATION: SANS 2262	1. Bending and cutting machine	
16	54007162	THIMBLE, ROPE; DRAWING NO: CEE-TZ-7-126 SHEET 36, 0; EQUIPMENT USED ON OHTE; WITH CLEVIS; 25KV; EQUIPMENT USED ON OHTE	1. Bending and cutting machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
17	54016291	THIMBLE, ROPE; EQUIPMENT USED ON OHTE; SPECIFICATION NUMBER SANS 2262 DATE 1984.; ORDINARY; GALVANISED; TO SPEC SANS 121 DATE 2000; NOMINAL SIZE 17 MM DIA. WIRE.; SABS 811 FIG 1 TABLE 1	1. Bending and cutting machine	
18	54015111	THIMBLE, ROPE; TYPE: WIRE COUPLER RELEASE, DIMENSIONS: WD 10 X LG 47 MM, MATERIAL: STEEL GALVANIZED, ROPE DIAMETER: 8 MMDRAWING NO: CEE-TZ1-0126 SHEET 6; SPECIFICATION: SANS 2262 DATE 1984	1. Bending and cutting machine	
19	54004157	THIMBLE, ROPE; TYPE: WIRE COUPLER RELEASE, DIMENSIONS: WD 8 X LG 32 MM, MATERIAL: STEEL, FINISH: GALVANIZED, ROPE DIAMETER: 6 MMDRAWING NO: CEE-TNB-0008; SPECIFICATION: CEE.0054BS 4042, 0; EQUIPMENT USED ON OHTE; 6 MM; ALUMINIUM BRONZE DIE CAST; FOR SECTION INSULATOR	1. Bending and cutting machine	
20	54006261	THIMBLE; TYPE: OPEN, DIMENSIONS: DIA 8 MM, MATERIAL: STAINLESS STEEL; DRAWING NO: SSE-208214, TROLLEY WIRE; SALDANHA	1. Bending and cutting machine	
21	54002498	THIMBLE, ROPE; TYPE: WIRE COUPLER RELEASE, DIMENSIONS: WD 27 X LG 150 MM, MATERIAL: STEEL, ROPE DIAMETER: 22 MM, SPECIAL FEATURES: GALVANIZED; DRAWING NO: CEE-TNB-0039; SPECIFICATION: SANS 121 DATE 2000SANS 2262 DATE 1984	1. Bending 2. cutting machine	
22	54011202	BRACKET; TYPE: CLIMBING ANGLE, APPLICATION: STEADY ARM/HOCKEY STICKS, MATERIAL: STEEL, DIMENSIONS: LG 1.75 M; DRAWING NO: CEE-TMF-0191; FOR RAIL MAST	1. Cutting machine 2. welder	
23	54008814	BRACKET; TYPE: SUPPORT, APPLICATION: STAY WIRE ASSEMBLY, MATERIAL: STEEL; DRAWING NO: CEE-TMHA-0027	1. Cutting machine	
24	54010383	BRACKET; TYPE: CLIMBING ANGLE , APPLICATION: STEADY ARM/HOCKEY STICKS, MATERIAL: STEEL, DIMENSIONS: LG 600 MM; DRAWING NO: CEE-TMF-0152	1. Cutting machine 2. welder	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
25	54011162	BRACKET; TYPE: CLIMBING ANGLE , APPLICATION: STEADY ARM/HOCKEY STICKS, MATERIAL: STEEL, DIMENSIONS: LG 965 MM; DRAWING NO: CEE-TMF-0191; FOR RAIL MAST	1. Cutting machine 2. welder	
26	54013488	BRACKET; TYPE: SUPPORT, APPLICATION: WEIGHT TENSION DEVICE, MATERIAL: STEEL; DRAWING NO CEE-TMFB-0176 FOR UNIVERSAL COLUMN MAST		
27	54006272	BRACKET; TYPE: CLEVIS, MATERIAL: SPHEROIDAL GRAPHITE IRON; SWINGING , H500110-3-133-E-DE-0067,	1. Drilling machine 2. Cutting machine / grinding machine	
28	54011404	BRACKET; TYPE: VERTICAL ATTACHMENT, MATERIAL: STEEL; DRAWING NO: CEE-TMF-0344; ELECTRICAL EQUIPMENT; EQUIPMENT USED ON OHTE; VERTICAL *A FOR 4725 CONTACT WIRE HEIGHT AUTO TENSION CONSTRUCTION USERS INTEREST 3, 25 AND 50 KV; FOR 25 KV AUTO-TENSION	1. Drilling machine 2. Cutting machine / grinding machine	
29	54006343	ASSEMBLY; TYPE: BRACKET SWIVEL BOLT ON, APPLICATION: ORE LINE RAIL; DRAWING NO: H500110-3-133-E-DE-0039	1. Cutting machine 2. Drilling machine	
30	54002171	PLATE, METALLIC; TYPE: ADAPTOR, THICKNESS: 6 MM, WIDTH: 50 MM, LENGTH: 120 MM, PLATE MATERIAL: STEEL; DRAWING NO: CEE-TNE-0033, LA; EQUIPMENT USED ON 5405201; EXTENSION AND LINK STRAP GALVANISED FLAT IRON.	1. Cutting machine 2. Drilling machine	
31	54032908	ASSEMBLY; TYPE: OVERHEAD TRACK EQUIPMENT SUPPORT, APPLICATION: DOME ROOF TUNNEL, DIMENSIONS: LG 65 MM; DRAWING NO: BBB 1673; EQUIPMENT USED ON LINK FOR SUPPORT FITTING AND BRIDGES; 3 KV DC AND 25 KV AC; TO BE SUPPLIED COMPLETE WITH 6 X STEEL FLAT WASHERS GALVANIZED; NORMAL M12. 3 X HEX STEEL BOLTS GALVANIZED WITH NYLOCK NUTS M12	1. Fibreglass mould 2. Cutting 3. Drilling machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
32	54002195	PLATE, METALLIC; TYPE: ADAPTOR, THICKNESS: 10 MM, WIDTH: 80 MM, LENGTH: 540 MM, MATERIAL GRADE: 304; DRAWING NO: CEE-TNE-0022; EXTENSION AND LINK STRAP GALVANISED MALLEABLE CAST IRON	1. Cutting machine 2. Drilling machine	
<b>Group F</b>				
1	54002805	ATTACHMENT; TYPE: DROPPER SET, APPLICATION: OVERHEAD TRACK EQUIPMENT; DRAWING NO: CEE-TND-0005, LA; CEE-TND-0022, LA; CEE-TND-0009, LA; COMPLETE SET OF 4 MM. DIAMETER. HARD DRAWN COPPER/ SOFT 304 STAINLESS DROPPERS FOR A 67 METRE SPAN. TO SUIT ITEM 12 160 MM. SQ. CLIP-ON TYPE CATENARY CLIP. REFER TO (54/16836) AND 161 MM. SQ CONTACT CLIP REFER TO BE SUPPLIED WITHOUT CATENARY AND CONTACT CLIP.	1. Bending machine/ Jig	
<b>Group G</b>				
1	54032528	INSULATOR, STANDOFF; TYPE: SQUARE TONGUE/SPADE, INSULATOR MATERIAL: SILICON RUBBER, POTENTIAL RATING: 25 KVAC; DRAWING NO: BBB0429, 4; BBB0430, 3; EQUIPMENT USED ON OHTE	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
2	54016897	INSULATOR, STRAIN; TYPE: VANDAL PROOF, POTENTIAL RATING: 3 KVDC; DRAWING NO: CEE-TNC-0004, LA; TONGUE AND CLEVIS TYPE; MUST COMPLY TO QUOTED DRAWING	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
3	54024239	INSULATOR, SUSPENSION; TYPE: VANDAL PROOF, INSULATOR MATERIAL: SILICON RUBBER, INSULATOR ATTACHMENT METHOD: ROUND TONGUE/HOOK TONGUE END CAPS, SPECIAL FEATURES: CREEPAGE PATH, 1476 MM; DRAWING NO: BBB3019,	1. Crimping / Glueing machine 2. Silicon injection moulding machine	



No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
		LA; BBB 3020, LA; EQUIPMENT USED ON OHTE;25 KV AC		
4	54032553	INSULATOR; TYPE: COMPRESSION, POTENTIAL: 25 KVAC, MATERIAL: SILICON RUBBER; DRAWING NO: BBB 0430, LA; BBB 0429, LA; END CAP CONFIGURATION, CLEVIS/PIPE FITTING	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
