

EXPRESSION OF INTEREST (EOI)

Vedanta Limited ("Vedanta Ltd.") is a diversified natural resources Company, whose business primarily involves exploring and processing minerals. Vedanta Ltd. is listed on the Bombay Stock Exchange & the National Stock Exchange in India and has ADRs/ADSS listed on the New York Stock Exchange. Vedanta Ltd., is the Indian subsidiary of Vedanta Resources Plc., a London Stock Exchange listed, globally diversified natural resources Company with interests in Zinc, Lead, Silver, Copper, Iron Ore, Aluminum, Power and Oil & Gas having a presence across India, South Africa, Namibia, Ireland, Australia, Liberia and Sri Lanka. With a business model of growth, constant value creation and improved operations, Vedanta Ltd.'s vision is focused towards building the wealth of our shareholders and sustainably engaging the community we operate in by adopting world-class standards of governance, safety, sustainability and social responsibility.

Vedanta Ltd. through its unit Sterlite Copper is one of the leading copper producers in India. Sterlite Copper has factories at Thoothukudi in Tamil Nadu and at Silvassa in the Union Territory of Dadra & Nagar Haveli. Vedanta Ltd. also has a 100% owned subsidiary called MALCO Energy Limited (MEL), which is a power plant located at Mettur, Salem in Tamil Nadu.

Sl.No.	Description
1	EPC Contractors for a) Drinking water Plant : 3000 LPH drinking water plant with the Reverse Osmosis process. The quality of the outlet water from the plant shall be conforming to IS: 10500 . The vendor should be able to design, engineering, civil, procurement, supply erection and commissioning of the plant. The vendor should operate the plant for atleast three months from the commissioning of the plant. b) New Power transformer and Panels including Civil. c) Ferric sulphate pilot plant. d) Design, Supply, Erection and Demonstration of Energy savings for Variable Frequency Drives (VFD's) for Blowers with a Flow rate of 158 KNm³/hr. e) All Insurance spares materials for Tuticorin and Silvassa Unit (Refer Excel sheet attached). f) Design Supply erection and operation of Effluent treatment plant for Phosphoric Acid Plant.
2.	Freight forwarder: Freight Forwarding from various countries like USA, UK, Europe and CHA for clearing import cargos at Chennai, Tuticorin & Mumbai (air& sea) ports.
3.	Service Provider for providing below said services; a) Facility Management services: Including our unit in Silvassa also, scope Covers House keeping, Proving bus, Car and Van on Hire basis Pest Control, Canteen Services, Guest house maintenance, Travel booking agent, Green Belt development and maintenance of Geen belt, courier and communication services. b) Barge Loading: Loading of Sulphuric Acid and phosphoric Acid into in intermediate storage tank and thereafter pumping and loading the acid from intermediate storage tank to designated vessel at Port. c) Rock Pebbles Crushing: Rock phosphate oversize particle grinding / crushing (100%) to the size less than 4mm and 75% minimum in the range of 2mm to 4mm . d) Civil Contractor for maintenance and project on Annual Rate Contract basis. e) Ladle repair on Annual Rate Contract basis. f) Motor Over hauling and rewinding. g) Fire fighting Service O&M. h) Bulk material survey. i) Security Service.
4.	Supplier for Supply of Industrial Bulk LPG - 4000 MT; MS Barrel, 210 liter - 3500 Nos & 100 liter - 4000 Nos; Edge strip - 100000 Nos; Anhydrous sodium carbonate Purity > 99% - 1080 MT; 5x Clear Ground Glue - 24 MT; ISO Propyl Alcohol, 99.9% purity - 100 MT; Lime Stone Powder Size 200 Mesh - 36500 MT; Crystal lime stone Size: 4 - 8 mm- 20000 MT; Hydrated lime 500 Mesh - 2500 MT; Quick lime 90% CaO - 24000 MT; Quartz chips 20-25mm - 40000 MT; Silica sand / Quartz fines size: 0.5 mm to 3mm - 120000 MT; Active silica/Diath silica - 7300 MT; Extra super snow white Baryte - 1200 MT; Petcoke - 18000 MT; Pig Iron - 5000 MT; Ferric Sulphate 40% - 17000 MT; Sodium Sulphide Liquid - 3650 MT; Hydro chloric acid commercial grade - 30 MT (40kg can), 150 MT (bulk in tanker); Caustic Soda Lye - 3650 MT; Caustic soda in lakes 50kg bag - 100 MT; Defoamer for phosphoric acid plant - 700 MT; Liquid SO 2 - 300 MT; Calcium Carbide 720 MT; Liquid Oxygen 12000 Mt; Pallets (as per our drawing) - 30000 Nos ;Furnace Oil: 10000 MT; Refractory Bricks - 1000 MT; Molasses for Thoothukudi Unit on annual contract basis.
5.	Transportation of various commodities bulk/packed from Various locations to Thoothukudi, Tamil Nadu.
6.	Design, Supply, Erect & Commissioning of Silica sand washing plant.
7.	Procure, store & supply of various commodities (ref above list of commodities- Sl no 5) Material testing /inspection services - India & global (for above list of items) Consultancy/advisory service for mineral sourcing.
8.	Logistic Service Provider for providing below said services including Silvassa & Tuticorin. a) Warehouse facility along with material handling facility across PAN India location & Reputed Logistics Service providers for transporting Outbound Logistics from Various Depots to PAN India Destinations including Part loads & Part load contract from Silvassa Plant to Pan India destinations. Own/Market Fleets should be equipped with latest High-end GPS and advanced technologies, with adherence to all related Free moving equipment compliance. b) Custom house agent, Freight forwarder, transportation for handling export & import containerized cargo through JNPT/ Hazira & VOC Tuticorin Port. c) Stevedorer and Customs house agent for handling import bulk materials (Copper Concentrate, Rock Phosphate & Coal) at VOC Tuticorin Port. d) Reputed Transportation Service Provider for movement of bulk materials from VOC port to plant for Copper Concentrate, Rock Phosphate & Coal. e) Warehouse requirement for rental near Tuticorin port for storage of Rock phosphate and Copper concentrate. f) Reputed Main Liners / NVOCC required to supply seaworthy containers for exporting cargo to Shanghai, Port Klang & Singapore through JNPT/Hazira & VOC Tuticorin Port, India. g) Reputed surveyor required for surveying Tankers/ Containers/ Trucks at Tuticorin.
9.	For Silvassa Unit Material Supplier for the below said items. a) Supplier for Bulk LPG, Approximate annual Qty is 12000 MT. b) ISO Propyl Alcohol, Approximate annual Qty is 844 MT. c) Caustic Soda Lye, Approximate annual Qty is 400 MT. d) DA, Approximate annual Qty is 56763 MT Service Provider for the below said itemse) Water Transportation from Silvassa to Chinchpada & Pipria units. f) Canteen service g) Bulk LPG transporters for supply of LPG from Surat/Mumbai location to Silvassa plant. h) Civil Jobs. i) Fabrication & erection of structural steel including supply of MS, SS grades Interested parties meeting the following criteria should respond to this EOI. Financials (PART A): Turnover shall be >Rs.5 Cr and/or equal to the annual contract value which ever is higher. Positive net worth in each of the immediately preceding two financial years. Liquidity ratio in each of 2 financial year shall not be less than 0.6 . Technical (PART B): Minimum 5 years experience in supplying these commodities/ providing services Participants are requested to submit the following pre-qualification documents as minimum. 1. Letter of interest clearly indicating their interest to participate for the services/supply mentioned above 2. Detail Company Information/Profile with Organization structure, List of Key manpower responsible for project execution. 3. Details of completion of similar type of services undertaken in the last five years under headings: a) Brief scope of work b) Value of work in INR/USD c) Contractual Duration d) Actual completion of Project, e) Clients name f) Contact details of the Client (Operator may approach the client directly for the feedback) g) HSE statistics, LTI graph etc., h) Details of inspection tools along with detailed tool data sheet. 4. Details of current commitments - List of all jobs under execution with the value of the job and percentage completion. 5. Service Completion Certificates, Client Feedback etc. of similar contracts executed in the last five years. 6. HSE policy and implementation procedures in line with internationally accepted practices with statistics for last five years. 7. Quality assurance & quality control practices currently in place for the execution of similar work. 8. Environment & Quality [HSEQ] performance, Copies of ISO 9001 , 14001 , OHSAS 18001 or any other certification as applicable. 9. Company's financial performance documents (Audited Balance sheets and Profit and Loss statements, Auditors Report and Notes to Accounts etc.) for last 2 (two) years. Latest financial statement should not be older than 18 months on the date of .

**EOI Reputed
Suppliers, Service
Providers, for
Thoothukudi &
Silvassa Units**

Visit
www.vedantalimited.com

VEDANTA LIMITED

REGISTERED OFFICE :

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Atul Projects, Chakala, Andheri (E), Mumbai,

(Maharashtra) - **400 093**.

CIN: **L13209MH1965PLC291394**

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List of Insurance Spares

Material	Short Text	Long Text	UOM
110001201	5M3 COPPER LADLE AS PER OUR DRAWING	Manufacture of 5M3 laddle as per drg:3641 000/1.Material cast steel: AS2074 Grade L5BChemical Composition:C: 0.10 - 0.15, Mn:0.5- 0.80, P:0.025 Max, S:0.025 Max,Si:0.35 - 0.50, Ni:0.80 Max, Cr:0.35 - 0.50, Mo:0.35- 0.50,Al:0.02 -0.04, Nb:0.03 - 0.05.Physical Properties:Tensile strength: 62000PSI Min., Yield Stregth: 33000PSI Min.Elongation: 25% Min, Reduction in Area: 50%Min.Impact Value:75 Ft lbs.Heat Treatment: Normalizing & Tempering	NO
110001203	ASSY,BAIL,LADDLE,DRG:M/01/051,REV-0	PART NAME: ASSEMBLY,BAIL,DRAWING NUMBER: M/01/051,REV-0 SH 1-1,FOR 5 CUB.M LADDLE,FOR LADDLE	NO
110001204	ASSY,BAIL,LADDLE,7 CUB.M	PART NAME: ASSEMBLY,BAIL,LADDLE,DRAWING NUMBER: SIIL/41/09PART SIZE: 7 CUB.M,CHEMICAL COMPOSITION: C : 0.10 TO 0.15,MN: 0.5 TO 0.80,P: 0.025 MAX,S: 0.025 MAX,Si: 0.35 TO0.50,NI: 0.80 MAX,CR: 0.35 TO 0.50,MO: 0.35 TO 0.50,AL: 0.02 TO 0.04,NB: 0.03 TO0.05,PHYSICAL PROPERTIES: TENSILE STRENGTH: 62000 PSI MIN,YIELD STREGTH: 33000 PSI MIN,ELONGATION: 25% MIN,REDUCTION IN AREA; 50 %MIN,IMPACT VALUE: 75 FT LBS,HEAT TREATMENT: NORMALIZING ANDTEMPERING	NO
110001224	MOTOR,ELEC,SR,KS225M,970 RPM,38 KW,415 V	MOTOR,ELECTRICAL,TYPE: SLIP RING INDUCTION,APPLICATION: EOT CRANE,MOUNTING TYPE: B3,INSULATION CLASS: CLASS B/F,FRAME SIZE: KS225M,NUMBER OF POLE: 6 P,SPEED RATING: 970 RPM,POWER RATING: 38 KW,CURRENT RATING: STATOR/ROTOR: 73/88 A,VOLTAGE RATING: 415/265 V,SHAFT: DOUBLE EXTN,START/HRS: 150,EXISTING MOTOR SERIAL NUMBER: 174323/2,DUTY: 40%,MAKE: AEI WORKS LTD	NO
110001227	ACTUATOR,ELEC,IP67,50 HZ,415 V,1.1 KW	ACTUATOR,ELECTRICAL,ENCLOSURE: IP67,SPEED RATING: 180 RPM,FREQUENCY RATING: 50 HZ,CURRENT RATING: 2.9 A,VOLTAGE RATING: 415 V,POWER RATING: 1.1 KW,TORQUE RATING: 30 TO 110 NM,INSULATION CLASS: F,SPEED RATING: 2800 RPM,TYPE: AM71-2180IS-325,M/MO I6AM04-95,MAKE: NGEP,MODEL NUMBER: SA12E180	NO
110001232	MOTOR,ELEC,GEAR,1450/33 RPM,15 KW,415 V	MOTOR,ELECTRICAL,TYPE: GEARED,FRAME SIZE: R113WDF160L-4,SPEED RATING: 1450/33 RPM,POWER RATING: 15 KW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 415 V	NO
110001237	BEARING,SLEEVE,DE,SCI MOTOR,100X200MM	PART NAME: BEARING,SLEEVE,DRIVE END,PART SIZE: 100 X 200 MM,FOR MOTOR	NO
110001238	BEARING,DE,MOTOR	PART NAME: BEARING,DRIVE END,POWER RATING: 1545 KW,VOLTAGE RATING: 6.6 KV,SPEED RATING: 2980 RPM,ILA7 716-2,SERIAL NUMBER: 45095A 401 DRIVE END BEARING,125,FOR BLOWER MOTOR,MAKE: INGERSOLL RAND	NO
110001248	BEARING,RENK DE SLIDE,REF:EMZLB 11-100	PART NAME: BEARING,RENK DE SLIDE,REFERENCE NUMBER: EMZLB 11-100,FOR ISA BLOWER MOTOR	NO
110001249	BEARING,NDE,MOTOR	PART NAME: BEARING,NON-DRIVE END,FOR MOTOR,MAKE: RENK,FOR ISA BLOWER	NO
110001331	TUBE,VACUUM,VCB,3AF,REF:VS 10007 W	PART NAME: TUBE,VACUUM,REFERENCE NUMBER: VS 10007 W,VOLTAGE RATING: 6.6 KV,CURRENT RATING: 3150 A,FOR VACUUM CIRCUIT BREAKER,MAKE: GERMAN,MODEL NUMBER: 3AF,VOLTAGE RATING: 7.2 KV,MADEIN GERMAN	NO
110001332	TUBE,VACUUM,VCB,3AF,REF:VS 10007	PART NAME: TUBE,VACUUM,REFERENCE NUMBER: VS 10007,VOLTAGE RATING: 6.6 KV,CURRENT RATING: 2500 A,FOR VACUUM CIRCUIT BREAKER,MAKE: GERMAN,MODEL NUMBER: 3AF,VOLTAGE RATING: 7.2 KV,MADE IN GERMAN	NO
110001398	PROJECTION,REF:SGA8100006	PART NAME: PROJECTION,REFERENCE NUMBER: SGA8100006	NO
110001885	RESISTOR,FIXED,PWR,0.463 OHM,540A,250V	RESISTOR,FIXED,TYPE: POWER,APPLICATION: NEUTRAL GROUNDING,RESISTANCE VALUE: 0.463 OHM,TEMPERATURE RATING: 375 DEG.C,CURRENT RATING: 540 A,VOLTAGE RATING: 250 V,TIME RATING: 60 SEC	NO
110001999	FUSE LINK,LV,SEMICON,80 A,690VAC,000	FUSE LINK,LOW VOLTAGE,DESIGN STANDARD: IEC 60269-2-1,TYPE: SEMICONDUCTOR,SITOR,CURRENT RATING: 80 A,VOLTAGE RATING: 690 VAC,SIZE: 000,MAKE: SIEMENS,MODEL NUMBER: 3NE 1820-09	NO

110002059	CONTACT, FIXED & MOVING, CAT: 9C9P105	PART NAME: CONTACT, FIXED & MOVING, CATALOGUE NUMBER: 9C9P105, FOR DC CONTACTOR, MAKE: BHARTIA CUTLER HAMMER, CURRENT RATING: 150 A	SET
110002070	CONTACTOR, ELCMNTC, 1NO/1NC, 230 V, 600 A	CONTACTOR, ELECTROMAGNETIC, CONTACT CONFIGURATION: 1 NO/1 NC, COIL VOLTAGE RATING: 230 VDC, CURRENT RATING: 600 A, DC SWITCHING, FRONT CONNECTION, SPNC, MAKE: BHARTIA CUTLER HAMMER, MODEL NUMBER: M926X11B1	NO
110002460	BEARING, ROLLER, 22240 CC, 200MM, 360MM, 98MM	BEARING, ROLLER, TYPE: SPHERICAL, SERIES: 22200 CC, NUMBER OF ROWS: DOUBLE, DESIGNATION: 22240 CC, INSIDE DIAMETER: 200 MM, OUTSIDE DIAMETER: 360 MM, WIDTH/HEIGHT: 98 MM, MAKE: SKF, REFERENCE NUMBER: 22240 CC	NO
110002780	PUMP, MAIN OIL, TA-48, PN: 13.07.01	PART NAME: PUMP, MAIN OIL, PART NUMBER: 13.07.01, FOR AIR COMPRESSOR, MAKE: JOY-COOPER, USA, MODEL NUMBER: TA-48	NO
110002790	AIR SEAL, IIISTG, COMP, PN: AAA3408534-00042	PART NAME: AIR SEAL, III STAGE, PART NUMBER: AAA3408534-00042, OLD REFERENCE NUMBER: 13.16.23, FOR COMPRESSOR, MAKE: JOY-COOPER, USA	NO
110002973	GEARBOX, LONG/CROSS TRAVEL, CRANE, VR 250	PART NAME: GEARBOX, LONG/CROSS TRAVEL, FOR EOT CRANE, MAKE: ELMECH, MODEL NUMBER: VR 250, LOAD CAPACITY: 7 TON, RATIO: 52.9:1, CRANE NUMBER: 02-29001-01	NO
110002974	GEARBOX, MICRO, MAIN HOIST, CRANE, PL-200	PART NAME: GEARBOX, MICRO, MAIN HOIST, FOR EOT CRANE, MAKE: ELMECH, MODEL NUMBER: PL-200 (PLANETARY), LOAD CAPACITY: 7 TON, RATIO: 10:1, CRANE NUMBER: 02-29001-01	NO
110002975	GEARBOX, MAIN HOIST, CRANE, HR 650/150	PART NAME: GEARBOX, MAIN HOIST, FOR EOT CRANE, MAKE: ELMECH, MODEL NUMBER: HR 650/150, LOAD CAPACITY: 7 TON, RATIO: 77.42:1, MATERIAL: PINION C50 GEAR C45	NO
110003011	DRUM, BRAKE, GEARBOX SIDE, HOIST, DIA: 575MM	PART NAME: DRUM, BRAKE, GEARBOX SIDE, PART SIZE: DIA: 575 MM, FOR MAIN HOIST	NO
110003016	ASSY, WHEEL, CT CRANE, 250 F	PART NAME: ASSEMBLY, WHEEL, FOR CROSS TRAVEL 250 F CRANE	NO
110003308	BRAKE, PNEU, DRIVE, SSM1111/45	PART NAME: BRAKE, PNEUMATIC, DRAWING NUMBER: 70111-330, PART SIZE: PILOT BORE: 25 X 65 MM, MODEL NUMBER: SSM1111/45, REFERENCE NUMBER: 70111-330, BRAKE INERTIA: 0.6 KG/SQ.M, AVAILABLE AIR PRESSURE: 7 BAR, COMPLETE WITH ELBOWS AND HOSES AIR SET MODE: 222-11-ET, BORE DIAMETER: 60 N6/H7, KEYWAY WIDTH: 18 MM, DEPTH: 4 MM, FOR RHF MAIN DRIVE, FOR ON EXTENSION OF INPUT SHAFT OF MAIN GEAR BOX	NO
110003310	MOTOR, PNEU AIR, PNEU DRIVE	PART NAME: MOTOR, PNEUMATIC AIR, FOR CLOCKWISE AND ANTI-CLOCKWISE ROTATION REVERSIBLE BY PILOT CONTROLLED, REMOTE CONTROL ASSEMBLY DIMENSIONS ACCORDING TO THE ENCLOSED DATA SHEET BUT WITHOUT PILOT VALVE AND WITHOUT LINE, DESIGN: FLANGE MOUNTED, SIMILAR TO THAT WHICH YOU SUPPLIED EARLIER, FOR PNEUMATIC DRIVE	NO
110003348	ASSY, CROSSHEAD, 7065, REF: 6964-1	PART NAME: ASSEMBLY, CROSSHEAD, REFERENCE NUMBER: 6964-1, WITH 6 TUYERE SPACING, TWO 6964 CP COVER PLATES AND TWO 6964 CPG COVER PLATE GASKET, FOR PUNCHING MACHINE-1, MODEL NUMBER: 7065	SET
110003626	GEARBOX, HELICAL, CI, 31.4:1, B3-250, GREAVES	GEARBOX, TYPE: HELICAL, CASING MATERIAL: CAST IRON, SPEED RATIO: 31.4:1, EARLIER ORDER NUMBER: 322972, SERIAL NUMBER: HG 3557, MAKE: GREAVES, MODEL NUMBER: B3-250	NO
110003650	PINION, SPUR, EN-353, BCHV-200 (SPL)	PART NAME: PINION, SPUR, PART MATERIAL: CASE HARDENING STEEL EN-353, CASE HARDENED TO 58-62 HRC AND PROFILE GROUND, FOR CAST WHEEL GEAR BOX, MODEL NUMBER: BCHV-200 (SPL), SIZE: 15T X 20 MODULE X 165 FACE WIDTH	NO
110003651	BASE FRAME, FABRICATED STL, BCH-200(SPL)	PART NAME: BASE FRAME, PART MATERIAL: FABRICATED STEEL, DRAWING NUMBER: HF-SIIL-MECH-A3-017A/REV-0, FOR MOTOR, FOR GEAR BOX, MODEL NUMBER: BCH-200(SPL)	NO
110003654	GEAR, 2ND REDUCTION, 76T8 MODULE, AF	PART NAME: GEAR, 2ND REDUCTION, 76T8 MODULE, FOR ANODE FURNACE	NO
110003711	GEARBOX, WORM, 30:1, V-HDS 1000, GREAVES	GEARBOX, TYPE: WORM, SPEED RATIO: 30:1, SERIAL NUMBER: 2B26199, MAKE: GREAVES, MODEL NUMBER: V-HDS 1000	NO
110003770	CYLINDER, INDEX, ATM	PART NAME: CYLINDER, INDEX, V276003 IMP TG-10-DRGD-4AAL-5281 (2.5 X 48), FOR ANODE TAKE-OFF MACHINE	NO
110004640	IMPELLER HAST C2000 MODEL: 3K 8X6-16	IMPELLER FOR CENTRIFUGAL PUMP MOC: HAST C 2000 PUMP MODEL: 3K 8 X 6 - 16 MAKE: MICROFINISH PUMPS	NO
110005029	CHAIN, DIA: 25MM, 15M	CHAIN, SIZE: DIA: 25 MM, LENGTH: 15 M, CAPACITY: 20 TON, MAKE: TRACTEL	NO
110005710	COMPRESSOR, PN: 158200	PART NAME: COMPRESSOR, PART NUMBER: 158200, TYPE: 2N.2	NO
110005728	INTERNAL LINE SET, 92824, PN: 158603	PART NAME: INTERNAL LINE SET, 92824, PART NUMBER: 158603	NO

110006210	FUSE LINK,LV,SEMICON,450/315 A,660 V	FUSE LINK,LOW VOLTAGE,TYPE: SEMICONDUCTOR,CURRENT RATING: 450/315 A,VOLTAGE RATING: 660 V,MAKE: GENERAL ELECTRIC,REFERENCE NUMBER: VDE 0636/23,MAKE: SIEMENS,MODEL NUMBER: 3NE1 231	NO
110006347	MOTOR,ELEC,GEAR,1400/280RPM,1.5KW,415VAC	MOTOR,ELECTRICAL,TYPE: GEARED,SQUIRREL CAGE INDUCTION,MOUNTING TYPE: B5-FLANGE,FRAME SIZE: CKH SOL,NUMBER OF POLE: 4P,SPEED RATING: 1400/280 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 1.5 KW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 415 VAC,GEAR BOX DETAILS: FRAME: MGH 100-90-Y,OUTPUT TORQUE: 5.3 KGM	NO
110006447	BRUSH HOLDER,COMP.MOTOR,AIR CONDITIONER	PART NAME: BRUSH HOLDER,COMP.MOTOR,FOR AIR CONDITIONER,MAKE: LINTON,FOR EOT CRANE	NO
110006490	ELEMENT,DEMISTER,COMPANDER,REF:APCI-0860	PART NAME: ELEMENT,DEMISTER,REFERENCE NUMBER: APCI-0860,REFERENCE NUMBER: K261,FOR COMPANDER	NO
110006514	ASSY,THRUST BRG,TA160,PN:P5403503-00000	PART NAME: ASSEMBLY,THRUST BEARING,PART NUMBER: P5403503-00000,8.0 CW,FOR MAIN AIR COMPRESSOR A/B/C BULL GEAR,FOR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11115,X11116,X11117	NO
110006521	AIR SEAL,III STG,TA160,PN:APCI-661	PART NAME: AIR SEAL,III STAGE,PART NUMBER: APCI-661,FOR MAIN AIR COMPRESSOR-A,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160	NO
110006522	ASSY,BRG,PIVOTSHOE,PN:P3791500-00247	PART NAME: ASSEMBLY,BEARING,PIVOT SHOE,PART NUMBER: P3791500-00247,ADJACENT FOR LOW SPEED PINION,FOR MAIN AIR COMPRESSOR-A/B/C,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER:X11115,X11116,X11117	NO
110006534	ASSY,BRG,PIVOTSHOE,PN:P3791500-00126	PART NAME: ASSEMBLY,BEARING,PIVOT SHOE,PART NUMBER: P3791500-00126,ADJACENT FOR HIGH SPEED PINION,FOR MAIN AIR COMPRESSOR-A,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11115	NO
110007081	VIBRATION XY AND GAP MONITOR,RECORDER	PART NAME: VIBRATION XY AND GAP MONITOR,SERIES: 3300,TYPE: DUAL,FOR RECORDER	NO
110007082	MONITOR,DUAL THRUST POSN,PN:3300	PART NAME: MONITOR,DUAL THRUST POSITION,PART NUMBER: 3300/20-12-01-01-00-00	NO
110007105	CYLINDER,PNEU,7065,PN:7845-00-50	PART NAME: CYLINDER,PNEUMATIC,PART NUMBER: 7845-00-50,WORKING PRESSURE: 5 BAR,STROKE LENGTH: 50 INCH,BORE DIA: 6 INCH,FOR PUNCHING MACHINE,MAKE: HEATH & SHERWOOD,MODEL NUMBER: 7065	NO
110007167	DC POWER SUPPLY UNIT,3300/14-01-20-00	PART NAME: DC POWER SUPPLY UNIT,FOR VIBRATION MONITOR SYSTEM,MODEL NUMBER: 3300/14-01-20-00	NO
110007168	SYSTEM MONITOR,MONITOR,3300/03-01-00	PART NAME: SYSTEM MONITOR,MODEL NUMBER: 3300/03-01-00,FOR VIBRATION MONITORING SYSTEM	NO
110007169	MONITOR,DUAL VIBRATION,3300/16-12-01-01	PART NAME: MONITOR,DUAL VIBRATION,MODEL NUMBER: 3300/16-12-01-01-00-00-00,FOR VIBRATION MONITORING SYSTEM	NO
110007170	MONITOR,DUAL THRUST POSN,PN:81545-01	PART NAME: MONITOR,DUAL THRUST POSITION,PART NUMBER: 81545-01,MODEL NUMBER: 3300/20-01-04-01-00-00,ALONG WITH 3300/XX,SIGNAL RELAY MODULE,FULL SCALE RANGE: 25 TO 0 TO 25 MILS,TRANSDUCER INPUT: 3300 PROXIMITOR,ALARM RELAY: EPOXY SEALED,ENG MODS APPROVED: APPROVED,MMS MODS APPROVED: APPROVED,ETMD FUNCTION INPUT: MODIFICATIONS-330020,ETMD FUNCTION RETURN: NO-MISMATCH,TEST OPTION DATA: STANDARD FORMAT DATA,3300/XX SIGNAL/EPOXY RELAY MODULE,ENG MODS APPROVED: APPROVED,FOR IR CONVERTER BLOWER	NO
110007208	ACTUATOR,BURNER	PART NAME: ACTUATOR,FOR APV FOR OXY TRAIN,FOR OXYFUEL BURNER	NO
110007210	SENSOR,MASSFLOW,BURNER,PN:DS040S113SU	PART NAME: SENSOR,MASSFLOW,PART NUMBER: DS040S113SU,20 MM EMR,FOR OXY TRAIN,FOR OXYFUEL BURNER	NO
110007219	ACTUATOR,VALVE,BJAE12/25U	PART NAME: ACTUATOR,FOR ANTISURGE VALVE,MODEL NUMBER: BJAE12/25U	NO
110007617	SSUPPORT ROLLER - A/F (PLAIN) AS PER DRG	SUPPORT ROLLER FOR ANODE FURNACE,PLAIN TYPE AS PER DRAWING. NO:4389-02-002,REV1MOC CAST STEEL IS 2644-1994 FOR ROLLER,EN-9 FOR SHAFT.	NO
110007675	BEARING,INNER,TA-48,PN:13.16.34	PART NAME: BEARING,INNER,PART NUMBER: 13.16.34,PART NUMBER: 2855262950,FOR AIR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-48	NO
110007728	BEARING,OIL PUMP,TA-48,PN:13.11.01	PART NAME: BEARING,OIL PUMP,PART NUMBER: 13.11.01,PART NUMBER: 2855276650,FOR AIR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-48	NO

110016137	REGULATOR,GAS,LPG,FLGD,1 TO 4BAR,50NB	REGULATOR,GAS,TYPE: LPG,MATERIAL: ALUMINIUM SILICON ALLOY,CONNECTION: FLANGED,PRESSURE RATING: 1 TO 4 BAR,OUTLET SIZE: 50 NB,TYPE: PRESSURE REDUCING,INLET PRESSURE : 1 TO 4 BAR,OUTLETPRESSURE : 70 TO 90 MBAR,SPRING COLOUR CODE : BLACK,DIMENSION STANDARD: ASME B16.5,TEMPERATURE: 150 DEG.C,MAKE: AVCON,CATALOGUE NUMBER: RG50A40	NO
110019452	PIN,CABLE,EXTN,PLC,REF:330930-040-00-00	PART NAME: PIN,CABLE,EXTENSION,REFERENCE NUMBER: 330930-040-00-00,FOR PROGRAMMABLE LOGIC CONTROLLER,MAKE: BENTLY NEVADA	NO
110019462	COUPLING,DRIVE,AUTOFLEX,GIB,MM:CD 500	COUPLING,DRIVE,TYPE: AUTOFLEX,GIB,MODEL NUMBER: CD 500	NO
110019567	FLOW METER,MAGNETIC,AXF080G-NNAP1H-BA11	FLOW METER,TYPE: MAGNETIC,SMART,MAKE: YOKOGAWA,MODEL NUMBER: AXF080G-NNAP1H-BA11-2NBA	NO
110020112	MOTOR,ELEC,SCI,NB180M,18.5KW,415VAC	MOTOR,ELECTRICAL,TYPE: SQUIRREL CAGE INDUCTION,ENCLOSURE: IP55,MOUNTING TYPE: B3-FOOT,INSULATION CLASS: CLASS F,FRAME SIZE: NB180M,NUMBER OF POLE: 4P,SPEED RATING: 1440 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 18.5 KW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 415 VAC,COOLING: TOTALLY ENCLOSED FAN COOLED	NO
110020177	FRAME,UPPER SIDE,APM,PN:STIT-009	PART NAME: FRAME,UPPER SIDE,PART NUMBER: STIT-009,WITH THORDON BUSHING,FOR ANODE PREPARATION TAKE OFF MACHINE,MAKE: IAS	NO
110021328	SMATTE LADDLE 7 CUM AS PER DRG	Manufacture of 7 M3 laddle as per drg:3639 000/1.Chemical Composition:C : 0.10 - 0.15 , Mn:0.5- 0.80,P:0.025 Max,S:0.025 Max,Si:0.35 - 0.50,Ni:0.80 Max,Cr:0.35 - 0.50,Mo:0.35 - 0.50,Al:0.02 -0.04,Nb:0.03 - 0.05.Physical Properties:Tensile strength - 62000PSI Min.Yield Stregth - 33000PSI Min.Elongation - 25% MinReduction in Area - 50%Min.Impact Value - 75 Ft lbs.Heat Treatment:Normalizing & Tempering	NO
110022090	HEATER,ELEC,900KW,415V	HEATER,ELECTRICAL,POWER RATING: 900 KW,VOLTAGE RATING: 415 V	NO
110026046	CLAMP,CABLE,MOTOR	PART NAME: CLAMP,CABLE,FOR CROSS TRAVEL WINDING IN KKK MOTOR,MAKE: BHEL,POWER RATING: 3000 KW,FOR WINDING LEADS	NO
110026898	SHEATH(SE),MAIN CATHODE,TEFLON,PN:104	PART NAME: SHEATH(SE),MAIN CATHODE,PART MATERIAL: TEFLON,PART NUMBER: 104,ACID COOL,SERIAL NUMBER: 72-824A/B	NO
110026901	RDU,ANATROL,PANEL,PN:79326	PART NAME: RDU,ANATROL,PART NUMBER: 79326,FOR FRONT PANEL ASSEMBLY,MEMBRANE PANEL AND INTERFACE BRACKET	NO
110037726	SWITCH,PR,2-32 BAR	SWITCH,PRESSURE,INCREASING ADJUSTABLE RANGE: 2 TO 32 BAR,MAKE: VARMA TRAFAG,REFERENCE NUMBER: PF-032-W-BB-1X00-02B-10B-IB-N	NO
110037783	SWITCH,STROMA,GB 0013	SWITCH,TYPE: STROMA,REFERENCE NUMBER: GB 0013	NO
110042545	TRANSFORMER,CRNT,CL B,1C,350/1A	TRANSFORMER,CURRENT,TYPE: INDOOR EPOXY RESIN CAST,INSULATION: CLASS-B,NUMBER OF CORES: 1C,CURRENT RATING: 350/1 A,IS 2705/1992,INSULATION LEVEL: 7.2/20/60 KVP,CLASS: PS,VK GREATER THAN OR EQUAL TO 360 VOLTS,RCT(75 DEG.C) LESSER THAN OR EQUAL TO 9.5 OHM,AT VK/2 LESSTHAN OR EQUAL TO 30 MA,STC: 26.2 KA/1 SEC,FREQUENCY RATING: 50 HZ,DRAWING NUMBER: PR-403(A),TYPE: 11C/D	NO
110043014	BRAKE UNIT FOR LANCE CALIPER TYPE 660/15	BRAKE UNIT FOR LANCE CALIPER TYPE 660/15SIME CALIPER TYPE 660/15(50VDC)AS PER LEAFLET NO:T03150-01-C.FEATURES:FAIL SAFE BRAKING,SPRING APPLICATION,ELECTROMAGNETIC RELEASE,MANUAL LINING WEAR COMPENSATION,BRAKE PADS WITH WEAR INDICATORMAKE:SIME-STROMAG, FRANCEWEIGHT:16KG,AMBIANT TEMPERATURE -10°C TO +60°CAPPLICATION:ISA FURNACE LANCE OPERATION	SET
110043231	ASSY,SEAL,I STG,PN:A3791152-04212	PART NAME: ASSEMBLY,SEAL,I STAGE,PART NUMBER: A3791152-04212,FOR BOOSTER COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TAE55M2 R1RCD/30,SERIAL NUMBER: X11264	NO
110043236	ASSY,BRG,PIVOTSHOE,PN:P3791500-02245	PART NAME: BEARING ASSEMBLY,PIVOT SHOE,PART NUMBER: P3791500-02245,TYPE: ADJUSTABLE,FOR BOOSTER COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TAE55M2 R1RCD/30,SERIAL NUMBER: X11264	NO
110043238	ASSY,BRG,THRUST,3CCW,PN:P5403179-00000	PART NAME: ASSEMBLY,BEARING,THRUST,3 CCW,PART NUMBER: P5403179-00000,FOR BOOSTER COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TAE55M2 R1RCD/30,SERIAL NUMBER: X11264	NO
110043239	ASSY,OIL SEAL,ISTG,PN:A3403156-00082	PART NAME: ASSEMBLY,OIL SEAL,I STAGE,PART NUMBER: A3403156-00082,FOR BOOSTER COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TAE55M2 R1RCD/30,SERIAL NUMBER: X11264	NO