5	54000205	INSULATOR; TYPE: LONG ROD, VANDAL PROOF, POTENTIAL: 50 KV, MATERIAL: COMPOSITE; DRAWING NO: BBC 1777, LA; ITEM USED ON SISHEN SALDANHA FEEDER LINE TROLLEY WIRE.	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
6	54006182	INSULATOR; TYPE: COMPOSITE COMPRESSION, POTENTIAL: 50 KVAC, MATERIAL: VANDAL PROOF; DRAWING NO: BBF 9766, LA; ITEM USED ON 50KV AC ELECTRIFICATION.	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
7	54033393	INSULATOR; TYPE: COMPRESSION, POTENTIAL: 25 KVAC, MATERIAL: SILICON RUBBER; DRAWING NO: BBB 3019, LA; BBB 3020, LA; END CAP CONFIGURATION, ROUND TONGUE: INSULATOR ATTACHMENT METHOD: ROUND TONGUE END CAP	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
8	54033408	INSULATOR; TYPE: COMPRESSION, POTENTIAL: 25 KVAC, MATERIAL: SILICON RUBBER; DRAWING NO: BBB 3019, LA; BBB 3020, LA; END CAP CONFIGURATION: INSULATOR ATTACHMENT METHOD: HOOK/PIPE FITTING END CAPS SPECIAL FEATURES: CREEPAGE PATH, 1476 MM	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
9	54032541	INSULATOR; TYPE: COMPRESSION, POTENTIAL: 25 KVAC, MATERIAL: SILICON RUBBER; DRAWING NO: BBB0429, LA; BBB0430, LA; END CAP CONFIGURATION, CLEVIS PIPE FITTING.	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
10	54032516	INSULATOR; TYPE: COMPRESSION, POTENTIAL: 25 KVAC, MATERIAL: SILICON RUBBER; DRAWING NO: BBB0430, LA; BBB0429, LA; VANDAL PROOF, END CAP CONFIGURATION: ROUND TONGUE/PIPE FITTING	1. Crimping / Glueing machine 2. Silicon injection moulding machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
11	54024883	INSULATOR; TYPE: POST, POTENTIAL: 11 KV, MATERIAL: SILICON RUBBER; DRAWING NO: BBC 8439, LA; SPECIFICATION: SANS 121, LA; VANDAL PROOF POST TRANSMISSION LINE INSULATOR, EQUIPMENT USED ON; MAST STRUCTURE; F-NECK TYPE; TO INCLUDE M20 X 155 MM LONG FULL THREAD SPINDLE; NUT AND FLAT WASHER	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
12	54033975	INSULATOR, STANDOFF; TYPE: VANDAL PROOF, INSULATOR MATERIAL: SILICON, POTENTIAL RATING: 50 KVAC, INSULATOR ATTACHMENT METHOD: SQUARE TONGUE AND TUBE END FITTING; USED ON SISHEN-SALDANHA ,H500110-3-133-E-DE-0140, BBC 1684	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
13	54032488	INSULATOR; TYPE: TENSION, POTENTIAL: 25 KV, MATERIAL: SILICON RUBBER; DRAWING NO: BBB 0281, LA; SPECIFICATION: IEC 1109, 0; CREEPAGE PATH 1476; VANDAL PROOF; (COMPOSITE) SQUARE TONGUE AND ROUND CLEVIS END CAPS	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
14	54032476	INSULATOR; TYPE: TENSION, POTENTIAL: 25 KVAC, MATERIAL: SILICON RUBBER; DRAWING NO: BBB0281 , LA; SPECIFICATION: IEC 1109, LA; END CAP CONFIGURATION, ROUND CLEVIS/ROUND TONGUE COMPOSITE	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
15	54032011	ASSEMBLY; TYPE: INSULATED KNUCKLE, APPLICATION: CATENARY AND CONTACT WIRE; DRAWING NO: CEE-TND-0040; CONSISTING OF ITEMS 1 AND 3 OF QUOTED DRAWING. EQUIPMENT USED ON Ohte	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
16	54032605	INSULATOR; TYPE: TENSION, POTENTIAL: 25 KVAC, MATERIAL: SILICON RUBBER; DRAWING NO: BBB 0281, LA; SPECIFICATION: IEC 1109, LA; END CAP CONFIGURATION, SQUARE TONGUE.	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
17	54000612	INSULATOR; TYPE: UNIVERSAL VANDAL PROOF, POTENTIAL: 25 KVAC, DIMENSIONS: AS PER DRAWING; DRAWING NO: BBG 2208	1. Crimping / Glueing machine 2. Silicon injection moulding machine	
18	54032868	ASSEMBLY; TYPE: PIVOT ARM, APPLICATION: DOME ROOF TUNNEL; DRAWING NO: BBB1685	1. Fibreglass mould 2. Cutting 3. Drilling machine	
<b>Group H</b>				

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
1	54002033	ASSEMBLY; TYPE: CLAMP, APPLICATION: EARTH WIRE; DRAWING NO: CEE-TN-0371, LA; USED ON O.H.T.E	1. Drilling machine 2. Cutting machine	
2	54002753	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 160 TO 100/80MM2, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 2141, LA; SPECIFICATION: CEE-0063, LA; EQUIPMENT USED ON OHTE.	1. Stamping machine 2. Machine for serations	
3	54002777	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 160 TO 160 MM2, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 2141, LA; SPECIFICATION: CEE-0063, LA; EQUIPMENT USED ON OHTE	1. Stamping machine 2. Machine for serations	
4	54000880	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 250 TO 160 MM2, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 2141, LA; SPECIFICATION: CEE-0063, LA	1. Stamping machine 2. Machine for serations	
5	54000907	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 250 TO 250 MM2, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 2141, LA; SPECIFICATION: CEE-0063, LA; EQUIPMENT USED ON OHTE	1. Stamping machine 2. Machine for serations	
6	54000867	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 250-100 MM2, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 2141, LA; SPECIFICATION: CEE-0063, LA; EQUIPMENT USED ON OHTE	1. Stamping machine 2. Machine for serations	
7	54000791	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 80 TO 100 MM2, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 2141, LA; SPECIFICATION: CEE-0063, LA; EQUIPMENT USED ON OHTE	1. Stamping machine 2. Machine for serations	
8	54000766	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: OVERHEAD TRACK EQUIPMENT, DIMENSIONS: 100/80 MM TO 50 MM2, MATERIAL: COPPER AND NICKEL AND SILICON; DRAWING NO: BBH 2141, LA; SPECIFICATION: CEE-0063, LA	1. Stamping machine 2. Machine for serations	
9	54001949	ASSEMBLY; TYPE: FEEDER CLAMP, APPLICATION: 100/80 TO 161 MM2, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 2142, LA; EQUIPMENT USED ON OHTE	1. Stamping machine 2. Machine for serations	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
10	54014850	ASSEMBLY; TYPE: FEEDER CLAMP, APPLICATION: 80, 100 TO 107 MM2, MATERIAL: COPPER AND NICKEL AND SILICON; DRAWING NO: BBH 2142, LA; SPECIFICATION: CEE-0063, LA, ITEM: SHEET 1; EQUIPMENT USED ON OHTE	1. Stamping machine 2. Machine for serations	
11	54014862	ASSEMBLY; TYPE: FEEDER CLAMP, APPLICATION: ID 160 TO 107 MM2, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 2142, LA; EQUIPMENT USED ON OHTE	1. Stamping machine 2. Machine for serations	
12	54004930	ASSEMBLY; TYPE: FEEDER CLAMP, APPLICATION: ID 160 TO 161 MM2, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 2142, LA; SPECIFICATION: CEE 0063, LA; EQUIPMENT USED ON OHTE	1. Stamping machine 2. Machine for serations	
13	54006827	SPLICE, CONDUCTOR; DIMENSIONS: DIA 107 MM2, TYPE: CONTACT WIRE, MATERIAL: COPPER/NICKEL/SILICON; DRAWING NO: BBH 2137, LA	1. Stamping machine 2. Machine for serations	
14	54000754	SPLICE, CONDUCTOR; DIMENSIONS: 161 MM2, TYPE: CONTACT WIRE, MATERIAL: COPPER/NICKEL/SILICON; DRAWING NO: BBH 2139 , LA; TO BE SUPPLIED 25 EACH PER CARTOON	1. Stamping machine 2. Machine for serations	
15	54032504	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 160 TO 160 MM2, MATERIAL: ALUMINIUM; DRAWING NO: BBG 7987, LA; EQUIPMENT USED ON OHTE	1. Stamping machine 2. Machine for serations	
16	54000560	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 500 TO 160, MATERIAL: ALUMINIUM; DRAWING NO: BBG 7987, LA, ITEM: SHEET 2; FEEDER 50 KV; USED ON OHTE FCC CONNECTION 500 MM2 TO 160 MM2 TIGER WIRE	1. Stamping machine 2. Machine for serations	
17	54000603	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 800 TO 160, MATERIAL: ALUMINIUM; DRAWING NO: BBG 7987, LA, ITEM: SHEET 3; FEEDER 50 KV; USED ON OHTE FCC 800 MM2 TO 160 MM2 TIGER WIRE	1. Stamping machine 2. Machine for serations	
18	54006787	ASSEMBLY; TYPE: DROPPER CLIP, APPLICATION: CONTACT WIRE, DIMENSIONS: SQ 107 MM; DRAWING NO;	1. Stamping machine 2. Machine for serations	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
		CEE-TND-0022, LA; SPECIFICATION: CEE-0063, LA		
19	54017312	ASSEMBLY; TYPE: DROPPER CLIP, APPLICATION: CONTACT WIRE, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: CEE-TND-0022, LA; SPECIFICATION: CEE.0063, LA; ITEM USED ON CONTACT WIRE SIZE 161MM2.	1. Stamping machine 2. Machine for serations	
20	54020848	KIT; TYPE: MAST CONNECTOR WEDGE, APPLICATION: BONDING; DRAWING NO: BBC 7863, LA; SPECIFICATION: BBB 6017, LA; ITEM USED FOR BONDING ON UNIVERSAL COLUMN AND I-BEAM MAST	1. CNC machine	
21	54020824	KIT; TYPE: RAIL BOND CONNECTOR WEDGE, APPLICATION: BONDING; DRAWING NO: BBC 7864, LA; SPECIFICATION: BBB 6017, LA; EQUIPMENT USED ON OHTE RAIL BONDING	1. CNC machine	
22	54011275	CLAMP, ELECTRICAL CONDUCTOR, STRAIN; TYPE: SUSPENSION, CLAMP TYPE: SHACKLE STRAP; DRAWING NO: BBH 2963, LA; SPECIFICATION: SANS 121, LA; EQUIPMENT USED ON OHTE FOR EARTH WIRE; 150 TO 250 MM2; LINER TO BE 2 MM THICK	1. Stamping machine 2. Machine for serations	
23	54011643	CLAMP ASSEMBLY, RETAINING; TYPE: SWIVEL CLIP, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 3656 SHEET 1, LA; SPECIFICATION: CEE-0063, LA; ITEM USED ON 161MM2 CONTACT WIRE FOR LARGE SWIVEL HEADS.	1. Stamping machine 2. Machine for serations	
24	54028819	CLAMP ASSEMBLY, RETAINING; TYPE: SWIVEL CLAMP; DRAWING NO: BBH 3656 SHEET 4, LA; SPECIFICATION: CEE-0063, LA; ITEM USED ON 107MM2 CONTACT WIRE FOR SMALL SWIVEL HEADS.	1. Stamping machine 2. Furnace	
25	54011591	CLAMP ASSEMBLY, RETAINING; TYPE: SWIVEL CLIP, MATERIAL: COPPER NICKEL SILICON; DRAWING NO: BBH 3656 SHEET 3, LA; SPECIFICATION: CEE-0063, LA; ITEM USED ON 107MM2 CONTACT WIRE FOR LARGE SWIVEL HEAD.	1. Stamping machine 2. Furnace	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
26	54000690	CLAMP ASSEMBLY, RETAINING; TYPE: SWIVEL CLIP, MATERIAL: COPPER NICKEL SILICON, ATTACHMENT METHOD: WIRE 161 MM2; DRAWING NO: BBH 3656 SHEET 2, LA; CEE-TND-0001 SHEET 1, LA; CEE-TND-0035, LA; SPECIFICATION: CEE-0063, LA; CONTACT WIRE FOR SMALL SWIVEL HEAD FOR GENERAL USE COMPLETE WITH STEADY ARM FITTING.	1. Stamping machine 2. Furnace	
27	54033583	CLAMP ASSEMBLY, RETAINING; TYPE: SWIVEL CLAMP; DRAWING NO: BBH 3656 SHEET 2, LA; SPECIFICATION: CEE-0063, LA; FULL ASSEMBLY SWIVEL CHEEKS FOR 161 MM2 CONTACT WIRE FOR SMALL SWIVEL HEAD.	1. Stamping machine 2. Furnace	
<b>Group I</b>				
1	54016836	CLIP; TYPE: DROPPER SADDLE, MATERIAL: NYLON, APPLICATION: SINGLE CATENARY; DRAWING NO: CEE-TND-0005, LA; INSULATOR,ELECTRICAL CONDUCTOR EQUIPMENT USED ON OHTE. SINGLE CATENARY NYLON DROPPER SADDLE. FOR CATENARY WIRE 160 MM SQ	1. Plastic injection moulding machine	
2	54006840	HANGER, WIRE STRAND; TYPE: CLIP ON, MATERIAL: NYLON; DRAWING NO: CEE-TND-0005; INSULATOR ELECTRICAL CONDUCTOR EQUIPMENT USED ON OHTE; SINGLE CATENARY NYLON DROPPER SADDLE; FOR CATENARY WIRE 80 MM SQ	1. Plastic injection moulding machine	
3	54017070	SADDLE; TYPE: CATENARY LOOP DROPPER, MATERIAL: NYLON; DRAWING NO: CEE-TND-0011, LA; SLEEVE,PROTECTIVE; EQUIPMENT USED ON OHTE; CLIP-ON-TYPE. ONLY SUITABLE FOR USE WITH 4 MM SOLID WIRE	1. Plastic injection moulding machine	
<b>Group J</b>				
1	54004020	PIN, STRAIGHT, HEADED; DIAMETER: 16 MM, LENGTH: 60 MM, MATERIAL: STEEL; DRAWING NO: CEE-TX-0066CEE-TX-0054; SPECIFICATION: SANS 121 DATE 2000; COMPLETE WITH BRASS SPLIT PIN ACCORDING TO DRAWING	1. Cotter pin forming machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