110043240	ASSY,OILSEAL,IISTG,PN:A3403156-00082	PART NAME: ASSEMBLY,OIL SEAL,II STAGE,PART NUMBER: A3403156-00082, FOR BOOSTER COMPRESSOR, MAKE: JOY-COOPER, USA, MODEL NUMBER: TAE55M2 R1RCD/30, SERIAL NUMBER: X11264	NO
110043242	ASSY,SEAL,II STG,PN:A3791152-04211	PART NAME: ASSEMBLY,SEAL,II STAGE,PART NUMBER: A3791152-04211, FOR BOOSTER COMPRESSOR, MAKE: JOY-COOPER, USA, MODEL NUMBER: TAE55M2 R1RCD/30, SERIAL NUMBER: X11264	NO
110043247	BEARING SLEEVE/THRUST SPLIT,PN:13.16.38	PART NAME: BEARING SLEEVE/THRUST SPLIT,PART NUMBER: 13.16.38,PART NUMBER: 2855263150, FOR AIR COMPRESSOR, MAKE: JOY-COOPER, USA, MODEL NUMBER: TA-48, SERIAL NUMBER: X10181 AND X10182	NO
110047968	BEARING,ROLLER,22226E,130MM,64MM,SKF	BEARING,ROLLER,TYPE: MAIN,DESIGNATION: 22226E,INSIDE DIAMETER: 130MM,OUTSIDE DIAMETER: 230MM,WIDTH/HEIGHT: 64 MM, FOR JAW CRUSHER, SIZE: 16X 10 INCH, SERIAL NUMBER: 240, MAKE: SKF, PARTNUMBER: 22226E DUPLICATE CODE: 110001826 AND 110002454	NO
110049296	GEARBOX,2.5429,3801/1495 RPM,HSGP 315	GEARBOX,GEAR RATIO: 2.5429,SPEED RATING: 3801/1495 RPM, FOR COMPRESSOR, MAKE: KKK, SPEED RATIO: 3801/1495 RPM, NUMBER OF TEETH: 35 AND 89, RATIO: 2.5429, PLACE OF USE: SAP 1 SFO 14, MAKE: DAVID BROWN, MODEL NUMBER: HSGP 315	NO
110049297	COUPLING,CURVED TOOTH,REF:19005440035	PART NAME: COUPLING,CURVED TOOTH,REFERENCE NUMBER: 19005440035, FOR SO2 BLOWER, MAKE: KKK, MODEL NUMBER: SFO14, FOR SAP 1	NO
110049473	ASSY,INTERMEDIATE PINION SHAFT,PN:11	PART NAME: ASSY,INTERMEDIATE PINION SHAFT,DRAWING NUMBER: CR-25A,PART NUMBER: 11, FOR CONVERTER	NO
110049588	PUMP,OIL,AUX,TA55,PN:P1401428-00114	PART NAME: PUMP,OIL,AUXILIARY,PART NUMBER: P1401428-00114, FOR COMPRESSOR, MODEL NUMBER: TA-55	NO
110050471	KIT,TURN AROUND,PN:PN:AAMB409950-13848	PART NAME: KIT,TURN AROUND INSPECTION INCLUDES ,PN:AAMB409950-00300KIT.SERVICE.SPLIT-LINE 1 NO, AAMB409950-03803 KIT.SERVICE.INLETS 1 NO, FOR AIR COMPRESSOR, MAKE: JOY-COOPER, USA, MODEL NUMBER: TA-48, SERIALNUMBER: X10181 AND X10182	NO
110050476	SEAL,OIL,I STG,TA-48,PN:13.16.24	PART NAME: SEAL,OIL,I STAGE,PART NUMBER: 13.16.24,PART NUMBER: 2855264750, FOR AIR COMPRESSOR, MAKE: JOY-COOPER, USA, MODEL NUMBER: TA-48, SERIAL NUMBER: X10181 AND X10182	NO
110050477	SEAL,OIL,IISTG,PN:PN:AAA3408535-01046	PART NAME: SEAL,OIL,II STAGE,PART NUMBER: AAA3408535-01046, OLD: 2855264850, REF NO: 13.16.25 FOR AIR COMPRESSOR, MAKE: JOY-COOPER, USA, MODELNUMBER: TA-48, SERIAL NUMBER: X10181 AND X10182	NO
110050478	SEAL,OIL,III STG,TA-48,PN:13.16.26	PART NAME: SEAL,OIL,III STAGE,PART NUMBER: 13.16.26,PART NUMBER: 2855262850, FOR AIR COMPRESSOR, MAKE: JOY-COOPER, USA, MODEL NUMBER: TA-48, SERIAL NUMBER: X10181 AND X10182	NO
110050923	COPPER BLOCK -KIDNEY SIDE A&B AS PER DRG	STATIC CAST ELECTORLYTIC TOUGH PITCH COPPER TO UNS C11000 OR EQUIVALENT, DIMENSION AS PER THE DRAWING: COOLING MEDIUM: AIR, MAKE: FLACON DWG, NO: FFM0843-C REV-1, MAKE: FLACON DWG, NO: FFM0845-C REV-1	NO
110055195	GEAR,DRIVE O/P, CONVERTER,PN:5	PART NAME: GEAR,DRIVE OUTPUT,DRAWING NUMBER: CR-25A,PART NUMBER: 5, FOR CONVERTER	NO
110056636	ASSY,GEARBOX,HOIST,3581300,17.5 TON	PART NAME: ASSEMBLY,GEARBOX,HOIST,DRAWING NUMBER: 3581300, FOR GRABBING CRANE,CAPACITY: 17.5TON	NO
110064675	PAD,TILTING,XFLO-55H,PN:SKQ 36B03A	PART NAME: PAD,TILTING,OLD PART NUMBER: SKQ 36B03A,NEW PARTNUMBER:85645257, FOR CONVERTER BLOWER, MAKE: INGERSOLL RAND, MODEL NUMBER: X-FLO 55H, EQUIPMENT NUMBER: 05/03012/01, MACHINE SERIAL NUMBER: N95-10591 SET= 6 NUMBERS OF TILTING PADS	SET
110064677	SEAL,AIR,LABYRINTH,PN:SKQ 32B01A	PART NAME: SEAL,AIR,LABYRINTH,PART NUMBER: SKQ 32B01A, FOR BLOWER, MAKE: INGERSOLL RAND, MODELNUMBER: XFLO-55H, EQUIPMENT NUMBER: 05/03012/01, MACHINE SERIAL NUMBER: N95-1059	NO
110064678	SEAL,OIL,LABYRINTH,PN:SKQ 71D01A	PART NAME: SEAL,OIL,LABYRINTH,PART NUMBER: SKQ 71D01A, FOR BLOWER, MAKE: INGERSOLL RAND, MODELNUMBER: XFLO-55H, EQUIPMENT NUMBER: 05/03012/01, MACHINE SERIAL NUMBER: N95-1059	NO
110064679	SEAL,OIL,LABYRINTH,PN:SKQ 71E010	PART NAME: SEAL,OIL,LABYRINTH,PART NUMBER: SKQ 71E010, FOR CONVERTER BLOWER, MAKE: INGERSOLL RAND, MODEL NUMBER: XFLO-55H, EQUIPMENT NUMBER: 05/03012/01, MACHINE SERIAL NUMBER: N95-1059	NO

110064816	SWIVEL JOINT 180 DEG 6" , BARCO	BARCO MAKE SWIVEL JOINTS,MODEL:BD-53430-66-01,PIPE SIZE:6",JOINTSIZE:6",FLANGE- ANSI 150 LBS,TEMP: 40 - 101 DEG. C,90 DEG + 90DEG.CONSTRUCTION : ALL STEEL, MAX.COLD WORKING PR: 20 KG/CM2	NO
110064842	BURNER,OXYGEN-FUEL	PART NAME:BURNER,OXYGEN-FUEL,PRIME FIRE OXYGEN AND OIL,COMBUSTION TE,100BURNER,OXYGEN/OIL 4.0 TO 12.00 MMBTU/HR,BURNER SHOULD CONSIST PRIMEFIRE100 BURNER WITHQUICK DISCONNECT KIT,AND NECESSARY MOUNTING ANDALIGNMENTHARD WARE,ATOMIZING TIP 0.250 INCH,OIL TIP 0.136 INCH,THEPRIMEFIRE 100 BURNER SHOULD BE AN ADVANCED,NON WATER-COOLED DESIGN THATIS COMPACT,FOR EASE OF INSTALLATION AND HANDLING	NO
110069375	ASSY,ROLLER,RHF SUPPORT	PART NAME: ASSEMBLY,ROLLER,RHF SUPPORT,CONSISTING OF ROLLER,SHAFT AND BUSH,WITHOUT FLANGE	NO
110071722	SEAL,AIR,II STG,TA160,PN:A3791150-01003	PART NAME: SEAL,AIR,II STAGE,PART NUMBER: A3791150-01003,FOR MAIN AIR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11115,X11116	NO
110071725	SEAL,AIR,I STG,TA160,PN:A3791150-01020	PART NAME: SEAL,AIR,I STAGE,PART NUMBER: A3791150-01020,FOR MAIN AIR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11115,X11116	NO
110071736	SEAL,AIR,III STG,TA160,PN:A3791150-01003	PART NAME: SEAL,AIR,III STAGE,PART NUMBER: A3791150-01003,FOR MAIN AIR COMPRESSOR B/C,MAKE:JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11116,X11117	NO
110071737	SEAL,OIL,I STG,TA160,PN:A3403776-00002	PART NAME: SEAL,OIL,I STAGE,PART NUMBER: A3403776-00002,FOR MAIN AIR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11115,X11116,X11117	NO
110071738	SEAL,OIL,II STG,TA160,PN:P3403776-00002	PART NAME: SEAL,OIL,II STAGE,PART NUMBER: P3403776-00002,FOR MAIN AIR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160	NO
110071739	SEAL,OIL,III STG,TA160,PN:P3403776-00001	PART NAME: SEAL,OIL,III STAGE,PART NUMBER: P3403776-00001,FOR MAIN AIR COMPRESSOR A,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11115	NO
110071740	SEAL,OIL,III STG,TA160,PN:A3403776-00017	PART NAME: SEAL,OIL,III STAGE,PART NUMBER: A3403776-00017,FOR MAIN AIR COMPRESSOR B/C,MAKE:JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11116,X11117	NO
110071769	SEAL,OIL,BULL GEAR,PN:P5403510-00001	PART NAME: SEAL,OIL,BULL GEAR,PART NUMBER: P5403510-00001,FOR MAIN AIR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160	NO
110071777	COUPLING,HARDWARE/DISC,PN:P3409757-05000	PART NAME: COUPLING,HARDWARE/DISC,PART NUMBER: P3409757-05000,FOR MAIN AIR COMPRESSOR,MAKE:JOY-COOPER,USA,MODEL NUMBER: TA-160	NO
110071876	DISC,HARDWARE,TA55,PN:P3409753-05000	PART NAME: DISC,HARDWARE,PART NUMBER: P3409753-05000,MAIN DRIVE COUPLING, FOR BOOSTER AIR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA55	NO
110072117	MOTOR,ELEC,SHUNT,174SP,1150PRM,3.7KW,40A	MOTOR,ELECTRICAL,TYPE: SHUNT,MOUNTING TYPE: B3-FOOT,INSULATION CLASS: CLASS F,FRAME SIZE: 174SP,SPEED RATING: 1150 PRM,POWER RATING: 3.7 KW,CURRENT RATING: 40 A,VOLTAGE RATING: ARMATURE/FIELD: 115VAC/240VDC,MAKE: THYRON	NO
110073791	STATION,FIELD CTRL,MM:AFS10D-H4111	PART NAME: STATION,FIELD CONTROL,MODEL NUMBER: AFS10D-H4111,TYPE: RACK,FOR DCS SYSTEM,MAKE:YOKOGAWA,MODEL NUMBER: CENTUM CS3000	NO
110073792	NODEINTERFACE UNIT,AND50 CS3000	PART NAME: NODE INTERFACE UNIT,TYPE: 19 INCH RACK MOUNTABLE,FOR CONTROL SYSTEM,MAKE: YOKOGAWA,MODEL NUMBER: AND50 CS3000	NO
110074081	VSD,SIMOTRAS-HD,525 A	DRIVE,VARIABLE SPEED,TYPE: SIMOTRAS-HD,NUMBER OF PHASE: 3 PH,INPUT CURRENT RATING: 525 A,INPUT VOLTAGE RATING: 415 VAC,MAKE: SIEMENS,REFERENCE NUMBER: 6SG7080-OEB60-0	NO
110074141	MOTOR,ELEC,SRI,KS400LB,750RPM,220KW,415V	MOTOR,ELECTRICAL,TYPE: SLIP RING INDUCTION,MOUNTING TYPE: FOOT,INSULATION CLASS: CLASS H,FRAME SIZE: KS 400 LB,NUMBER OF POLE: 8P,SPEED RATING: 750 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 220 KW,FREQUENCY RATING: 50 HZ +/-5%,VOLTAGE RATING: 415 V+/-10%,ENCLOSURE: IP 55 AS PER IS2148-1981,AMBIENT TEMPERATURE: 45 DEG.C,CONFORMING TO IS 325(1978),DUTY: 40%,SHAFT: CYLINDRICAL SHAFT WITH DOUBLE EXTENSION,DUTY: CRANE DUTY: S7-UNINTERRUPTED PERIODIC DUTY AFFECTED BY THE STARTING PROCESS AND BY ELECTRIC BRAKING(COUNTER CURRENT BRAKING),NUMBER OF STARTS PER HOUR: 500	NO

110075161	MOTOR,ELEC,GEAR,132M,58RPM,7.5KW,415V	MOTOR,ELECTRICAL,TYPE: GEARED,SQUIRREL CAGE INDUCTION,ENCLOSURE: IP55,MOUNTING TYPE: B3-FOOT,INSULATION CLASS: CLASS F,FRAME SIZE: 132M,NUMBER OF POLE: 4P,SPEED RATING: 1500/58 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 7.5 KW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 415 VAC,3 STAGE INLINE HELICAL GEARED MOTOR,SIZE: F60X-750/4,GEAR BOX RATIO: 24.95: 1,SIZE,'B' TYPE FLANGE MOUNTED ELECTRIC MOTOR SERVICE FACTOR AVAILABLE FOR THIS GEAR UNIT IS 2.79. GEARED MOTOR SHOULD BE ENCLOSED FANCOOLED,COMBINED VARIATION 10% SUPPLY,TEMPERATURE RISE LTD. TO THAT OF CLASS B INSULATION,CONTINUATION (S1) DUTY,MATERIAL SPECIFICATION: HOUSING AND END COVERS: CAST IRON,GRADE FG 200,IS: 210HELICAL PINIONS AND GEARS: STEEL 815 M17 (EN 353)/AISI 8620,CASEHARDENED TO 58-62 HRC AND PROFILE GROUND,OUTPUT SHAFT: STEEL 070 M55 (EN 9),HARDENED AND TEMPERED TO 240-260 BHN	NO
110075372	CONVERTER SUPPORT ROLLER ASSEMBLY	CONVERTER SUPPORT ROLLER ASSEMBLY (WITH COLLAR)AS PER DRAWING NOS:4389-02-002 REV 0,4389-02-001,4389-02-0034389-03-003 AND 4149-02-004,MATERIAL OF CONSTRUCTION AS FOLLOWS:SUPPORT ROLLER : CAST STEEL IS 2644 CS 840SHAFT: EN 9 (FORGED)BUSH : PHOSPHOR BRONZEYOKE : CAST IRON IS 210 FG 150	SET
110076585	PAD,BRG,AXIAL THRUST,SFO 9,KKK	PART NAME: PAD,BEARING,AXIAL THRUST,FOR SO2 BLOWER,MAKE: KKK,MODEL NUMBER: SFO9,FOR SAP 1	SET
110076910	PANEL-6R,HOOD SIDE,CONVERTER	PART NAME: PANEL-6R,HOOD SIDE,DRAWING NUMBER: PECL/C-624/A1/SC-027,DRAWING NUMBER: 6523 111/3,FOR WATER COOLED HOOD,FOR CONVERTER,MAKE: PETRON/MUKAND	NO
110076911	PANEL-5R,HOOD SIDE,CONVERTER	PART NAME: PANEL-5R,HOOD SIDE,DRAWING NUMBER: PECL/C-624/A1/SC-028,DRAWING NUMBER: 6523 112/3,FOR WATER COOLED HOOD,FOR CONVERTER,MAKE: PETRON/MUKAND	NO
110076912	PANEL-4R,HOOD SIDE,CONVERTER	PART NAME: PANEL-4R,HOOD SIDE,DRAWING NUMBER: PECL/C-624/A1/SC-029,DRAWING NUMBER: 6523 113/1,FOR WATER COOLED HOOD,FOR CONVERTER,MAKE: PETRON/MUKAND	NO
110076913	PANEL-10,HOOD BACK,CONVERTER	PART NAME: PANEL-10,HOOD BACK,DRAWING NUMBER: PECL/C-624/A1/SC-041,DRAWING NUMBER: 6523 114/2,FOR WATER COOLED HOOD,FOR CONVERTER,MAKE: PETRON/MUKAND	NO
110076914	PANEL-8 & 9,HOOD BACK,CONVERTER	PART NAME: PANEL-8 & 9,HOOD BACK,DRAWING NUMBER: PECL/C-624/A1/SC-040,DRAWING NUMBER: 6523 115/1,FOR WATER COOLED HOOD,FOR CONVERTER,MAKE: PETRON/MUKAND	NO
110076918	PANEL-1R,HOOD SIDE,CONVERTER	PART NAME: PANEL-1R,HOOD SIDE,DRAWING NUMBER: PECL/C-624/A1/SC-035,DRAWING NUMBER: 6523 131/2,FOR WATER COOLED HOOD,FOR CONVERTER,MAKE: PETRON/MUKAND	NO
110076919	PANEL-2R,HOOD SIDE,CONVERTER	PART NAME: PANEL-2R,HOOD SIDE,DRAWING NUMBER: PECL/C-624/A1/SC-036,DRAWING NUMBER: 6523 132/1,FOR WATER COOLED HOOD,FOR CONVERTER,MAKE: PETRON/MUKAND	NO
110076921	PANEL-3R,HOOD BOTTOM,CONVERTER	PART NAME: PANEL-3R,HOOD BOTTOM,DRAWING NUMBER: PECL/C-624/A1/SC-038,DRAWING NUMBER: 6523 134/1,FOR WATER COOLED HOOD,FOR CONVERTER,MAKE: PETRON/MUKAND	NO
110076922	BACK PANEL,HOOD BOTTOM,CONVERTER	PART NAME: BACK PANEL,HOOD BOTTOM,DRAWING NUMBER: PECL/C-624/A1/SC-039,DRAWING NUMBER: 6523135/1,FOR WATER COOLED HOOD,FOR CONVERTER,MAKE: PETRON/MUKAND	NO
110080711	PUMP,MAIN LUBE SCREW,MM:SNGX40R-380A-W72	PART NAME: PUMP,MAIN LUBE SCREW,MODEL NUMBER: SNGX40R-380A-W72,FOR ISA BLOWER	NO
110081207	SHAFT SEAL,FOR NEW KKK BLOWER SFO-9	SHAFT SEAL,FOR NEW KKK BLOWER SFO-9,MATL.3-405101-002	SET
110081914	ADAPTER,BRG,VOLUTE,PUMP,MTH24510	PART NAME: ADAPTER,BEARING,VOLUTE,FOR CENTRIFUGAL PUMP,MAKE:CHAS.S.LEWIS <(>&<)> CO.,INC.,MODEL NUMBER: MTH24510,PART NO.118	NO
110081989	VOLUTE,PUMP,MTH24510,PN:20	PART NAME: VOLUTE,PART NUMBER: 20,FOR CENTRIFUGAL PUMP,MAKE: CHAS.S.LEWIS & CO.,INC.,MODEL NUMBER: MTH24510	NO
110081992	JOURNAL,VOLUTE,PUMP,MTH24510,PN:27	PART NAME: JOURNAL,VOLUTE,PART MATERIAL: LEWMET NI-CR,PART NUMBER: 27,FOR CENTRIFUGAL PUMP,MAKE: CHAS.S.LEWIS & CO.,INC.,MODEL NUMBER: MTH-24510	NO
110081993	BEARING,VOLUTE,PUMP,MTH24510,PN:28	PART NAME: BEARING,VOLUTE,PART MATERIAL: LEWMET NI-CR,PART NUMBER: 28,FOR CENTRIFUGAL PUMP,MAKE: CHAS.S.LEWIS & CO.,INC.,MODEL NUMBER: MTH-24510	NO
110081994	PIPE,DISCHARGE,PUMP,MTH24510,PN:30	PART NAME: PIPE,DISCHARGE,PART NUMBER: 30,FOR CENTRIFUGALLY CAST PUMP,MAKE: CHAS.S.LEWIS & CO.,INC.,MODEL NUMBER: MTH-24510	NO

110081995	ELBOW,DISCHARGE,PUMP,MTH24510,PN:32	PART NAME: ELBOW,DISCHARGE,PART NUMBER: 32,FOR CENTRIFUGAL PUMP,MAKE: CHAS.S.LEWIS AND CO.,INC.,MODEL NUMBER: MTH 24510	NO
110081997	PLATE,COVER,PUMP,MTH24510,PN:9	PART NAME: PLATE,COVER,PART NUMBER: 9,FOR CENTRIFUGAL PUMP,MAKE: CHAS.S.LEWIS & CO.,INC.,MODEL NUMBER: MTH24510	NO
110081998	BOOT,UPPER,PUMP,MTH24510,PN:11	PART NAME: BOOT,UPPER,PART NUMBER: 11,FOR CENTRIFUGAL PUMP,MAKE: CHAS.S.LEWIS & CO.,INC.,MODEL NUMBER: MTH24510	NO
110081999	SHAFT,W/KEY,PUMP,MTH-24510	PART NAME: SHAFT,WITH KEY,CONSISTS OF COUPLING KEY-STEEL-PART NUMBER: 138,IMPELLER KEY-ALLOY-20-PART NUMBER: 140,SHAFT (WITH 90MIL TEFLON SHAFT COVER)-PART NUMBER: 12,FOR CENTRIFUGAL PUMP,MAKE: CHAS.S.LEWIS & CO.,INC.,MODEL NUMBER: MTH-24510	NO
110082018	SUCTION HD&LOWER CASING RING,PN:18	PART NAME: SUCTION HEAD&LOWER CASING RING,PART MATERIAL: CAST IRON AND LEWMET NI-CR,PART NUMBER: 18,PART NUMBER: 45,FOR CENTRIFUGAL PUMP,MAKE: CHAS.S.LEWIS & CO.,INC.,MODEL NUMBER: MTH-24510	SET
110082021	STAND,MOTOR,PUMP,MTH24510,PN:86	PART NAME: STAND,MOTOR,PART NUMBER: 86,FOR CENTRIFUGAL PUMP,MAKE: CHAS.S.LEWIS AND CO.,INC.,MODEL NUMBER: MTH 24510	SET
110082681	SHAFT,INTERMEDIATE GEAR,CS EN-9,PN:6	PART NAME: SHAFT,INTERMEDIATE GEAR,PART MATERIAL: CARBON STEEL EN 9,DRAWING NUMBER: CR-25A/100/R3,PART NUMBER: 6,FOR CONVERTER,MAKE: TECHNOCRAFT CRANES PVT LTD	NO
110083093	ASSY,WHEEL,PROJ LT,EOT CRANE,60 TON	PART NAME: ASSEMBLY,WHEEL,PROJ LT,FOR DRIVING,FOR EOT CRANE,CAPACITY: 60 TON	NO
110085115	INSERT,SEALING,ISA BLOWER	PART NAME: INSERT,SEALING,P.D.SERIAL NUMBER: 39/150.0,ID NUMBER: 38967615,FOR ISA BLOWER,MAKE: MANNESMAN DEMAG	NO
110085683	BLOCK,SCF TAPPING,CU,DRG: FFM1317-C	PART NAME: BLOCK,SCF TAPPING,PART MATERIAL: COPPER,DRAWING NUMBER: FFM1317-CFOR SCF	NO
110085964	CONTACTOR,PWR,220VDC,300 A,M915X22B1,BCH	CONTACTOR,ELECTROMAGNETIC,TYPE: POWER,CONTACT CONFIGURATION: 2 NO/2 NC,NUMBER OF POLE: 1P,COIL VOLTAGE RATING: 220 VDC,CURRENT RATING: 300 A,MECHANICALLY INTERLOCKED,2 NOS OF SINGLE POLE,NORMALLY OPEN,FRONT CONNECTION,MAKE: BHARTIA CUTLER HAMMER,CATALOGUE NUMBER: M915X22B1	NO
110086517	PUMP,CNTFGL,650CUB.M/HR,10AD13.5	PUMP,CENTRIFUGAL,FLOW RATING: 650 CUB.M/HR,SPEED RATING: 1450 RPM,HEADSIZE: 32 M,OPERATING PRESSURE RATING: 7 KG/SQ.CM,POWER RATING: 94HP,SIZE: 300 X 250 MM,HOOD DOOR COOLING PUMP FOR CONVERTOR,MAKE: SAMTURBO,MODEL NUMBER: 10AD 13.5,ENERGY EFFICIENT PUMP	NO
110086691	ASSY,GEARBOX,LT DRIVE,CRANE,PN:H240220	PART NAME: ASSEMBLY,GEARBOX,LT DRIVE,PART NUMBER: H240220,TYPE: XI,FOR AC CRANE-2,MAKE: MUKAND LTD,CAPACITY: 60 TON	NO
110086701	SEAL MECH 44/150 PUMP 433 SULZ	MECHANICAL SEAL FOR PUMP MODEL WPP 44/150. PUMP SL NO:98 168469	NO
110086814	AGITATOR,SANICRO 28,DRG:TE/03/39/STER R3	PART NAME: AGITATOR,PART MATERIAL: SANICRO-28,DRAWING NUMBER: TE/03/39/STERLITE REV-3,SHAFTDIA: 356 MM,THICKNESS: 12 MM,IMPELLER SWEEP AND SHAFT LENGTH ASPER THE EXISTING SYSTEM ALONG WITH POLYPROPYLENE SHOES FASTENED TO THE BLADES,RUBBER LINING OF THE SHAFT WITH THICKNESS:10 MM,MATERIAL: BUTYL RUBBER IN THE VAPOUR ZONE OF THE SHAFT AND COUPLING MATERIAL: STAINLESS STEEL-316L,FOR REACTOR 1A	NO
110087437	CYLINDER,PNEU,DBL ACTING,PWR,280MM,100MM	CYLINDER,PNEUMATIC,TYPE: DOUBLE ACTING,POWER,APPLICATION: CONVEYOR ID FAN 3,CONNECTION: 1/4INCH,NPT,STROKE: 280 MM,BORE SIZE: 100 MM,MOUNTING: CLEVIS,FRONT: U CLAMP,POSITIONER: SMARTPOSITIONER,FEED BACK TRANSMITTER: 4 TO 20 MA,MODEL NUMBER: 6DR5120-6J,AIR SUPPLY: 3.5 KG/SQ.CM,8 MM OD STAINLESS STEEL TUBES FOR CONV ID FAN-3 VOITH FC,MAKE: SIEMENS,MODEL NUMBER: 6DR5120-0N00-0AA0	NO
110089093	GEARBOX,THREE STAGE HELICAL,FOOT,100:1	GEARBOX,TYPE: THREE STAGE HELICAL,MOUNTING TYPE: FOOT,GEAR RATIO: 100: 1,SPEED RATING: 975 RPM,NORMAL RATIO: 100.112: 1,FOR TRANSMITTING 20 KW,SERVICE FACTOR OF 1.5 OVER 20 KW,DOUBLE EXTENDED INPUT SHAFT AND OUTPUT SHAFT,IT SHOULD BE EXACTLY IDENTICAL TO YOUR EARLIER SUPPLIED GEAR BOX HAVING SERIAL NO: 56491,REFERENCE NUMBER: SCH 280F (SPL)	NO
110089387	PANEL-6L,HOOD SIDE,CONVERTER	PART NAME: PANEL-6L,HOOD SIDE,DRAWING NUMBER: PECL/C-624/A1/SC-030,DRAWING NUMBER: 6523 111/3,FOR CONVERTER,MAKE: PETRON/MUKAND	NO

110089389	PANEL-4L HOOD SIDE, CONVERTER	PART NAME: PANEL-4L HOOD SIDE, DRAWING NUMBER: PECL/C-624/A1/SC-048, DRAWING NUMBER: 6523 113/1, FOR CONVERTER, MAKE: PETRON/MUKAND	NO
110089390	PANEL-3L, HOOD SIDE, CONVERTER	PART NAME: PANEL-3L, HOOD SIDE, DRAWING NUMBER: PECL/C-624/A1/SC-047, DRAWING NUMBER: 6523 134/1, FOR WATER COOLED HOOD, FOR CONVERTER, MAKE: PETRON/MUKAND	NO
110089391	PANEL-1L, HOOD SIDE, CONVERTER	PART NAME: PANEL-1L, HOOD SIDE, DRAWING NUMBER: PECL/C-624/A1/SC-042, DRAWING NUMBER: 6523 131/2, FOR WATER COOLED HOOD, FOR CONVERTER, MAKE: PETRON/MUKAND	NO
110090462	MOTOR, ELEC, SR, 985RPM, 30KW, 415/290VAC	MOTOR, ELECTRICAL, TYPE: SLIP RING INDUCTION, ENCLOSURE: IP55, MOUNTING TYPE: B3-FOOT, INSULATION CLASS: CLASS F, FRAME SIZE: KS250S, NUMBER OF POLE: 6 P, SPEED RATING: 985 RPM, NUMBER OF PHASE: 3 PH, POWER RATING: 30 KW, FREQUENCY RATING: 50 HZ, CURRENT RATING: 68/63.5 A, VOLTAGE RATING: 415/290 VAC, SHAFT: DOUBLE EXTN, MAKE: GEC ALSTOM (I) LTD, REFERENCE NUMBER: 176879/1	NO
110090909	CASING, VOLUTE, SS, PUMP, WPP 44/150, PN:102	PART NAME: CASING, VOLUTE, PART MATERIAL: STAINLESS STEEL, PART NUMBER: 102, MATERIAL: HIGH ALLOYED AUSTENITIC STAINLESS STEEL, MATERIAL STANDARD: AVESTA 654 SMO, ITEM CODE: 145100014U, FOR CENTRIFUGAL PUMP, MAKE: SULZER PUMPS, MODEL NUMBER: WPP 44/150	NO
110091610	BLOCK, SPLASH, CU, REF: FFM0708	PART NAME: BLOCK, SPLASH, PART MATERIAL: COPPER, DRAWING NUMBER: FF SK.ST-101101, REFERENCE NUMBER: FFM0708, MARK NUMBER: A/B	NO
110091612	BLOCK, CU, DRG: FFM0719-C REV-3	PART NAME: BLOCK, PART MATERIAL: COPPER, DRAWING NUMBER: FFM0719-C REV-3, STATIC CAST ELECTORLYTIC TOUGH PITCH, COPPER TO UNS C11000 OR EQUIVALENT DIMENSION AS PER THE DRAWING, COOLING MEDIUM: AIR	NO
110092278	ELECTRODE, REFERENCE/CTRL, PN:078853-4	PART NAME: ELECTRODE, REFERENCE/CONTROL, PART NUMBER: 078853-4	NO
110092485	VALVE, CTRL, FLGD, BUTFLY, HAST-C, 150NB	VALVE, CONTROL, FLANGED, TYPE: WAFER BUTTERFLY, BODY MATERIAL: HASTELLOY-C, ACTUATOR TYPE: SPRING RETURN, FLANGE PRESSURE DESIGNATION: ASME CLASS 150, SEAT MATERIAL: GLASS FILLED TEFLON, LEAKAGE STANDARD: CLASS: VI, AIR FAILURE POSITION: CLOSE, AIR SUPPLY PRESSURE: 150 PSI, POSITIONER TYPE: PNEUMATIC, SIZE: 150 NB, WITH ACTUATOR, LINE SIZE: 6 INCH, HIGH PERFORMANCE, TYP: DOUBLE ECCENTRIC, DISC MATERIAL: HASTALLOY-C, POSITIONER MAKE: ELECTRO-, POSITIONER MAKE: ELOMATIC, MODEL NUMBER: F-10, INPUT: 4-20 MA, MOUNTING MATERIAL: POWDER COATED MILD STEEL, ACTUATOR MAKE: ELOMATIC, MODEL NUMBER: PE-2500, ACCESSORIES: AIR FILTER REGULATOR SIZE: 1/2 INCH NPT, AFR MAKE: PLACKA, H FLUID CONDITION: FLUID: 98.4% CONC SULPHURIC ACID, DENSITY: 1.85, MAX FLOW RATING: 100 CUB.M/HR, OPERATING FLOW RATING: 40-70 CUB.M/HR, MIN FLOW: 10 CUB.M/HR, MAX TEMPERATURE: 55 DEG.C, OPERATING TEMPERATURE: 35-40 DEG.C, SCOPE OF SUPPLY INCLUDE VALVE, ACTUATOR, POSITIONER, AFR AND MOUNTING BRACKET, DT BLEED VALVE	NO
110092851	BEARING, JOURNAL & THRUST, PN:4151000-012	PART NAME: BEARING, JOURNAL AND THRUST, PART NUMBER: 4151000-012, FOR CONVERTER BLAST AIR BLOWER, MAKE: KKK, MODEL NUMBER: SFO G7	NO
110093139	MOTOR, ELEC, GEAR, 160M, 61RPM, 9.3KW, 415VAC	MOTOR, ELECTRICAL, TYPE: GEARED, SQUIRREL CAGE INDUCTION, ENCLOSURE: IP55, MOUNTING TYPE: B3, FOOT AND B5, FLANGE, INSULATION CLASS: CLASS F, FRAME SIZE: 160M, NUMBER OF POLE: 4P, SPEED RATING: 1450/61 RPM, NUMBER OF PHASE: 3 PH, POWER RATING: 9.3 KW, FREQUENCY RATING: 50 HZ +/-5%, VOLTAGERATING: 415 VAC +/-10%, DUTY: S1, AS PER STANDARD: IS 325, MAKE: SHANTHI GEARS LTD, REFERENCE NUMBER: F60X-930/4	NO
110093982	IMPELLER, PUMP, MTH26010, PN:16	PART NAME: IMPELLER, PART NUMBER: 16, FITTED WITH LOWER RING, PART NUMBER: 97, FOR CENTRIFUGAL PUMP, MAKE: CHAS.S.LEWIS<(>&<(>CO., INC., MODEL NUMBER: MTH26010, DISCHARGE FLOW RATING: 975 CUB.M/HR, IMPELLER DIAMETER-13 INCH	NO
110094277	PIECE, CAMSHAFT, ENGINE, 18V32LN, PN:148002	PART NAME: PIECE, CAMSHAFT, PART NUMBER: 148002, FOR DIESEL ENGINE, MAKE: WARTSILA, MODEL NUMBER: 18V32LN	NO

110094458	SENSOR,VISCOSITY,SS-316,4 TO 20 MA,VAF	SENSOR,TYPE: VISCOSITY,MATERIAL: STAINLESS STEEL-316,FREQUENCY RANGE: 50/60 HZ,INPUT SIGNALRANGE: 0 TO 50 CST,OUTPUT SIGNAL: 4 TO 20 MA,MAXIMUM TEMPERATURE: 180 DEG.C,PRESSURE RATING: 40 BAR,SUPPLY VOLTAGE: 100 TO 240 VAC,MAKE: VAF INSTRUMENTS,MODEL NUMBER: 0279-0088,MAKE: VAF INSTRUMENTS,PART NUMBER: A25015	NO
110094461	MODULE,CTRL,EPC-4000,PN:31830-5010-4	PART NAME: MODULE,CONTROL,PART NUMBER: 31830-5010-4,FOR SEPARATOR CONTROL UNIT,MODEL NUMBER: EPC-4000	NO
110095543	WINCH,PRY HOOD DOOR,DRG:PMC-245-P-00-01	PART NAME: WINCH,PRIMARY HOOD DOOR,DRAWING NUMBER: PMC-245-P-00-01,FOR GEAR BOX,MAKE: PETRON,GEAR RATIO: 228.34: 1,GEAR BOX WITH HAND WHEEL FOR CONVERTOR,FABRICATED TYPE,HR 500+150,POWER RATING 12.0 HP,CLASS I,DOUBLE EXTENSION,INPUT AND OUTPUT SHAFTS	NO
110095605	CENTRAL PROCESSING UNIT,140 CPU 113 03	PART NAME: CENTRAL PROCESSING UNIT,PART NUMBER: 140 CPU 113 03,FOR PROGRAMMABLE LOGIC CONTROLLER,BRAND NAME: MODICON	NO
110096003	CASING,ANNULAR,PUMP,PN:103	PART NAME: CASING,ANNULAR,PART NUMBER: 103,FOR CENTRIFUGAL PUMP,MAKE:WERNERT PUMPS,MODEL NUMBER: NEKO/NEPO 150-125-315,SERIAL NUMBER:02.0118/1,02.0118/2,02.0118/4,02.0118/5,02.0118/6.ID NO 103C27019GGG019	NO
110100546	MOTOR,ELEC,VIBRATOR,960RPM,5 HP,7.5A	MOTOR,ELECTRICAL,TYPE: VIBRATOR,INSULATION CLASS: CLASS F,SPEED RATING: 960 RPM,POWER RATING: 5 HP,FREQUENCY RATING: 50 HZ,CURRENT RATING: 7.5 A,VOLTAGE RATING: 415 +/-10%,MAKE: ELECTROMAG	NO
110102725	BRAKE,ELEC,SHUNT,ELECMGNTC,500MM,BCH	BRAKE,ELECTRICAL,TYPE: SHUNT,ELECTROMAGNETIC,TORQUE RATING: 277 KG-M,VOLTAGE RATING: 220 VDC,SIZE: 500 MM,WITH DUTY - INTERMITTENT,NUMBER OF OPERATIONS - 600 PER HOUR,MAKE: BHARTIA CUTLER HAMMER,CATALOGUE NUMBER: SMH500I1	NO
110103686	GEARBOX,HELICAL,99000 NM,164.1:1,6.5 RPM	GEARBOX,TYPE: HELICAL,APPLICATION: DH FILTER,TORQUE RATING: 75000-99000 NM,GEAR RATIO: 164.1: 1,SPEED RATING: OUTPUT: 0.8 TO 6.5 RPM,FOR DH FILTER,TYPE: SHAFT MOUNTED,HELICAL,NORMAL,OVER ALL DIMENSIONS TO SUIT EXISTING HANSEN GEAR BOX	NO
110104124	SELASTOMER SLEEVE EPDM KGA 20 VALVE	ELASTOMER SLEEVE FOR KGA 20 INCH CLARKSON KNIFE GATE VALVE ,MATERIALOF CONSTRUCTION :EPDM P/N 03461.54 MAKE :TYCO	NO
110105078	SWIVEL JOINT,6IN,BD-53420-66-01	PART NAME: SWIVEL JOINT,PART SIZE: 6 INCH,MODEL NUMBER: BD-53420-66-01,PIPE SIZE: 6,FLANGE:ANSI 150 LBS,TEMPERATURE: 40 TO 101 DEG.C,90 DEG JOINT CONSTRUCTION,ALL STEEL MAX HOT WORKING PRESSURE: 7 KG/CM2	NO
110105259	CYLINDER,HYD,APM,AM-54,PN:43675	PART NAME: CYLINDER,HYDRAULIC,PART NUMBER: 43675,ARTICLE NUMBER: Z2126CUAM154000,FOR ANODE PREPARATION MACHINE IN LUG MILLING UNIT,MAKE: OUTOKUMPU,MODEL NUMBER: AM-54	NO
110105351	ASSY,DRIVE SHAFT,C.TOWER,586-8V-03	PART NAME: ASSEMBLY,DRIVE SHAFT,FOR COOLING TOWER,MAKE: PAHARPUR COOLING TOWERS LTD,MODEL NUMBER: 586-8V-03,SERIAL NUMBER: B95-2-912	SET
110106207	GOVERNOR,DRIVE,ENGINE,PN:223040	PART NAME: GOVERNOR,DRIVE,PART NUMBER: 223040,FOR DIESEL ENGINE,MAKE: WARTSILA	NO
110106266	ASSY,AUX, DRIVE,GEARBOX,PVE-16D	PART NAME: ASSEMBLY,AUXILIARY DRIVE,CONSISTS OF SPRAG CLUTCH,PULLEY,BELT ONLY,FOR GEAR BOX,MAKE: DAVID BROWN,MODEL NUMBER: PVE-16D,RATIO: 67.4: 1,TAG NO: 506,CONTRACT NUMBER: 65960/1/2	NO
110106942	LINER,CASING,UHMWPE,PUMP,150-125	PART NAME: LINER,CASING,PART MATERIAL: UHMW-PE,FOR PUMP,MAKE: WERNERTPUMPS,MODEL NUMBER: 150-125,SERVICE COND: SOLIDS: 15%,H2SIF6:30%,TEMPERATURE RATING: 80 DEG.C.ID NO 101G27021PEK019	NO
110107756	IMPELLER,MACH 2X4X9,DRG.NO.:249L/2	PART NAME: IMPELLER,DRAWING NUMBER: 249L/2,FOR LIQUID OXYGEN CENTRIFUGAL PUMP,MAKE: CRYOSTAR,MODEL NUMBER: MACH 2X4X9	NO
110107759	SEAL,HSG,CCL 2X4X9,DRG.NO.:249L/15	PART NAME: SEAL,HOUSING,DRAWING NUMBER: 249L/15,FOR LOX PUMP,MAKE: CRYO-MACH,MODEL NUMBER: CCL 2X4X9	NO
110107828	ASSY,BRG,PIVOTSHOE,PN:P3791500-00107	PART NAME: ASSEMBLY,BEARING,PIVOT SHOE,PART NUMBER: P3791500-00107,ADJACENT FOR HIGH SPEED PINION,FOR MAIN AIR COMPRESSOR-B/C,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11116,X11117	NO

110107829	ASSY,OIL SEAL,TA160,PN:P5403510-00001	PART NAME: ASSEMBLY,OIL SEAL,PART NUMBER: P5403510-00001,FOR MAIN AIR COMPRESSOR BULL GEAR,FOR BOOSTER COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11116,X11117	NO
110107830	ASSY,THRUST BRG,TA160,PN:P5403503-00001	PART NAME: ASSEMBLY,THRUST BEARING,PART NUMBER: P5403503-00001,FOR MAIN AIR COMPRESSOR A/B/C,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-160,SERIAL NUMBER: X11115,X11116,X11117	NO
110107831	ASSY,THRUST BRG,TA55,PN:P5403179-00001	PART NAME: ASSEMBLY,THRUST BEARING,PART NUMBER: P5403179-00001,3.0 CCW,FOR BOOSTER AIR COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TA-55,SERIAL NUMBER: X11264	NO
110107832	ASSY,OIL SEAL,TA55,PN:P5403155-00000	PART NAME: ASSEMBLY,OIL SEAL,PART NUMBER: P5403155-00000,FOR BULL GEAR,FOR BOOSTER COMPRESSOR,MODEL NUMBER: TA-55,SERIAL NUMBER: X11264	NO
110107833	ASSY,OIL SEAL,I&II STG,PN:P3403156-00082	PART NAME: ASSEMBLY,OIL SEAL,I & II STAGE,PART NUMBER: P3403156-00082,FOR BOOSTER COMPRESSOR,MODEL NUMBER: TA-55,SERIAL NUMBER: X11264	NO
110108550	BRAKE,SERIES,CRANE,13IN,CAT:SME 1301	PART NAME: BRAKE,SERIES,PART SIZE: 13 INCH,CATALOGUE NUMBER: SME 1301,CURRENT RATING: 95 A,FOR 1 HOUR MOTOR RATING,POWER RATING: 25 HP,VOLTAGE RATING: 230 VDC,CURRENT RATING: 96 A,SPEED RATING: 600 RPM/CR-41,MAKE: P&H,TORQUE RATING: 495 NM,DIMENSION AS PER BCH CATALOGUE,FIG:1,FOR HOIST CRANE,CAPACITY: 15 TON	NO
110109070	IMPELLER,PUMP,PN:740120977	PART NAME: IMPELLER,PART NUMBER: 740120977,FOR LIQUID OXYGEN PUMP,MAKE: CRYOSTAR,MODEL NUMBER: MCP190/20L-2.6-WB-CB-C/0	NO
110109071	ASSY,SEAL,LABYRINTH,PN:763122150	PART NAME: ASSEMBLY,SEAL LABYRINTH,PART NUMBER: 763122150,WITH 2/3 CHAMBERS,ORDER NUMBER: 114000830PROJ,COMM.NUMBER: F2439-01/02,FOR LOX CENTRIFUGAL PUMP,MAKE: CRYOSTAR,MODEL NUMBER: MCP190/20L-2.6-WB-CB-C/0	NO
110109079	ELEMENT,OIL FILTER,MIST,PN:55099-2	PART NAME: ELEMENT,OIL FILTER,MIST,PART NUMBER: 55099-2,FOR B. TURBINE,FOR COMPRESSOR,MAKE: ACD,MODEL NUMBER: TC-4000 RMU,SERIAL NUMBER: 02899261,SALES ORDER NUMBER: 89926	NO
110109081	BEARING,THRUST,VK50-3,PN:43532415	PART NAME: BEARING,THRUST,DRAWING NUMBER: 73116615,POS: 32-10,PART NUMBER: 43532415,FOR AIRCOMPRESSOR,MAKE: SIEMENS,MODEL NUMBER: VK50-3,MACHINE NUMBER: 12028	NO
110109082	BEARING,JOURNAL,BULLGEAR SHAFT,43529315	PART NAME: BEARING,JOURNAL,BULLGEAR SHAFT,DRAWING NUMBER: 73116615,POS: 32-20,PART NUMBER: 43529315,FOR AIR COMPRESSOR,MAKE: SIEMENS,MODEL NUMBER: VK50-3,MACHINE NUMBER: 12028	NO
110109083	BEARING,JOURNAL,PINION SHAFT,PN:66798415	PART NAME: BEARING,JOURNAL,PINION SHAFT,DRAWING NUMBER: 73116615,POS: 32-30,PART NUMBER: 66798415,FOR AIR COMPRESSOR,MAKE: SIEMENS,MODEL NUMBER: VK50-3,MACHINE NUMBER: 12028	NO
110109084	BEARING,JOURNAL,PINION SHAFT,PN:66485015	PART NAME: BEARING,JOURNAL,PINION SHAFT,DRAWING NUMBER: 73116615,POS: 32-40,PART NUMBER: 66485015,FOR AIR COMPRESSOR,MAKE: SIEMENS,MODEL NUMBER: VK50-3,MACHINE NUMBER: 12028	NO
110109092	RING,OIL SEAL,VK50-3,PN:51012115	PART NAME: RING,OIL SEAL,DRAWING NUMBER: 73116615,PART NUMBER: 51012115,FOR HS PINION SHAFT2/80,FOR AIR COMPRESSOR,MAKE: SIEMENS,MODEL NUMBER: VK50-3,REFERENCE NUMBER: 12028,POSITIONNUMBER: 39-60	NO
110109094	PUMP,GEAR,MAIN,R65/200,PN:27338615	PART NAME: PUMP,GEAR,MAIN,R65/200,DRAWING NUMBER: 73116615,POS: 48-10,PART NUMBER: 27338615,FOR AIR COMPRESSOR,MAKE: SIEMENS,MODEL NUMBER: VK50-3	NO
110109095	COUPLING,COMPRESSOR,VK50-3,PN:75524615	PART NAME: COUPLING,DRAWING NUMBER: 73116615,POS: 49-10,PART NUMBER: 75524615,FOR AIR COMPRESSOR,MAKE: SIEMENS,MODEL NUMBER: VK50-3,MACHINE NUMBER: 12028	NO
110109631	BEARING,PLN,I STG,PN:68107200IM	PART NAME: BEARING,PLAIN,I STAGE,PART NUMBER: 68107200IM,FOR PLANT AIRCOMPRESSOR,MAKE: INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3,SERIALNUMBER: NO3-1200	NO
110109632	BEARING,THRUST,I STG,PN:68117415IM	PART NAME: BEARING,THRUST,I STAGE,PART NUMBER: 68117415IM ,FOR PLANT AIRCOMPRESSOR,MAKE: INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3,SERIALNUMBER: NO3-1200	NO
110109633	BEARING,PLN,II STG,PN:68107218IM	PART NAME: BEARING,PLAIN,II STAGE,PART NUMBER: 68107218IM,FOR PLANT AIRCOMPRESSOR,MAKE: INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3	NO

110109634	BEARING,THRUST,II STG,PN: 68117647IM	PART NAME: BEARING,THRUST,II STAGE,PART NUMBER: 68117647IM, FOR PLANTAIR COMPRESSOR,MAKE: INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3	NO
110109635	BEARING,PLN,III STG,PN:68107226IM	PART NAME: BEARING,PLAIN,III STAGE,PART NUMBER:68107226IM,FOR PLANT AIRCOMPRESSOR,MAKE: INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3	NO
110109636	BEARING,THRUST,III STG,PN:68117613IM	PART NAME: BEARING,THRUST,III STAGE,PART NUMBER: 68117613IM, FOR PLANTAIR COMPRESSOR,MAKE: INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3	NO
110109637	CARTRIDGE,AIR/OIL,I STG,PN:67710392IM	PART NAME: BEARING,THRUST,III STAGE,PART NUMBER:67710392IM,FOR PLANT AIRCOMPRESSOR,MAKE: INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3	NO
110109638	CARTRIDGE,AIR/OIL,II STG,PN:67688325IM	PART NAME: CARTRIDGE,AIR/OIL,II STAGE,PART NUMBER: 67688325IM,FOR PLANTAIR COMPRESSOR,MAKE:INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3	NO
110109639	CARTRIDGE,AIR/OIL,III STG,PN:7X10797IM	PART NAME: CARTRIDGE,AIR/OIL,III STAGE,PART NUMBER: 7X10797IM,FOR PLANTAIR COMPRESSOR,MAKE:INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3	NO
110111266	COUPLING,DRIVE,CENTAC-C55MX3,PN:WIN 6233	PART NAME: COUPLING,DRIVE,PART NUMBER: WIN 6233,MODEL NUMBER: C950/110 MM,FOR PLANT AIR COMPRESSOR,MAKE: INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3,SERIAL NUMBER: NO3-1200	NO
110111330	PUMP,MAIN LUBE OIL,PN:P3405573-00306	PART NAME: PUMP,MAIN LUBE OIL,PART NUMBER: P3405573-00306,MODEL NUMBER: C3EBC-162D,FOR BOOSTER COMPRESSOR,MAKE: JOY-COOPER,USA,MODEL NUMBER: TAE55M2 R1RCD/30,SERIAL NUMBER: X11264	NO
110111479	SEAL,EXPANDER,COMPANDER,PN:212761D	PART NAME: SEAL,EXPANDER,PART NUMBER: 212761D,REFERENCE NUMBER: 0007,FOR COMPANDER,MAKE: CRYO MACHINERY,ALLENTOWN,PA,USA,TYPE: TURBOMACH ETAPC-6,ASSEMBLY NUMBER: 212750 E-G502,PROJECTNUMBER: 04-7-2820,REFERENCE NUMBER: K261	NO
110111480	BEARING,EXPANDER,COMPANDER,PN:203480C	PART NAME: BEARING,EXPANDER,PART NUMBER: 203480C,REFERENCE NUMBER: 0008,FOR COMPANDER,MAKE:CRYO MACHINERY,ALLENTOWN,PA,USA,TYPE: TURBOMACH ETAPC-6,ASSEMBLY NUMBER: 212750 E-G502,PROJECT NUMBER: 04-7-2820,REFERENCE NUMBER: K261	NO
110111481	LOADER,BRG,COLD,COOLER,K261,PN:203482C	PART NAME: LOADER,BEARING,COLD,PART NUMBER: 203482C,FOR COMPRESSOR,MAKE: CRYOMACHINERY,USA,FOR COMPANDER,TYPE: TUBOMACH ETAPC-6,REFDES: 0009,ASSEMBLY NUMBER: 212750 E-G502,FOR COOLER MODEL NUMBER: K261	NO
110111482	SEAL,COMPRESSOR,COMPANDER,PN:210345C	PART NAME: SEAL,COMPRESSOR,PART NUMBER: 210345C,REFERENCE NUMBER: 0013,FOR COMPANDER,MAKE: CRYO MACHINERY,ALLENTOWN,PA,USA,TYPE: TURBOMACH ETAPC-6,ASSEMBLY NUMBER: 212750 E-G502,PROJECT NUMBER: 04-7-2820,REFERENCE NUMBER: K261	NO
110111570	CONTROL UNIT,TRANSFORMER	PART NAME: CONTROL UNIT,FOR NEW SAP ELECTROSTATIC PRECIPITATOR,FOR RECTIFIER TRANSFORMER,MAKE: SIEMENS	NO
110111571	POWER SUPPLY AND CONTROL UNIT,ESP	PART NAME: POWER SUPPLY AND CONTROL UNIT,FOR RECTIFIER TRANSFORMER,MAKE: SIEMENS,FOR NEW SAP ELECTROSTATIC PRECIPITATOR	NO
110111575	H.V DETECTION UNIT,TRANSFORMER	PART NAME: H.V DETECTION UNIT,FOR NEW SAP ELECTROSTATIC PRECIPITATOR,FOR RECTIFIER TRANSFORMER,MAKE: SIEMENS	NO
110111582	INSULATOR,HV,CERAMIC,ESP	PART NAME: INSULATOR,HV,PART MATERIAL: CERAMIC,FOR NEW SAP ELECTROSTATIC PRECIPITATOR	NO
110111589	UNIT,TRANSFORMER,PULSE,RECTIFIER	PART NAME: UNIT,TRANSFORMER,PULSE,FOR TRASFORM RECTIFIER,FOR NEW SAP ELECTROSTATIC PRECIPITATOR,MAKE: SIEMENS	NO
110111648	KIT,REPAIR,COMPANDER,PN:212750E-RK	PART NAME: KIT,REPAIR,PART NUMBER: 212750E-RK,FOR COMPANDER,MAKE: CRYO MACHINERY,ALLENTOWN,PA,USA,TYPE: TUBOMACH ETAPC-6,ASSEMBLY NUMBER: 212750 E-G502,PROJECT NUMBER: 04-7-2820	NO
110112473	BELLOW,TURBO INLET,ENGINE,W32,PN:200081	PART NAME: BELLOW,TURBO INLET,PART NUMBER: 200081,FOR DIESEL ENGINE,MAKE: WARTSILA,MODEL NUMBER: W32	NO
110112564	CONVEYOR BELT800MM(W),HR 500/4 X 6MMTHK	800MM CONVEYOR BELT,NYLON/NYLON, 500/4, TOP COVER 6 MM THK, BOTTOM COVER3 MM THK, HR GRADE, LENGTH 30 M.FOR 800 MM BELT WIDTH (SHUTTLECONVEYOR).	M

110112569	BELT,CONVEYOR,EP,400/3,5/2MM,1000MMX400M	BELT,CONVEYOR,MATERIAL:EP,GRADE:M24,STRENGTH/PLY: 400/3, TOP/BOTTOM COVER SIZE: 5/2 MM, DIMENSION: WD: 1000 MM X LG: 400 M, MOULDED EDGE, FOR PIPE BELT CONVEYOR COMPLETE 400M MATERIAL TO BE SUPPLIED IN SINGLE ROLL	M
110113388	REDUCTION GEAR,I STG,CRANE,PN:0849155E	PART NAME: REDUCTION GEAR,I STAGE,DRAWING NUMBER: VA20S6DO,PART NUMBER: 0849155E, FOR MH/AH GEAR BOX, VERTICAL REDUCER MODEL NUMBER: VRS 630, REDUCTION RATIO: 20.24: 1, FOR CRANE-3, MAKE: WMI CRANES LTD, CAPACITY: 60 TON	NO
110113397	WHEEL,CT DRIVE,CRANE,DRG:0W6D2600,60 TON	PART NAME: WHEEL,CT DRIVE,DRAWING NUMBER: 0W6D2600, WITH BEARING HOUSING AND COUPLING HALF, FOR CRANE-3, MAKE: WMI CRANES LTD, CAPACITY: 60 TON	NO
110113512	GEARBOX,25:1,V800 HDS LY	GEARBOX, GEAR RATIO: 25: 1, MAKE: GREAVES, REFERENCE NUMBER: V800 HDS LY	NO
110113601	GEARBOX,HYDRO MOTOR CHAIN DRIVE	GEARBOX, FOR HYDRAULIC BRAKE, GEARED MOTOR, TYPE: RM250NKA1F-LBD249HF-ED2250Z, RIGHT TURNING TRANSPORT WITHOUT VALVE BLOCK, GEAR BOX WITH KEY WAY SHAFT DIA: 110 M6, WORKING: FORMOUNTING AND RIGHT TURNING ANODE TRANSPORT, REFERENCE NUMBER: ED2250Z	NO
110113606	DISC,ATM CHAIN DRIVE TIMING BELT	PART NAME: DISC, WITH SYNCHRONIZATION, FOR ATM CHAIN DRIVE TIMING BELT, TYPE: STVZ 165 AT 20/78-2 D=90 H7, DESCRIPTION: STVZ: GALVANIZED STEEL, WIDTH: 165 MM OF THE CROWN GEARS, AT20: TOOTH PROFILE, NUMBER OF TEETH: 78, BORE: 90 MM H7, 78-2: 2 DENOMINATES THE FLANGED WHEEL	NO
110113607	DISC,ATM CHAIN DRIVE TIMING BELT	PART NAME: DISC, WITH SYNCHRONIZATION, FOR ATM CHAIN DRIVE TIMING BELT, TYPE: STVZ 165 AT 20/78-2 D=110 H7, DESCRIPTION: STVZ: GALVANIZED STEEL, WIDTH 165 MM OF THE CROWN GEARS, AT20: TOOTH PROFILE, NUMBER OF TEETH: 78, BORE: 110 MM H7, 78-2: 2 DENOMINATES THE FLANGED WHEEL	NO
110113689	COUPLING,HIGH SPEED,PN:1-544000-087	PART NAME: COUPLING, HIGH SPEED, DRAWING NUMBER: 10400014104, POS: 250, PART NUMBER: 1-544000-087, FOR BLOWER, MAKE: KKK, MODEL NUMBER: SFO14	NO
110113690	BOLT,FLEX COUPLING,SFO14,PN:1-544000-089	PART NAME: BOLT, FLEXIBLE COUPLING, DRAWING NUMBER: 10400014104, POS: 255, PART NUMBER: 1-544000-089, FOR BLOWER, MAKE: KKK, MODEL NUMBER: SFO14	NO
110113691	BEARING,JOURNAL&THRUST,PN:10521502601	PART NAME: BEARING, JOURNAL AND THRUST, DRAWING NUMBER: 10400014104, POS: 190, PART NUMBER: 10521502601, WITH BEARING SUPPORT, 4 RADIAL BEARING SEGMENTS, 12 AXIAL BEARING PADS, FOR BLOWER, MAKE: KKK, MODEL NUMBER: SFO14	NO
110113692	BEARING,JOURNAL,SFO14,PN:10521502501	PART NAME: BEARING, JOURNAL, DRAWING NUMBER: 10400014104, POS: 200, PART NUMBER: 10521502501, WITH ONE BEARING SUPPORT AND 4 RADIAL BEARING SEGMENT, FOR BLOWER, MAKE: KKK, MODEL NUMBER: SFO14	NO
110113695	BEARING,JOURNAL,SFO14,PN:4-150000-031	PART NAME: BEARING, JOURNAL, DRAWING NUMBER: Z-119300, POS: 50, PART SIZE: DIA: 90 MM, PART NUMBER: 4-150000-031, FOR BLOWER, MAKE: KKK, MODEL NUMBER: SFO14	NO
110113696	BEARING,JOURNAL&THRUST,PN:4-150000-029	PART NAME: BEARING, JOURNAL AND THRUST, DRAWING NUMBER: Z-119300, POS: 51, PART SIZE: DIA: 80 MM, PART NUMBER: 4-150000-029, FOR BLOWER, MAKE: KKK, MODEL NUMBER: SFO14	NO
110113697	BEARING,JOURNAL&THRUST,PN:4-151000-012	PART NAME: BEARING, JOURNAL AND THRUST, DRAWING NUMBER: Z-119300, POS: 53, PART SIZE: DIA: 140 MM, PART NUMBER: 4-151000-012, FOR BLOWER, MAKE: KKK, MODEL NUMBER: SFO14	NO
110113698	BEARING,JOURNAL,SFO14,PN:4-151000-014	PART NAME: BEARING, JOURNAL, DRAWING NUMBER: Z-119300, POS: 52, PART SIZE: DIA: 120 MM, PART NUMBER: 4-151000-014, FOR BLOWER, MAKE: KKK, MODEL NUMBER: SFO14	NO
110113700	RING,SEAL,GEARBOX,SFO14,PN:46102374400	PART NAME: RING, SEAL, GEARBOX, DRAWING NUMBER: Z-119300, POS: 127, PART NUMBER: 46102374400, FOR BLOWER, MAKE: KKK, MODEL NUMBER: SFO14	NO
110113706	GEARBOX,BEVEL HELICAL,20:1	GEARBOX, TYPE: BEVEL HELICAL, APPLICATION: CONVEYOR, GEAR RATIO: 20: 1, WITH INTEGRAL HOLD BACK, GEAR BOX FOR CONVEYOR: 15001, (UPGRADED SYSTEM), SIZE: PLC 28 HANDLING R.H, ANTICLOCK, MAKE: ELECON	NO
110113778	ASSY,BOTTOM SHAFT,TEA-200/50	PART NAME: ASSEMBLY, BOTTOM SHAFT, PART MATERIAL: MILD STEEL, DRAWING NUMBER: ATE 10973-12, CONSISTS OF HYDROFOIL IMPELLERS AND ACCESSORIES, MATERIAL: MILD STEEL, RUBBER LINED BY CHLORO BUTYL RUBBER OF SHORE HARDNESS A, ALONG WITH FLANGE COUPLING, FOR REACTOR 2, FOR AGITATOR ETP-3, MAKE: REMI PROCESS, MODEL NUMBER: TEA-300/60	NO

110113795	\$GEAR BOX 30HP ,103.1 - TEA 300/60 AGITA	GEAR BOX FOR REACTOR#1 AGITATOR ,MODEL : TEA-300/60 AGITATOR DRIVE,GEARRATIO: 25/1.SIZE; 103.1P,RPM; 1500 N1,RPM: 58.2 N2,POWER: 30HP,SERIALNO: 82497,MAKE: POWER BUILT LTD,SUPPLIED BY : REMI PROCESS.CONSIST OFONLY GEAR BOX.	NO
110113802	ASSY,GEARBOX,SPIRAL BEVEL,457-201	PART NAME: ASSEMBLY,GEARBOX,SPIRAL BEVEL,GEAR RATIO: 5.5: 1,SERIES: 22.2 T,FOR COOLING TOWER CT-III,MAKE: PAHARPUR COOLING TOWERS LTD,MODEL NUMBER: 457-201,PCT SERIAL NUMBER: G03-2-0017B	NO
110113888	DISC,RUPTURE,CONDENSER,RD-CDS-001	PART NAME: DISC,RUPTURE,PART SIZE: 16 INCH,FOR AIR COOLED CONDENSER,MODEL NUMBER: RD-CDS-001,TYPE: DV,BURST PRESSURE: 1.30 BAR,ABSOLUTE TEMPERATURE: 100 DEG C,BURST TOLERANCE: +/-1.5 PSIG,DOC NUMBER: GCT-226 10-610	NO
110113968	MODULE,COMMN,DRIVE,CAT:1203-GK5	PART NAME: MODULE,COMMUNICATION,CATALOGUE NUMBER: 1203-GK5,TRADE MARK: DEVICENET,SER AFRN: 3.001,FOR DRIVE	NO
110113974	SCANNER,8 CHANNEL,RELAY OUTPUT MODULE	SCANNER,NUMBER OF CHANNELS: 8 CHANNEL,OUTPUT: RELAY OUTPUT MODULE,BRAND NAME: PROFIBUS,MAKE: ALLEN-BRADLEY,MAKE: SST,CATALOGUE NUMBER: SST-PFB-CLX	NO
110114234	\$VALVE PROP 4WRSE-6V35-31/G24K0/A1V REX	PROPORTIONAL VALVE,MODEL: 4WRSE-6V35-31/G24K0/A1VMAKE:REXROTH	NO
110114549	PUMP,OIL,AUX,SFO14,PN:1-345861-028	PART NAME: PUMP,OIL,AUXILIARY,PART NUMBER: 1-345861-028,FOR BLOWER,MAKE: KKK,MODEL NUMBER: SFO 14,REFERENCE NUMBER: R65/200	NO
110114702	RACKINTERFACE,COMM SYS	PART NAME: RACK INTERFACE,REFERENCE: 3500/20-01-02-00,3500/20,TYPE: NOT SELECTED,I/O MODULE,TYPE: NOT SELECTED,SPARES: TMR RACK INTERFACE MODULE,SPARES: RIMI/O-RS232/RS422 INTERFACE,SPARES: DATA MANAGER I/O MODULE,ENG MODS APPROVED: APPROVED,MMS MODES APPROVED: APPROVED,ETMDFUNCTION INPUT: MODIFICATIONS_350020,ETMD FUNCTION RETURN: NO_MISMATCH,TEST DATA OPTION: STANDARD FORMAT DATA,FOR COMMUNICATION SYSTEM	NO
110114705	GATEWAY,MM:3500/92-02-01-00	PART NAME: GATEWAY,MODEL NUMBER: 3500/92-02-01-00,CONFIGURATION: I/O MODULE,TYPE : NOT SELECTED,AGENCY APPROVAL: NOT SELECTED,MEMORY TYPE: NOT SELECTED,3500/92 BEZEL LBL REQUIREMENT: 3500/92 LBL WITHOUT CUSTOM ENTRIES,SPARES: 3500/92,COMMUNICATION GATE WAY MODULE,SPARES: MODBUS RS485 I/O MODULE,ENG MODS APPROVED: APPROVED,MMS MODS APPROVED: APPROVED,ETMD FUNCTION INPUT : MODIFICATIONS_350092,ETMD FUNCTION RETURN: NO_MISMATCH,TEST DATA OPTION: STANDARD FORMAT DATA,FOR COMMUNICATION SYSTEM	NO
110114706	UPS,120VAC,3500/15-A01-B00-C00 BN	POWER SUPPLY,ELECTRICAL,INPUT VOLTAGE RATING: 120 VAC,POWER SUPPLY TYPE TOP SLOT: LOW VOLTAGE AC,POWER SUPPLY TYPE BOTTOM SLOT: NONE,AGENCY APPROVAL: NONE,ENG MODS APPROVED: APPROVED,MMS MODS APPROVED: APPROVED,NUMBER OF POWER SUPPLIES: 1,ETMD FUNCTION INPUT: MODIFICATIONS_350015,ETMD FUNCTION RETURN: NO_MISMATCH,SPARE PARTS ORDERING ONLY: 1,TEST DATA OPTION: STANDARD,FORMAT DATA CUSTOMER/WITNESS TEST: NOT REQUIRED,MAKE: BENTLY NEVADA,REFERENCE NUMBER: 3500/15-A01-B00-C00	NO
110114763	VALVE,CTRL,FLGD,BUTFLY,HAST-C,300NB	VALVE,CONTROL,FLANGED,TYPE: WAFER BUTTERFLY,BODY MATERIAL: HASTELLOY-C,SEAT MATERIAL: TEFLON,LEAKAGE STANDARD: CLASS: VI,AIR SUPPLY PRESSURE: CLASS 150,SIZE: 300 NB,TYPE: HIGH PERFORMANCE DOUBLE ECCENTRIC,DISC & PIN MATERIAL: HASTELLOY-C,FLANGE DIMENSION STANDARD: ANSI B16.5,LINKAGE,WITH ACTUATOR,MAKE: ELO,MODEL NUMBER: PE4000	NO
110115062	ASSY,BACK PULL OUT,PUMP,3K-8X6-14A	PART NAME: ASSEMBLY,BACK PULL OUT,INCLUDING IMPELLER (EXCEPT MECHANICAL SEAL),FOR CENTRIFUGAL PUMP,MAKE: MICROFINISH PUMPS/BDK PUMPS,MODEL NUMBER: 3K-8X6-14A,TAG NUMBER: P001A,P001B,P001C,P001D,FOR REFINERY	NO
110115095	PCB ASSY,RDU,CONTROLLER,PN:79620	PART NAME: PCB ASSY,RDU,PART NUMBER: 79620,FOR CONTROLLER,MAKE: CHEMETICS	NO
110115262	CYLINDER,HYD,CSM,ART:78400	PART NAME: CYLINDER,HYDRAULIC,ARTICLE NUMBER: 78400,FOR CATHODE STACKER ASSEMBLY,FOR CATHODE STRIPPING MACHINE	NO
110115264	CYLINDER,HYD,CSM,ART:6685829	PART NAME: CYLINDER,HYDRAULIC,ARTICLE NUMBER: 6685829,FOR CATHODE STACKER ASSEMBLY,FOR CATHODE STRIPPING MACHINE	NO