2	54006193	CLAMP ASSEMBLY, RETAINING; TYPE: BALL SWIVEL; DRAWING NO: BBH 1181 , LA; ATTACHMENT TO REGISTER ARM CONSISTING OF BODY, M12 DIA "U" BOLT, COMPLETE WITH NUTS & SPRING WASHERS. ATTACHMENT FOR 42.4MM AND 48.3MM PIPE. EQUIPMENT USED ON 25KV OHTE.	1. Drilling machine 2. Cutting/grinding machine	
3	54006270	CLAMP ASSEMBLY, RETAINING; TYPE: STRAIN, ATTACHMENT METHOD: CLEVIS; DRAWING NO: BBH 1179, LA; ITEM USED ON 25 KV AC OHTE FOR A PIPE OF DIAMETER 42.4 MM2 AND 48.3 MM2	1. Drilling machine 2. Cutting/grinding machine	
4	54004019	PIN, CLEVIS; DIAMETER: 24 MM, LENGTH: 60 MM, MATERIAL: MILD STEEL; DRAWING NO: CEE-TX-0080; COMPLETE WITH SPLIT PIN	1. Cotter pin forming machine	
5	54027321	PIN, CLEVIS; DIAMETER: 16 MM, LENGTH: 80 MM, MATERIAL: STEEL; DRAWING NO: SSE-208269; CF 222, 50KV AC	1. Cotter pin forming machine	
6	54015855	PIN, CLEVIS; DIAMETER: 20 MM2, LENGTH: 315 MM, MATERIAL: STAINLESS STEEL, HEAD STYLE: FLAT; DRAWING NO: BBH 1164, LA; EQUIPMENT USED BETWEEN ERMELO AND VRYHEID ELECTRICIFICATION	1. Cotter pin forming machine	
7	54017753	PIN, STRAIGHT, HEADED; DIAMETER: M16, LENGTH: 55 MM, MATERIAL: STAINLESS STEEL; SPECIFICATION: SANS 1700 PART 17, LA; PIN FINISH MUST BE SNAPHEAD AND MUST BE SUPPLIED WITH A LOCKING SPLIT PIN. ITEM USED ON THE SISHEN-SALDANHA LINE. H500110-3-133-E-DE-0074, SSE-208269	1. Cotter pin forming machine	
8	54020885	PIN, CLEVIS; DIAMETER: 12 MM, LENGTH: 33 MM, MATERIAL: STEEL; DRAWING NO: CEE-TX-0073; FINISH, HOT DIP GALVANISE TO SANS 121. EQUIPMENT USED ON OHTE STORES DESCRIPTION CLEVIS PIN M12 FOR TROLLEY WIRE DESIGN 25 AND 50 KV COMPLETE WITH BRASS SPLIT PIN	1. Cotter pin forming machine	
9	54011793	PIN, CLEVIS; DIAMETER: 16 MM, LENGTH: 152 MM, MATERIAL: STEEL; DRAWING NO: CEE-TX-0054; EQUIPMENT USED ON: OHTE; ROUND HEAD, STEEL,ZINC COATED M16 X 160 MM LONG CENTRE LINE OF 7 MM DIA SPLIT PIN HOLE 152 MM DIA FROM HEAD	1. Cotter pin forming machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
		SUPPLIED WITH SPLIT PIN; CLEVIS (54003734)		
10	54004007	PIN, CLEVIS; DIAMETER: 24 MM2, LENGTH: 76 MM, MATERIAL: MILD STEEL; DRAWING NO: CEE-TX-0059, LA, ITEM: 1 & 2; CEE-TX-0059; EQUIPMENT USED ON TENSION BRIDGE AND ANCHOR MAST; COMPLETE WITH SPLIT PIN AS PER DRAWING.	1. Cotter pin forming machine	
11	54001582	ATTACHMENT; TYPE: ADAPTOR, APPLICATION: STEADY ARM SOCKET; DRAWING NO: CEE-TNB-0076, LA	1. Drilling machine 2. Cutting/grinding machine	
12	54002790	SLEEVE; TYPE: TUBING, APPLICATION: DROPPER SECURING, INSIDE DIAMETER: 8 MM, OUTSIDE DIAMETER: 10 MM, LENGTH: 10 MM, MATERIAL: COPPER; DRAWING NO: CEE-TX-0079, LA	1) Tube cutter/ Spring forming machine	
13	54004978	ASSEMBLY; TYPE: WIRE ENDING CONE, APPLICATION: CONTACT WIRE; DRAWING NO: CEE-TNB-0036, LA; EQUIPMENT USED ON OHTE	1. Drilling machine 2. Cutting/grinding machine	
<b>Group K</b>				
1	54016925	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 800 TO 160 MM2, MATERIAL: BI-METALLIC; DRAWING NO: BBD 5138, LA, ITEM: SHEET 4	1. Stamping machine	
2	54002152	CLAMP; TYPE: FEEDER CLAMP, DIMENSIONS: AS PER DRAWING, MATERIAL: BI-METALLIC; DRAWING NO: BBH 0306, LA; CLAMP IS USED FOR JOINING 160 MM2 ALUMINIUM(TIGER) AND 107 MM2 COPPER CONTACT WIRE; BI-METAL FEEDER CLAMP	1. Stamping machine	
3	54000401	CLAMP; TYPE: FEEDER, DIMENSIONS: AS PER DRAWING, MATERIAL: BI-METALLIC; DRAWING NO: BBG 6147, 0; SPECIFICATION: CEE-0063, 0; PARALLEL; CU-NI-SI; COPPER CONTACT WIRE, TIGER TO 161 CONTACT	1. Stamping machine	



No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
4	54032387	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 160 TO 160 MM2, MATERIAL: BI-METALLIC; DRAWING NO: BBD 5138, LA; BI-METAL, WITH A PERMANENT FORGED COPPER INSERT	1. Stamping machine	
5	54032375	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 160 TO 100/80 MM2, MATERIAL: BI-METALLIC; DRAWING NO: BBD 5138, LA, ITEM: SHEET 5	1. Stamping machine	
6	54016937	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 500 TO 160 MM2, MATERIAL: BI-METALLIC; DRAWING NO: BBD 5138, LA, ITEM: SHEET 3	1. Stamping machine	
7	54032363	ASSEMBLY; TYPE: PARALLEL CLAMP, APPLICATION: 160 TO 50 MM2, MATERIAL: BI-METALLIC; DRAWING NO: BBD 5138, LA, ITEM: SHEET 5	1. Stamping machine	
<b>Group L</b>				
1	54009274	TUBE; TYPE: REGISTERING ARM, INSIDE DIAMETER: 28.8 MM, OUTSIDE DIAMETER: 31.8 MM, LENGTH: 6.1 M, MATERIAL: STEEL; SPECIFICATION: SANS 121 DATE 2000; MATERIAL TO BE GRADE 300 WA HOT DIPPED GALVANISED TO SPECIFICATION	1. Cutting machine	
2	54001962	TUBE; TYPE: REGISTERING ARM, INSIDE DIAMETER: 44 MM, OUTSIDE DIAMETER: 48 MM, LENGTH: 3.36 M, MATERIAL: STEEL; DRAWING NO: CEE-TMHH-0002; SPECIFICATION: SANS 657 PART 1; STORES DESCRIPTION PUSH-PULL-OFF REGISTERING TUBE WITH A CLEVIS AT EACH END.	1. Cutting machine 2. Crimping tool	
3	54029813	TUBE; TYPE: REGISTERING ARM, INSIDE DIAMETER: 34.9 MM, OUTSIDE DIAMETER: 38.1 MM, LENGTH: 3.02 M, MATERIAL: STEEL; DRAWING NO: BT102; EQUIPMENT USED ON OHTE BRITS-THABAZIMBI STORES DESCRIPTION REGISTERING TUBE 38.1 X 38.1 X 3.2 MM WALL X 3.020 METRE LONG	1. Crimping tool 2. Cutting Machine	
4	54030162	TUBE; TYPE: REGISTERING , INSIDE DIAMETER: 22.5 MM, OUTSIDE DIAMETER: 26 MM, LENGTH: 1.65 M, MATERIAL: STEEL; EQUIPMENT USED ON OHTE BRITS-THABAZIMBI STORES DESCRIPTION REGISTERING TUBE 26 MM OD X 3.5 MM THICK	1. Cutting machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
5	54009302	TUBE, STRUCTURAL; TYPE: STEADY ARM BRIDGE TYPE, DIMENSIONS: THK 2.03 MM, MATERIAL: STAINLESS STEEL GRADE 304; DRAWING NO: CEE-TN -0152; OD = 25.4 MM. TOLERANCE+0-0.75 WALL THICKNESS = 2 MM MINIMUM AFTER MANIPULATION. HARDNESS = 180-270 BRINELL. ELONGATION = 6 % MINIMUM ON 25.4 MM GAUGE LENGTH AT 0.02 % OFFSET. ULTIMATE TENSILE STRESS = 486 N/MM SQ. MINIMUM. MATERIAL = AISI 304 WELDED	1. Pipe bending Machine	