110115375	GEAR,APM,AM-10,PN:14216	PART NAME: GEAR,PART NUMBER: 14216,ARTICLE NUMBER: Z2126CUAM110000,FOR ANODE PREPARATION MACHINE IN RECEIVING CONVEYOR,MAKE: OUTOKUMPU,MODEL NUMBER: AM-10	NO
110115402	MOTOR,HYD,APM,AM-20,PN:10782	PART NAME: MOTOR,HYDRAULIC,PART NUMBER: 10782,ARTICLE NUMBER: Z2126CUAM120000,FOR ANODE PREPARATION MACHINE IN TRANSFER DEVICE-1 AND LUG PRESS UNIT,MAKE: OUTOKUMPU,MODEL NUMBER: AM-20	NO
110115408	CYLINDER,HYD,APM,AM-20,PN:38061	PART NAME: CYLINDER,HYDRAULIC,PART NUMBER: 38061,ARTICLE NUMBER: Z2126CUAM120000,FOR ANODE PREPARATION MACHINE IN TRANSFER DEVICE-1 AND LUG PRESS UNIT,MAKE: OUTOKUMPU,MODEL NUMBER: AM-20	NO
110115477	MOTOR,HYD,APM,AM-30,PN:32365	PART NAME: MOTOR,HYDRAULIC,PART NUMBER: 32365,ARTICLE NUMBER: Z2126CUAM130000,FOR ANODE PREPARATION MACHINE IN TRANSVERSE CONVEYOR,MAKE: OUTOKUMPU,MODEL NUMBER: AM-30	NO
110115645	CYLINDER,HYD,CSM,ART:6683980	PART NAME: CYLINDER,HYDRAULIC,ARTICLE NUMBER: 6683980,FOR DOWNENDER ASSEMBLY,FOR CATHODE STRIPPING MACHINE	NO
110115649	CYLINDER,HYD,CSM,ART:6686385	PART NAME: CYLINDER,HYDRAULIC,ARTICLE NUMBER: 6686385,FOR CHISELING UNIT ASSEMBLY,FOR CATHODE STRIPPING MACHINE	NO
110115703	MOTOR,ELEC,SCI,315L,985RPM,110KW,415VAC	MOTOR,ELECTRICAL,TYPE: SQUIRREL CAGE INDUCTION,FRAME SIZE: 315L,NUMBER OF POLE: 6 P,SPEED RATING: 985 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 110 KW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 415 VAC,FOR VF DRIVE,DUTY: S4,MAKE: SIEMENS,MODEL NUMBER: ILAO 316-6YA70-Z	NO
110115704	MOTOR,ELEC,SCI,160L,940RPM,15KW,415VAC	MOTOR,ELECTRICAL,TYPE: SQUIRREL CAGE INDUCTION,FRAME SIZE: 160L,NUMBER OF POLE: 6 P,SPEED RATING: 940 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 15 KW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 415 VAC,DUTY: S4,60% CDF,DISC BRAKE MOUNTED INSIDE THE MOTOR,SHAFT MAKE: EMCO,MAKE: BHARAT BIJLEE LTD,MODEL NUMBER: MC16L675	NO
110115705	BRAKE,ELEC,ELECMGNTC,415VAC,400MM,BCH	BRAKE,ELECTRICAL,TYPE: ELECTROMAGNETIC,TORQUE RATING: 138.8 KGM,VOLTAGE RATING: 415 VAC,SIZE: 400 MM,COIL VOLTAGE: 107 VDC,MAKE: BHARTIA CUTLER HAMMER,CATALOGUE NUMBER: SMH400MR	NO
110115745	BEARING,ROLLER,31310,50MM,110MM,29.25MM	BEARING,ROLLER,TYPE: TAPER,SERIES: 31300,NUMBER OF ROWS: SINGLE,DESIGN STANDARD: ISO 355/DIN 720,STYLE: MEDIUM TYPE,CAGE MATERIAL: PRESSED STEEL,DESIGNATION: 31310,INSIDE DIAMETER: 50MM,OUTSIDE DIAMETER: 110 MM,WIDTH/HEIGHT: 29.25 MM,ANTI FRICTION,DF03,PART NUMBER: 164.01,BOILER FEED PUMP,WASTE HEAT RECOVERY BOILER,PUMP TYPE: MC 80/13,MAKE: SULZER,REFERENCE NUMBER:31310	NO
110115753	SEAL,MECH,PUMP,MC 80/13,PN:433.02	PART NAME: SEAL,MECHANICAL,PART NUMBER: 433.02,FOR FEED CENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: MC 80/13,FOR WASTE HEAT RECOVERY BOILER	NO
110115775	PISTON,AXIAL,PN:PVH-131-Q1C-RF-13S-11	PART NAME: PISTON,AXIAL,PUMP,PART NUMBER: PVH-131-Q1C-RF-13S-11-C25-31,FOR CASTER-3 DUAL POURING DOUBLE ANODE TAKE-OFF MACHINE	NO
110115799	IMPELLER,ZF 400-6500,PN:230.01/503.01	PART NAME: IMPELLER,PART NUMBER: 230.01/503.01,FOR CIRCULATION CENTRIFUGAL WATER PUMP,MAKE:SULZER,MODEL NUMBER: ZF 400-6500,FOR WASTE HEAT RECOVERY BOILER	NO
110115855	RECEIVER,FIBRE OPTIC,PN:A400-A177	PART NAME: RECEIVER,FIBRE OPTIC,PART NUMBER: A400-A177,FOR IMPULSE UNIT,FOR LOCAL CONTROL CUBICLE RECTIFIER,CURRENT RATING: 35 KA	NO
110116087	ARRANGEMENT,LID DRIVE,FURNACE	PART NAME: ARRANGEMENT,LID DRIVE,WITH LID-1 NO,SHAFT-2 NOS,HINGE-6 NOS,COUPLING-1 SET (2 NOS),PIN-10 NOS,COLLAR ARM-8 NOS,BUSH HOUSING-4 NOS,PHOSPHOR BRONZE BUSH-4 NOS,ARM CONNECTING SHAFT-1 NO,SHAFT KEYS-6 NOS,AS PER DRAWING NUMBER: A/F LID/LID LAYOUT,A/F LID/SHAFT 1,A/F LID/SHAFT 2,A/F LID/HINGE 480,A/FLID/SHAFT COUPLING,A/F LID/COLLAR,A/F LID/ARM CONNECTION SHAFT,A/FLID/CLEVIS PIN,A/F LID/BUSH HOUSING,A/F LID/PHOSPHOR BRONZE BUSH,FOR ANODE FURNACE	SET
110116225	PUMP,VARIABLE	PART NAME: PUMP,VARIABLE,DGC PLACEMENT AXIAL PGCTON,REFERENCE: A10VSO71DR/31R-PPA12N00,CASTER1 HYDRAULIC SYSTEM	NO
110116310	CYLINDER,HYD,APM,AM-52,PN:37919	PART NAME: CYLINDER,HYDRAULIC,PART NUMBER: 37919,FOR ANODE PREPARATION MACHINE,MAKE: OUTOKUMPU,MODEL NUMBER: AM-52	NO

110116312	CYLINDER,HYD,APM,AM-52,PN:38074	PART NAME: CYLINDER,HYDRAULIC,PART NUMBER: 38074,FOR ANODE PREPARATION MACHINE,MAKE: OUTOKUMPU,MODEL NUMBER: AM-52	NO
110116336	GEAR,APM,AM-75,PN:21106	PART NAME: GEAR,PART NUMBER: 21106,FOR ANODE PREPARATION MACHINE,MAKE: OUTOKUMPU,MODEL NUMBER: AM-75	NO
110116400	BELLOW,CORUGD,STL,DRG:SM-6-002160-D	PART NAME: BELLOW,CORRUGATED,PART MATERIAL: STEEL,DRAWING NUMBER: SM-6-002160 REV-D,FOR LANCE	NO
110116437	RING,OIL SEAL,BLOWER,PN:38986615	PART NAME: RING,OIL SEAL,PART NUMBER: 38986615,FOR ISA BLOWER,MAKE: DEMAG	NO
110116438	RING,OIL SEAL,BLOWER,PN:33092415	PART NAME: RING,OIL SEAL,PART NUMBER: 33092415,FOR ISA BLOWER,MAKE: DEMAG	NO
110116897	TX,LEVEL,RECTIFIER,PN:A200-A169	PART NAME: TRANSMITTER,LEVEL,PART NUMBER: A200-A169,FOR LOCAL CONTROL CUBICLE RECTIFIER,CURRENT RATING: 35 KA	NO
110116899	LOGIDYN SPU-CAN (PROCESSOR),PN:A300-A00	PART NAME: LOGIDYN SPU-CAN (PROCESSOR),PART NUMBER: A300-A00,FOR LOCAL CONTROL CUBICLE RECTIFIER,CURRENT RATING: 35 KA	NO
110116900	BOARD,INPUT,RECTIFIER	PART NAME: BOARD,INPUT,LOGIDYN DEP 232.1,FOR LOCAL CONTROL CUBICLE,FOR RECTIFIER,CURRENT RATING: 35 KA	NO
110116924	AMPLIFIER,ISOLATION,300/10 V,P8001A1	AMPLIFIER,TYPE: ISOLATION,VOLTAGE RATING: 300/10 V,FOR LOCAL CONTROL CUBICLE RECTIFIER,CAPACITY: 35 KA,MODEL NUMBER: P8001A1	NO
110117057	GEARBOX,DBL REDUCTION WORM,180:1	GEARBOX,TYPE: DOUBLE REDUCTION WORM,APPLICATION: LANCE DRIVE,GEAR RATIO: 180: 1,FOR NEW LANCE DRIVE,DRAWING NUMBER: SM-6-002122-2,MAKE: RADICON DAVID BROWN,MODEL NUMBER: MBU-10C/WAO/S1250	NO
110117058	COUPLING,GEARBOX,DRIVE,MGD135	PART NAME: COUPLING,GEARBOX,EQUIVALENT COMBINED WITH SOCKET SET SCREW 2-OFF ON EACH HALF ONE OVER KEY AND ONE AT 90 DEG TO KEY AS PER DRAWING NUMBER: SM-6-002122-2,BORE GEAR BOX SIDE DIA: 82.52 MAX,82.49 MIN BORE SHAFT SIDE DIA: 120.010 MAX,119.975 MIN,FOR NEW LANCE DRIVE,MAKE: DAVID BROWN,MODEL NUMBER: MGD135	NO
110117064	BLOCK,TAP,CU,FURNACE,DRG:SM-6-002322 R-D	PART NAME: BLOCK,TAP,PART MATERIAL: COPPER,DRAWING NUMBER: SM-6-002322 REV-D,GRADE: CU-ETP IN ACCORDANCE WITH ISO 1337-1980,TAPPING BLOCK SHOULD BE STRICTLY AS PER THE DRAWING,TAPPINGBLOCK SHOULD BE FITTED WITH THE PLUGS AND SPIRAL WOUND GASKETS,THE PLUGS SHOULD BE MADE AS PER THE DRAWING: SM-6-002324 REV C,TAPPING BLOCK SHOULD BE SUPPLIED AFTER HYDROTEST: 5 BAR AT 1 HR,MOC CONFIRMANCE TEST AND DIMENSION INSPECTION AS PER THE PURCHASE ORDER TERMS,ATTACHED DRAWING IN SAP R/3,FOR NEW ISA FURNACE	NO
110117093	CHAIN,CABLE,DRILLING M/C,PN:6009793	PART NAME: CHAIN,CABLE,PART NUMBER: 6009793,REFERENCE NUMBER: SLA320/5/200X2300,FOR NEW ISADRILL TAP MACHINE	NO
110117161	ASSY,DOME VALVE,37839,PN:DV-454 REV-0	PART NAME: ASSEMBLY,DOME VALVE,PART SIZE: 200 NB,PART NUMBER: DV-454 REV-0,COMPRISES OF STAINLESS STEEL DOME WITH ORDINARY TOP PLATE,INSERT SEAL (NEOPRENE),AIR LIMIT SWITCH,PNEUMATIC CYLINDER AND WITHOUT PNEUMATIC PANEL,LOCATION: FITTED AT THE INLET OF THE DENSEVEYOR,FOR PNEUMATIC CONVEYING SYSTEM,MODEL NUMBER: 6/8/3	NO
110117240	BOARD,OUTPUT,RECTIFIER	PART NAME: BOARD,OUTPUT,TYPE: LOGIDYN DAP 232,FOR CONTROL PANEL CUBICLE,FOR 35 KA RECTIFIER	NO
110117241	BOARD,ANALOG I/O,MM:LOGIDYN ADA-232	PART NAME: BOARD,ANALOG INPUT/OUTPUT,MODEL NUMBER: LOGIDYN ADA-232,FOR CONTROL PANEL CUBICLE,FOR 35 KA RECTIFIER-1	NO
110117242	BOARD,MODBUS,RECTIFIER	PART NAME: BOARD,MODBUS,TYPE: LOGIDYN,FOR CONTROL PANEL CUBICLE,FOR 35 KA RECTIFIER	NO
110117244	OPERATOR UNIT,RECTIFIER,PN:K010U4	PART NAME: OPERATOR UNIT,PART NUMBER: K010U4,FOR LOCAL CONTROL CUBICLE RECTIFIER,CURRENT RATING: 35 KA	NO
110117258	THYRISTOR,RECTIFIER,T3709N200	PART NAME: THYRISTOR,MODEL NUMBER: T3709N200,FOR REFINERY RECTIFIER,POWER RATING: 15 KA,VOLTAGE RATING: 30 V	NO
110117309	SCYLINDER HYD PUSHER,ANODE STACKER,ASWM	HYDRAULIC CYLINDER FOR PUSHER FOR ANODE STACKER OF ASWM.	NO
110117317	BEARING,SLEW,STACKING TABLE,ASWM	PART NAME: BEARING,SLEW,FOR ROTATING STACKING TABLE,FOR ANODE SCRAP WASHING MACHINE	NO

110117368	AMPLIFIER,UNIVERSAL ISOLATION,15KA	AMPLIFIER,TYPE: UNIVERSAL ISOLATION,APPLICATION: RECTIFIER,FREQUENCY RESPONSE: 48 TO 62 HZ,GAIN: ERROR: LESS THAN 0.08%,INPUT RATING: VOLTAGE: 20 MV TO 200 V,TERMINAL TYPE: FIXED SCREW,MOUNTING TYPE: METAL LOCK,POWER RATING: 2 VA,TEMPERATURE RATING: -10 TO 70 DEG.C,VOLTAGE RATING: 20 TO 253 VAC/VDC,INPUT CURRENT RATING: 0.1 MA TO 100 MA,FOR REFINERY RECTIFIER,RATING: 15 KA,VOLTAGE RATING: 30 V,MAKE: KNICK,MODEL NUMBER: P27000 F1	NO
110117485	BRAKE,ELCMNTC,CASTER WHEEL,BZFA8/12	PART NAME: BRAKE,ELECTROMAGNETIC,MODEL NUMBER: BZFA8/12,ARTICLE NUMBER: 401-03701,TORQUE RATING: 120 NM,VOLTAGE RATING: 103 VDC,KG: 16,03.03,LUFTSPALT AUS (AIR GAP OFF): 0.4/0.8,FOR TWIN CASTER WHEEL	NO
110117583	SLEEVE,BRG,DE,EZLB 18-200	PART NAME: SLEEVE,BEARING,DRIVE END,FOR ELIN MOTOR,MAKE: RENK,MODEL NUMBER: EZLB 18-200,ID NUMBER: 721 215/04-03	NO
110117584	SLEEVE,BRG,NDE,EFZLQ 18-200	PART NAME: SLEEVE,BEARING,NON-DRIVE END,FOR ELIN MOTOR,MAKE: RENK,MODEL NUMBER: EFZLQ 18-200,ID NUMBER: 721 215/03-03	NO
110117638	CPU UNIT,RECTIFIER,REF:PCBALU202L	PART NAME: CPU UNIT,REFERENCE NUMBER: PCBALU202L,FOR REFINERY RECTIFIER,POWER RATING: 15 KA,VOLTAGE RATING: 30 V	NO
110117642	CARD-4,ANALOG I/P,RECTIFIER,ASBADU204	PART NAME: CARD-4,ANALOG INPUT,MODEL NUMBER: ASBADU204,FOR REFINERY RECTIFIER,RATING: 15 KA,VOLTAGE RATING: 30 V	NO
110117647	AMPLIFIER,IMPULSE,PN:029.063242	PART NAME: AMPLIFIER,IMPULSE,PART NUMBER: 029.063242,FOR REFINERY RECTIFIER,RATING: 15 KA,VOLTAGE RATING: 30 V	NO
110117914	KIT,PUMP,PN:RIC.87-26M1	PART NAME: KIT,PART NUMBER: RIC.87-26M1,FOR HYDRAULIC PUMPING UNIT,MAKE: HAWE,FOR MANUAL SHEAR	NO
110118534	ROOF,BOILER,PART-I,SW 703-01-48-SA622	PART NAME: ROOF,DRAWING NUMBER: SW 703-01-48-SA622,R2,DRAWING NUMBER: SW 703-01-48-SA-622 REV-2 SHEET 1 OF 2 AND 2 OF 2,ITEM NUMBER: I,FOR BOILER	NO
110118542	VALVE,RELIEF,SAFETY,PSV-14 459	VALVE,RELIEF,TYPE: SAFETY,BODY MATERIAL: STAINLESS STEEL,BODY MATERIAL STANDARD: ASTM A351 GRADE CF8M,TRIM MATERIAL: STAINLESS STEEL,FLANGE FACING: RAISED FACE,FLANGE FACING FINISH: STOCK FINISH,FLANGE PRESSURE DESIGNATION: CLASS 150,SET PRESSURE: 1.80 KG/SQ.CMG,INLET CONNECTION: FLANGED,OUTLET CONNECTION: FLANGED,INLET SIZE: 8 INCH,OUTLET SIZE: 10 INCH,TAG NUMBER:PSV-14 459,PROCESS PRESSURE,DETAILS: FULL NOZZLE FULL LIFT,BONNET TYPE: CLOSED,CONVENTIONAL CAP OVER ADJ.BOLT: REQUIRED,BOLTED,LIFTING GEAR TYPE: NOT REQUIRED,TEST GAG: REQUIRED, NOZZLE: AISI 316L,STEM: STAINLESS STEEL,DISC: AISI 316L,SPRING: AISI 302,SEAT: STAINLESS STEEL-316L,OTHER INTERNALS: STAINLESS STEEL-316L,CODE: API520/526/527,SERVICE CONDITIONFLUID AND STATE: GASEOUS OXYGEN,CORROSIVECONSTITUENT: NIL,REQUIRED FLOW CAPACITY: 38210 CUB.NM/HR,MOL.WT: 32,S.D.ATREF TEMP: 1.438,OPERATING PRESSURE: 1.379 KG/SQ.CMG,OPERATING TEMP: (-)180.10 DEG.C,VALVE DISCHARGES TO: ATM,BACK PRESSURE: CONSTANT,% OVER PRESSURE: 10 %,RESET PRESSURE: 1.62 KG/SQ.CMG,CP/CV: 1.46,ORIFICE DETAILS: CALCULATED AREA: 118.29 SQ.CM,SEL.AREA: 168 SQ.CM,ORIFICE DESIGN: T,NO OF VALVE REQD FOR CAPACITY: ONE,TOTAL AREA: 168 SQ.CM,ACTUAL FLOW CAPACITY: 54268.39 CUB.NM/H,FOR O2-2	NO

110118543	VALVE,RELIEF,SAFETY,PSV-14 540	VALVE,RELIEF,TYPE: SAFETY,BODY MATERIAL: STAINLESS STEEL,BODY MATERIAL STANDARD: ASTM A351 GRADE CF3M,TRIM MATERIAL: STAINLESS STEEL,FLANGE FACING: RAISED FACE,FLANGE FACING FINISH: STOCK FINISH,FLANGE PRESSURE DESIGNATION: CLASS 150,SET PRESSURE: 8.0 KG/SQ.CMG,INLET CONNECTION: FLANGED,OUTLET CONNECTION: FLANGED,INLET SIZE: 3/4 INCH,OUTLET SIZE: 1 INCH,TAG NUMBER:PSV-14 540,THERMALEXPANSION,DETAILS: MOD NOZZLE,BONNET TYPE: CLOSED,CONVENTIONAL,CAP OVER ADJ.BOLT: REQUIRED,SCREWED,LIFTING GEAR TYPE: NOT REQUIRED,TEST GAG: REQUIRED,NOZZLE: AISI 316L,STEM: STAINLESS STEEL,DISC: AISI 316L,SPRING: AISI 302,SEAT: AISI 316L,OTHER INTERNALS: STAINLESS STEEL-316L,CODE: ASME VIII DIV,I/ISO 4126-1,SERVICE CONDITION FLUID NAD STATE: LIQUID OXYGEN,CORROSIVE CONSTITUENT: NIL,REQUIRED FLOW CAPACITY: 50 CUB.NM/HR,MOL.WT: 32,S.D.AT REF TEMP: 1.438,OPERATING PRESSURE: 5.197 KG/SQ.CMG,OPERATING TEMP: (-)179.8 DEG.C,VALVE DISCHARGES TO: ATM,BACK PRESSURE: CONSTANT,%OVER PRESSURE: 10%,RESET PRESSURE: 7.2 KG/CM2G,CP/CV: 1.77,ORIFICEDETAILS: CALCULATED AREA: 0.053 CM2,SEL.AREA: 0.283 CM2,ORIFICE DESIGN: B,NO OF VALVE REQD FOR CAPACITY: ONE,TOTAL AREA: 0.283 CM2,FOR O2-2	NO
110118544	VALVE,RELIEF,SAFETY,PSV-14 510	VALVE,RELIEF,TYPE: SAFETY,BODY MATERIAL: STAINLESS STEEL,BODY MATERIAL STANDARD: ASTM A351 GRADE CF8M,TRIM MATERIAL: STAINLESS STEEL,FLANGE FACING: RAISED FACE,FLANGE FACING FINISH: STOCK FINISH,FLANGE PRESSURE DESIGNATION: CLASS 150,SET PRESSURE: 6 KG/SQ.CMG,INLET CONNECTION: FLANGED,OUTLET CONNECTION: FLANGED,INLET SIZE: 4 INCH,OUTLET SIZE: 6 INCH,TAG NUMBER: PSV-14 510,PROCESSPRESSURE,DETAILS: FULL NOZZLE FULL LIFT,BONNET TYPE: CLOSED,CONVENTIONAL,CAP OVERADJ.BOLT: REQUIRED,BOLTED,LIFTING GEAR TYPE: NOT REQUIRED,TEST GAG: REQUIRED,NOZZLE: AISI 316L,STEM: STAINLESS STEEL,DISC: AISI 316L,SPRING: AISI 302,SEAT: STAINLESS STEEL-316L,OTHER INTERNALS: STAINLESS STEEL-316 L,CODE: API 520/526/527,SERVICE CONDITION: FLUID AND STATE: GASEOUS OXYGEN,CORROSIVE CONSTITUENT: NIL,REQUIRED FLOW CAPACITY: 15247 NM3/HR,MOL.WT: 32,S.D.AT REF TEMP: 1.434,OPERATING PRESSURE: 5.099KG/CM2G,OPERATING TEMP: (-)164.1 DEG.C,VALVEDISCHARGES TO: ATM,BACKPRESSURE: CONSTANT,% OVER PRESSURE: 10 %,RESET PRESSURE: 5.40 KG/CM2G,CP/CV: 1.58,ORIFICE DETAILS: CALCULATEDAREA: 19.59 CM2,SEL.AREA: 23.20 CM2,ORIFICE DESIGN:M,NO OF VALVE REQDFOR CAPACITY: ONE,TOTAL AREA: 23.20 SQ.CM,FOR O2-2	NO
110118795	SPROCKET,CONVEYOR,H-800/290	PART NAME: SPROCKET,FOR DRAG CHAIN CONVEYOR,MAKE: BUHLER,GERMANY,MODEL NUMBER: H-800/290,FOR EVAPORATOR,FOR WASTE HEAT RECOVERY BOILER	NO
110118813	VALVE,AUTOMATIC RECIRCULATION,TDM107UVW	PART NAME: VALVE,AUTOMATIC RECIRCULATION,REFERENCE NUMBER: TDM107UVW-CS,REFERENCE NUMBER: TDM107UVW-CS-00,BFWP,VALVE INLET: DN 3 INCH PN,900 LBS,CODE: ANSI B 16,VALVE OUTLET: DN 3 INCH PN,900 LBS CODE: ANSI B 16,BYPASS: DN 1.5 INCH,INSTALLATION: VETIKAL,MATERIAL HOUSING: A105,INTERNALS: NIRO,SEALS: EPDM,MEDIUM: BOILER FEED WATER,OPERATING TEMPERATURE: 105 DEG.C,FORBOILER FEED WATER PUMP	NO
110118854	MOTOR,ELEC,SCI,1475RPM,75KW,415VAC	MOTOR,ELECTRICAL,TYPE: SQUIRREL CAGE INDUCTION,NUMBER OF POLE: 4P,SPEED RATING: 1475 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 75 KW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 415 VAC,MAKE: KOLMEKS,MODEL NUMBER: WP-DF250 MN-H	NO

110118947	TX,FLOW,3095MA2CJ0013AA10NABS5	TRANSMITTER,FLOW,TYPE: MULTI VARIABLE,SENSOR TYPE: RTD,PROTOCOL TYPE: HART,CONDUIT ENTRY SIZE: 1/2 TO 14 NPT,PRESSURE RATING: 0-2.5 TO 0-250 INCH WC,SERVICE: OXYGEN,OUTPUT: 4 TO 20 MAWITH DIGITAL SIGNAL,STATIC PRESSURE RANGES: 0-8 TO 0-800 PSIG,ISOLATOR MATERIAL: STAINLESS STEEL-316L,T-FILL FLUID: INERT,FLANGE STYLE,MATERIAL: NONE (REQUIRED FOR OPTION CODE S5),DRAIN/VENT MATERIAL: NONE (REQUIRED FOR OPTION CODE S5),O-RING: GLASS FILLED TFE,PROCESS TEMPERATURE INPUT (RTD ORDERED SEPARATELY): RTD,INPUT WITH 12 FT (3.66 M) OF ARMoured,SHIELDED CABLE,TRANSMITTER,HOUSING MATERIAL: POLYURETHANE COVERED,ALUMINIUM CONDUIT,TERMINAL BLOCK: STANDARD,METER: LCD METER,BRACKET: NONE,BOLTS: NONE,APPROVALS: FACTORY MUTUAL (FM),EXPLOSION PROOF,MASS FLOW AND MEASURED VARIABLES (DP,P & T),OPTIONS: ASSEMBLY WITH ROSEMOUNT 305 INTEGRALMANIFOLD,MAKE: EMERSON,MODEL NUMBER: 3095MA2CJ0013AA10NABS5	NO
110119233	BLADE,IMP,AGITATOR,TEA-75/75,PN:8	PART NAME: BLADE,IMPELLER,PART MATERIAL: STAINLESS STEEL-904L,DRAWING NUMBER: ATE-10940-12/R0,PART NUMBER: 8,ITEM NUMBER: 12/04/305 A,B,C,WITH BOSS,FIN AND FASTENER TOP+BOTTOM,FOR AGITATOR,MAKE: REMI,MODEL NUMBER: TEA 75/75,FOR SLIME DETELLURISATION TANK	SET
110119381	MOTOR,ELEC,SHUNT,AFS 280 S,3000RPM,37KW	MOTOR,ELECTRICAL,TYPE: SAPERATLY EXCITED SHUNT,ENCLOSURE: IP55,MOUNTING TYPE: B3,INSULATIONCLASS: CLASS H,FRAME SIZE: AFS 280 S,SPEED RATING: 3000 RPM,POWER RATING: 37 KW,CURRENT RATING: 1.3/196 A,VOLTAGE RATING: 220 VDC,DUTY: S1	NO
110119417	VALVE,DC,565464,KFDG4V 52C 50N,VICKERS	VALVE,DIRECTIONAL CONTROL,TYPE: PROPORTIONAL,SPOOL TYPE: CLOSED CENTRE ALL PORTS,SPOOL/SPRING ARRANGEMENT: SPRING CENTERED,DBL SOLENOID,MOUNTING TYPE: SUB PLATE,OPERATION TYPE: SOLENOID,MAKE: VICKERS,PART NUMBER: 565464,MAKE: VICKERS,MODEL NUMBER: KFDG4V 5 2C 50N Z M U1 H7 20	NO
110119419	AMPLIFIER,PWR,EEA-PAM-533-C-32,VICKERS	AMPLIFIER,TYPE: POWER,APPLICATION: PROPORTIONAL VALVE,GAIN: 10%/V,MOUNTING TYPE: METAL ENCLOSURE,POWER RATING: 50 W,TEMPERATURE RATING: 0 TO 50 DEG.C,VOLTAGE RATING: 24 VDC,SOLENOID CURRENT RATING: 2.7 A,FOR PROPORTIONAL VALVE,MODEL NUMBER: KF-G4V-3,ASSEMBLY NUMBER: 02-326031,MAKE: EATON-VICKERS,MODEL NUMBER: EEA-PAM-533-C-32	NO
110119420	AMPLIFIER,PWR,EEA-PAM-525-C-32,VICKERS	AMPLIFIER,TYPE: POWER,APPLICATION: PROPORTIONAL VALVE,GAIN: 10%/V,MOUNTING TYPE: METAL ENCLOSURE,POWER RATING: 50 W,TEMPERATURE RATING: 0 TO 50 DEG.C,VOLTAGE RATING: 24 VDC,SOLENOID CURRENT RATING: 1.6 A,FOR PROPORTIONAL VALVE,MODEL NUMBER: K-G4V-5,ASSEMBLY NUMBER: 02-326030,MAKE: EATON-VICKERS,MODEL NUMBER: EEA-PAM-525-C-32	NO
110119444	KIT,IR SOURCE,04104C1,PN:S1210923	PART NAME: KIT,IR SOURCE,PART NUMBER: S1210923,FOR CO2 AND N2O ANALYZER,MAKE: SERVOMAX,MODEL NUMBER: 04104C1: S1PS-45-G-G-G-0-0-0-X-X-X-0-X-0-2-1-1-0	NO
110119689	PUMP,VACUUM,SL,5300 CUB.M/HR,660MM OF HG	PUMP,VACUUM,TYPE: SL,MATERIAL: STAINLESS STEEL-316L,CAPACITY: 5300 CUB.M/HR,VACUUM: 660 MM OF HG,PUMP SERIAL NO: 10-04/078,DUTY POINT: 4200 CUB.M/HR AT 610 MM HG,DRIVE: V BELT,PUMP SUPPLIED WITH THE FOLLOWING STANDARD SUTIALE ACCESSORIES: 1.WATER LINE STAINLESS STEEL BALL VALVE AND G.M CONTROL COCK,2.PULLYE FOR PUMP (CAST IRON) FITTED WITH PUMP,3.PULLEY FOR MOTOR (CAST IRON)IN PRE-BORE,4.SUCTION MANIFOLD (STAINLESS STEEL-316L) DISCHARGE MANIFOLD,5.SILENCER (STAINLESS STEEL-316L),6.Y-TYPE STRAINER FOR WATER LINE,7.PERFORTED PLATE FOR SUCTION FLANGE,MAKE: PPI,MODEL NUMBER: PL 2500	NO
110120210	GEARBOX,MAIN HOIST,CRANE,5 TON	PART NAME: GEAR BOX,FOR MAIN HOIST CRANE,CAPACITY: 5 TON,FOR REFINERY	NO
110120212	GEARBOX,LT,CRANE,DRG:VC44K200,5 TON	PART NAME: GEARBOX,LT,DRAWING NUMBER: VC44K200,FOR CRANE,CAPACITY: 5 TON,FOR REFINERY	NO

110120368	ASSY,IMP&SHAFT,FAN,IERBW2240/980	PART NAME: ASSEMBLY,IMPELLER AND SHAFT,PART MATERIAL: NAXTRA/CARBON STEEL EN-19,FOR CONVERTOR INDUCED DRAFT FAN,MODEL NUMBER: IERBW-2240/980,FLUID HANDLED-DUST LADEN FLUE GAS,FLUID HANDLED TEMPERATURE RATING: 375 DEG.C,WORKING CAPACITY: 147 CUB.M/SEC,DENSITY: 0.0593 KG/CUB.M,STATIC PRESSURE: 161 MMWC,TOTAL PRESSURE: 167 MMWC,TOTAL HEAD: 283 MGCL,MAXIMUM SPEED: 980 RPM,FIRST CRITICAL SPEED: 30% ABOVE OPERATION SPEED BLADE TYPE: BACKWARD CURVED,FAN DESIGN EFFICIENCY: 82%	NO
110120441	ASSY,WHEEL,CT DRIVE,CRANE,PN:OW4B1510	PART NAME: ASSEMBLY,WHEEL,CT DRIVE,PART NUMBER: OW4B1510,FOR CRANE,CAPACITY: 24/5 TON,FOR REFINERY	NO
110120442	ASSY,WHEEL,CT IDLER,CRANE,PN:OW4B1560	PART NAME: ASSEMBLY,WHEEL,CT IDLER,PART NUMBER: OW4B1560,FOR CRANE,CAPACITY: 24/5 TON,FOR REFINERY	NO
110120446	GEARBOX,HELICAL,MAIN HOIST,PN:OHH23CCH	PART NAME: GEARBOX,HELICAL,MAIN HOIST,PART NUMBER: OHH23CCH,TYPE: HR-850,GEAR RATIO: 23.34:1,FOR CRANE,CAPACITY: 24/5 TON,FOR REFINERY	NO
110120635	BEARING,ROLLER,22230CCK/W33,150MM,73MM	BEARING,ROLLER,TYPE: SPHERICAL,SERIES: 22200 CCK/W33,DESIGNATION: 22230 CCK/W33,INSIDE DIAMETER: 150 MM,OUTSIDE DIAMETER: 270 MM,WIDTH/HEIGHT: 73 MM,TAPERED BORE,MAKE: SKF,REFERENCE NUMBER: 22230 CCK/W33,MAKE: FAG,REFERENCE NUMBER: 22230 CCK/W33	NO
110121559	GEARBOX,25.6:1	GEARBOX,GEAR RATIO: 25.6: 1,WITH HOLD BACK ASSEMBLY,MAKE: GREAVES,MODEL NUMBER: RH-H2-125	NO
110121590	SLEEVE,ELASTOMER,VALVE,PN:03897.57	PART NAME:SLEEVE,ELASTOMER,PART MATERIAL:EPDM-HTP,PART NUMBER:03897.57,FOR VALVE,MAKE:TYCO,SIZE:30 INCH,PRODUCT CODE: KGA30-HC-D11HR10Z,BODY PRESSURE/TEMPERATURE:90 PSI/300 DEG.F,SERIAL NUMBER:9299191499	NO
110121638	ASSY,ROTATING,PUMP,CAHRK 600F	PART NAME: ASSEMBLY,ROTATING,CONSISTS OF BEARING FRAME (ITEMNO.1),BEARING HOUSING (ITEM NO.2),COVER PUMP SIDE (ITEM NO.4),COVER DRIVE SIDE (ITEM NO.5),BEARINGTHRUST RING (ITEM NO.6A),DEFLECTOR DISC (ITEM NO.9),DRIVING SHAFT (ITEM NO.59),BEARING LOCK NUT(ITEM NO.92),BEARINGS (ITEM NO.R1,R4) AND ITEM NO.RA,S1,F1,F2,G1 AND O-RING,FOR CENTRIFUGALPUMP,MAKE: ENSIVAL,MODEL NUMBER: CAHRK 600F,FABRICATION NUMBER: 04.20854.00,ENERGY EFFICIENTPUMP	NO
110122271	GEARBOX,183 KW,20:1,CONV-9,ELECON	GEARBOX,APPLICATION: CONVEYOR-9,POWER RATING: 183 KW,GEAR RATIO: 20: 1,NR: 24973,HALS: 305/1,INPUT: 1500,OUTPUT: 75,FOR CONVEYOR-9,MAKE: ELECON,REFERENCE NUMBER: PC 25 R1-1-V-42-20/1-Z0	NO
110122367	\$MODULE INTECONT PLUS VEG20610	\$MODULE INTECONT PLUS VEG20610NOMODULE INTECONT PLUSTYPE: VEG20610 / VDB20600POWER SUPPLY : 24VDCSPEED (RPM) INPUT(NAMUR LEVEL 0.04 - 3000 Hz)LOAD CELL INPUT(Rmin 80 O)ANALOG INPUT, GALVANICALLY NON-ISOLATEDFOR EXTERNAL SETPOINT 0-20mA)BELT CIRCUIT PULSE (NAMUR LEVEL)3 POTENTIAL FREE DIGITAL INPUTS3 RELAY OUTPUTS1 ANALOG OUTPUT 0-20mA / 4-20mAWITH MODBUS COMMUNICATION MODULEWITH NECESSARY MOUNTING BRACKETSWITH PLUG-IN TYPE CONNECTORS FOR ALL THE TERMINALS ON THE BACKSIDE.MAKE: SCHENCK PROCESSAPPLICATION: FOR WEIGHFEEDERS"	0
110122503	VALVE,SHUT-OFF,MOTRISED,FLGD,65MM,MAXON	VALVE,SHUT-OFF,TYPE: MOTRISED ON-OFF,END CONNECTION: FLANGED,NOMINAL SIZE: 65 MM,5000 OFB MAXO -1 NO,O2,5000 NEW OFB,2 2 -0 TRIM W/VCS2,VOS2 SWITCH SET,SERVICE: OXYGEN UPTO 125 PSIG,200 FPS,BODY TRIM: 2-2 TRIM,STANDARD: ANSI,FACING FLANGE: RISED FACED,MIN FUEL/AMBIENT TEMPERATURE: -20 F,MAX FUEL TEMPERATURE: 140 F,MOTOR VOLTAGE: 115 V,FREQUENCY: 50 HZ,MOTOR TIMING:6 SECS,SOLENOID VOLTAGE: 115 V,FREQUENCY: 50 HZ,ENCLOSURE RATING: NEMA 4VOS SWITCH: VOS -2 SWITCHVCS,SWITCH: VCS-2 SWITCH,TERMINAL BLOCK: 12 CONNECTION,TOP ASSEMBLY POSITION: RIGHT,MOPD RATING: 30,MOTOR CURRENT RATING: 2.8 A,SOLENOID CURRENT RATING: 32 A,SEC: 50/3.4,MAKE: MAXON,MODEL NUMBER: 250CMA11-BC24-AA22A0,MAKE: SWITCHITCH,PART NUMBER: 2.5 INCH 5000 CP	NO

110122505	VALVE,SHUT-OFF,MOTRISED,THRD,40MM,MAXON	VALVE,SHUT-OFF,TYPE: MOTRISED ON-OFF,END CONNECTION: THREADED,NOMINAL SIZE: 40 MM,5000 OFB MAXO,2 NEW OFB,W/VCS2,SERVICE: AIR,BODY TRIM: 1-1 TRIM,STANDARD: ANSI THREADED,MIN FUEL/AMBIENT TEMPERATURE RATING: -20 F,MAX AMBIENT TEMPERATURE RATING: -140 F,MAX FUEL TEMPERATURE RATING: 140 F,MOTOR VOLTAGE: 115 V,FREQUENCY: 50 HZ,MOTOR TIMING: 6 SECS,SOLENOID VOLTAGE RATING: 115 V,FREQUENCY: 50 HZ,ENCLOSURE RATING: NEMA 4,VOS SWITCHITCH: VOS -2 SWITCHITCH,VCS SWITCHITCH: VCS -2SWITCHITCH,TERMINAL BLOCK: 12 CONNECTION,TOP ASSEMBLY POSITION: RIGHT,MOPD RATING: 70,MOTOR CURRENT: 1.7 A,SOLENOID CURRENT: 0.19 A,SEC: 70/4.8,PART NUMBER: 1.5 INCH 5000,MAKE: MAXON,MODEL NUMBER: 5000 2	NO
110122631	SWITCH,SHORTING,50 KA	SWITCH,TYPE: SHORTING,CURRENT RATING: 50 KA,FOR VACUUM CONTACT CELL OF CELL HOUSE REFINERY,MAKE: WATTEREDGE-UNIFLEX	NO
110122811	PUMP,GEAR,69 LPM,1430RPM	PUMP,GEAR,CAPACITY: 69 LPM,SPEED RATING: 1430 RPM,OPERATING PRESSURE RATING: 10 BAR,AUXILLARY OIL PUMP,CLOCKWISE,MEDIUM: ISO VG 46,MAXIMUM VISCOSITY: 400 SQ,MM/S/5 DEG.C,DRG.NO.: 330023-3,MAKE: RICKMEIER GMBH,MODEL NUMBER: R35/50 FL-Z	NO
110122955	MOTOR,ELEC,SCI,280M,2970RPM,90KW,415VAC	MOTOR,ELECTRICAL,TYPE: SQUIRREL CAGE INDUCTION,MOUNTING TYPE: B3-FOOT,FRAME SIZE: 280M,NUMBER OF POLE: 2P,SPEED RATING: 2970 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 90 KW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 415 VAC	NO
110122956	MOTOR,ELEC,SHUNT,G3A 112S,1450RPM,1.5KW	MOTOR,ELECTRICAL,TYPE: SAPERATLY EXCITED SHUNT,MOUNTING TYPE: B3-FOOT,FRAME SIZE: G3A 112S,SPEED RATING: 1450 RPM,POWER RATING: 1.5 KW,CURRENT RATING: 0.74/8.3 A,VOLTAGE RATING: 220 VDC,MAKE: GRUPPCO INDUSTRIES ERCOLE MAVELLI SPA	NO
110122961	MOTOR,ELEC,DC,GH 280 K,1000RPM,306 KW	MOTOR,ELECTRICAL,TYPE: DC,APPLICATION: AIR BLOWER,MOUNTING TYPE: B3-FOOT,FRAME SIZE: GH 280K,SPEED RATING: 1000 RPM,POWER RATING: 306 KW,CURRENT RATING: 834/11.7 A,VOLTAGE RATING: 400/220 V,B3,SAPERATLY EXCITED SHUNT MOTOR,MAKE: ASI ROBICON,ITALY	NO
110122962	MOTOR,ELEC,SHUNT,G 100L,1500RPM,7.7KW	MOTOR,ELECTRICAL,TYPE: SAPERATLY EXCITED SHUNT,MOUNTING TYPE: B3-FOOT,FRAME SIZE: G 100L,SPEED RATING: 1500 RPM,POWER RATING: 7.7 KW,CURRENT RATING: 1.93/23 A,VOLTAGE RATING: 220/400 VDC,MAKE: ASI ROBICON,ITALY	NO
110122963	MOTOR,ELEC,SHUNT,G 80G,1800RPM,4.4KW	MOTOR,ELECTRICAL,TYPE: SAPERATLY EXCITED SHUNT,MOUNTING TYPE: B3-FOOT,FRAME SIZE: G 80G,SPEED RATING: 1800 RPM,POWER RATING: 4.4 KW,CURRENT RATING: 1.3/13.8A,VOLTAGE RATING: 220/400 VDC,MAKE: ASI ROBICON,ITALY	NO
110123197	FLAME SCANNER MODEL:DSF-2000-MB-UV COEN	FLAME SCANNER MODEL:DSF-2000-MB-UV COEN,MODEL : DSF-2000-MB-UV, PART NO.:2653 - 213 - 02, CABLE: 2 CABLES 10 FT (3M) LONG, WEIGHT: 3.4 LB(1.54,,KG), MOUNTING CONNECTION: 1" NPT(F),PURGE AIR FLOW: 5 SCFM (0.134,,NM3/MIN), PURGE AIR PRESSURE: 5" WC (127 MM H2O), ELECTRICALLY ASSITEDSIGHTING INDICATOR (LED)-REQUIRED, OPTICS: QUARTZ LENS, SENSOR TYPE:SOLID -STATE, SENSOR RANGE: UV PEAK AT 350 NM AND IR PEAK AT 700NM,DIGITAL COMM: RS232/RS485, SERIAL COMM, UP TO 127 SCANNERS, HOSINGMATERIAL: ANODIZED ALUMINIUM, HUMIDITY: 0 - 100% RELATIVE HUMIDITY,CONDENSING POWER REQUIREMENT: 24 +/- 4 V, FLAME RELAY CONTACT: NORMALLYOPEN VOLTAGE FREE CONTACT, FLAME SIGNAL OUTPUT: 4 - 20 MA, MAKE: COEN,CALIFORNIA. ALONG WITH MOUNTING ARRANGEMENT	NO
110123441	CYLINDER,HYD,DRILLING,63X56X45MM	PART NAME: CYLINDER,HYDRAULIC,DRAWING NUMBER: VE04118.1,PART SIZE: 63 X 56 X 45 MM,STROKE: 60 MM,CARRIAGE LOCKING CYLINDER,FOR CLAY GUN,FOR TAP HOLE DRILLING MACHINE	NO
110123442	CYLINDER,HYD,DRILLING,100X45MM	PART NAME: CYLINDER,HYDRAULIC,DRAWING NUMBER: VE04906.0,PART SIZE: 100 X 45 MM,STROKE: 420 MM,FOR CLAY GUN SWING,FOR TAP HOLE DRILLING MACHINE	NO
110123443	CYLINDER,HYD,DRILLING,125X90MM	PART NAME: CYLINDER,HYDRAULIC,DRAWING NUMBER: VE04116.0,PART SIZE: 125 X 90 MM,STROKE: 750 MM,FOR CLAY GUN RAM,FOR TAP HOLE DRILLING MACHINE	NO
110123513	KIT,SEAL,DRILLING M/C,125X90MM	PART NAME: KIT,SEAL,DRAWING NUMBER: VE04116.0,PART SIZE: 125 X 90 MM,STROKE: 750 MM,FOR HYDRAULIC CARRIAGE LOCKING CYLINDER,MAKE: HYDEC FRANCE,FOR CLAY GUN,FOR TAP HOLE DRILLING MACHINE	NO

110123548	ASSY,OIL TIP,BURNER,PN:44084	PART NAME: ASSEMBLY,OIL TIP,PART NUMBER: 44084,FOR NEW RHF MAXON BURNER	NO
110123549	HOUSING,BURNER,FURNACE,PN:43872	PART NAME: HOUSING,BURNER,PART NUMBER: 43872,FOR NEW RHF,FOR FURNACE	NO
110123558	MOTOR,ELEC,SCI,315S,1460RPM,110KW,415VAC	MOTOR,ELECTRICAL,TYPE: SQUIRREL CAGE INDUCTION,ENCLOSURE: IP55,MOUNTING TYPE: V1-VERTICAL FLANGE,INSULATION CLASS: CLASS F,FRAME SIZE: 315S,NUMBER OF POLE: 4P,SPEED RATING: 1460 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 110 KW,FREQUENCY RATING: 50 HZ +/-5%,VOLTAGE RATING: 415 VAC +/-10%,COOLING: TOTAL ENCLOSED FAN COOLED,TERMINAL BOX POSITION: SIDE,COLOR: EPOXY GREY,EFFICIENCY: EFF1,WITH SHORTER SHAFT LENTH FOR TT2 AGITATOR,WITH CANOPY,WITH SHAFT LENGTH EXTENSION "LE=E=148MM",AS AGAINST THE ORIGINAL DIMENSION: 170 MM,MAKE: SIEMENS,MAKE: ABB,MAKE: TECHO	NO
110123844	ASSY,IMPELLER & SHAFT,IERBW-2100/980	PART NAME: ASSEMBLY,IMPELLER AND SHAFT,FLUID HANDLED-DUST LADEN FLUE GAS,FLUID HANDLED TEMPERATURE: 375 DEG.C WORKING,CAPACITY: 79.12 CUB.M/SEC (WORKING),DENSITY: 0.5964 KG/CUB.M,STATIC PRESSURE: 150 MMWC,TOTAL PRESSURE: 156 MMWC,TOTAL HEAD: 262 MGCL,MAXIMUM SPEED: 980 RPM,FIRST CRITICAL SPEED: 30% ABOVE OPERATING SPEED,BLADE TYPE: BACK WARD CURVED AEROFOIL,FAN DESIGN EFFICIENCY: 82%,MATERIAL: IMPELLER: NAXTRA,SHAFT: CARBON STEEL EN-19,FOR ISA ID FAN,MODEL NUMBER: IERBW-2100/980	NO
110123845	ASSY,IMPELLER & SHAFT,IERBW-2000/590	PART NAME: ASSEMBLY,IMPELLER AND SHAFT,MATERIAL OF IMPELLER: SAILMA 115,SHAFT: EN-8-11,FOR GAS VENTILATION FAN,MODEL NUMBER: IERBW-2000/590,FLUID HANDLED: HOT SULPHUR DIOXIDE,TEMPERATURE: 375 DEG.C,CAPACITY: 47 CU.M/SEC,DENSITY: 1.395 KG/CU.M,STATIC PRESSURE: 150 MM WC,TOTAL PRESSURE: 156 MM WC,TOTAL HEAD: 112 MGCL,MAXIMUM SPEED: 1480 RPM,FIRST CRITICAL SPEED: 40% ABOVE OPERATING SPEED,BLADE TYPE: BACKWARD CURVED,DESIGN EFFICIENCY: 80%	NO
110124060	PUMP,HP1 HYD,PVH131-QIC-RAF-16S-10C25V31	PART NAME: PUMP,HP1 HYDRAULIC,MODEL NUMBER: PVH131-QIC-RAF-16S-10-C25V31,MODEL NUMBER: PVH131R16AF30B252000001AD1A801,FOR CATHODE STRIPPING MACHINE,FOR REFINERY	NO
110124061	PUMP,HP2 HYD,MM:PVH131CRF-13S-10-C2531	PART NAME: PUMP,HP2 HYDRAULIC,MODEL NUMBER: PVH131CRF-13S-10-C2531,MODEL NUMBER: PVH131CRF-13S-11-C2531164,FOR CATHODE STRIPPING MACHINE,FOR REFINERY	NO
110124062	PUMP,HP3 HYD,PVH131-QIC-RSF-13S-10-C2531	PART NAME: PUMP,HP3 HYDRAULIC,MODEL NUMBER: PVH131-QIC-RSF-13S-10-C2531,FOR CATHODE STRIPPING MACHINE,FOR REFINERY	NO
110124079	FEED MOTOR,HYD,PN:6005228	PART NAME: FEED MOTOR,HYDRAULIC,PART NUMBER: 6005228,REFERENCE NUMBER: HV36L,TYPE: TMT	NO
110124205	VALVE,DC,4 WEH 32 E63/6EG24 N9K4,REXROTH	VALVE,DIRECTIONAL CONTROL,TYPE: HYDRAULIC,BODY PRESS APM,MAKE: REXROTH,MODEL NUMBER: 4 WEH 32 E63/6E G24 N9K4	NO
110124238	KIT,SPARE PARTS,RECTIFIER,DRG ITEM:43787	PART NAME: KIT,SPARE PARTS,DRAWING NUMBER: ITEM: 43787,FOR HIGH CURRENT METERING SYSTEM,LKP-45,DCCT,FOR RECTIFIER,MAKE: LEM DYNAMP,CURRENT RATING: 35 KA,SERIAL NUMBER: 03030014,FOR REFINERY	SET
110124286	PUMP,MAIN OIL,GEARBOX DRIVEN,BLOWER	PART NAME: PUMP,MAIN OIL,GEARBOX DRIVEN,FOR CONVERTOR BLOWER,MAKE: KUHNLE KOPP AND KAUSCH,MACHINE TYPE: SFNG 7.1,MACHINE NUMBER: 1007031,CAPACITY: 100 LPM	NO
110124287	KIT,SEAL,LANCE,PN:CX 266194	PART NAME: KIT,SEAL,PART NUMBER: CX 266194,PART NUMBER: CX 266204,15% CARBON STEEL,POLYTETRAFLUOROETHYLENE,OXYGEN SERVICE: 400 KPAG MAXIMUM,MAXIMUM TEMPERATURE: 150 DEG.C,FOR SWIVEL JOINT,MAKE: CONNEX,SIZE: 450 NB,FOR LANCE	SET
110124393	BEARING,SHAFT,LOW SPEED,PN:SKQ31B01D	PART NAME: BEARING,SHAFT,LOW SPEED,PART NUMBER: SKQ31B01D,MATERIAL: S 25 C/WJ 2 EQI.(JIS G 4051/H 5401),FOR CENTRIFUGAL AIR BLOWER,MAKE: INGERSOLL RAND,MODEL NUMBER: XFLO-55H	SET
110124394	BEARING,SHAFT,LOW SPEED,PN:SKQ31C01E	PART NAME: BEARING,SHAFT,LOW SPEED,PART NUMBER: SKQ31C01E,MATERIAL: S 25 C/WJ 2 EQI.(JIS G 4051/H 5401),FOR CENTRIFUGAL AIR BLOWER,MAKE: INGERSOLL RAND,MODEL NUMBER: XFLO-55H	SET

110124505	VALVE,CTRL,FLGD,GLOBE,CS,80NB,MIL	VALVE,CONTROL,FLANGED,TYPE: GLOBE,BODY MATERIAL: CARBON STEEL,BODY MATERIAL STANDARD: ASTM A216 GRADE WCC,ACTUATOR TYPE: DIAPHRAGM,FLANGE FACING: RAISED FACE,FLANGE PRESSURE DESIGNATION: ASME CLASS 900,PACKING MATERIAL: GRAPHITE,PLUG MATERIAL: 17-4 PH,SEAT MATERIAL: STAINLESS STEEL-S316,STELLITE,FLOW DIRECTION: OPEN,LEAKAGE STANDARD: CLASS: V,AIR FAILURE POSITION: STAY-PUT,AIR SUPPLY PRESSURE: 36 PSIG,INSPECTION CERTIFICATE: IBR,TUBE MATERIAL: STAINLESS STEEL,SIZE: 80 NB,SERIES: 41221,TYPE: HEAVY DUTY,CV: 30,CHARACTERISTIC: EQUAL%,STANDARD: ANSI/FCI 70.2,DIMENSION STANDARD: ANSI B16.5,FACE FINISH: SPIRAL 250-500RA,BONNET TYPE: STANDARD,PACKING TYPE : STANDARD,BELLOW MATERIAL: NA,LUBRICATOR: NA,TRIM PLUG TYPE: BALANCED,SEAT TYPE: CLAMPED,CAGE TYPE: STANDARD,CAGE MATERIAL: CA6NM NITRIDED,SEAL TYPE: STATIC SEAL RING,GUIDE: TYPE: CAGE GUIDED,MATERIAL: CA6NM NITRIDED,ACTUATOR MODEL NUMBER: SERIES 38,SIZE: 15 INCH,SPRING PRESSURE RATING: 14 TO 31 PSIG,ACTION: AIR TO OPEN,HAND WHEEL MODEL NUMBER: 6A3,SHUT-OFF PRESSURE: 115 BAR(G),TUBING SIZE: 1/4 INCH NPT,PROCESS CONDITIONS: FLUID: DM WATER,FLOW: 0 TO 60 T/HR,MAX FLOW RATE: 54 T/HR,NORMAL FLOW RATE: 45 T/HR,MIN FLOW RATE: 2.25 T/HR,NORMAL INLET PRESSURE: 93 BAR,MIN INLET PRESSURE: 97 BAR,MAX INLET PRESSURE: 91 BAR,NORMAL OUTLET PRESSURE: 72 BAR,MIN OUTLET PRESSURE: 72 BAR,MAX OUTLET PRESSURE: 72 BAR,MIN PRESSURE DROP: 25 BAR,MAX PRESSURE DROP: 19 BAR,NORMAL PRESSURE DROP: 21 BAR,MIN,MAX,NORMAL TEMPERATURE: 105 DEG.C,MIN VAPOUR PRESSURE: 1.211 BAR,MAX VAPOUR PRESSURE: 1.211 BAR,NORMAL VAPOUR PRESSURE: 1.211 BAR,MIN,MAX,NORMAL: 9555,MIN,MAX,NORMAL VISCOSITY: 1 CPO,CF (MAX): 0.940,CF (MAX): 0.927,CF (MAX): 0.922,CALCULATED CV(MIN): 0.534 CALCULATED NORMAL CV: 11.66 CALCULATED CV(MAX): 14.71 INLET	NO
110124617	VALVE,CTRL,FLGD,BUTFLY,700MM,ORBINOX	VALVE,CONTROL,FLANGED,TYPE: BUTTERFLY,BODY MATERIAL: H II(1.0425),ACTUATOR TYPE: DOUBLE ACTING JACK,FLANGE FACING: RAISED FACE,FLANGE PRESSURE DESIGNATION: ASME CLASS 150,PACKING MATERIAL: GRAPHITE,SHAFT MATERIAL STANDARD: X20CR13 1.4021,AIR FAILURE POSITION: STAY-PUT,AIR SUPPLY PRESSURE: 4.55 BARG,SIZE: 700 MM,TYPE: 3 LEVER,TAG NUMBER: KV14203,NORMAL PRESSURE: 5.55 BAR (ABS),DIFFERENTIAL PRESSURE AT THE DISC: 4.55/0.066 BAR,TEMPREATURE: 290 DEG.C/21 DEG.C,AIR FLOW: 74650 CUB.NM/HR,WASTE NITROGEN FLOW: 15220 CUB.NM/HR,PORT: INTEGRAL,FUNCTION: ISOLATION,ND 28INCH,PRESSURE RATING: PN 10,OBTURATING SYSTEM TYPE: THREE LEVER ROTATING DISC,SEALING SYTEM: FRONTAL SEAT,SEALING EFFICIENCY: CLASS IV-2 ACC TO AL STD,DISC MATERIAL: H II REINFORCED SKWASS,SEAL: HECKER AK-2749,BEARING: DEVA 65-28-8-2YI-W3100,CLEANLINESS: REQUIRED,OIL CLEANING,TECHNOLOGY BODY: WELDED CONSTRUCTION,DISC: EXC DISC WITH REINFORCED PORT,BEARINGS: SELF LUBRICATING WITHOUT OIL,REFERENCE: CNOMO,ACTAUTOR MAKE: ORBINOX,GASKET MATERIAL: VITON,INNER PROTECTION: PARKLOB,DIFF PRESSURE AT THE OBT SYSTEM: 5.5 BAR,MAX DIFFERENTIAL PRESSURE: 0.15 BAR G FOR OPENING OF DISK,OPENING TIME AND CLOSING TIME: 2 SEC,ACCESSORIES: SOLENOID VALVE MAKE: ASCO,WXPB 344.82,MO 1/2 INCH,VOLTAGE: 110 V,FREQUENCY: 50 HZ,SIZE: 1/2 INCH,LIMIT SWITCH: MICRO SWITCH,ENCLOSER: IP 65,NO OF CONTACTS: 2NO+2NC,POWER RATING: 110 VAC,FREQUENCY: 50 HZ,CHECK VALVE AND REDUCER VALVE: REQUIRED,REFERENCE: S/839 (MARTON AIR),FLEXIBLE PIPE LENGTH: 1.5 M,TUBE FITTING: UNION FOR OD 12 MM,FLOW REQUATORS: 2 NOS,SIZE: 1/2 INCH NPT (F),TSA O2 PLANT-2,MAKE: AUTOCLAVE	NO
110124651	CYLINDER,HYD,APM,AM-52,PN:37918	PART NAME: CYLINDER,HYDRAULIC,PART NUMBER: 37918,FOR 6020 32/18-80 HYDRAULIC CYLINDER,FOR ANODE PREPARATION MACHINE SIDE MILLING UNIT,MAKE: HYDORING,MODEL NUMBER: AM-52	NO
110124693	MOTOR,SHUNT,KLDC225SLN,1500RPM,187KW	MOTOR,ELECTRICAL,TYPE: SAPERATLY EXCITED SHUNT,MOUNTING TYPE: B3-FOOT,FRAME SIZE: KLDC225SLN,SPEED RATING: 1500 RPM,POWER RATING: 187 KW,CURRENT RATING: 9.5/467 A,VOLTAGE RATING: 220/440 VDC,IDENTICAL TO MACHINE NUMBER: 930888-01,MAKE: KIRLOSKAR	NO
110124838	CARD,MAIN CTRL,CONVERTER,PN:AP700.101	PART NAME: CARD,MAIN CONTROL,PART NUMBER: AP700.101,FOR RBF DC CONVERTER	NO

110124925	STARTER,SIRIUS DIGITAL SOFT,3RW44-44-6	STARTER,MOTOR,TYPE: SIRIUS DIGITAL SOFT,NUMBER OF PHASE: 3 PH,CURRENT RATING: 185 TO 250 A,VOLTAGE RATING: 200 TO 460 V,START & STOP,ADJUSTABLE CURRENT LIMIT,ENERGY SAVING,INTERGRATEDMICROPROCESSOR BASED OVERLOAD,RELAY,THERMISTOR PROTECTION THROUGH PTC,PROGRAMMABLE 4 INPUTSAND 3 OUTPUTS,CREEP SPEED MODE FOR BOTH DIRECTIONS AND CLOSED LOOP TORQUE CONTROL,MAKE: SIEMENS,MODEL NUMBER: 3RW44-44-6BC-4	NO
110125629	ŠANTI COLLISION SYSTEM , LASERGAURD	LASERGAURD ANTI-COLLISION SYSTEM, FOR EOT CRANES, OPERATING RANGE :10FTTO 150 FT, LASER RATING :CERTIFIED CLASS-1, CONTROL OUTPUTS : THREERELAY, CONTACTS RATED FOR 270V AC 10 AMPS FAULT OUTPUT- ONE CONTACT 10AMPS, POWER SOURCE 90 TO 130 VOLTS AC, OPERATING TEMP : -30 TO +70 DEGC, ENCLOSURE : NEMA4 RATING, SYSTEM COMPLETE WITH LASER UNIT, LASERSUPPORT UNIT AND REFLECTIVE, PANEL TO PROTECT ONE CRANE IN ONE,DIRECTION ONLY, MAKE : MAGNETEK.	NO
110126049	CHAMBER,FURNACE,CS211X5A	PART NAME: CHAMBER,MODEL NUMBER: CS211X5A,FOR AUTO CO CONTROL IN CCR,FORSOLID TUBE FURNACE,MAKE: THERMOLYNE,VOLTAGE RATING: 240 V,FREQUENCY RATING: 50 HZ,POWERRATING: 1250 W	NO
110126122	ASSY,ELEMENT,COUPLING,10GBH-315-S	PART NAME: ASSEMBLY,ELEMENT,DRAWING NUMBER: 03091-00,FOR LOW SPEED FLEXIBLE COUPLING,MAKE: EUROFLEX TRANSMISSIONS (INDIA) LTD,MODEL NUMBER: 10GBH-315-S,FOR STG	SET
110126149	CYLINDER,HYD,SENSOR	PART NAME: CYLINDER,HYDRAULIC,FOR TANDEM SENDOR,FOR SENSOR,12 MTON/HR CCR LINE	NO
110126278	VALVE,CTRL,PR REGULATOR,Ci,25MM,1098EGR	VALVE,CONTROL,TYPE: PRESSURE REGULATOR,BODY MATERIAL: CAST IRON,ACTUATOR TYPE: DIAPHRAGM,END CONNECTION: THREADED,AIR SUPPLY PRESSURE: 2.5 TO 60 PSI,SIZE: 25 MM,GAS REGULATOR WITH DIAPHRAM ACTUATOR,LINEAR FLOW CHARACTERISTIS,100% CAPACITY TRIM,INCLUDES TYPE P594-1 FILTER,PILOT TYPE: 6352,PILOT SPRING RANGE: 2-10 PSIG,PORT DIA: 1-5/16 INCH,FOR CCR SHAFT FURNACE GAS TRAIN,MAKE: FISHER,MODEL NUMBER: 1098 EGR	NO
110126962	GEARBOX,CRANE,DRG:6457300 REV-0	PART NAME: GEAR BOX,DRAWING NUMBER: 6457300 REV-0,FOR HOIST CRANE-2,MAKE: MUKAND LTD	NO
110127539	SHAFT,MILL,DRG:L57-2	PART NAME: SHAFT,DRAWING NUMBER: L57-2,FOR ROUGHING MILL,MAKE: CONTINUUS PROPERZI SPA,TYPE:L57-1/4,L54 2H STRAND,WITH VERTICAL AXIS I: 280,SHEET 1 OF SHEET 2	NO
110127540	TRANSMISSION UNIT,MILL,DRG:L40-4	PART NAME: TRANSMISSION UNIT,DRAWING NUMBER: L40-4,FOR ROUGHING MILL,MAKE: CONTINUUS PROPERZI SPA,TYPE: L40,2H STRAND,WITH VERTICAL AXIS,SHEET 1 OF SHEET 2	SET
110127541	MOUNTING ROLLS,INJECTION PUMP,A/1.L57-1	PART NAME: MOUNTING ROLLS,INJECTION PUMP,DRAWING NUMBER: A/1.L57-1,MOUNTING: DISMOUNTING TOLL FOR ROLLS,I: 280,MAKE : CONTINUUS -PROPERZI SPA.,FOR INJECTION PUMP	NO
110127542	PUSH-PULL MOUNTING ROLL,PUMP,A/1.L57-1	PART NAME: PUSH-PULL MOUNTING ROLL,DRAWING NUMBER: A/1.L57-1,FOR PUMP,MAKE: CONTINUUS PROPERZI,MOUNTING DISMOUNTING TOLL FOR ROLLS,I: 280,SPA	NO
110127546	GEARBOX,REGULATOR,29CV	PART NAME: GEAR BOX,COPPER CASTING MACHINE,DESIGNATION NUMBER: V117-1 M1/1,C4-6/44,C4-6/39,FOR AUTOMATIC FLOW REGULATOR,MODEL NUMBER: 29CV	NO
110127867	GEARBOX,HOIST,CCR-PM C339,5 MTON	PART NAME: GEAR BOX,DRAWING NUMBER: S-1-1004-00,ITEM: REDUCER,TYPE: HORIZONTAL,RATIO: 70.21: 1, YEAR OF MFG: DEC 2004,SIZE: HR,FOR SKIP HOIST,MAKE: PETRON,MODEL NUMBER: CCR-PM C339,CAPACITY: 5 MTON	NO
110128404	GEARBOX,CASTING M/C	PART NAME: GEAR BOX,BHVC M RGF,TIPO: 7-2.D,MONT.P,RAPP: 230-1,PSO.4,REFERENCE NUMBER: 898335S. P.A,MILANI,FOR CASTING MACHINE	NO
110128406	GEARBOX,COILER BASKET,REF:898766	PART NAME: GEAR BOX,REFERENCE NUMBER: 898766,TIPO: WO,INT.4,RAPP: 70/1 POS.12,BELT DETAILS:POWER GRIP 450H,S.P.A,MILANI,HOLROYD,FOR COILER BASKET	NO
110129109	VCB,44 KA,12 KV,1250 A,3AH3 1250A,SIE	BREAKER,CIRCUIT,VACUUM,BREAKING CAPACITY: 44 KA,VOLTAGE RATING: 12 KV,CURRENT RATING: 1250 A,SHORT CIRCUIT CURRENT FOR TIME: 3 SEC,UP=75 KV,DUTY: 0-3 MIN-CO-3 MIN-CO,MAKE: SIEMENS,MODEL NUMBER: 3AH3116-2Z	NO
110129341	GEARBOX,BEVEL HELICAL,20:1,1500RPM,BC-6	GEARBOX,TYPE: BEVEL HELICAL,MOUNTING TYPE: SHAFT,POWER RATING: 22 KW,GEAR RATIO: 20: 1,SPEED RATING: 1500 RPM,FOR BC-6 CONVEYOR,MAKE: ROSSI,MODEL NUMBER: RC21 200 U02A	NO

110129342	GEARBOX,BEVEL HELICAL,9.3 KW,16:1,BC-7	GEARBOX,TYPE: BEVEL HELICAL,MOUNTING TYPE: SHAFT,POWER RATING: 9.3 KW,GEAR RATIO: 16: 1,SPEED RATING: 1500 RPM,FOR BC-7 CONVEYOR,MAKE: ROSSI,MODEL NUMBER: RC1 125 U02A	NO
110130290	SHAFT,MILL STAND,DRG:L69-400,PN:L4-4/2	PART NAME: SHAFT,DRAWING NUMBER: L69-400,PART NUMBER: L4-4/2,FOR INTERMEDIATE MILL STAND-4/I,MAKE: CONTINUUS PROPERZI	NO
110130444	FULL SET,COUPLING,GEARBOX,PVE 14D	PART NAME: FULL SET,COUPLING,WITH BOTH HALF,FOR OIL GEAR PUMP,FOR GEAR BOX (REACTOR),MODEL NUMBER: PVE 14D,SERIAL NUMBER: 65963,65964,65965	NO
110130460	GEAR,PINION,AISI 4320	GEAR,PINION,MATERIAL: AISI 4320,PVE 16D,PINION L.S SECOND INTERMEDIATE TO SUIT GEAR BOX SUPPLIED TO M/S SUPRA A.B ON CONTRACT NUMBER: 65960/1/2,TAG NUMBER: 506 FOR TRANSFORMATION TANK,MAKE: PLENTY,ITEM NUMBER: 36,PART CODE: 80-425-0109-4,MAKE: PLENTY	NO
110130548	COMPENSATOR,BOILER	PART NAME: COMPENSATOR,BETWEEN CHANNEL 5 AND 6,WORKING TEMPERATURE: 600 TO 700 DEG.CEL,FOR WASTE HEAT RECOVERY BOILER	NO
110130551	PINION H.S I/P,PVE16D,PN:80-365-0162-4	PART NAME: PINION H.S INPUT,PART MATERIAL: CHROMIUM MOLYBDENUM STEEL,PART NUMBER: 80-365-0162-4,SUPPLIED TO M/S SUPRA A.B ON CONTRACT,NUMBER: 65960/1/2,TAG NUMBER: 506,ITEM NUMBER: 55,MOC: B.S.970 709 M 40,FOR GEAR BOX,MAKE: PLENTY,MODEL NUMBER: PVE 16D,FOR TRANSFORMATION TANK	NO
110130671	EVAPORATOR BUNDLE NO:1 - WHRB	EVAPORATOR BUNDLE NO.1 FOR WHRB,AS PER DRG NO. W887.02.08.11.001(SHEET 1TO4),MOC OF TUBES SA 213 GR T11 SMLSMOC OF HEADERS-SA 106 Gr B SMLSIBR APPROVED.	NO
110130864	TANSIT SEAL,REF:544/1000	PART NAME: TANSIT SEAL,REFERENCE NUMBER: 544/1000,ID NUMBER: 38281915,VK 50-3 SPECIAL TOOLS,SUPPLIER: SIEMENS	NO
110131452	SBELLOW EXP METALLIC, EJ-008 2400MMDIA	BELLOW EXP METALLIC,2400MMDIA X1070MM(L)M,BELLOW NO : EJ-008OPERATING TEMP : 375 DEG CENT,OPERATING PRESS : 0.03 KG/CM2GAS HANDLE - SULPHUR DI OXIDE,GAS COMP - SO2 : 35-40%,H2O: 25-30%,CO2:1-2%,N2: 25-30%,O2: max 5%	NO
110131458	DRIVE SHAFT,CHAIN CONVEYOR	PART NAME: DRIVE SHAFT,TYPE: D130/125/80X1666 RN-1200-1,NUMBER OF TEETH: 8,REFERENCE NUMBER: XRFC-81144,FOR HEAD END,FOR DRAG CHAIN CONVEYOR,MAKE: BAY EUROKESSEL GMBH,D-01705 FREITAL,GITTERSEER STR 19,TYPE: H-800/290 142V,FOR WASTE HEAT RECOVERY BOILER	NO
110131562	ASSY,TURBO EXPANDER,PN:57580-1	PART NAME: ASSEMBLY,TURBO EXPANDER,PART NUMBER: 57580-1,IT INCLUDES COMPRESSOR AND EXPANDERSET,IGV,SPEED PROBES,AND VIBRATION PROBES,FOR O2 PLANT-2 (M/S AIR LIQUID),TYPE: TC-4000,COMPRESSOR SIDE: INLET PRESSURE: 77.5 PSIA,DISCHARGE PRESSURE: 121.9 PSIA,FLOW RATE: 3442 SCFM AT 60 F,SPEED: 42500 RPM,PN: 70163-1J,EXPANDER SIDE: INLET PRESSURE: 119 PSIA,DISCHARGE PRESSURE: 19.6 PSIA,FLOW RATE: 3442 SCFM AT 60 F,SPEED: 42500 RPM,PN: 70164-1J,OEM	NO
110132043	CHAIN DUPLEX 200 DR FOR NEW ISA LANCE	CHAIN DUPLEX FOR NEW ISA LANCE DRIVE,MODEL DUPLEX 200DRPITCH 63.5MM,CONNECTING LINKS SHALL BE RONALD NO.58 TO BE PROVIDED EACHEND OF THE STRAND.TOTAL NO OF LINKS 733.	NO
110132440	HEATING ELEMENT TUBOTHAL 40 KW 190V	HEATING ELEMENT TUBOTHAL 40 KW 190V NO:585277.WIRE MATERIAL APMWIRE SIZE 8.25mmHOT ZONE LENGTH 1440mmCOLD ZONE LENGTH 624mmCENTER ROD MATERIAL APMCENTER ROD DIA 16mmTERMINAL ROD MATERIAL KANTHAL DTERMINAL ROD SIZE 16X780mmCERA DISC SIZE 154X15mmFIBRE PLUG 160mmDURATEC SQ250X250mm	NO