6	54009314	TUBE, STRUCTURAL; TYPE: CURVED STEADY ARM, DIMENSIONS: DIA 25.4 MM X LG 1.132 M, MATERIAL: STAINLESS STEEL GRADE 304; DRAWING NO: CEE-TND-0019; TOLERANCE+0-0.75. WALL THICKNESS = 2 MM MINIMUM AFTER MANIPULATION. HARDNESS = 180-270 BRINELL. ELONGATION = 6 % MINIMUM ON 25.4 MM GAUGE LENGTH AT 0.02 % OFFSET. ULTIMATE TENSILE STRESS = 486 N/MM SQ. MINIMUM. MATERIAL = AISI 304 WELDED	1. Pipe bending Machine	
7	54027624	TUBE, STRUCTURAL; TYPE: REGISTRATION TUBE, DIMENSIONS: OD 42.8 MM X LG 3.06 M; DRAWING NO: BBH 1283, LA; ITEM USED FOR PUSH-PULL-OFF APPLICATION	1. Crimping tool 2. Cutting Machine	
8	54009338	TUBE, STRUCTURAL; TYPE: TUNNEL STEADY ARM, DIMENSIONS: DIA 25.4 X LG 990 X THK 2.03 MM, MATERIAL: STAINLESS STEEL GRADE 304; DRAWING NO: CEE-TN -0153, 0; STRESS = 486 N/MM SQ MINIMUM. MATERIAL = AISI 304 WELDED. TUNNEL STEADY ARM. OD = 25.4 MM.TOLERANCE+0-0.75. WALL THICKNESS = 2 MM MINIMUM AFTER MANIPULATION. HARDNESS = 180-270 BRINELL. ELONGATION = 6 % MINIMUM ON 25.4 MM GAUGE LENGTH AT 0.02 % OFFSET. ULTIMATE TENSILE	1. Pipe bending Machine	
9	54001735	TUBE, STRUCTURAL; TYPE: CANTILEVER, DIMENSIONS: DIA 76 MM X LG 2.8 M X THK 5.5 MM; DRAWING NO: CEE-TMC-0042; USED FOR 2.75 M TRACK CENTRES FOR 203 X 203 UC MASTS	1. Cutting machine 2. welder	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
10	54002450	TUBE, STRUCTURAL; TYPE: REGISTERING ARM, DIMENSIONS: OD 48 X LG 900 X THK 4 MM, MATERIAL: STEEL; DRAWING NO: CEE-TN-0244; SPECIFICATION: SANS 657; EQUIPMENT USED ON 5400000 5405200 5405202 SPECIFICATION NUMBER SANS 657 GALVANISED WITH CLEVIS FITTING EACH END; GRADE 340 ERW	1. Pipe bending Machine 2. Crimping tool	
11	54112455	PIPE ASSEMBLY; TYPE: STEADY ARM, APPLICATION: 25 KV OVERHEAD TRACK EQUIPMENT, MATERIAL: STAINLESS STEEL; DRAWING NO: BBH 0441, LA, ITEM: 1; ITEM USED FOR TANGENT TRACK BETWEEN BRITS AND THABAZIMBI.	1. Pipe bending Machine 2. Crimping tool	
12	54920893	PIPE ASSEMBLY; TYPE: STEADY ARM, APPLICATION: 25 KV OVERHEAD TRACK EQUIPMENT; DRAWING NO: BBH 0442, LA, ITEM: 2; FOR LIGHT AND HEAVY CURVES BETWEEN BRITS AND THABAZIMBI.	1. Pipe bending Machine 2. Crimping tool	
13	54112456	PIPE ASSEMBLY; TYPE: STEADY ARM, APPLICATION: 25 KV OVERHEAD TRACK EQUIPMENT; DRAWING NO: BBH 0442, LA, ITEM: 3; FOR LIGHT AND HEAVY CURVES BETWEEN BRITS AND THABAZIMBI.	1. Pipe bending Machine 2. Crimping tool	
14	54112452	PIPE ASSEMBLY; TYPE: STEADY ARM, APPLICATION: 25 KV OVERHEAD TRACK EQUIPMENT; DRAWING NO: BBH 0442, LA, ITEM: 1; FOR LIGHT AND HEAVY CURVES BETWEEN BRITS AND THABAZIMBI	1. Pipe bending Machine 2. Crimping tool	
15	54001658	PIPE ASSEMBLY; TYPE: REGISTERING , APPLICATION: PUSH PULL OFF CANTILEVER, MATERIAL: STEEL, DIMENSIONS: OD 48 X THK 4 X LG 2730, CONNECTION TYPE: CLEVIS EACH END; DRAWING NO: 1CEE-TMHH- 2/LATEST, 0; SPECIFICATION: SANS 657 PART 1; SPECIFICATION GRADE 340 ERW	1. Crimping tool	
16	54015451	PIPE ASSEMBLY; TYPE: STEADY ARM, APPLICATION: OVERHEAD TRACK EQUIPMENT, MATERIAL: STEEL, DIMENSIONS: ID 30 MM X LG 1.015 M X THK 2 MM, CONNECTION TYPE: HOOK AND SOCKET; DRAWING NO: CEE-TN-0386, LA; SPECIFICATION: SANS 121, LASANS 657 GRADE 250, LA	1. Pipe bending Machine 2. Crimping tool	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
17	54000236	PIPE ASSEMBLY; TYPE: REGISTERING , APPLICATION: DOUBLE BOOMS, MATERIAL: STEEL, DIMENSIONS: OD 48 X THK 4 X LG 2320 MM, CONNECTION TYPE: WITH CLEVIS; DRAWING NO: CEE-TMF-0444; SPECIFICATION: SANS 121DATE 2000SANS 657 PART 1; 25KV AUTO TENSION BEAUFORT-WEST DE AAR ,SPECIFICATION HOT DIPPED GALVANISED	1. Crimping tool	
18	54001723	PIPE ASSEMBLY; TYPE: REGISTERING ARM, APPLICATION: PULL OFF CANTILEVER, MATERIAL: STEEL, DIMENSIONS: OD 48 MM X LG 1.9 M X THK 4 MM, CONNECTION TYPE: CLEVIS EACH END; DRAWING NO: CEE-TMHH-0002; CEE-TN-0408	1. Crimping tool	
19	54001747	PIPE ASSEMBLY; TYPE: REGISTERING ARM, APPLICATION: PUSH PULL OFF CANTILEVER, MATERIAL: STEEL, DIMENSIONS: OD 48 MM X THK 4 MM X LG 3.030 M, CONNECTION TYPE: CLEVIS EACH END; DRAWING NO: CEE-TMHH-0002; SPECIFICATION: SANS 657 PART 1; SPECIFICATION GRADE 340 ERW	1. Crimping tool	
20	54000111	PIPE, METALLIC; TYPE: STEADY ARM, PIPE SIZE: OD 25 MM, LENGTH: 2.3 M, WALL THICKNESS: 2.5 MM, PIPE MATERIAL: STAINLESS STEEL, SPECIAL FEATURES: STRAIGHT ADJUSTABLE STEADY ARM; DRAWING NO: CEE-TZ7-0123 SHEET 49, LA; EQUIPMENT USED ON 25 KV OHTE; WITH EYE CLAMP (ITEM 2)	1. Crimping tool	
21	54007303	TUBE; TYPE: REGISTERING ARM, INSIDE DIAMETER: 44 MM, OUTSIDE DIAMETER: 48 MM, LENGTH: 6 IN, MATERIAL: STEEL; DRAWING NO: CEE-TND-0034; STEEL TUBE FOR STRUCTURAL AND GENERAL ENGINEERING PURPOSES, GALVANISED TO SABS 763.25 KV OHTE	1. Crimping tool	
22	54028185	TUBE; TYPE: REGISTERING , INSIDE DIAMETER: 46 MM, OUTSIDE DIAMETER: 50 MM, LENGTH: 3.1 M, MATERIAL: STEEL; DRAWING NO: SSE-208206 CF 506; 3.81KG/M. EQUIPMENT USED ON THE SISHEN SALDANHA OVERHEAD TRACK EQUIPMENT	1. Crimping tool	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
23	54009755	TUBE; TYPE: REGISTERING ARM, INSIDE DIAMETER: 30.02 MM, OUTSIDE DIAMETER: 33.4 MM, LENGTH: 6 IN, MATERIAL: STAINLESS STEEL GRADE 304	1.Cutting tool	
24	54009237	TUBE; TYPE: REGISTERING INLAND, INSIDE DIAMETER: 38.86 MM, OUTSIDE DIAMETER: 42.86 MM, LENGTH: 6.1 M, MATERIAL: STEEL; DRAWING NO: SANS 121 DATE 2000; MATERIAL TO BE GRADE 300 WA HOT DIPPED GALVANISED TO SPEC	1.Cutting tool	
25	54001812	TUBE ASSEMBLY, METALLIC; TYPE: CANTILEVER, LENGTH: 3.75 M, TUBE MATERIAL: STEEL; DRAWING NO: CEE-TMC-0042 ; FOR 203 X 203 UNIVERSAL COLUMNS MAST	1. Cutting machine 2. welder	
26	54001407	TUBE, METALLIC; SHAPE: ROUND, TUBE LENGTH: 3 M, OUTSIDE DIAMETER: 50 MM, WALL THICKNESS: 4 MM, TUBE MATERIAL: STEEL; DRAWING NO: CEE-TND-0038; SPECIFICATION: SANS 121 DATE 2000; PUSH-PULL OFF.EQUIPMENT USED ON OHTE	1. Crimping tool 2. Cutting Machine	
27	54112441	TUBE, METALLIC; SHAPE: ROUND, TUBE LENGTH: 3600 MM, OUTSIDE DIAMETER: 480 MM, WALL THICKNESS: 4 MM, TUBE MATERIAL: STEEL; DRAWING NO: CEE-TMG-0140, LA, ITEM: 11	1. Cutting Machine	
28	54001432	TUBE, METALLIC; SHAPE: ROUND, TUBE LENGTH: 2.8 M, OUTSIDE DIAMETER: 76 MM, TUBE MATERIAL: STEEL, SURFACE TREATMENT: GALVANIZED; DRAWING NO: CEE-TMC-0041; CANTILEVER, FOR 2,75 M TRACK CENTRES AND 203 X 152 AND 229 X 178 MM I MASTS	1. Cutting machine 2. welder	
29	54009351	TUBE; TYPE: KNUCKLE, INSIDE DIAMETER: 23.4 MM, OUTSIDE DIAMETER: 25.4 MM, LENGTH: 330 MM, MATERIAL: STAINLESS STEEL; DRAWING NO: CE-TN -0155; TOLERANCE+0-0.75; MINIMUM AFTER MANIPULATION; HARDNESS: 180-270 BRINELL; ELONGATION: 6 PCT MINIMUM ON 25.4 MM GAUGE LENGTH AT 0.02 PCT OFFSET; ULTIMATE TENSILE STRESS: 486 N/MM SQ MINIMUM; MATERIAL: AISI 304 WELDED	1.Cutting machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
30	54006259	ARM; TYPE: STEADY, DIMENSIONS: LG 910 MM, MATERIAL: STAINLESS STEEL; DRAWING NO: H500110-3-133-E-DE-0051	1. Pipe bending Machine 2. Crimping tool 3. Welder	
31	54009743	TUBE, STRUCTURAL; TYPE: CANTILEVER, DIMENSIONS: 60,33 MM OD X 3,91 MM WALL X 6 M LONG, MATERIAL: STAINLESS STEEL GRADE 304	1.Cutting tool	
<b>Group M</b>				
1	54011441	INSULATOR; P/N: 655154665, ARTHUR FLURY; P/N: UNKNOWN, PFISTERER (PTY)LIMITED; SECTION SPECIFICATION NUMBER CEE.0056.86 25KV AC - 3KV DC CHANGE OVER YARDS. FOR 161 SQ MM CONTACT WIRE. TO QUOTED PARTNUMBER OR EQUAL.	1.Welding Machine 2. Bending facilities for runners 3. Facilities for insulation rods	
2	54005304	INSULATOR; TYPE: NEUTRAL SECTION, POTENTIAL: 25 KV, DIMENSIONS: DIA 161 MM2; P/N: 655.236.000, ARTHUR FLURY; MATERIAL NUMBER; 54005304; EQUIPMENT USED ON OHTE, CONTACT WIRE 3 KVDC; COMPLETE WITH HANGING GEAR	1.Welding Machine 2. Bending facilities for runners 3. Facilities for insulation rods	
3	54010840	INSULATOR; TYPE: SINGLE ROD SECTION, POTENTIAL: 25 KVAC; SPECIFICATION: CEE-0055, LA; FOR 107 SQ MM CONTACT WIRE	1.Welding Machine 2. Bending facilities for runners 3. Facilities for insulation rods	
4	54010775	INSULATOR; TYPE: SECTION INSULATOR, POTENTIAL: 3 KVDC; SPECIFICATION: CEE.0054, LA; ITEM USED ON 161 SQ MM CONTACT WIRE ON 3KV DC ELECTRIFICATION.	1.Welding Machine 2. Bending facilities for runners 3. Facilities for insulation rods	
5	54005454	INSULATOR; TYPE: NEUTRAL SECTION, POTENTIAL: 25 KV, DIMENSIONS: DIA 107 MM2; P/N: 655.150.720, ARTHUR FLURY; MATERIAL NUMBER 54005454,EQUIPMENT USED ON OHTE, TO QUOTED PART NUMBERS OR EQUAL	1.Welding Machine 2. Bending facilities for runners 3. Facilities for insulation rods	
6	48007470	MAGNET; TYPE: TRACK SIDE; DRAWING NO: CEE-TLE 7, LV; 25KV AC MAGNET TYPE S25000-Q 5697-C5 WITH AN EFFECTIVE FLUX OF 3090: 10 WEBBER AT A VERTICAL HEIGHT OF 150 MM AND AN OFF CENTRE OFF DISTANCE OF 50 MM AT AN AMBIENT TEMP: OF 60 DEG C. TO QUOTED PART	1. Magnet cutting machine 2. Magnet Magnitize/charging machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
		NUMBER OR EQUAL FOR BOLTS 48000290 EQUIPMENT USED ON SUBS		
7	48008968	BLOCK; TYPE: MOUTING TRACK MAGNET RUBBER, WIDTH: 380 MM, LENGTH: 1.4 M, HEIGHT: 170 MM, MATERIAL: RUBBER; DRAWING NO: BBC 0694, LV; ITEM 48008968:TRACK MAGNET RUBBER DESIGNED FOR SLEEPER SPACING FROM 630MM TO 725MM 25 KV. LOCOMOTIVE SWITCHING AT NEUTRAL SECTIONS. COMPLETE AS PER DRAWING FOR "U: BOLTS 54000515 FOR MAGNET 4807470 FOR MAGNET BOLTS 48000290; EQUIPMENT USED ON OHTE / SUBS; MOUNTING	1. Rubber moulding/forming machine	
<b>Group N</b>				
8	54016003	WEIGHT, COUNTERBALANCE; TYPE: ROUND, WEIGHT MATERIAL: CONCRETE, GROSS WEIGHT: 25 KG, SPECIAL FEATURES: WITHOUT EYE; DRAWING NO: CEE-TZ9- 0113 ITEM 15; CEE-TZ9-0107	1) Scale for measurements	
9	54006738	WEIGHT, COUNTERBALANCE; TYPE: SOLID, WEIGHT MATERIAL: IRON, GROSS WEIGHT: 20 KG; DRAWING NO: CEE-TMF-0491; LINE TENSIONING EQUIPMENT USED ON CID 5400000 5405202; IRON WEIGHT. 20 KG. CONTACT AND CATENARY WIRES. 25 KV OVERHEAD TRACK EQUIPMENT	Casting - no special tools required	
10	54016229	WEIGHT, COUNTERBALANCE; TYPE: ROUND, WEIGHT MATERIAL: CONCRETE, GROSS WEIGHT: 25 KG; DRAWING NO: CEE-TZ9-0113; CEE-TZ9-0461; CEE-TZ9- 0400; STORES DESCRIPTION CONCRETE WEIGHT 25 KG WITH EYE PIECE.	1) Scale for measurements	
11	54006726	WEIGHT, COUNTERBALANCE; TYPE: SOLID, WEIGHT MATERIAL: IRON, GROSS WEIGHT: 40 KG; DRAWING NO: CEE-TMF-0490; LINE TENSIONING; EQUIPMENT USED ON: CID 5400000 5405202; CAST IRON WEIGHT. 40 KG. CONTACT AND CATENARY WIRES.	1) Scale for measurements	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
12	54009186	TENSIONER; TYPE: COMPACT AUTOMATIC SPRING, DIMENSIONS: AS PER SPECIFICATION; SPECIFICATION: BBG 2165, LA; ITEM USED FOR TENSIONING OHTE CONDUCTORS.	1. Spring Forming Machine	
13	54000202	COUNTERWEIGHT; TYPE: PULLEY WHEEL, DIMENSIONS: AS PER DRAWING, APPLICATION: TROLLEY WIRE; DRAWING NO: SSE TMF 05 , LA; OVERHEAD TRACK; COMPLETE; 50KV OHTE; SALDANHA; HOT DIPPED GALVANIZED, H500110-3-133-E-DE-0102	1. Lathe/CNC Machine	
14	54006326	COUNTERWEIGHT; TYPE: PULLEY WIRE, DIMENSIONS: LG 6.3 M X THK 10 MM, MATERIAL: STAINLESS STEEL; DRAWING NO: H500110-3-133-E-DE-0110; TROLLEY WIRE; SALDANHA	1. Crimping tool 2. Cable cutter	