110132544	VALVE,CTRL,FLGD,BUTFLY,EN-JS1049,200NB	VALVE,CONTROL,FLANGED,TYPE: BUTTERFLY,BODY MATERIAL: EN-JS1049,ACTUATOR TYPE: SPRING RETURN SINGLE ACTING,FLANGE PRESSURE DESIGNATION: ASA CLASS 150,LEAKAGE STANDARD: CLASS: VI,AIR SUPPLY PRESSURE: 4.5 KG/SQ.CM,POSITIONER TYPE: PNEUMATIC,SIZE: 200 NB,TYPE: SANDWHICH,BODY MATERIAL: EN-JS1049 WITH POLYTETRAFLUOROETHYLENE LINING WITH VITON INLAY AND SAFETY STUFFING BOX,DISC/STEM MATERIAL: PFA LINED,MAINTENANCE FREE STEAM SEAL,SUITABLE FOR FITMENT BETWEEN FLANGES DIMENSION STANDARD: ANSI B 16.5,FAIL SAFE POSITION: CLOSE/STAY PUT,WITH PNEUMATIC POSITIONER,MAX. SIGNAL PRESSURE: 0.2 TO KG/SQ.CM,HAND WHEEL WITH CLUTCH FOR MANUAL OPERATION. COMPLETELY ASSEMBLED WITH REQUIRED MOUNTING BRACKETS,FASTENERS MATERIAL: STAINLESS STEEL-316,SERVICE CONDITIONS: FLUID: CUSO4 + H2SO4,FLOW: 200 CUB.M/HR,NORMAL/MAX INLET PRESSURE: 0.5/1.0KG/SQ.CM,NORMAL/MAX FLUID TEMPERATURE: 70/100 DEG.C FOR ELECTROLYTE CIRCULATION	NO
110132560	BLOWER,AIR,VACUUM,1 HP,2850RPM,TA160	BLOWER,AIR,TYPE: VACUUM,SPEED RATING: 2850 RPM,FREQUENCY RATING: 50 HZ,POWER RATING: 1 HP,VOLTAGE RATING: 190/380 V,WITH MOTOR,MOTOR DETAILS: 35F 89G-81G1,CURRENT RATING: 3/1.6 A,FRAME: 56CZ,3 PHASE,INSULATION CLASS: F,ENCL: TE,FLOW: 500 SCFM AT 60 HZ/416 SCFM AT 50 HZ,SERIAL NUMBER: 45505,FOR MAIN AIR COMPRESSOR(K111)/TA160,FOR O2-1 PLANT,MAKE: AERCOLOGY INDUSTRIAL PRODUCTS,MODEL NUMBER: E500S01,PART NUMBER: P054021-00047	NO
110132561	PUMP,OIL,716-896-6600,COOPER	PUMP,OIL,TYPE: AUXILIARY,HORSE POWER RATING: 10 HP,SPEED RATING: 2830 RPM,SERIAL NUMBER: 31035/3,MOTOR DETAILS: MAKE: LINCOLN,VOLTAGE RATING: 415 V,CURRENT RATING: 13.3 A,FRAME SIZE: 215TC,FREQUENCY: 50 HZ,3 PHASE,INSULATION CLASS: F,FOR MAIN AIR COMPRESSOR (K111)/TA160,FOR O2-1 PLANT,MAKE: COOPER BAFFALO,MODEL NUMBER: 716-896-6600,PART NUMBER: 0540282-056	NO
110132648	SELENIUM FURNACE DOOR GASKET.NO:533270	SELENIUM FURNACE DOOR GASKET.NO:533270.	NO
110133134	ASSY,LOCKING SHAFT,ART:Z2126CUAM152160	PART NAME: ASSEMBLY,LOCKING SHAFT,ARTICLE NUMBER: Z2126CUAM152160,FOR ANODE PREPARATION MACHINE	NO
110133312	\$HYD.PUMP -ISA TAPDRILLING MACHINE	HYD.PUMP -ISA TAPDRILLING MACHINE, PISTON PUMP-VARIABLE DISPLACEMENT 160BARS-50L/MIN, TYPE-PVQ40 B2R SS1F 20 C21D 12, MANUF.- VICKERS.	NO
110133504	ASSY,ROTOR,BLOWER,SFO 1-9,0-75	PART NAME: ASSEMBLY,ROTOR,DRAWING NUMBER: 1-120502-006,CONSISTS OF IMPELLER,SHAFT,SHAFT NUT,FLOW CAP,KEY,ROTOR UNIT WHICH IS DYNAMICALLY BALANCED AND READY FOR INSTALLATION,FOR BLOWER,MAKE: KKK,MODEL NUMBER: SFO 1-9,0-75,REFERENCE NUMBER: 1.049.041,POSITION NUMBER: 220	NO
110133751	MIXTURE,ACID,REACTOR,DRG:PACL/084	PART NAME: MIXTURE,ACID,DRAWING NUMBER: PACL/084,MATERIAL: PVDF-FRP USING SUPER VINYL RESIN,FOR REACTOR	NO
110133752	ACID GUARD,REACTOR,DRG:PACL/084	PART NAME: ACID GUARD,DRAWING NUMBER: PACL/084,FOR SPARGER REACTOR-2	NO
110133779	IMPELLER,SPHEROIDAL GRAPHITE IRON,VW-900	PART NAME: IMPELLER,PART MATERIAL: SPHEROIDAL GRAPHITE IRON,FOR VACUUM CENTRIFUGAL PUMP,MAKE: PPI PUMPS PVT LTD,MODEL NUMBER: VW-900	NO
110133933	LOOP FORMING,GEARBOX,BHC4	PART NAME: LOOP FORMING,CONTAINS 5 ITEMS: 1) B4-1/17- 1 NUMBER - EXIT SHAFT,2) B4-1/23- 2 NUMBERS - SPACER,3) B4-1/22-1 NUMBER- SPACER,4) B4-1/23- 2 NUMBERS-ONLY TWO SPACER ARE MOUNTED5) KEY NUMBER: 17-1 NUMBER TAB WASHER MB13 CODE: 43080230,SUPPLIER: CONTINUUS PROPERZI,FOR GEAR BOX,MODEL NUMBER: BHC4	SET
110134110	SHAFT,BLOWER,75106A1	PART NAME: SHAFT,FOR SHAFT FURNACE BLOWER,MAKE: GARDNER DENVER,MODEL NUMBER: 75106A1,SERIALNUMBER: 339259,P006438	NO
110134330	PANEL,GOOSENECK,MEPL-A1-SIIL-CD-029/7B	PART NAME: PANEL,GOOSENECK,DRAWING NUMBER: MEPL-A1-SIIL-CD-029/7B,FOR CONVERTER,MAKE: MABELENGINEERING PVT LTD	NO
110134332	BEARING,JOURNAL,BLOWER,PN:38942815	PART NAME: BEARING,JOURNAL,PART NUMBER: 38942815,FOR BULL GEAR SHAFT,FOR BLOWER,MAKE: ISA	NO
110134333	BEARING,JOURNAL&THRUST,PN:38942915	PART NAME: BEARING,JOURNAL AND THRUST,PART NUMBER: 38942915,FOR BULL GEAR SHAFT,FOR BLOWER,MAKE: ISA	NO

110134336	CONVERTER,FRQ,ACS 550-01-059A-4	CONVERTER,FREQUENCY,ENCLOSURE: IP21,NUMBER OF PHASE: 3 PH,POWER RATING: 30 KW,VOLTAGE RATING: 380 TO 480 V,CURRENT RATING: 59 A,FREQUENCY RATING: 50/60 HZ,MAKE: ABB,MODEL NUMBER: ACS 550-01-059A-4	NO
110134337	CONVERTER,FRQ,ACS550-01-044A-4	CONVERTER,FREQUENCY,ENCLOSURE: IP21,NUMBER OF PHASE: 3,POWER RATING: 22 KW,VOLTAGE RATING: 380 TO 480 V,CURRENT RATING: 44 A,FREQUENCY RATING: 50/60 HZ,MAKE: ABB,MODEL NUMBER: ACS550-01-044A-4	NO
110134339	CONTROLLER,THYRISTOR,FURNACE,THRO-P	PART NAME: CONTROLLER,THYRISTOR,MODEL NUMBER: THRO-P,MICRO PROCESSOR BASED,TYPE: 2P 500-495HF,MAKE: AEG,WITH 3 NUMBER OF SEMICONDUCTOR FUSES. FOR MOTOR BRAKE,HEATER	NO
110134476	SHAFT,PINION,GEARBOX,NF2319C	PART NAME: SHAFT,PINION,FOR GEAR BOX,MAKE: TRIVENI,MODEL NUMBER: NF2319C,INPUT SPEED: 7555 RPM,OUTPUT SPEED: 1500 RPM,SPEED RATIO: 5.0367,DESIGN STANDARD: AGMA 6011 H-98,TYPE: DOUBLE HELICAL-SINGLE STAGE,SHAFT ORIENTATION: PARALLEL AND HORIZONTAL,DRIVING EQUIPMENT: TURBINE,DRIVEN EQUIPMENT: GENERATOR	NO
110134477	WHEEL,GEAR,SHAFT,GEARBOX,NF2319C	PART NAME: WHEEL,GEAR,SHAFT,FOR GEAR BOX,MAKE: TRIVENI,MODEL NUMBER: NF2319C,INPUT SPEED: 7555 RPM,OUTPUT SPEED: 1500 RPM,SPEED RATIO: 5.0367,DESIGN STANDARD: AGMA 6011 H-98,TYPE: DOUBLE HELICAL-SINGLE STAGE,SHAFT ORIENTATION: PARALLEL AND HORIZONTAL,DRIVING EQUIPMENT: TURBINE,DRIVEN EQUIPMENT: GENERATOR	NO
110134813	SPUMP GREASE - TWIN CASTER	MULTIPLE OUTLET GREASE PUMP, MODEL - "M10/1", TYPE - GM, NUMBER OF PUMPING UNITS - 1, DISCHARGE/OUTLET/HOUR - 0 TO 210 CC (ADJUSTABLE),RELIEF VALVE SETTING - SET TO 150 BAR CONTAINER CAPACITY - 10 LRS GEARRATIO 10:1 WITHIN PUMP 6:1 WITHIN GEARBOX COMPLETE WITH LOW LEVELLIM.SW.(2NO+2NC), MODEL - JLSL1, MAKE - JAIBALAJI, OUTLET CHECK VALVE,DRIVE MOTOR : .37KW, 415 V+-10%, 3 PH, 50 HZ +3%-5%,1380RPM CLASS'F'INSULATION, 4 POLE B-14 MOUNTING, TEFC, IP-55 PROTECTION, FRAME - 71 ASPER IS325, MAKE : BHARAT BIJLEE.	NO
110135093	PUMP,HYD-1,AXIAL PISTON,621LPM MAX,APM	PUMP,HYDRAULIC,TYPE: AXIAL PISTON,MOUNTING TYPE: STANDARD HORIZONTAL,FLOW RATING: 621 LPM MAX,FLOW PRESSURE: 350 BAR,POWER RATING: 405 KW,PUMP 1-APM,DISPLACEMENT: 360 CUB.CM/REV,MAKE:KAWASAKI PRECISION MACHINERY,MODEL NUMBER: K3VG-180DT-10NRS-400	NO
110135094	PUMP,HYD-2,AXIAL PISTON,310LPM MAX,APM	PUMP,HYDRAULIC,TYPE: AXIAL PISTON,MOUNTING TYPE: VERTICAL,FLOW RATING: 310 LPM MAX,FLOW PRESSURE: 350 BAR,POWER RATING: 200 KW,PUMP 2-APM,DISPLACEMENT: 180 CUB.CM/REV,MAKE: KAWASAKI PRECISION MACHINERY,MODEL NUMBER: K3VG-180-10NRS-V4L00	NO
110135352	VCB,26.4 KA,12 KV,1250 A,VK-10M25,JYOTHI	BREAKER,CIRCUIT,VACUUM,BREAKING CAPACITY: 26.4 KA,TRIP COIL VOLTAGE RATING: 110 VDC,CLOSINGCOIL VOLTAGE RATING: 110 VDC,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 12 KV,CURRENT RATING: 1250 A,INSULATION LEVEL IMPULSE VOLTAGE: 75 KV PEAK,POWER FREQUENCY WITHSTAND VOLTAGE: 28 KV,RATED MAKING CURRENT: 67 KA PEAK,RATED SHORT TIME CURRENT: 26.4 KA (3 SEC),SIMILAR TO SERIAL NUMBER: B-11520,STANDARD- IS: 13118/IEC-56,MAKE: JYOTHI,MODEL NUMBER: VK-10M25	NO
110135459	WHEEL,DIODE,ALTERNATOR,PN:948296	PART NAME: WHEEL,DIODE,PART NUMBER: 948296,REFERENCE NUMBER: 310/2,FOR ALTERNATOR,POWER RATING: 11.2 MW	NO
110135596	ASSY,TRANSMN,MILL STAND,0/I,PN:L4-4/22	PART NAME: ASSEMBLY,TRANSMISSION,DRAWING NUMBER: L34-4 SH 3 OF 8,PART NUMBER: L4-4/22,SET OF 2 PCS,FOR MINI ROLLING MILL STAND,MAKE: CONTINUUS PROPERZI,MODEL NUMBER: 0/I	SET
110135687	ASSY,DRIVE PINION,DRG:CR-25B/100/R1	PART NAME: ASSEMBLY,DRIVE PINION,DRAWING NUMBER: CR-25B/100/R1,CONSISTS OF PINION AND DRIVESHAFT ONLY,FOR ANODE FURNACE	NO
110135713	IMPELLER,PUMP,WPP 33/100&WPT 33/4,PN:230	PART NAME: IMPELLER,PART MATERIAL: MOC: E8 T963 (NICRMOCU55 28 86),PART NUMBER: 230,O 400 B30 Z3,FOR CIRCULATION PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 33/100 AND WPT 33/4,SERIAL NUMBER: 100031509	NO
110135714	SEAL,MECH,PUMP,WPP 33/100,PN:433	PART NAME: SEAL,MECHANICAL,PART NUMBER: 433,FACE: SIC/SIC-SIC/SIC,FOR CIRCULATION CENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 33/100,SE2-AP-50-QXEQ-E8,SERIAL NUMBER: 100031509	NO

110135715	IMPELLER,WPP 23/50&WPT 23/2,PN:230	PART NAME: IMPELLER,PART MATERIAL: MOC: E8 T963 (NICRMOCU55 28 86),PART NUMBER: 230,O 330 B20 Z3,FOR FILTRATION PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 23/50 AND WPT 23/2,SERIAL NUMBER: 100031507	NO
110135716	SEAL,MECH,PUMP,WPP 23/50,PN:433	PART NAME: SEAL,MECHANICAL,PART NUMBER: 433,FACE: SIC/SIC-SIC/SIC,FOR FILTRATION CENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 23/50,SE2-AP-40-QXEQ-E8,SERIAL NUMBER: 100031507	NO
110135731	WORM GEAR,GEARBOX,BHC4,DRG:B17-6	PART NAME: WORM GEAR,DRAWING NUMBER: B17-6,WORM WHEEL AND WORM SHAFT,FOR LOOP FORMING GEAR BOX,MAKE: HOLROYD,MODEL NUMBER: BHC4,MOUNTING-T SPARE PART OF KEY NUMBER: 19,SET CONTAINS ONE WORM SHAFT AND ONE WORM WHEEL SHEET NUMBER: 1 OF SHEET NUMBER: 7,SUPPLIER: CONTINUUS PROPERZI	NO
110135953	ASSY,WHEEL,LT DRIVE,CRANE,80 TON	PART NAME: ASSEMBLY,WHEEL,LT DRIVE,DRAWING NUMBER: N51195/2,PART SIZE: DIA: 900 MM,FOR AXLEMOUNTED DRIVE,FOR CRANE,MAKE: MUKAND LTD,CAPACITY: 80 TON	NO
110135954	ASSY,WHEEL,LT TRAILING,CRANE,80 TON	PART NAME: ASSEMBLY,WHEEL,LT TRAILING,DRAWING NUMBER: N51295/1,PART SIZE: DIA: 900 MM,WITH BEARING HOUSING,FOR CRANE,MAKE: MUKAND LTD,CAPACITY: 80 TON	NO
110135955	ASSY,WHEEL,CT DRIVE,CRANE,80 TON	PART NAME: ASSEMBLY,WHEEL,CT DRIVE,DRAWING NUMBER: N51180/2,PART SIZE: DIA: 800 MM,WITH BEARING HOUSING,FOR CRANE,MAKE: MUKAND LTD,CAPACITY: 80 TON	NO
110135956	ASSY,WHEEL,CT TRAILING,CRANE,80 TON	PART NAME: ASSEMBLY,WHEEL,CT TRAILING,DRAWING NUMBER: N51280/1,PART SIZE: DIA: 800 MM,WITH BEARING HOUSING,FOR CRANE,MAKE: MUKAND LTD,CAPACITY: 80 TON	NO
110136181	PORT,LANCE,FURNACE,SII/MECH/SMELT/01/06	PART NAME: PORT,LANCE,DRAWING NUMBER: SII/MECH/SMELT/01/06,FOR NEW ISA FURNACE	NO
110136182	BLOCK,TAPPING,CU,SII-SMELT/MECH-002323	PART NAME: BLOCK,TAPPING,PART MATERIAL: COPPER,DRAWING NUMBER: SII-SMELT/MECH-002323,FRONTPART	NO
110136189	COUPLING,TOOTHED,MILL,PN:L 35-41	PART NAME: COUPLING,TOOTHED,DRAWING NUMBER: L 40-4 SHEET 2 OF 2,PART NUMBER: L 35-41,EXTERNAL SLEEVE AND GEAR ASSEMBLY,FOR ROUGHING MILL	NO
110136206	ASSY,VOLUTE HSG,CCL 2X4X9,DRG:249L/3	PART NAME: ASSEMBLY,VOLUTE HOUSING,DRAWING NUMBER: 249L/3,FOR LOX PUMP,MAKE: CRYO-MACH,MODEL NUMBER: CCL 2X4X9	NO
110136210	ASSY,INTER HSG,CCL 2X4X9,DRG:249L/11	PART NAME: ASSEMBLY,INTERMEDIATE HOUSING,DRAWING NUMBER: 249L/11,FOR LOX PUMP,MAKE: CRYO-MACH,MODEL NUMBER: CCL 2X4X9	NO
110136649	RING,SLIP,COBRA-III,PN:37K081	PART NAME: RING,SLIP,PART NUMBER: 37K081,FOR STRETCH WRAPPING MACHINE,MAKE: ITW,MODEL NUMBER: COBRA-III	NO
110136676	IMPELLER,SANICRO 28,PUMP,WPP 61/600	PART NAME: IMPELLER,PART MATERIAL: SANICRO-28,FOR RECIRCULATION CENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 61/600	NO
110136677	PLATE,WEAR,SANICRO 28,WPP 61/600	PART NAME: PLATE,WEAR,PART MATERIAL: SANICRO-28,FOR RECIRCULATION CENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 61/600	NO
110136735	SEAL,MECH,DBL,PUMP,PN:433-FD08190008	PART NAME: SEAL,MECHANICAL,DOUBLE,PART NUMBER: 433-FD08190008,FACE: SIC/SIC-SIC/SIC,FOR REACTOR SLURRY RECIRCULATION CENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 61/600,SE2-AP-90-QXEQ-4U,SERIAL NUMBER: 100036903	NO
110137153	ASSY,GEARBOX,CRANE,PN:HR320	PART NAME: ASSEMBLY,GEARBOX,PART NUMBER: HR320,PART NUMBER: HR320,GEAR RATIO: 107: 1,FOR LONG TRAVEL CRANE,MAKE: PETRON/ISA,CAPACITY: 15 TON	NO
110137812	SHAFT,SS-904L,AGITATOR,PN:6	PART NAME: SHAFT,PART MATERIAL: STAINLESS STEEL-904L,DRAWING NUMBER: 19-3/05/165B,PART NUMBER: 6,FOR AGITATOR-II,FOR CIRCULATION TANK	NO
110137813	IMPELLER,W/HUB,SS-904L,AGITATOR,PN:7	PART NAME: IMPELLER,WITH HUB,PART MATERIAL: STAINLESS STEEL-904L,DRAWING NUMBER: 19-3/05/165B,PART NUMBER: 7,FOR CIRCULATION TANK AGITATOR-II	NO
110137866	SLEEVE,INTRNL,MILL STAND,PN:L35-2/2	PART NAME: SLEEVE,INTERNAL,DRAWING NUMBER: L57-2 SH 1 OF 2,PART NUMBER: L35-2/2,FOR ROUGHING MILL STAND,MAKE: CONTINUOUS PROPERZI	NO

110137869	PUMP,CNTFGL,VERT,P8L,PROCESS PUMP	PUMP,CENTRIFUGAL,TYPE: VERTICAL,FLOW RATING: 100 CUB.M/HR,SPEED RATING:1440 RPM,POWER RATING: 50 HP,HEAD: 40 M,FRAME: 225S,SERIAL NUMBER: V6H78P,MAKE: PROCESS PUMPS (I) PVT LTD,MODEL NUMBER: P8L,ENERGY EFFICIENT PUMP DUPLICATE CODE:110138015	NO
110137909	INDUCER,W/BALANCING,PN:740121120	PART NAME: INDUCER,WITH BALANCING,PART NUMBER: 740121120,FOR LIQUID OXYGEN CENTRIFUGAL PUMP,MAKE: CRYOSTAR,MODEL NUMBER: MCP 190/20L-2.6-WB-CB-C/0,SERIAL NUMBER: F2439-01/02,FOR O2-2 PLANT	NO
110137920	SHAFT,BALANCED,PN:740121055	PART NAME: SHAFT,BALANCED,PART NUMBER: 740121055,FOR LIQUID OXYGEN CENTRIFUGAL PUMP,MAKE: CRYOSTAR,MODEL NUMBER: MCP 190/20L-2.6-WB-CB-C/0,SERIAL NUMBER: F2439-01/02,FOR O2-2 PLANT	NO
110137922	HUB BODY+SPOOL,SS-316,TOWER,586-4V-02	PART NAME: HUB BODY+SPOOL,PART MATERIAL: STAINLESS STEEL-316,DRAWING NUMBER: CEPL/SIIL/18DT-8/06,COMPONENT NUMBER: 861-4,861-6,HUB BODY (UPPER AND LOWER),AND HUB SPOOL,FOR FAN,MAKE: COOLFLO,FOR NEW COOLING TOWER-1,MAKE: PAHARPUR COOLING TOWERS LTD,MODEL NUMBER: 586-4V-02	SET
110138086	COMPRESSOR,RCPTNG,1750RPM,676CMH	COMPRESSOR,RECIPROCATING,SPEED RATING: 750 TO 1750 RPM,FLOW RATING: 290 TO 676 CUM.M/HR,SIZE: 60 MM BORE,STROCK LENGTH: 57 MM,FOR AIR CONDITIONER,CRANE-3,MODEL NUMBER: 24824,MAKE: LINTERN,GIRDER REFREGERANT: R-124,MAKE: BITZER,PART NUMBER: 158206,MAKE: BITZER,MODEL NUMBER: 4NO.2	NO
110138097	KIT,HOOK-UP,CRANE,PN:250735	PART NAME: KIT,HOOK-UP,PART NUMBER: 250735,FOR INTERNAL 228 CONDENSER,FOR AIR CONDITIONER,MAKE: LINTERN,MODEL NUMBER: 22824,REFRIGERANT: R-124,FOR CRANE-1,MAKE: GIRDER	NO
110138099	KIT,HOOK-UP,CRANE,PN:158739	PART NAME: KIT,HOOK-UP,PART NUMBER: 158739,FOR INTERNAL 236 CONDENSER,FOR AIR CONDITIONER,MAKE: LINTERN,MODEL NUMBER: 23624,REFRIGERANT: R-124,FOR CRANE-1,MAKE: GIRDER	NO
110138342	CARD,RDCU,VSD,ACC800,PN:64607901	PART NAME: CARD,RDCU,PART NUMBER: 64607901,TYPE: RDCU-02C WITH SOFTWARE,FOR DRIVE CONTROL UNIT,FOR VARIABLE SPEED DRIVE,MAKE: ABB LTD,MODEL NUMBER: ACC-800,FOR CRANE,CAPACITY: 80 TON	NO
110139103	AGITATOR,TWIN STG,TT2	PART NAME: AGITATOR,TWIN STAGE,MODEL NUMBER: TT2,TAG NUMBER: 5508,DESIGN,FABRICATION AND SUPPLY OF AGITATOR AS SPECIFICATION NUMBER: DS-5N508	NO
110139404	VALVE,CTRL,FLGD,PINCH,PU,150NB,LAROX	VALVE,CONTROL,FLANGED,TYPE: PINCH,BODY MATERIAL: POLYURETHANE,ACTUATOR TYPE: PNEUMATIC,FLANGE PRESSURE DESIGNATION: ASME CLASS 150,AIR SUPPLY PRESSURE: 5 BAR,SIZE: 150 NB,OPERATED: ON/OFF,SBRT,FLOW NORMAL: 40 CUB.M/HR,MAXIMUM FLOW: 60 CUB.M/HR,NORMAL TEMPERATURE: 75 TO 80DEG,MAXIMUM TEMPERATURE: 85 DEG.C,DENSITY: 135 KG/DM3,VISCOSITY: 2CP,% OF SOLIDS: 30 G/L,PORT SIZE: FULL BORE,SLEEVE TYPE: SBRT01150,350/3L2,POWER SUPPLY: 24 VDC,AMBIENT TEMPERATURE: 35 DEG.C,SOLENOID,OPERATED,ACTUATOR OPEN/CLOSE POSITION SWITCH REQUIRED,APPLICATION: SELENIUM CIRCULATION TANK VALVES,MAKE: LAROX,MODEL NUMBER: PVE150A1-253LT	NO
110139624	ASSY,GEARBOX,CRANE,80 TON	PART NAME: ASSEMBLY,GEARBOX,DRAWING NUMBER: 11284300/0,FOR MAIN/AUXILIARY HOIST,FOR CRANE,CAPACITY: 80 TON	NO
110139625	ASSY,ROPE DRUM,CRANE,80 TON	PART NAME: ASSEMBLY,ROPE DRUM,DRAWING NUMBER: 11284100,FOR MAIN/AUXILIARY HOIST,FOR CRANE,MAKE: MUKAND LTD,CAPACITY: 80 TON	NO
110139628	ASSY,HOOK BLOCK,BOTTOM,CRANE,80 TON	PART NAME: ASSEMBLY,HOOK BLOCK,BOTTOM,DRAWING NUMBER: 11284400,FOR MAIN/AUXILIARY HOIST,FORCRANE,MAKE: MUKAND LTD,CAPACITY: 80 TON	NO
110139631	HOOK,CRANE,DRG:11284401,80 TON	PART NAME: HOOK,DRAWING NUMBER: 11284401,FOR HOIST CRANE,CAPACITY: 80 TON	NO
110139636	ASSY,GEARBOX,LT DRIVE,CRANE,80 TON	PART NAME: ASSEMBLY,GEARBOX,LT DRIVE,DRAWING NUMBER: H260425,FOR CRANE,CAPACITY: 80 TON	NO
110139641	ASSY,GEARBOX,CT DRIVE,CRANE,80 TON	PART NAME: ASSEMBLY,GEARBOX,CT DRIVE,DRAWING NUMBER: 11284350,FOR CRANE,CAPACITY: 80 TON	NO
110139817	REMOTE FOR TAP DRILLING MACHINE	TAP DRILLING MACHINE REMOTE CONTROLMake:HetricType:ERG0V8Product No:20905176699 H03C48 CS434System No:10306136453 GA609Battery Voltage:9V	NO
110139852	ASSY,DRUM,ROPE,CRANE,PMC-251-01-09/A	PART NAME: ASSEMBLY,DRUM,ROPE,DRAWING NUMBER: PMC-251-01-09/A,WEIGHT: 550 KG,FOR RHF(E) HOLDING BUCKET HOIST CRANE	NO

110139854	510 M3 LADLE AS PER DIAGRAM	10 M3 LADLE AS PER DIAGRAMDRAWING NO: HF/LADLE/HC-770TENSIL STRENGTH 62000 PSI MIN.YIELD STRENGTH 33000 PSI MINELONGATION 25% MINREDUCTION IN AREA = 50%IMPACT VALUE = 75 FTLBSCASTING TOLERANCE AS PER IS-4897 CLASS 2CHEMICAL COMPOSITION AS DESCRIBED IN DRAWING	NO
110139925	ASSY,BACK PULL OUT,PUMP,3K-10X8-14	PART NAME: ASSEMBLY,BACK PULL OUT,INCLUDING IMPELLER WITHOUT MECHANICAL SEAL,FOR CENTRIFUGAL PUMP,MAKE: MICROFINISH PUMPS/BDK PUMPS,MODEL NUMBER: 3K-10X8-14,FLOW RATING: 625 CUB.M/HR,HEAD: 33 M,SERIAL NUMBER: 20001	NO
110140210	VALVE,SAFETY,MM:1.5XH2X3HCI-R-46-IBR-FN	PART NAME: VALVE,SAFETY,MODEL NUMBER: 1.5XH2X3HCI-R-46-IBR-FN,FOR WASTE HEAT RECOVERY BOILER STEAM DRUM	NO
110140333	ASSY,WHEEL,DRIVE,CS,CRANE,24 TON	PART NAME: ASSEMBLY,WHEEL,DRIVE,PART MATERIAL: CARBON STEEL EN-19,PART SIZE: DIA: 710 X WD:210 MM,TYPE: SOLID,WITH BRG HOUSING 22330,NORMALIZING MORE THAN 850 DEG TO HAVE A GRAIN SIZE OF ASTM 5 TO 6,FOR CRANE,MAKE: WMI CRANES LTD,CAPACITY: 24 TON	NO
110140337	INSERT,DISC,1.5XH2X3 HCI-R-46-IBR-FN	PART NAME: INSERT,DISC,FOR SAFETY VALVE,MAKE: TYCO SANMAR LTD,MODEL NUMBER: 1.5XH2X3 HCI-R-46-IBR-FN	NO
110140476	CASING,PUMP,TPS 150/400	PART NAME: CASING,FOR CENTRIFUGAL PUMP,MAKE: SAM TURBO INDUSTRY LTD,MODEL NUMBER: TPS 150/400	NO
110140480	GIRTH GEAR,IN TWO HALVES,SP.5.1-11939	PART NAME: GIRTH GEAR,IN TWO HALVES,DRAWING NUMBER: SP.5.1-11939,FOR CONVERTER,TYPE OF THE GEAR- SPUR NUMBER OF TEETH-140,CIRCULAR PITCH-114.3 MM,PITCH CIRCLE DIA: 5093.595 MM,ADDENDUM DIA: 5166.36 MM,DEDENDUM DIA: 5002.638 MM,PRESSURE ANGLE: 20 DEG,TOOTH FORM,FULL DEPTH INVOLUTE MATERIAL: MN STEEL IS: 2708,CR 3 HARDNESS- 200-240 BHN	NO
110140752	IMPELLER,FURNACE,DIA:1200MM	PART NAME: IMPELLER,PART SIZE: DIA: 1200 MM,MATERIAL NUMBER: 10341825 832062-1,FOR FURNACE FAN,MAKE: OUTOTECH,FOR SELENIUM PLANT	NO
110140791	CARD,PULSE CONVERTER,ART:3BHE003748R0002	PART NAME: CARD,PULSE CONVERTER,ARTICLE NUMBER: 3BHE003748R0002,MODEL NUMBER: GD-C742,VOLTAGE RATING: 24 VDC,CURRENT RATING: 40 MA,INPUT: A TRAIN OF FIRING PULSES FROM DCR600,OUTPUT: FIBRE OPTIC SIGNAL 6 PULSES/CHANNEL WITH 60 DEG PHASE SHIFT TO LTC CARD THROUGH FIBRE OPTIC CABLE,FOR RECTIFIER,MAKE: AE,SUPPLIER: ABB,RATING: 35 KA	NO
110140792	MODULE,ANALOG I/O,REF:AGJR5252300R0101	PART NAME: MODULE,ANALOG I/O,REFERENCE NUMBER: AGJR5252300R0101,MODEL NUMBER: 07 AC 91,FOR RECTIFIER,MAKE: ABB LTD,RATING: 35 KA	NO
110140793	CONTROLLER,DRIVE,RECTIFIER,ART:DCR600	PART NAME: CONTROLLER,DRIVE,ARTICLE NUMBER: DCR600,INPUT: 0 TO 10 V FROM PLC THROUGH ANALOGOUTPUT MODULE,OUTPUT: TRAIN OF FIRING PULSES TO GDC CARD,FOR CONTROL PANEL,FOR 35 KA RECTIFIER,MAKE: ABB LTD	NO
110140794	PLC,CPU,RECTIFIER,REF:07KT95	PART NAME: PLC,CPU,REFERENCE NUMBER: 07KT95,ARTICLE NUMBER: GJR5252800R0100,FOR CONTROL PANEL,FOR 35 KA RECTIFIER,MAKE: ABB LTD	NO
110140795	THYRISTOR,3BHE013707R0001,MM:3BHS126937	PART NAME: THYRISTOR,MODEL NUMBER: 3BHS126937,FOR RECTIFIER,MAKE: ABB LTD,MODEL NUMBER: 3BHE013707R0001 ARTICLE NUMBER: 3AYN125115-PAB,POWER RATING: 35 KA	NO
110140797	FUSE,500 V,4000A,REF:170M70474KN/60	PART NAME: FUSE,500 V,4000 A,REFERENCE NUMBER: 170M70474KN/60,ARTICLE NUMBER: HIEB306028P0001,VOLTAGE RATING: 500 V,CURRENT RATING: 400 A,FOR CONTROL PANEL,FOR 35 KA RECTIFIER,MAKE: ABB LTD	NO
110140800	CARD,THYRISTOR GATE FIRING,REF:LTC 743	PART NAME: CARD,THYRISTOR GATE FIRING,REFERENCE NUMBER: LTC 743,INPUT: FIBRE OPTIC SIGNAL FROM GDC CARD,OUTPUT: ELECTRICAL VOLTAGE,RATING: 0 TO 5 V,CONVERTS FIBRE OPTIC SIGNAL INTO ELECTRICAL VOLTAGE AND GIVES IT TO GATE AND CATHODE OF THE THYRISTOR,FOR RECTIFIER,MAKE: ABB LTD,ARTICLE NUMBER: 3HE 013299 R0001	NO
110140801	ISOLATOR,SGNL,ART:3AYN125121-PAH	PART NAME: ISOLATOR,SIGNAL,ARTICLE NUMBER: 3AYN125121-PAH,CONVERTS 0 TO 150 VDC FROM RECTIFIER OUTPUT TO 0 TO 10 V AND FEEDS TO PLC FOR FEEDBACK PURPOSE,TYPE: SI2284-150 VDC,FOR CONTROL PANEL,FOR 35 KA RECTIFIER-2,MAKE: ABB LTD	NO
110141003	SHAFT,CASTING M/C,PN:C10-1/2	PART NAME: SHAFT,DRAWING NUMBER: C41-1 SH 1 OF 5,PART NUMBER: C10 1/2,FOR CASTING MACHINE,MAKE: CONTINUUS PROPERZI	NO