15	54006637	GUIDE; TYPE: EYE, APPLICATION: BALANCE WEIGHT, MATERIAL: STEEL; DRAWING NO: CEE-TZ1-0124 SHEET 6	1. Crimping tool 2. Bending machine/Foam factor machine	
16	54009326	FAIRLEAD, SHEAVE; TYPE: BALANCE WEIGHT PULLEY, MATERIAL: STEEL; DRAWING NO: CEE-TZ1-0124 SHEET 8; SPECIFICATION: SANS 121 DATE 2000; ELECT RAIL PULLEY SINGLE BALANCE WEIGHT PULLEY WITHOUT BOND ATTACHMENT TO TENSION 25 KV. O.H.T.E.LINE GALVANISED TO SPECIFICATION	1. Lathe/CNC Machine	
17	54010763	TENSIONER PULLEY ASSEMBLY; TYPE: BALANCE WEIGHT, MATERIAL: STEEL; DRAWING NO: CEE-TMF-0523; SPECIFICATION: CEE-0131-85; STANDARD: SABS ISO 1461 ; CONTACT AND CATENARY 25 KV WIRE DEVICE: CONSISTING OF BASIC BALANCE WEIGHT PULLEY, WIRE ROPE AND CONNECTING DEVICES	1. Lathe/CNC Machine 2. Drilling machine 3. Cable crimping tool	
<b>Group O</b>				
18	54011934	SWITCH ASSEMBLY; TYPE: CHANGEOVER TRACK SWITCH; DRAWING NO: BBH 2140, LA; ITEM USED AS 25 KV AC - 3 KV DC SWITCH IN THE CHANGE OVER YARD.	1. Crimping tool 2. Cutting Machine	



No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
19	54033926	SWITCH ASSEMBLY; TYPE: TRACK, POTENTIAL RATING: 25 KVAC; DRAWING NO: BBB5971; BBC6441; CEE-TZ9-0236; BBC6440; EQUIPMENT USED ON OHTE STORES DESCRIPTION TRACK SECTIONING SWITCH 25 KV AC COMPLETE WITH LOCKING DEVICE BUT WITHOUT CLOSING MECHANISM	1. Crimping tool 2. Cutting Machine	
20	54017765	SWITCH ASSEMBLY; TYPE: SIDING, POTENTIAL RATING: 3 KVDC; DRAWING NO: BBB5971 ; CEE-TLB-0038; BBB5970; SPECIFICATION: CEE-0228.96; STORES DESCRIPTION SIDING SWITCH 3 KV. DC. WITHOUT OPERATING HANDLE, COMPLETE WITH LOCKING DEVICE. INSULATORS MUST BE OF THE SILICON VANDAL PROOF TYPE APPROVED INSULATOR : SILICOSIL-POST INSULATOR TO PARTNUMBER DP167-0178-003 GMC POWERLINE OR EQUAL	1. Crimping tool 2. Cutting Machine	
21	54001331	SWITCH ASSEMBLY; TYPE: SIDING, SPECIAL FEATURES: NO LOCKING DEVICE; DRAWING NO: CEE-TLB-0038; SPECIFICATION: CEE.0228.96; SIDING 3 KV DC. WITHOUT OPERATING HANDLE.	1. Crimping tool 2. Cutting Machine	
22	54033938	SWITCH ASSEMBLY; TYPE: SIDING, POTENTIAL RATING: 25 KVAC; DRAWING NO: BBC6441; BBC6440 ; BBB5971; CEE-TZ7-0121 SHEET 189; SPECIFICATION: CEE.0228.96; STORES DESCRIPTION SIDING SWITCH 25 KV AC COMPLETE WITH LOCKING DEVICE	1. Crimping tool 2. Cutting Machine	
23	54005733	SWITCH, KNIFE SPECIFICATION CEE.0228.96; SIDING 25 KV AC. POLLUTED & NON POLLUTED AREAS. TO QUOTED PART NUMBER OR EQUAL	1. Crimping tool 2. Cutting Machine	
24	54001242	SWITCH, KNIFE; TYPE: TRACK, CURRENT RATING: 3 KA, POTENTIAL RATING: 3 KV; SPECIFICATION: CEE 228.96, EQUIPMENT USED ON OHTE MOVING BLADE FOR AEG TYPE; STORES DESCRIPTION BLADE, ELECTRICAL SWITCH	1. Crimping tool 2. Cutting Machine	
25	54017397	SWITCH, KNIFE; TYPE: TRACK SWITCH, POTENTIAL RATING: 3 KVDC, NUMBER OF POLES: SINGLE, SPECIAL FEATURES: COMPLETE WITH LOCKING DEVICE; DRAWING NO: BBC 8741, LA, ITEM: 1 (with locking device)	1. Crimping tool 2. Cutting Machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
26	54014938	SWITCH ASSEMBLY; TYPE: TRACK SWITCH, POTENTIAL RATING: 25 KVAC, SPECIAL FEATURES: SINGLE POLE; DRAWING NO: BBC 8743, LA	1. Crimping tool 2. Cutting Machine	
27	54005276	SWITCH, KNIFE; TYPE: TRACK, POTENTIAL RATING: 3 KVDC, NUMBER OF POLES: SINGLE, SPECIAL FEATURES: WITHOUT LOCKING DEVICE; DRAWING NO: BBC 8741, LA, ITEM: 2 (no locking device)	1. Crimping tool 2. Cutting Machine	
28	54015892	ASSEMBLY; TYPE: BLADE SET, APPLICATION: SWITCH, TRACK, 25 KVAC; DRAWING NO: BBD 7601, LA	1. Crimping tool 2. Cutting Machine	
29	54005745	MECHANISM; TYPE: OPEN/CLOSE OPERATION, APPLICATION: TRACK SWITCH;; DRAWING NO: CEE-TZ1-0121 SHEET 52; EQUIPMENT USED ON 5400000 5405902 TRACK 25 KV AC COMPLETE, WITHOUT OPERATING ROD.	1. Crimping tool 2. Cutting Machine	
30	54001392	SWITCH, KNIFE; TYPE: TRISWITCH 4A, CURRENT RATING: 200 A, POTENTIAL RATING: 11 KVAC; TRISWITCH TYPE 4 A, LINEGEAR 2000; EQUIPMENT USED ON OHTE; DISCONNECT 3 PHASE GANG OPERATED; SWITCHING BY MEANS OF A INSULATED PORTABLE LINK STICK; TO QUOTED PARTNUMBER OR EQUAL; 3 POLE	1. Crimping tool 2. Cutting Machine	
<b>Group P</b>				
1	54001913	TURNBUCKLE; TYPE: ADJUSTING, THREAD SERIES: UNIFIED NATIONAL COARSE, MATERIAL: STEEL; DRAWING NO: CEE-TNB-0031; SPECIFICATION: BS 4429SANS 121 DATE 2000; EQUIPMENT USED ON: OHTE; DROP-FORGED; 110 MM TAKE-UP; M16 SCREWS.;EYE TO EYE.; COMPLETE WITH LOCKNUT; HOT DIPPED GALVANISED	1. Forging machine 2. Tapping machine	
2	54001937	TURNBUCKLE; TYPE: ADJUSTING, THREAD SERIES: UNIFIED NATIONAL COARSE, MATERIAL: CU-NI-SI; DRAWING NO: CEE-TN-0332; EQUIPMENT USED ON OHTE; TAKE-UP: 90 MM; FOR STAINLESS STEEL AND 75 MM; FOR CU-NI-SI.; QUOTED DRAWING FOR CU-NI-SI ONLY.	1. Forging machine 2. Tapping machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
3	54001925	TURNBUCKLE; TYPE: ADJUSTABLE, THREAD SERIES: UNIFIED NATIONAL COARSE, MATERIAL: STEEL; DRAWING NO: BBH 2962; SPECIFICATION: SANS 121 DATE 2000; EQUIPMENT USED ON OHTE; DROP-FORGED; 400 MM - 460 MM TAKE-UP; M24 SCREWS.; HOT DIPPED GALVANISED.	1. Forging machine 2. Tapping machine	
4	54031523	TURNBUCKLE; TYPE: ADJUSTING, THREAD SERIES: UNIFIED NATIONAL COARSE, MATERIAL: STEEL; DRAWING NO: CEE-TNB-0079; SPECIFICATION: SANS 121 DATE 2000; DROP-FORGED; EYE AND EYE; 130 MM TAKE-UP; COMPLETE WITH ONE LOCKNUT; M20 SCREWS.; HOT DIPPED GALVANISED.	1. Forging machine 2. Tapping machine	
5	54033659	SPRING, HELICAL, EXTENSION; TYPE: TENSIONING, OUTSIDE DIAMETER: 120 MM, INSIDE DIAMETER: 80 MM, NUMBER OF TURNS: 17, SPRING MATERIAL: STEEL, MATERIAL SIZE: 20 MM; DRAWING NO: BBB 2902; EQUIPMENT USED ON OHTE; CONTACT AND CATENARY WIRE TENSIONING; FOR 25 KV AC LINES	1. Spring forming machine	
6	54022544	SPRING, HELICAL, EXTENSION; TYPE: TENSIONING, OUTSIDE DIAMETER: 285 MM, INSIDE DIAMETER: 225 MM, NUMBER OF TURNS: 9.5, SPRING MATERIAL: STEEL, MATERIAL SIZE: 30 MM; DRAWING NO: CEE-TNB-33; CEE-TNB-30; EQUIPMENT USED ON OHTE; CONTACT WIRE TENSIONING FOR 3 KV.DC. LINES	1. Spring forming machine	
7	54007226	BOLT, U; THREAD DIAMETER: M12, THREAD SERIES: UNC, MATERIAL: STEEL, INSIDE DISTANCE BETWEEN SHANKS: 32 MM, THREAD LENGTH: 30 MM; DRAWING NO: CEE-TX-0089; SPECIFICATION: SANS 121 DATE 2000; EQUIPMENT USED ON OHTE; COMPLETE WITH NUTS	1. Bolt forming machine	
8	54003014	HOOK, SAFETY; TYPE: TOWER, MATERIAL: STEEL; DRAWING NO: CEE-TNB-0041, LA; EQUIPMENT USED ON OHTE	1. Forging machine 2. Tapping machine	
9	54001521	FITTING; TYPE: CLEVIS TWISTED H, COMMERCIAL SIZE: AS PER DRAWING, MATERIAL: SPHEROIDAL GRAPHITE IRON; DRAWING NO: CEE-TNB-0060, LA; EQUIPMENT USED ON OHTE.	1. Cutting 2. Drilling 3. Tapping facilities	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
		<b>Group Q</b>		
10	54001217	ARRESTER, ELECTRICAL; TYPE: SURGE, POTENTIAL PROTECTION LEVEL: 12 KVAC; SPECIFICATION: BBH 2339, LA; EQUIPMENT USED ON TRANSMISSION LINE 11 KV; COMPLETE WITH MOUNTING BRACKET POLYMER HOUSED	1. Fibre glass rod extrusion machine 2. Polymer injection moulding machine	
11	54031940	ARRESTER, ELECTRICAL; TYPE: SPARK GAP, POTENTIAL PROTECTION LEVEL: 450 V; DRAWING NO: BBB0906 LATEST; SPECIFICATION: BBB1616LATEST; MATERIAL NUMBER 54031940, COMPLETE ASSEMBLY WITH GAS FILLED ARRESTER. NOTE TO TENDERERS: MUST SUPPLY TEST CERTIFICATES FOR THE GAS ARRESTERS ON INSPECTION DATE	1. Press 2. CNC Machine	
12	54008798	ARRESTER, ELECTRICAL; TYPE: SURGE OHTE, POTENTIAL PROTECTION LEVEL: 3 KVDC, CAPACITANCE: 4 UF; SPECIFICATION NUMBER: CEE.0115.86.	1. Fibre glass rod extrusion machine 2. Polymer injection moulding machine	
13	54001189	ARRESTER, ELECTRICAL; TYPE: SURGE, POTENTIAL PROTECTION LEVEL: 4.8 KVDC; SPECIFICATION: CEE-0240, LA; METAL OXIDE TYPE. PEDESTAL MOUNTED: WITH ADAPTER PLATE TO QUOTED DRAWING.	1. Fibre glass rod extrusion machine 2. Polymer injection moulding machine	
14	54112409	ASSEMBLY; TYPE: LIGHTNING ARRESTER, APPLICATION: TUBULAR CANTILEVER; DRAWING NO: BBB 2141, LA; STORES DESCRIPTION, ARCING HORNS LIGHTNING ARRESTER FOR 3KV DC ELECTRIFICATION. THE DEPOTS MUST CONFIRM PRIOR IF THEY REQUIRE FOR A TUBULAR OR RAIL MAST CANTILVER. ITEM 7, 8 & 12 CAN BE EXCLUDED BY THE SUPPLIER.	1. Clay mixer and grinder 2. Machine to shape insulator 3. Temperature controle industrial oven 4. Glasing facilities.	
		<b>Group R</b>		
1	54005215	CLAMP; TYPE: SWIVEL CLAMP RETAINER, DIMENSIONS: AS PER DRAWING, MATERIAL: GRAPHITE IRON; DRAWING NO: -TND-025, 0; EQUIPMENT USED ON 5400000 5406100 5406102; CLIP; COMPLETE WITH M12 U-BOLT, NUTS AND WASHERS SUITABLE FOR 107 AND 161 MM SQ CONTACT WIRE SWIVEL CLIPS	1. Stamping machine 2. Furnace	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
2	54033129	CLAMP, ELECTRICAL CONDUCTOR, STRAIN; DRAWING NO: BBB1790, 2; SPECIFICATION T-T10A-10 EQUIPMENT USED ON OHTE PISTOL GRIP TYPE 5 MM DIA. TO 20.5 MM DIA. USERS INTEREST FOR USE ON ALUMINIUM WIRE;3 U BOLTS	1. Drilling machine 2. Cutting machine	
3	54034095	CLAMP; TYPE: DOUBLE SUSPENSION, DIMENSIONS: 800 MM2, MATERIAL: GALVANIZED STEEL; DRAWING NO: BBC 7533, 0; FEEDER AND DEER CATENARY	1. Drilling machine 2. Cutting machine	
4	54004764	CLAMP, ELECTRICAL CONDUCTOR, STRAIN; CATENARY WIRE FOR 80 - 160 SQ MM, MIN DIA: 8 MM MAX DIA: 18 MM. STRANDED COPPER AND ALUMINIUM CONDUCTORS; 3 U BOLTS	1. Drilling machine 2. Cutting machine	
5	54009933	CLAMP, ELECTRICAL CONDUCTOR, STRAIN; DRAWING NO: CEE-TZ-9/43, 0; EQUIPMENT USED ON OHTE HOOK CONNECTION. 42 MM TUBE DIAMETER	1. Drilling machine 2. Cutting machine	
6	54010496	ASSEMBLY; TYPE: CLAMP, APPLICATION: EARTH WIRE; DRAWING NO: CEE-TN-0371, LA; CLAMP USED ON 160MM2 ALUMINIUM CONDUCTOR	1. Drilling machine 2. Cutting machine	
7	54004917	CLAMP, CABLE, ELECTRICAL CONNECTOR; TYPE: DOUBLE SUSPENSION, CABLE SIZE: 80 TO 250 MM2; DRAWING NO: CEE-TNB-0074, LA; STORES DESCRIPTION: DOUBLE SUSPENSION CLAMP FROM BOTH 80 TO 250 MM2 AND 500 TO 800 MM2; FEEDER CONDUCTORS	1. Drilling machine 2. Cutting machine	
8	54021980	CLAMP, CABLE, ELECTRICAL CONNECTOR; TYPE: SINGLE SUSPENSION, CLAMP MATERIAL: SPHEROIDAL GRAPHITE IRON, CABLE SIZE: 500 TO 800 MM2; DRAWING NO: CEE-TNB-0091 SHEET 1-6, LA; ITEM USED FOR STRANDED ALUMINIUM FEEDER WIRE	1. Drilling machine 2. Cutting machine	
9	54033522	CLAMP, ELECTRICAL; CLAMP TYPE: PARALLEL, POTENTIAL RATING: 25 KV, CLAMP MATERIAL: ALUMINIUM GRADE 6063, FURNISHED ITEMS: INSERT COPPER; DRAWING NO: BBB4186, 3; BBB4185, 3; USED ON OHTE WITH "SKUNK" CATENARY; 100 MM2 ACSR TO 160 MM2 COPPER; WITH A PERMANENT FORGED COPPER INSERT	1. Stamping machine 2. Machine for serations 3. Forging Machine	

No	Transnet Item Numbers	Item Description	Factory/Machinery/ Manufacturing Required	Machinery available?
10	54009893	CLAMP, ELECTRICAL CONDUCTOR, STRAIN; DRAWING NO: CEE-TZ-9/39, 0; EQUIPMENT USED ON OHTE HOOK JOINT FOR 31 TO 34 MM DIAMETER TUBE	1. Drilling machine 2. Cutting machine	
11	54006299	CLAMP; TYPE: GUIDE, COUNTERWEIGHT, DIMENSIONS: AS PER DRAWING, MATERIAL: STEEL , SSE-208301, H500110-3- 133-E-DE-0099	1. Stamping machine 2. Machine for serations 3. Forging Machine	
12	54000199	CLAMP, ELECTRICAL; CLAMP TYPE: CLIP SWIVEL, POTENTIAL RATING: 50 KV, OVERALL LENGTH: 107 MM; CONTACT WIRE; OVERHEAD TRACK, SSE TN208200; SALDANHA	1. Stamping machine 2. Furnace	