110141033	VALVE,PLUG,SS-316L,FLGD,ASA CL150,300MM	VALVE,PLUG,DESIGN STANDARD: API 599,DIMENSIONAL STANDARD: ASME B16.10,BODY MATERIAL: STAINLESS STEEL-316L,LINER MATERIAL: POLYTETRAFLUOROETHYLENE,END CONNECTION: FLANGED,PRESSURE RATING: ASA CLASS 150,SIZE: 300 MM,COVER MATERIAL: STAINLESS STEEL-316L,DIAPHRAGM WEDGE RING MATERIAL: PTFE,WORKING PRESSURE RATING: 4 KG/SQ.CM,LIQUID: COPPER SULPHATE SOLUTION,CHLORIDE: SULPHURIC ACID: 150-200 GPL,TEMPERATURE: 6	NO
110141036	SHAFT,SS-904L,AGITATOR,PN:6	PART NAME: SHAFT,PART MATERIAL: STAINLESS STEEL-904L,DRAWING NUMBER: 19-3/06/165A,PART NUMBER: 6,FOR AGITATOR-I,FOR CIRCULATION TANK	NO
110141037	IMPELLER,SS-904L,AGITATOR,PN:7	PART NAME: IMPELLER,PART MATERIAL: STAINLESS STEEL-904L,DRAWING NUMBER: 19-3/06/165A,PART NUMBER: 7,WITH HUB,FOR CIRCULATION TANK 1 AGITATOR	NO
110142121	SOIL CATCHER ,GEAR BOX SFO 14 KKK	PINION AND WHEEL SHAFT OIL CATCHERFOR SFO 14 KKK BLOWER MACHINE NUMBER: 1.052.026GEAR BOX MAKE:DAVID BROWNGEAR BOX MODEL :HSGP 315DRAWING NO :65354PART NO :1 AND 6	NO
110142122	FILTER ELEMENT , SFO9 KKK,BLOWER	FILTER ELEMENT FOR SFO9 KKK BLOWER MACHINE NUMBER : 1049054ARTICLE NUMBER:10002363213	SET
110142151	VALVE,CTRL,FLGD,BUTFLY,HAST-C,200NB	VALVE,CONTROL,FLANGED,TYPE: WAFER BUTTERFLY,BODY MATERIAL: HASTELLOY-C,ACTUATOR TYPE: ROTARY,FLANGE FACING: RAISED FACE,FLANGE FACING FINISH: SERRATED,FLANGE PRESSURE DESIGNATION: CLASS 300,SEAT MATERIAL: TEFLON,SERVICE: WATER/WEAK ACID,LEAKAGE STANDARD: CLASS: VI,AIR SUPPLYPRESSURE: 4 TO 5 KG/SQ.CM,SIZE: 200 NB,OPERATED: ON-OFF,GUIDING: TOP GUIDING,SINGLE SEATED NO.OF PORTS: SINGLE,DISC/STEM MATERIAL: HASTELLOY-C,TRIM DETAILS TRIM FORM/MATERIAL: EQUAL PERCENTAGE/AISI OTHER WETTED PARTS (GUIDE,STEM ETC STANDARD: AISI,3 SEAT,STANDARD: ANSI B 1,SPRING ACTION: FAIL TO OPEN,INPUT SIGNAL: 0.2 TO 1.0 KG/SQ.CM,MAX/MIN AIR SUPPLY PRESSURE: 5/4 KG/SQ.CM,SOLENOID VALVE/AIR FILTER/LIMIT SWITCHES TO BE MOUNTED WITH FITTINGS PNEUMATIC CONNECTION: 1/4 INCH NPT(F),ELECTRICAL CONNECTION: 1/2 INCH NPT (F),OTHER DATA ENCLOSURE PROTECTION: IP 55,OPERATING TEMPERATURE: 65 TO 85 DEG.C,LINE PRESSURE: 5 TO 6.5 KG/SQ.CM,GCP3	NO
110142399	RHF SLAG SPOUT BLOCK,CU	PART NAME: RHF SLAG SPOUT BLOCK,PART MATERIAL: COPPER,STATIC CAST ELECTROLYTIC TOUGH PITCH COPPER TO UNS C11000 OR EQUIVALENT DIMENSION AS PER THE DRAWING	NO
110142400	SMELT FURNACE BATH BLOCK,ISA SYSTEM	PART NAME: SMELT FURNACE BATH BLOCK,STATIC CAST ELECTROLYTIC TOUGH PITCH COPPER TO UNS C11000 OR EQUIVALENT DIMENSION: AS PER THE DRAWING,FOR ISA SYSTEM	NO
110142865	COVER,CASING,PN:161 APP33	PART NAME: COVER,CASING,PART NUMBER: 161 APP33/14204701E8 E8-T963,NI CR MO CU 55 28 8 6,FORCENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 33/100,SERIAL NUMBER: 100031508	NO
110143018	FEED PORT,SS-316L,DRG:SIIL/MECH/1101	PART NAME: FEED PORT,PART MATERIAL: STAINLESS STEEL-316L,DRAWING NUMBER: SIIL/MECH/1101	NO
110143025	MASTER DRIVE,CONVEYOR,6SE7023-4EP60	PART NAME: MASTER DRIVE,MODEL NUMBER: 6SE7023-4EP60,POWER RATED: 15 KW,COMPACT PLUS,VOLTAGERATING: 415 VAC,FOR CONVEYOR 17A,MOTOR,VSD PANEL	NO
110143101	HOLDING FURNACE BURNER (ASSEMBLY).	MODEL: 424T BURNER FOR LPG GASMAKE: ASARCO TECHNOLOGIESPARTS: AIR ORIFICE PLATE, GASKETS,ELBOW,MIXING CHAMBER,WATER COOLED MOUNTING SUPPORT, BURNER TILE, FLAME HOLDER <(>&<> IGNITER BAR	NO
110143193	VALVE PLUG PTFE SLEEVED,CD4MCU200NB DIN	200NB TEFLON SLEEVED PLUG VALVE V-109AS PER STANDARD API 599, TESTINGAPI 598, OPERATION:GEAR OPERATORMOC OF BODY AND COVER: CD4MCUPLUG: CD4MCU,SLEEVE: PTFE, DIAPHRAGM <(>&<> WEDGE RING: PTFE,RATING: ASA 150#, ENDCONNECTION: FLANGED ENDS, DRILLING: AS PER DIN 2576 PN10 FLANGETO BE OFF CENTERED	NO
110143235	CLUTCH,PONY DRIVE,DIA:18,PN:ECHC18	PART NAME: CLUTCH,PONY DRIVE,PART SIZE: DIA: 18,PART NUMBER: ECHC18,VOLTAGE: 90 V	SET
110143566	GATE,KNIFE,HASTELLOY-C,VALVE,PN:03468.11	PART NAME: GATE,KNIFE,PART MATERIAL: HASTELLOY-C,PART NUMBER: 03468.11,FOR VALVE ASSEMBLY,MAKE: TYCO,SIZE: 20 INCH,SSEC COATED,PRODUCT CODE: KGA	NO
110144341	STUD BOLT,BLOWER,SEZ-20,POS NO:10/118.0	PART NAME: STUD BOLT,DRAWING NUMBER: POS NO: 10/118.0,FOR BLOWER,MODEL NUMBER: SEZ-20,ID NUMBER: 43187215	NO

110144343	CAP,HUB,BLOWER,SEZ-20,POS NO:10/114.0	PART NAME: CAP,HUB,DRAWING NUMBER: ITEM: 10/114.0,ID NUMBER: 38390715,FOR BLOWER,MAKE: DEMAG,MODEL NUMBER: SEZ-20	NO
110144355	COVER,END,INTERCOOLER,PN:A3796163-00000	PART NAME: COVER,END,INTER COOLER,PART NUMBER: A3796163-00000,REFERENCE NUMBER: I STG X11264,CONSISTS OF FRONT END COVER AND REAR END COVER,SHELL SIDE PERFORMANCE: MAXIMUM WORKING PRESSURE: 180 PSI AT 350 DEG.F,MDMT: 20 DEG.F AT 180 PSI,TUBE SIDE PERFORMANCE: MAXIMUM WORKINGPRESSURE: 150 PSI AT 150 DEG.F,MDMT: 20 DEG.F AT 150 PSI,FOR BOOSTER COMPRESSOR,MAKE: COOPER TURBO,MODEL NUMBER: K131,FOR O2-1	SET
110144388	DOUB. MECH. SEAL - FC PUMP,ENSIVAL 700E	DOUBLE MECHANICAL SEAL WITH BACK TO BACKDESIGN WITH ALL WETTED PARTS IN SANICRO WITH FACE COMBINATION OF SILICON CARBIDE VS SILICON CARBIDE ASINBOARD SEALS AND FACE COMBINATIONSILICON CARBIDE+SANICRO VSILICON CARBIDE AS OUT BOARD SEALS .SEAL WITH BECOMPLETE CARTIDGE SEAL INCLUSIVEGLAND PLATE ,MATING RING CARRIER ,SLEEVE AND ALL CARTIDGE COMPONENTSFOR FC PUMP MODEL: CAHRK 700EMAKE :ENSIVALAND SUPPLY WITH ONE SETOFALL THE SEAL FACES . GURANTEE OF ONE YEAR FROM THE DATE OFINSTALLATION IS REQUIRED .	SET
110144659	MOTOR,ELEC,SR,984RPM,22KW,415/305VAC	MOTOR,ELECTRICAL,TYPE: SLIP RING INDUCTION,APPLICATION: CRANE,ENCLOSURE: IP55,MOUNTING TYPE: B3-FOOT,INSULATION CLASS: CLASS F,FRAME SIZE: KS225MB,NUMBER OF POLE: 6 P,SPEED RATING: 984 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 22 KW,FREQUENCY RATING: 50 HZ,CURRENT RATING: 51/44 A,VOLTAGE RATING: 415/305 VAC,FOR CRANE,CAPACITY: 80 TON,DUTY: S4-60%,STATOR CONNECTION: DELTA,ROTOR CONNECTION: STAR,TEMPERATURE: 60 DEG,EFFICINECY: 94.5%,POWER FACTOR: 0.8,STARTS PER HOUR: 300,LONG TRAVEL,DE: N314,NDE: 6314,DIMENSIONS IDENTICAL TO THE M/C NUMBER: 25573520135,MAKE: GEC ALSTOM (I) LTD	NO
110144663	MOTOR,ELEC,SCI,VK 400L,990RPM,250KW,415V	MOTOR,ELECTRICAL,TYPE: SQUIRREL CAGE INDUCTION,ENCLOSURE: IP55,MOUNTING TYPE: B3-FOOT,INSULATION CLASS: CLASS F,FRAME SIZE: VK 400L,NUMBER OF POLE: 6 P,SPEED RATING: 990 RPM,NUMBER OFPHASE: 3 PH,POWER RATING: 250 KW,FREQUENCY RATING: 50 HZ,CURRENT RATING: 460 A,VOLTAGE RATING: 415 VAC +/-10%,DUTY: 60%,AMBIENT TEMPERATURE: 60 DEG,EFFICINECY: 94.5%,POWER FACTOR: 0.8,STARTS PER HOUR: 300,APPLICATION: VVVF AND CRANE HOIST,DIMEN IDENTICAL TO MACHINE NO: 11503911,REF: BSEN-60034-1,YEAR: 2006,MAKE: GEC ALSTOM (I) LTD,MAKE: SIEMENS,MAKE: TECO WESTINGHOUSE	NO
110145006	\$10 M3 BAIL ARM ASSEMBLY	10 m3 Bail arm assembly as per drawing4Ltpa-220,221 drg no: 11318000 / 6	NO
110145105	ASSY,ROOF PANEL,DRG:W703-01-48-SA-621	PART NAME: ASSEMBLY,ROOF PANEL,DRAWING NUMBER: W703-01-48-SA-621,SINGLE PIECE ASSEMBLY (4 PARTS) CONSISTS OF BANDAGES,HEADERS WITH ORIFICES CONNECTING FLANGES,ETC MOC: FOR TUBES-SA213GR T 11 SMLS FOR FINS-SA387 GR 11 FOR BENDS-SA 234 GR. WP 11,FOR WASTE HEAT RECOVERY BOILER,MAKE: ISA	NO
110145223	VALVE,CTRL,40MM,1098 EGH,FISHER	VALVE,CONTROL,AIR SUPPLY PRESSURE: 3 TO 4 KG/SQ.CM,SIZE: 40 MM,CAPACITY: 100%,PRESSURE UNITS: PSIG,SEAT: STD,OUTLET PRESSURE RATING: 0.4-0.8 KG/SQ.CM,MAKE: FISHER,MODEL NUMBER: 1098 EGH,MAKE: FISHER,MODEL NUMBER: 17021767	NO
110145488	REGULATOR,DIAPH,VALVE,VERIFLO SQ420	PART NAME: REGULATOR,DIAPHRAGM,MODEL NUMBER: VERIFLO SQ420,CONNECTION SIZE: R 1/2 INCH,PRESSURE RATING: PN 35,MATERIAL BODY: AISI 316,CONTROL RANGE: 0-15 BAR,FOR PRESSURE CONTROL VALVE,FLUID: SO2 GAS,NORMAL FLOW RATING: 14.3 CUB.NM/HR,MAXIMUM FLOW RATING: 30 CUB.NM/HR,NORMALPRESSURE RATING: 3 BAR,MAXIMUM PRESSURE RATING: 6 BAR,NORMAL TEMPERATURE RATING: 40 DEG.C,MAXIMUM TEMPERATURE RATING: 60 DEG.C	NO
110145833	VALVE,BALANCING,ATM	PART NAME: VALVE,BALANCING,ID NUMBER: SBS 16 BA 16/50/30 KUNDEN NR: S 16005-35,FOR HYDRAULIC OPERATION,FOR ANODE TAKE-OFF MACHINE,TWIN CASTER	NO

110145853	PUMP,CNTFGL,DH FILTER FEED,WPP55300	PUMP,CENTRIFUGAL,TYPE: DH FILTER FEED,FLOW RATING: 500 CUB.M/HR,SERVICE:6-12% PHOS,HEAD SIZE: 25 M,INCLUDING DOUBLE MECHANICAL SEAL WITH EXTERNAL SEALINGWATER,TEMPERATURE RATING: 85DEG,ACID/GYPSUM SLURRY CHLORINE: 1200 PPM,NPSHA: 3.5 M,SP.GRAVITY: 1500KG/M3,SOLID 30-40%,SOLID SIZE: 5 MM (MAX),INPUT CASING/COVER-4L IMPELLER AND SIDE PLATE -4LBRG HOUSING -CAST IRON FLANGE DRILLING -AS PER DIN 2576 ACCESSORIES: 1)BASE PLATE SUITABLEFOR V-BELT DRIVE FORPUMP AND MOTOR 2)V-BELTS AND PULLEYS 3)GURAD,MAKE: SULZER,MODEL NUMBER:WPP55-300,ENERGY EFFICIENT PUMP	NO
110146132	PINION- FOR THE CONVERTER DRIVE	PINION FOR THE CONVERTER DRIVENO. OF TEETHS- 17C P- 4 1/2"OD- 27.2155"PRESSURE ANGLE- 20 DEGPCD- 24.3507"TYPE- SPURMATERIAL- CAST STEEL AS PER IS:2707 GR-1AS PER DRAWINGNO- CR-25AB/D14/R2	NO
110146134	SHAFT,PINION,CS EN-9,DRG:CR-258/110/R2	PART NAME: SHAFT,PINION,PART MATERIAL: CARBON STEEL EN-9,DRAWING NUMBER: CR-258/110/R2,AS PER DRAWING,FOR DRIVE CONVERTER	NO
110146245	PANEL,OPERATOR,MM:6SE1200-7AA10-3/C00	PART NAME: PANEL,OPERATOR,MODEL NUMBER: 6SE1200-7AA10-3/C00,REFERENCE NUMBER: A 11,FOR COROMATIC F CONTROLLER,NSAP,FOR TRANSFORMER RECTIFIER SET,EQUIVALENT TO SERIAL NUMBER: 8208	NO
110146246	COROMATIC-F CONTROLLER-NSAP,CTRL SYS	PART NAME: COROMATIC-F CONTROLLER-NSAP,FOR SINGLE PHASE SEMICONDUCTOR RECTIFIER UNIT: GH-E 86000/1,12F-2362 SR WITH ALL MODULES AND NECESSARY INTERFACING IN CONTROL PANEL,TYPE: VTC-F 1120/86 - 415 CONTROLLER MUST BE READY TO INSTALL WITH ALL NECESSARY PROGRAMMING/SETTING FORTR/RECTIFIER SET EQUIVALENT TO SERIAL NUMBER: 8208,FOR CONTROL SYSTEM	NO
110146538	\$MAIN HYD CYL, OLD SE FP, RFNY	MAIN HYD CYL, OLD SE FP, RFNYPART NO: 11CYL CAPACITY(TONNAGE); 50 TDRAWING NO: 0132/CD/AUT/CAM/001MAKE: PURAV	NO
110146544	LOADCELL,CSP,TRANSDUCER TECHNIQUES	LOADCELL,CELL MATERIAL: STAINLESS STEEL,ISA LANCE SPROCKET AXLE LOAD PIN,EXCITATION VOLTAGE: 10 VDC,SIGNAL: 1.5 MV/V@300 KN,CABLE,REQUIRED NUMBER OF CORE: TO SUIT LOADCELL,CONNECTOR TYPE: TO SUIT LOADCELL,REFERENCE DRG.NO. : SM-6-000239,FOR SPROCKET AXLE MIPAC,LABEL IN STAINLESS STEEL INCLUSIVE OF CALIBRATION DETAILS REQUIRED,CALIBRATION CERTIFICATE OF LOADCELL TO BE PROVIDED,MAKE: TRANSDUCER TECHNIQUES,MODEL NUMBER: CSP	NO
110146797	ASSY,ARC CONTACT ELEMENT,PN:035-13738	PART NAME: ASSEMBLY,ARC CONTACT ELEMENT,PART NUMBER: 035-13738,FOR 50 KA SHORTING SWITCH,MAKE: WATTEREDGE INC,FOR REFINERY	NO
110147088	BEARING,ROLLER,22334 M W33,170MM,120MM	BEARING,ROLLER,TYPE: SPHERICAL,SERIES: 22300 M W33,NUMBER OF ROWS: DOUBLE,DESIGN STANDARD: ISO 15,STYLE: SELF ALIGNING,CAGE MATERIAL: PRESSED STEEL,DESIGNATION: 22334 M W33,INSIDE DIAMETER: 170 MM,OUTSIDE DIAMETER: 360 MM,WIDTH/HEIGHT: 120 MM,MAKE: SKF,REFERENCE NUMBER: 22334 M W33	NO

110147171	CONTROLLER,TEMP,DIGITAL,1000-1750 DEG.C	CONTROLLER,TEMPERATURE,TYPE: DIGITAL,DISPLAY: 1/2 INCH KING BRIGHT,SENSOR TYPE: THERMOCOUPLE,MOUNTING TYPE: PANEL,TEMPERATURE RATING: 1000 TO 1750 DEG.C,ACCURACY: +/-0.1% OF FULL SCALE,FREQUENCY RATING: 50 HZ +/-3%,VOLTAGE RATING: 230 VAC +/-10%,6 INCH REMOTE DISPLAY UNIT FOR HIGHER VISIBILITY FROM A FAR AWAY DISTANCE 150 MM X 7 SEGMENT INSTAMETER BRAND BATTERY OPERATED PORTABLE CALIBRATING AND CHECKING DEVICE,HAVING FACTORY SET CHECK POINTS AT 1150,1350,1500 AND 1650 DEG.C,SIGNALING PANEL: FOUR HIGH DENSITY SIGNAL LAMPS FOR FIELD INDICATION OF PROCESS ALONG WITH INDUSTRIAL HOOTER HOUSED IN SHEET METAL FABRICATED BOX COMPLETE WITH INTERNAL WIRING CABLE FOR INTERFACING WITH THE MAIN MELTEMP UNIT TO FOLLOW SYNCHRONOUSLY. TECHNICAL SPECIFICATION: -TYPE OF THERMOCOUPLE: S (PT-PTRH10%),CALIBRATION RANGE: FOR S-TYPE: 0 TO1750 DEG.C,M.I.P: FIELD SETTABLE FROM 0 TO 9 SECONDS,DEFAULT 4 SECONDS PLATEAU DETECTION: FIELD SETTABLE FROM 1 TO 99 DEG.C,DEFAULT VALUES 5 DEG.C,AUTO RE-SETTING: PROVIDED ON INSERTION OF THERMOCOUPLE TIP,MAX 3 DEG.C,RESOLUTION: +/-1 DEG.C,CJC: AUTOMATIC-BUILT IN FROM 0 TO 55 DEG.C,AMBIENT TEMPERATURE RATING: 0 TO 55 DEG.C,RELATIVE HUMIDITY: 0 TO 85% WITHOUT CONDENSATION,DISPLAY: 1/2 INCH KING BRIGHT DISPLAY WITH AUDIO VISUAL ALARM,SYSTEM SELF TEST,PASSWORD MEASUREMENT TECHNIC: PLATEAU DETECTION,NUMBER OF PHASE: 1 PH,SIZE OF INSTRUMENT: 96 X 96DIN WMC,SIZE: 10 X 10 X 15 INCH WEIGHT INCLUDING WMC: 5 KG WITH ISOLATED RS-232 CABLE OUTPUT,MAKE: FYKAYS,MODEL NUMBER: MELTEMP MK1	NO
110147254	INERTIA FLY WHEEL OF DC NO-BREAK SYSTEM	FLY WHEEL OF DC NO-BREAK SYSTEM -SMELTERINERTIA FLY WHEEL OUTER DIA:1510 mmFLY WHEEL WIDTH: 350mmFITTED WITH STEEL SHAFT LENGTH:1846mmBEARING SIZE DIA OF SHAFT :180mmMAX DIA OF SHAFT :210mmM.O.C OF SHAFT SHOULD BE ADEQUATE WITHA MINIMUM FACTOR OF SAFETY -18 TO 20THIS FLYWHEEL SHOULD WITHSTAND APERIPHERAL SPEED OF427KM/HOUR PLUS 10 % ADDITIONAL SPEEDWITH A MAXIMUM LIFE OF 100000 (ONE LAC)HOURS (FOR A PERIOD OF 12 YEARS AT THESTRESSING CYCLE OF 20NOS PER DAYFOR CHARGING & DISCHARGING THE STRESSES.THE INERTIA FLYWHEEL SHOULD BE EXACTLYIDENTICAL TO ITEM(7) 450KW DC NO-BREAKSYSTEM SUPPLIED & INSTALLED AS PER DGROOM LAY OUT DRAWING REF AS BLOWJNS / 374 / M REV (4) DATED 26/04/1996TECHNOLOGY PROVIDER -M/S PENVAN,FRANCESUPPLIER:M/S JUPITER NO-BREAK SYSTEM,DELHI.	NO
110147580	TX,LEVEL,RADAR,FMR245-A4ALKAA4A,E&H	TRANSMITTER,LEVEL,TYPE: RADAR,ACCURACY: +/-3 MM,OUTPUT SIGNAL: 4 TO 20 MA,TEMPERATURE RATING: 150 DEG.C,MODEL NUMBER: FMR245-A4ALKAA4A/MICROPILOT-M FMR245 SMALL HORN ANTENNA,PTFE CLAD2-WIRE LOOP POWERED,MENU BASED OPERATIONS FLAT BOTTOM,MAKE: E&H,MODEL NUMBER: FMR245-A4ALKAA4A	NO
110147815	MOTOR,ELEC,LT,KMDC 803,675RPM,7.5KW,37A	MOTOR,ELECTRICAL,TYPE: LT,APPLICATION: 15 TON CRANE,ENCLOSURE: IP55,FRAME SIZE: KMDC 803,SPEED RATING: 675 RPM,POWER RATING: 7.5 KW,CURRENT RATING: 37 A,VOLTAGE RATING: 230 VDC +/-10%,DUTY: S2,AMB TEMPERATURE: 45 DEG.C	NO
110147972	BEARING UNIT,PLUMR BLCK,SN 628,SKF	BEARING UNIT,PLUMMER BLOCK,DESIGNATION: SN 628,BLOCK HEIGHT: 375 MM,SHAFT HEIGHT: 180 MM,BLOCK LENGTH: 630 MM,BLOCK WIDTH: 235 MM,OUTSIDE DIAMETER: 300 MM,INSIDE DIAMETER: 125 MM,WIDTH: 170 MM,WITH SLEEVE,LOCK NUT,LOCK WASHER H2328 AND BEARING NUMBER 22328 K,(FELT SEAL TO BESUPPLIED WITH BLOCK),MAKE: SKF,REFERENCE NUMBER: SN 628,MAKE: SKF,REFERENCE NUMBER: 22328 K	NO
110147984	SLEEVE,BRG,EFZLQ (28-280),280MM	PART NAME: SLEEVE,PART SIZE: 280 MM,FOR NDE SIDE BEARING,MAKE: RENK,GERMANY,MODEL NUMBER: EFZLQ (28-280),SERIES: STG	NO

110148344	IMPELLER,FAN,AF-C-2240,DIA:2260MM	PART NAME: IMPELLER,PART SIZE: DIA: 2260 MM,TYPE: BACKWARD CURVE,WITH SHAFT,IMPELLER TO BE DYNAMICALLY BALANCED,MATERIAL CONSTRUCTION: 1.IMPELLER BACK PLATE: IS 2062/10 MM+6 MM FRV,2.BLADE: IS 2062/8 MM+6 MM FRV,3.SHROUD: IS 2062/8 MM+6 MM FRV,4.HUB: 6 MM FRV MILD STEEL FABRICATED+FRV,5.SHAFT DIA AT BEARING AREA: STAINLESS STEEL-316/125 MM,MOC: FRV(SUPER VINYL ESTER RESIN) DEKARANE: 470.30,FOR FUME FAN,MODEL NUMBER: AF-C-2240,FAN SPEED RATING: 960 RPM	NO
110148774	HUB,CASTING MACHINE,PART NO:C20-1/4,CSP	CASTING WHEEL HUB FOR CASTING MACHINE, PART NO: C20-1/4, DRAWING NO:C41-1, SHEETS 2 OF SHEETS 5, A TOTAL ASSEMBLED PIECE WITH WELDING, MAKE:CONTINUUS PROPERZI	NO
110148788	IMPELLER,PUMP,WPP 53/100,PN:612968014L	PART NAME: IMPELLER,PART MATERIAL: SANICRO-28,PART NUMBER: 612968014L,FOR CENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 53/100,SERIAL NUMBER: 10049315	NO
110148790	COVER,CASING,PUMP,PN:142054014L	PART NAME: COVER,CASING,PART MATERIAL: SANICRO-28,PART NUMBER: 142054014L,FOR CENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 53/100,SERIAL NUMBER: 10049315	NO
110148791	ADAPTER,PUMP,WPP 53/100,PN:1420220152	PART NAME: ADAPTER,PART MATERIAL: SANICRO-28,PART NUMBER: 1420220152,FOR CENTRIFUGAL PUMP,MAKE: SULZER PUMPS,MODEL NUMBER: WPP 53/100,SERIAL NUMBER: 10049315	NO
110148795	MOTOR,ELEC,GEAR,8.2RPM,5.5KW,240/415VAC	MOTOR,ELECTRICAL,TYPE: GEARED,SQUIRREL CAGE INDUCTION,INSULATION CLASS: CLASS-B,NUMBER OF POLE: 4P,SPEED RATING: 1430/8.2 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 5.5 KW,FREQUENCY RATING: 50 HZ,CURRENT RATING: 11 A FLC,VOLTAGE RATING: 240/415 VAC,FOR ESP DCC-1,DUTY: S1,SERIALNUMBER: 01.1196346001.0002.07,MAKE: SEW EURODRIVE,MODEL NUMBER: R137DV132S4/TE	NO
110148797	MOTOR,ELEC,GEAR,1420/2.8RPM,3.7KW,415VAC	MOTOR,ELECTRICAL,TYPE: GEARED,SQUIRREL CAGE INDUCTION,ENCLOSURE: IP55,MOUNTING TYPE: B3-FOOT,INSULATION CLASS: CLASS F,NUMBER OF POLE: 4P,SPEED RATING: 1420/2.8 RPM,NUMBER OF PHASE: 3PH,POWER RATING: 3.7 KW,FREQUENCY RATING: 50 HZ,CURRENT RATING: 11 A FLC,VOLTAGE RATING: 415 VAC,FOR ESP DCC-3,DUTY: S1,SERIAL NUMBER: 51105,MAKE: IC BAUER,MODEL NUMBER: G118631-10/D2A4-309K	NO
110149013	MOTOR,ELEC,SCI,1492RPM,2611KW,266A,6.6KV	MOTOR,ELECTRICAL,TYPE: SQUIRREL CAGE INDUCTION,HT,INSULATION CLASS: CLASS F,NUMBER OF POLE:4P,SPEED RATING: 1492 RPM,NUMBER OF PHASE: 3 PH,POWER RATING: 2611 KW,FREQUENCY RATING: 50 HZ +/- 5%,CURRENT RATING: 266 A,VOLTAGE RATING: 6.6 KV +/-10%,POWER FACTOR: 0.89,CONNECTION: STAR,SPARE MOTOR FOR O2-1 PLANT,MAIN AIR COMP IDENTICAL TO MOTOR HAVING SERIAL NUMBER: 4558818,MAKE: FINLAND,MAKE: ABB,MODEL NUMBER: AMA 500 L 4W	NO
110149597	GEARBOX,HELICAL,31.5:1	GEARBOX,TYPE: HELICAL,GEAR RATIO: 31.5: 1,MODEL NUMBER: HTN 200	NO
110149605	SHAFT,AGITATOR,RC TANK,RLGHQ-11	PART NAME: SHAFT,FOR AGITATOR,MAKE: RATHI LIGHTNIN,MODEL NUMBER: RLGHQ-11,FOR RC TANK,SGS-1	NO
110149606	IMPELLER,RC TANK,AGITATOR,A510/E22	PART NAME: IMPELLER,FOR AGITATOR,MAKE: RATHI LIGHTNIN,MODEL NUMBER: A510/E22,FOR RC TANK,SGS-1	SET
110149668	PROCESSOR,CPU,319-3PN/DP	PART NAME: PROCESSOR,CPU,MODEL NUMBER: 319-3PN/DP,MODEL NUMBER: 6ES7-318-1EL00-0AB0,VERSION: 2.4,MICRO MEMORY CARD,NECESSARY PROFIBUS DP EXTENDABLE,FOR PROGRAMMABLE LOGIC CONTROLLER,MAKE: SIEMENS,MODEL NUMBER: SIMATIC S7,FOR CCR-R	NO
110150378	BLOCK,HEAT EXCHANGER,DRG:GV/10673/3	PART NAME: BLOCK,DRAWING NUMBER: GV/10673/3,FOR HEAT EXCHANGER,MAKE: GRAPHITE INDIA LTD,TYPE: GRF6/DIA-10/6B,PHENOLIC IMPREGNATED,SERIAL NUMBER: 3683	NO
110150826	\$BLADE -AGITATOR 904L TT2/TT3 AS PER DRG	BLADE FOR TT2/TT3 -AGITATOR AS PER DRG :SIIL/PAP/FIL/380,MOC: 904L T.C REQUIRED FOR THIS MATERIAL	NO
110151120	\$AGITATOR ASSY R2 SANICRO-28 AS PER DRG	AGITATOR ASSEMBLY FOR REACTOR 2 AS PER DRAWING: SIIL/PAP/REA/381MOC: SANICRO-28, T.C REQUIRED FOR THIS MATERIAL	NO
110151121	ASSY,AGITATOR,SS-904L,SIIL/PAP/REA/382	PART NAME: ASSEMBLY,AGITATOR,PART MATERIAL: STAINLESS STEEL-904L,DRAWING NUMBER: SIIL/PAP/REA/382,TEST CERTIFICATE REQUIRED FOR THIS MATERIAL,FOR TRANSFORMATION TANK-4	NO

110151123	FRAME,ACTUATOR,DRG:V177-1M1 AND C20 -6M1	PART NAME: FRAME,ACTUATOR,DRAWING NUMBER: V177-1M1&C20-6M1,FOR AUTO CASTING MACHINE,CSPA,MAKE: CONTINUUS PROPERZI,CONSIST OF FOLLOWING ACCESSORIES 1) FRAME (95R-6/53M2) QUANTITY: 1,2)PIVOT (95R-6/62) QUANTITY: 2,3) SUPPORT (C4-6/45) QUANTITY: 1,4) AUTOCASTING SHAFT (C4-6/46) QUANTITY: 1,5) AUTOCASTING BRASS BUSH (95R-6/59M2) QUANTITY: 1,6) LOCATING SPACER (C4-6/48) QUANTITY: 2,7) LOCK NUT (C4-6/49) QUANTITY: 1,8) PLAIN WASHER TYPE (KEY NO: 21) QUANTITY: 4,9) COTTER PIN FOR MOUNTING PIVOT (KEY NO: 10) QUANTITY: 4,ALL THE PARTS TO BE SUPPLIED IN AN ASSEMBLED MANNER ONLY	SET
110151737	\$BLADEREACTOR AGIT R1,R1A,R1B+MATLSUPPLY	BLADE FOR REACTOR AGITATORS R1,R1A,R1B, MOC: SANICRO 28 AS PER DRAWINGSILL/PAP/REA/353 WEAR PAD FOR AGITATOR BLADES TO BE SUPPLIED BY THEPARTY AND TO BE ASSEMBLED SUPPLY INCLUDES:4 SHOES, 24 LOCKNUTS, 24 STUDS, 24 CUPS <(<<<>>><<<>>>> 48 WASHERS.24 WASHERS HAS AN O.D OF 28MM AND OTHER 24 WASHERS HAS AN O.D OF 50MM.,MOC OF BLADE SHOE: PP, MOC OF LOCK NUT: SANICRO-28,MOC OF STUD: SANICRO-28, MOC OF BOTH WASHERS: SANICRO-28,MOC CUP: PP	NO
110152237	CASTING WHEEL GEARED TEETH,TWIN CASTER	CASTING WHEEL GEARED TEETH WITH BEARING SMS DEMAG DWG NO: 38250002,MAKE: ROTHE ERDE, DRG.NO:062.35.3086.000.17.1504, GEAR TOOTHING PCD:2940, MODULE: 10, NO. OF TEETHS: 294, PRESSURE ANGLE: 20 DEG	NO
110152480	GEAR BOX,I=174/40,TY:SEW R137,EQP:ESP	GEAR BOX - NEW ISA ESP DCCTYPE : SEW R 137ROTOR SPEED : 8.2 RPMGEAR RATIO : i=174/40MAKE : LATEX, FINLAND	NO
110152853	WHEEL BASE DRIVE APM WAGON,PN:43412	WHEEL BASE DRIVE APM WAGON,PART NO: 43412, ARTICLE NO: 43412 APM WAGON,MAKE:OUTOTEC, EQP: APM, LOC: TUTICORIN RFNY	NO
110152854	WHEEL BASE DRIVE APM WAGON,P#:43485	WHEEL BASE DRIVE APM WAGON RFNYARTICLE NO:43485APM WAGONMAKE:OUTOTECEQP: APMLOC:TUTICORIN RFNY	NO
110153009	\$CARD,RBF IM DC DRIVE FIELD FILTER,RBF	CARD,RBF IM DC DRIVE FIELD FILTER, ELECTRONIC CARD FOR FIELD FILTER,TYPE: ZRD30100, MAKE: RBF, APPLICATION: RBF IM DC DRIVE FIELD FILTER	NO
110153011	\$FAN,RBF IM DC DRIVE COOLING,ZIEHL,47W	FAN,RBF IM DC DRIVE COOLING,ZIEHL, COOLING FAN FOR IM DC DRIVE COOLING,RATING: 230/400VAC,50HZ,1.75/1.0A, SIZE:3 INCH, TYPE:ZIEHL-ABEGG208303K/RH40M-4DK.4F.IR, SPEED: 1360RPM, POWER FACTOR: 0.68, MAKE:ZIEHL, APPLICATION: RBF IM DC DRIVE COOLING	NO
110153205	MOTOR, OUTDOOR, CRANE- 1, A/C, PN:158146	MOTOR, COMPRESSOR 12.5 HP, OUTDOOR, 9.3 kw,460 AC,1480 RPM, PART NO:158146, MODEL NO: 24824-5C2, MAKE: LINTERN FOR AIR CONDITIONER USE	NO
110153240	PANEL HOOD TRANSITION FOR CONVERTOR	PANEL HOOD TRANSITION FOR CONVERTORWATER COOLED HOOD TRANSITION PANEL ASSEMBLY AS PER REFERENCE DRAWING NO MUKUND 6523140/1ACTUAL DIMENSIONS TO BEVERIFIED BY SUPPLIER AT SIIL SITE.MOC: SA 516 GRADE 70The following points to be included as part of ensuring the QA of the material to be supplied.1. 100% radiography to be checked for the weldment.2. Die Penetrant test to be carried out while welding the panel3. Hydro test to be carried out as specified in the drawing.4. Stress relieving to be done for the panel(s) .5..MOC test to be carried out.All certificates to be submitted with supply of material .	SET
110153517	\$CASING FORPUMP:CAHRK 700 E, SMO 654	CASING FORPUMP:CAHRK 700 E, SMO 654CASING FOR PUMP MODEL :CAHRK 700 E, ITEM NO: 51, FAB NO: 07.21228.00,MOC: SMO 654,MATERIAL T.C REQUIRED FOR THIS MATERIAL, HARDNESSSHOULD BE MORE THAN 240 BHN	NO
110153575	\$COMPRESSOR,PN:250873,NEW CRANE, LINTERN	SEMI - HERMETIC COMPRESSOR 415 / 3 / 50, PART NO: 250873, MODEL NO:33624 - 1 B 1, MAKE: LINTERN, FOR AIR CONDITIONER USE	NO
110153576	\$COMPRESSOR,PN:250939,NEW CRANE,LINTERN	SEMI - HERMETIC COMPRESSOR 415 / 3 / 50, PART NO: 250939, MODEL NO:34824 - 1 B 2, MAKE: LINTERN FOR AIR CONDITIONER USE	NO
110153582	\$HOOK UP KIT 348,NEW CRANE,PN:251337,LIN	INTERNAL 348 HOOK UP KIT CORROSOIN PROTECTION, PART NO: 251337-CO, MODELNO : 34824 - 1 B 2, MAKE: LINTERN FOR AIR CONDITIONER USE	NO
110153583	\$HOOK UP KIT 336, NEW CRANE,CABIN,251326	336 INTERNAL HOOK UP KIT CORROSOIN PROTECTION, PART NO: 251326-CO, MODELNO : 33624 - 1 B 1, MAKE: LINTERN FOR AIR CONDITIONER USE	NO
110153985	\$THRUST PAD WITH HOLE,AXIAL,SFO 9 KKK	AXIAL THRUST PAD WITH HOLE FOR THERMOMETER, PART NO: 10491555405,MACHINE NO: 1049054, POS:10, DWG NO:10491502603ONE SET = 2 NOS, PLACE OF USE: SFO 9, KKK BLOWER	SET

110154328	\$PANEL,SIMATIC OPERATOR MP277,24V, SIEME	SIMATIC MP 277 10"-OPERATOR PANEL, MODEL: 6AV6643-0DD01-1AX1MAKE :SIEMENS, SUPPLY :24 V, MULTIPANEL W. RETENTIVE MEMORY10.4" TFT COLOR DISPLAY, 6 MB USER MEMORY CONFIG. WINCC FLEXIBLE 2005,STANDARD SP1, LOCATION: CCR	NO
110154658	\$GEARBOX MODEL G2A-G5A SAP1 SFO9,KKK	GEARBOX MODEL NO G2A-G5A COMPLETE GEAR BOX OF THE SFO 9 BLOWERMACHINE NO:1.049.041, KKK BLOWER, PART NO: 4230000-037,POS 240BLOWER SPEED: 5924RPM, PLACE OF USE:SAP 1 SFO 9	NO
110154685	HEAD PULLEY ASSBLY,BC4,SRM-028-GA-HP-01A	HEAD PULLEY ASSBLY FOR CONVEYOR BC4FOR BC4 CONVEYOR 800 MM BELT WIDTHAS PER DRAWING SRM-028-GA-HP-01A	SET
110154686	HEAD PULLEY ASSBLY,BC5,SRM-028-GA-HP-01A	HEAD PULLEY ASSBLY FOR CONVEYOR BC5FOR BC5 CONVEYOR 800 MM BELT WIDTHAS PER DRAWING SRM-028-GA-HP-01A	SET
110154688	HEAD PULLEY ASSBLY,BC7A,SRM028-GA-HP-01A	HEAD PULLEY ASSBLY FOR CONVEYOR B7AFOR BC7A CONVEYOR 800 MM BELT WIDTHAS PER DRAWING SRM-028-GA-HP-01A	SET
110154800	\$ROTOR -VACUUM PUMP,MODEL:VW 900, PPI,	ROTOR FOR VACUUM PUMP, MODEL NO:VW 900, MAKE: PPI, MOC:SS316L,T.C REQUIRED FOR THIS MATERIAL	NO
110154891	\$LOAD CELL - RTN 4.7 C5 HIGH TEMP	LOAD CELL - RTN 4.7 C5 HIGH TEMP, Service: Twin caster Weigh ladle,Sensitivity: 2,85 mV/V 2,85 ?V/V, Accuracy class: C5Combined error: 0.01 %, Minimum dead load output return: 0.006%Service temperature range: +110°C, Protection class:IP 68, 1m / 100hr;(Option 1	NO
110155029	\$WHEEL UNIT KARL GEORG 630299, MAKE:TMT	WHEEL UNIT KARL GEORG 630299, MATERIAL MASTER:6021979, MAKE:TMT	SET
110155030	\$CLAY BARREL D125-75 OFFSET LH, MAKE:TMT	CLAY BARREL D125-75 OFFSET LH, MATERIAL MASTER:9012505S1, MAKE:TMT	SET
110155039	\$CONE D125X290-75 OFFSET, MAKE: TMT	CONE D125X290-75 OFFSET, MATERIAL MASTER:9011463, REF:707-0308235 1/1 0,MAKE: TMT	NO
110155041	\$FLEXIBLES-CABLE TRACK STERLITE,MAKE:TMT	SET FLEXIBLES FOR CABLE TRACK STERLITE, MATERIAL MASTER:6014937, MAKE:TMT	SET
110155042	\$FLEXIBLES-CABLE TRACK STERLITE,MAKE:TMT	SET FLEXIBLES FOR CABLE TRACK STERLITE, MATERIAL MASTER:6014936, MAKE:TMT	SET
110155043	\$DRILL CARRIAGE NF STERLITE LH,MAKE: TMT	DRILL CARRIAGE NF STERLITE LH, MATERIAL MASTER:TMT0334509,REF:T1-00004-0334509 1/1 0, MAKE: TMT	SET
110155044	\$CHAIN FEED BPI 654939 PHD420/HV36L,TMT	CHAIN FEED BPI 654939 PHD420/HV36L, MATERIAL MASTER:6008820, MAKE: TMT	NO
110155047	\$FEED SLIDING WITH HOOD BPI 657065, TMT	FEED SLIDING WITH HOOD BPI 657065, MATERIAL MASTER: 6006724, MAKE: TMT	SET
110155048	\$CENTERING DEVICE BBG 645159, MAKE: TMT	CENTERING DEVICE BBG 645159, MATERIAL MASTER:6017105, MAKE:TMT	SET
110155129	\$BEARING JOURNAL,WHEEL,SFO14GEARBOX,KKK	WHEEL JOURNAL BEARING OF DAVID BROWN GEAR BOX MODEL HSGP 315, BEARINGSIZE: 160MM DIA, 120MM LONG, TYPE: LEMON BORE, GEAR BOX DRAWING NO:65353, DAVID BROWN, PLACE OF USE:SAP 1,SFO 14 BLOWER	NO
110155130	\$BEARING THRUST,WHEEL,SFO14GEARBOX,KKK	WHEEL THRUST BEARING OF DAVID BROWN GEAR BOX MODEL HSGP 315, GEAR BOXDRAWING NO: 65353, DAVID BROWN, PLACE OF USE:SAP 1,SFO 14 BLOWER	NO
110155136	GEARED MOTOR 0.75KW,RPM:390.135:1,PBL	GEARED MOTOR 0.75KW PBL WF COAL #1, TYPE:HFS50-32.1KII, KW/HP:0.75, MAKE: PBL, RPM 390.135:1, FOR COAL WEIGH FEEDER #1	NO
110155212	\$BEARING IGV,MOD: SEZ 20,ID # 13852115	BEARING IGV, PDS NO: 22/114.3 ID NO: 13852115, MODEL: SEZ 20/1, COMPNO:8682, MAKE:DAMAG	SET
110155218	\$PINION FOR OIL PUMP,ID #43123215,SEZ20	PINION FOR OIL PUMP, PDS NO: 48/111.7 ID NO: 43123215, MODEL: SEZ 20/1,COMP NO:8682, MAKE: DEMAG	NO
110155351	\$HV BUSHING WITH SEALING,CAP:86KV&800MA	HIGH VOLTAGE BUSING WITH SEALING FOR WET ELECTROSTATIC PRECIPITATORTRANSFORMER RECTIFIER SET. MAKE: LURGI, CAPACITY: 86KV AND 800Ma	NO
110155463	\$PUMP MAIN OIL,TA160,PART#:P1401428-0471	PUMP MAIN OIL, TA160, PART NO: P1401428-0471, MFR: ALLWEILER,SERIES: USNGF,SIZE:440EL-40, ROT: CCW, IN: 5-125FF, OUT: 4-250FF, TP:SCREW, BODY-MAL: C.I, TYPE-MTG: FLANGE, RV-SET: 75 PSIG, SHAFT SEAL:MECHANICAL SEAL.	NO
110156117	\$RHFMATTE SPOUT COPPER BLOCK ASPERDRG	RHFMATTE SPOUT COPPER BLOCK, DRILLED & PLUGGED DESIGN, REFERENCE DRG: FFM0719 REV.4, MOC: ETP Copper Grade	NO
110156268	\$CONTOUR RING,FISRT STAGE,VK50-3	CONTOUR RING 765-65, DRG.NO: 73116515, ID NO: 73048215, COMPRESSOR FIRSTSTAGE, COMPRESSOR MODEL NO: VK50-3, MAKE: SIEMENS	NO
110156269	\$CONTOUR RING,SECOND STAGE,VK50-3	CONTOUR RING 615-65, DRG.NO: 73116515, ID NO: 73048415, COMPRESSORSECOND STAGE, COMPRESSOR MODEL NO: VK50-3, MAKE: SIEMENS	NO

110156270	\$CONTOUR RING,THIRD STAGE,VK50-3	CONTOUR RING 405-65, DRG.NO: 73116515, ID NO: 73048615, COMPRESSOR THIRDSTAGE, COMPRESSOR MODEL NO: VK50-3, MAKE: SIEMENS	NO
110156684	\$ROOF PANEL NO:II,MDIFIED,WHRB,DRG REV 0	ROOF PANEL NO:II MODIFIED, BOILER, AS PER DWG. NO: W887.01.07.03.005 REVNO 0, CONSISTS OF 04 SHEETS 1 OF 4, 2 OF 4,3 OF 4 AND 4 OF 4. MATERIALSPECIFICATION SHOULD BE AS PER DRAWING AND PARTLIST (W887.01.07.03.006SH. 1 TO 12 REV A) ALL OTHER TERMS AND CONDITION AS PER IBR REGULATIONIBR CERTIFIED WITH ALL MOC CERTIFICATES AND TEST CERTIFICATES. MAKE:THERMAL SYSTEMS PVT. LTD HYDERABAD	NO
110156710	\$SLIDING PLUG 700 VK50-3 O2-2,SIEMENS	SLIDING PLUG 700 VK50-3 O2-2 IGV, DRG NO: 73116515/POS NO.22-13ID NO: 551920415, COMPRESSOR MODEL NO: VK50-3, MAKE: SIEMENSCONTAINS 12 NO PER SET	SET
110156832	PUMP MTH 26010 CHAS LEWIS,13" IMPELLER	COMPLETE PUMP ASSEMBLY INCLUDING SUCTION EXTENTION AND SUCTION STRAINER,MODEL: MTH 26010, SIZE: 10 H, IMPELLER DIAMETER: 13 INCHES, FLOW:975M3/HR, HEAD: 24.7 MLC, MAKE: CHAS LEWIS & CO	NO
110157246	MOTOR DC,1.7KW,24VDC,BT SPE160 STACKER	MOTOR DC,1.7KW,24VDC,BT SPE160 STACKER, RATING:1.7KW,24VDC,93ASPEED: 2300RPM, DUTY: S2 60MIN, MOTOR TYPE NO: TSL MOB DS41MOTOR CODE NO: 2542124, IDENTICAL TO MOTOR S.NO: 4D84678 0547BT PART NO: 214302, MAKE: THRIGE ELECTRIC(BT INDUSTRIES)APPLICATION:BT SPE160 STACKER TRACTION	NO
110158213	\$GEAR BOX,HTNS 500 SPL,O/P RATIO: 67.4:1	GEAR BOX, HTNS 500 SPL, O/P RATIO: 67.4:1, FOOT MOUNTED 3 STAGE VERTICALGEAR BOX MODIFIED VERSION OF EXISTING GEAR BOX MODEL HTNS 500 SPL,RATIO: 50:1, POWER:110 KW,INPUT SPEED:1500 RPM. THE GEAR BOX WILL BEWITH SUITABLE MOTOR MOUNTING ADAPTOR TO MOUNT 110 KW,4 POLE,315 S FRAMESIZE ELECTRONIC MOTOR.THE GEAR BOX WILL HAVE OVERALL FOUNDATION DETAILSAND OUTPUT SHAFT EXTENSION DETAILS AS PER PLENTY PVE 14D MODEL.THE GEARBOX WILL HAVE INBUILT PUMP ARRANGEMENT FOR LUBRICATION OF TOP BEARINGAND TOP GEAR MESHES.THE INTERNAL BEARINGS WILL BE DOUBLE ROW SPHERICALROLLER	NO
110159343	DEMISTER PAD - DRYING TOWER(SAP)	DEMISTER PAD - DRYING TOWER(SAP)SL. NO. PARAMETER DRYING TOWER1. FLOW (NM3/HR) 2001692. SO2 (KGMOL/HR) 1116.383. O2 (KGMOL/HR) 1428.914. SO3 (KGMOL/HR) 05. H2O (KGMOL/HR) 06. N2 (KGMOL/HR) 6250.947. CO2 (KGMOL/HR) 134.318. TOTAL FLOW (KGMOL/HR) 8930.559. TEMPERATURE (O C) 45 (OPERATING) 60 MAXIMUM)10. PRESSURE (MMWC) -1400 OPERATING)- 1550(MAXIMUM)11. FLOW (AM3/HR) 26132112. FLOW (KG/HR) 29826313. DENSITY (KG/M3) 1.14INLET MIST LOADING: 1435 MG/NM3. BRINK MESH PAD: TYPE: TOWER GARDSTYLE:CACM, SHAPE: CIRCULAR SIZE: 5400 MM DIA. 150 MM THICK KG/M3 36SEGMENTS, MOC: MESH: ALLOY 20 & ALLOY 20/ TEFLON CO-KNIT, GRIDS: 316 LS/S, ?P: 50 MM WC, EFFICIENCY: 99.9% ON 2 MICRONS AND LARGER	NO
110159925	\$AGITATOR (RL) TT1 ASSY SS904L AS DRG	AGITATOR ASSY TT1 AS PER DRG DATA SHEET NO:255-DAT-004, MOC: SS 904L,T.C REQUIRED FOR THIS MATERIAL	NO
110160416	GEARBOX,7.7:1	GEARBOX,GEAR RATIO: 7.7: 1,GEAR BOX ASSEMBLY SERIES 27T FOR C.T FAN,SERIAL NUMBER: 95-2-912,MODEL NUMBER: 586-8V-03	NO
110160602	\$TRANSMISSION SHAFTSTAND 0,PARTNO:L4-4/4	TRANSMISSION SHAFT FOR STAND NO 0, PART NO: L4-4/4, DRAWING NO: L69 400,MAKE: CONTINUUS PROPERZI, PLACE OF USE:INTERMADIATE MILL STAND 0	NO
110160799	MOTOR 250KW FOR VFD APPLICATION	MOTOR 250KW, FOR BOILER FEED WATER PUMP, MOTOR DETAILS:250KW, 398 AFLC,VOLTAGE:415V, 2978 RPM, MAKE: SIEMENS, MOUNTING: FOOT, ENCLOSURETYPE:IP55, INSULATION: F CLASS, DUTY: S1, NDE SIDE BEARING SHOULD BEINSULATED ONE, FRAME: M2BA355/MLA2 VFD APPLICATION MOTOR, ENERGYEFFICIENT MOTOR	NO
110162795	ACTUATOR,ELEC,DYNC,DYNC 11001-004	ACTUATOR,ELECTRICAL,TYPE: DYNC,VOLTAGE RATING: 0 TO 24VDC,FOR NB SET DDC ENGINE,MAKE: BARBER-COLMAN,PART NUMBER: 23513192,MAKE: BARBER-COLMAN,MODEL NUMBER: DYNC 11001-004	NO
110163325	BARE PUMP+DYNAMIC SEAL WPP 32/80 SULZER	BARE PUMP WITH DYNAMIC SEAL WPP 32/80 SULZERSERIAL NO:100014359HEAD :55MCPACITY :31.9 L/SEC(114.84 M3/HR)BARE PUMP WHICH INCLUDES ALL THE BELOW PARTS1.WET END PARTS2.SEALING UNIT PARTS3.BEARING UNIT PARTSMAKE :SULZERMOC:OEM STANDARD (4U)ENERGY EFFICIENT PUMP	NO

110163326	BARE PUMP W/O SEAL ASSY WPP 44/150,SULZE	BARE PUMP WITH OUT SEAL ASSY WPP 44/150 SULZER SERIAL NO:100049321 HEAD :40M CAPACITY :62.8 L/SEC(226.08 M3/HR) BARE PUMP WHICH INCLUDES ALL THE BELOW PARTS 1.WET END PARTS 2.SEALING UNIT PARTS 3.BEARING UNIT PARTS MAKE :SULZER MOC:OEM STANDARD (4U) ENERGY EFFICIENT PUMP	NO
110164198	MOTOR,ELEC,VIBRATOR,1440RPM,3.7KW,7.5A	MOTOR,ELECTRICAL,TYPE: VIBRATOR,INSULATION CLASS: CLASS H,SPEED RATING: 1440 RPM,POWER RATING: 3.7 KW,FREQUENCY RATING: 50 HZ,CURRENT RATING: 7.5 A,VOLTAGE RATING: 415 V,DUTY: S1,WITH SUITABLE COUNTER WEIGHT GUARD FOR COUNTER WEIGHT GREASING PROVISION SHOULD BE THERE FOR MOTOR BEARING,MAKE: ELECTROMAGNETIC INDUSTRIES	NO
110165846	RADIO REMOTE TRANSMITTER FOR CRANE,COMBI	RADIO REMOTE TRANSMITTER FOR CRANE,COMBI RADIO REMOTE TRANSMITTER WITH SHOULDER HELD JOYSTICK TYPE AND TRANSMITTER SUITABLE TO OPERATE EOT CRANE.MODEL:COMBI MAKE:SNT CONTROLS,MUMBAI"	0
110166179	MOTOR 4KW FOR TWINCASTER DRIVE-CONRAD	MOTOR 4KW FOR TWINCASTER DRIVE AC SQUIRREL CAGE INDUCTION MOTOR APPLICATION : VARIABLE SPEED DRIVE POWER : 4 KW VOLTAGE : 415V +/- 10% FREQUENCY : 50HZ +/- 10% SPEED : 950 RPM DUTY : S1 ,FACTOR : 1.8 TORQUE : 30 Nm ISO CLASS : IP55 FRAME : DR132 S - 6 MOUNTING TYPE : B5 MAKE : CONRAD (>&<) CO.GMBH	NO
110167954	CASING COVER FOR DHF FEED PUMP	CASING COVER FOR DHF FEED PUMP CASING COVER FOR WPP 55-300:PUMP MODEL:WPP 55-300 MOC: SANICRO 28 PART NO:161T.C REQUIRED	NO
110167955	IMPELLER FOR DHF FEED PUMP	IMPELLER FOR DHF FEED PUMP IMPELLER FOR WPP 55-300:PUMP MODEL:WPP 55-300 MOC: SANICRO 28 PART NO:230T.C REQUIRED	NO
110167956	WEAR PLATE FOR DHF FEED PUMP	WEAR PLATE FOR DHF FEED PUMP WEAR PLATE FOR WPP 55-300:PUMP MODEL:WPP 55-300 MOC: SANICRO 28 PART NO:135T.C REQUIRED	NO
110168534	CONVEYOR BELT 800MM(W) CONVEYOR #7A EP	CONVEYOR BELT 800MM(W) CONVEYOR #7A EP CONVEYOR BELT 800 MM WIDTH;STRENGTH 800/4 :NO. OF PLYS - 4 ; COVER 6/3 ; CONSTRUCTION EP;GRADE M24; MOULDED EDGE CONSTRUCTION CONFIRMING TO IS 1891	M
110168897	\$MOTOR 6.6KV 450KW,990RPM	\$MOTOR 6.6KV 450KW,990RPM Driven Equipment: Fan Motor type - Squirrel cage motor Motor type code - AMA 400L6ABA Mounting designation - IM 1001 Protected by enclosure - IP 55 Method of cooling - IC 611 Insulation - Class F Standards - IEC34/ IS:325 Ambient temperature, max. - 50 C Altitude, max. - 1000 m.a.s.l. Duty type - S1 Temp. rise - Class B (RES) Connection of stator winding - Star Rated output - 450 kW Voltage - 6600 V 10 % Frequency - 50 Hz 5 % Speed - 990 rpm Current - 51 A Relat. starting current - 6.0 Relat. starting torque - 0.9 Relat. maximum torque - 2.3 No load current - 21 A (Approx) Rated torque - 4338 Nm Direction of rotation - Bi-directional Sound level (sinus supply, no load) As per IS 12065 Vibration level (sinus supply, no load) As per IS 12075 Weight of rotor - 830 kg Total weight of motor - 3260 kg Inertia rotor / load - Approx. 22 kgm / 775 kgm Bearings - Antifriction Number of consec. starts - 3 / 2 (cold/warm) Maximum number of starts - 1000 / year RTD for winding - 12 nos. of PT-100, simplex type, 3 - wire BT for bearings - 1 per bearing of PT-100, duplex type, 6-wire Space heater - 1 no., 1-phase, 480 W, 240 V Warm-up time constant - 30 min Cool-down time constant - 180 min "	NO
110169343	\$BACK PULL OUT FOR FC PUMP	BACK PULL OUT FOR FC PUMP BACK PULL OUT FOR FC PUMP MAKE:ENSIVAL MODEL: CAHRK 700EAS PER DRG AND ALL NECESSARY PARTS OF BACK PULLOUT WITH PARTS MENTIONED BELOW: BEARING FRAME (PART NO. 1) BEARING HOUSING (PART NO. 2) COVER PUMP SIDE (PART NO. 4) COVER DRIVE SIDE (PART NO.5) BEARING THRUST RING (PART NO. 6A) DEFLECTOR DISC (PART NO. 9) DRIVING SHAFT (PART NO.59) BEARING LOCKING NUT (PART NO. 92) BEARING FRAME AXIAL SETTING SCREW (PART NO. 144) BEARING 22224CC/W33 (PART NO. R1) SET OF DUPLEX BEARINGS 31319DF (KIT) WITH SPACER RING (PART NO.R4) SAFETY WASHER (PART NO.S1) BEARING RETAINER RING (PART NO. Ra) O-RING (PART NO. T8) O-RING (PART NO.T9) FELT (PART NO.F1) FELT (PART NO.F2) GREASER (PART NO. G1)	NO
110169706	NHHF-DE-BRG COOPER 01BC SDC3136160MMGRS	NHHF-DE-BRG COOPER 01BC SDC3136160MMGRS BRG WITH PLUMER BLK COOPER 01BC SDC3136160MMGRS DENHHF FILTER HEAD PULLEY FIXED END BEARING MAKE-COOPER	NO

110169707	NHHF-NDE-BRG COOPER 01BC SDC3136160MM	NHHF-NDE-BRG COOPER 01BC SDC3136160MM EXSRSBRG WITH PLUMER BLK COOPER 01BC SDC3136160MM EXSRS-NDENHHF FILTER HEAD PULLEY FREE END BEARINGMAKE-COOPER	NO
110170434	\$ROTOR MSG8,1-END,MAC A A3793711-00135	\$ROTOR MSG8,1-END,MAC A A3793711-00135ROTOR,MSG-8,1-END,MAC A-A3793711-00135,III STAGE ROTOR ASSEMBLY FOR MAC A.PARTNO : A3793711-00135,MAKE: JOY COOPER,MODEL : TA 160/15,SERIAL NO : X1115,ASSEMBLY CONSISTS OF THE FOLLOWING PARTS a) PINION , P/N : P1406522-00002b) IMPELLER,MACH, P/N : P1405630-00450,c) WASHER,BALANCE,ROTOR, P/N : P1407910-00005,d) PIN,DOWEL,PULL, P1791765-00016,e) NUT,IMPELLER,MACH'D P0063100-00014	SET
110170435	\$DIFFUSER,ADDL-MACH,MAC-A,A3405212-02962	\$DIFFUSER,ADDL-MACH,MAC-A,A3405212-02962DIFFUSER,SCROLL,W/DIFFUSER ASSEMBY,MAC A,P/N- A3405212-02962,III STAGE DIFFUSER ASSEMBLY FOR MAC A.PARTNO : A3405212-02962,MAKE: JOY COOPER,MODEL : TA 160/15,SERIAL NO : X1115,CONSIST OF a. SCROLL, W/DIFFUSER,P/N-A3405212-02962 b. COMMENT, MANUF, P/N-CM000003-00037	SET
110170436	\$INLET,3RD STAGE, MAC-A A3793778-00247	\$INLET,3RD STAGE, MAC-A A3793778-00247INLET,ADDL-MACH,MAC A,P/N-A3793778-00247,III STAGE INLET ASSEMBLY FOR MAC A.PARTNO : A3793778-00247,MAKE: JOY COOPER,MODEL : TA 160/15,SERIAL NO : X1115,ASSEMBLY CONSISTS OF THE FOLLOWING PARTS a) INLET,MACH , P/N : P1403771-02063,b) PIPE-NPL,STD-WEIGHT,STL , P0902470-00127,c) PIPE-NPL,STD-WEIGHT,STL , P0902470-00199,d) PIPE-FIT,THD,EL-90, P0901023-00001.e) PIPE-FIT,THD,CAP , P0901190-00001."	SET
110171078	PANEL,WATER COOLED,GOOSENECK PANEL ASSE	PANEL,WATER COOLED,PART NAME: GOOSENECK PANEL ASSEMBLY,PART MATERIAL: SA516 GRADE 70,DRAWING NUMBER: MEPL - A1 - SIIL - CD - 029, GOOSENECKASSEMBLY FABRICATION SHOULD BE DONE AFTER THE SITE MEASUREMENT	SET
110172180	MECHANICAL DRAFT,WOODEN,TOWER,DFID-5M-7	PART NAME: MECHANICAL DRAFT,PART MATERIAL: WOODEN,DRAWING NUMBER: PCTE/DFID-5M-7/FD,MANUFACTURER: PALTECH, DRAWING NUMBER: DFID- / GA, COOLING TOWER SHOULD HAVE THE REQUIRED NUMBERS OF FOLLOWING 1.COMPLETE TREATED STRUCTURAL MEMBER IN WOODEN CONSTRUCTION. FILL HANGERS. 3.PP SPLASH FILLS. 4.HDG HARDWARES. 5.HDG FAN GAURD. 6.FLOW CONTROL VALVES. 7.FAN CYLINDERS(GRP). 8.GRP LOUVERS AND WALL CASINGS. MECHANICAL DRAFT COOLING TOWER SHOULD BE AS PER MODEL NO. 457 - 201 MAKE:PAHARPUR COOLING TOWERS	NO
110173993	GEARBOX,PN:910635300,PADDLE MIXER,REF LI	PART NAME: GEARBOX,PART MATERIAL: PART NO: 910635300,DRAWING NUMBER:DRAWING NO: 902008853 000 A	NO
110174065	BELT,MOTHER,FILTER,37M2,NHHF	BELT,FILTER,AREA: 37 M2,WIDTH: 3200 MM,TOP/BOTTOM COVER SIZE:25MM/8MM,CARCASS THK: 5 MM,CARCASS DETAILS: 4 PLY,POLYSTER,MOC: EPDM,HARDNESS: 50 TO 60 SHORE A,CLOTH IMPRESSION: INCLUDED,METHOD OF JOINING:HOT BONDED SPLICE AT THE FACTORY, OVER ALL THICKNESS:38MM,TOTAL LENGTH:33800 MM,METHOD OF SUPPORT:AIR CUSHION,DEPTH AT CENTRE:20MM,DEPTH AT EDGE:12 MM,DRAINAGE SLOT PER GROOVE IS 30 X 10MM(TO BE DONE AT THE SITE)	NO
110174562	HYD SYSTEM,PADDLE MIXER,PN:902008866,DN:	PART NAME: HYDRAULIC UNIT,DRAWING NUMBER: DRAWING NO: 902008866 000 A,HYDRAULIC PLANT INCLUDES HANDPUMP,HYDRAULIC CYLINDER,VALVES,HOSEPIPES,SCREW PLUG,SEALING RING,DISK,SPLIT PIN AND BOLTS.	SET
110174609	CHASSIS UNIT,PN:902011269,PADDLE MIXER,D	PART NAME: CHASSIS UNIT,PART MATERIAL: PART NO : 902011269, INCLUDINGWORM GEAR PAIR MOTORS (920000477 - 1NO, 920000476 - 1NO),SELFALIGNINGROLLER BRG(910275200 - 4NO) AND TWO LIP SEAL (910275500 - 8 NO)	SET
110174732	GEARBOX,34.7:1,BC-1,B3 280	PART NAME: GEARBOX,PART MATERIAL: 34.7:1	NO
110174827	GEARBOX,26.5:1,CC-1,R93 Z	PART NAME: GEARBOX,PART MATERIAL: 26.5:1	NO
110174828	GEARBOX,30.92:1,BF-3&4,R103 Z	PART NAME: GEARBOX,PART MATERIAL: 30.92:1	NO
110174829	GEARBOX,31.5:1,CON 5B,CSC 315	PART NAME: GEARBOX,PART MATERIAL: 31.5:1	NO
110174831	CERAMIC BLADES,PADDLE MIXER,SIIL-SMLT-M	CERAMIC BLADES,PADDLE MIXER,DRAWING NUMBER: SIIL-SMLT-MECH-226,APPLICATION: PADDLE MIXER,MOTHER PLATE MOC:AR400,BOLT SIZE: M12,FIXING AGENT: CLS-444, EACH SET OF (25) CONSISTS OF (1) LEFT HAND BLADE, (1)RIGHT HAND BLADE AND (23) NEUTRAL BLADES	NO
110175417	WESP SPARE,CONTROL UNIT,V8	WESP V8 SPARE,CONTROL UNIT,, WESP SPARE,CONTROL UNIT,V8 SUITABLE FROWESP V8 (SIPREC T) REF: PROJECT 1046R1/2012 PLANT: SAP	NO

110177357	VSD,SINAMICS G120,45KW,PM240,IP20	VSD,SINAMICS G120,KW: 45,INPUT RATING: -,OUTPUT RATING: -,ENCLOSURE:IP20,TYPE: -,MLFB: -,MANUFACTURER: SIEMENS,MANUFACTURER MODEL:MLFB:6SL3224-OBE-33-7UA0,VERF, SINAMICS G120 POWER MODULE PM240 WITHOUTFILTER WITH BULT IN BRAKING CHOPPER 3AC380-480V +10/-10% 47-63HZ OUTPUTHIGH OVERLOAD: 37KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP -10 TO +50 DEG C OUTPUT LIGHT OVERLOAD: 45KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP -10 TO +40 DEG C 497 X 275 X 204 (HXWXD), FSE	NO
110179096	REGULATOR PRESS,PN:P3405573-0117	PART NAME: REGULATOR PRESS, REGULATOR, PRESS, MFR:CASHCO, MDL:32630,RANGE:6-45, CONN:1-1/2-NPTF, RATNG:300PSIG, CV:20.0, BODY-MTL:BRONZE, TRIM-MTL: SS, PN:P3405573-0117 FOR TA 160 COMPRESSOR	NO
110180728	BATH BLOCK I,CU,ISA FURNACE,SM-6-002328	PART NAME: BATH BLOCK I,PART MATERIAL: COPPER,DRAWING NUMBER: SM-6-002328 REV D,PART SIZE:2280 KG,STATIC ELECTROLYTIC TOUGH PITCHCOPPER TO UNS C11000 OR EQUIV	NO
110180729	BATH BLOCK II,CU,ISA FURNACE,PYROMETER	PART NAME:BATH BLOCK II,PART MATERIAL:COPPER,DRAWING NUMBER: SM 6-002328REV D,PART SIZE: 2280 KG	NO
110180730	BATH BLOCK III,CU,ISAFURNACE,SM-6-002328	PART NAME:BATH BLOCK III,PART MATERIAL:COPPER,DRAWING NUMBER:SM 6-002328REV D,PART SIZE: 1400 KG	NO
110181336	ASSY,IMP&SHAFT,SGS FD FAN,KBA 090-400010	PART NAME:ASSEMBLY,IMPELLER AND SHAFT,MODEL NUMBER:KBA 090-400010-231*0.94(SISW)	SET
110181337	ASSY,IMP&SHAFT,SGS ID FAN,KBA 080-450010	PART NAME:ASSEMBLY,IMPELLER AND SHAFT,PART SIZE:AS PER DRAWING, MAKE:RITZ,MODEL NUMBER:KBA 080-450010-191(90W)(SISW)	SET
110181693	SUPPORT INSULATOR -CONV.ALSTOM ESP	PART NAME: CYLINDRICAL SUPPORT INSULATOR,PART MATERIAL:3142520391217210U,DRAWING NUMBER:12-03589(REV.1),PART SIZE:HEIGHT500MM,MANUFACTURER: ALSTOM, DRAWING NUMBER: 1203589, WBS-ELEMENT: EEP-008110-01031107 MATERIAL NO:3142520391217210U,APPLICATION:NEW CONVERTERALSTOM ESP,MODEL NUMBER:APMSM1013-1107-MESPR-0001	NO
110181694	SHAFT INSULATOR- CONVERTER ALSTOM ESP	PART NAME:SHAFT INSULATOR,PART MATERIAL: 3142516391217210U,DRAWINGNUMBER:13-04669(REV.0),MANUFACTURER:ALSTOM,REFERENCE NUMBER:APMSM1013,WBS- ELEMENT:EEP-008110-01031106,APPLICATION:NEW CONVERTERALSTOM ESP,MODEL NUMBER:APMSM1013-1106-MESPE-0001	NO
110182174	BOILER,LHS PANEL 2,4,WHRB EVAPORATOR	BOILER,TYPE:LHS PANEL 2,4,SIZE:,APPLICATION: WHRB EVAPORATORCASING,MATERIAL COMPOSITION: TUBE SA210GRA1,FLAT IS2062GRB, BEND SA234GR.WPB,DRAWING NUMBER: W703-01-06-SA-261 REV 4,TEMPERATURE RATING: 330DEG C,PRESSURE RANGE: TEST PR 121.95 KG/CM2 AT AMB TEMP	SET
110182764	DC GENERATOR-450KW,1500RPM,,1800 AMPS	GENERATOR,ELECTRICAL,TYPE:DC GENERATOR,CURRENT RATING:1800 AMPS,POWERRATING:450 KW,VOLTAGE RATING:ARMATURE/FIELD: 250/160 VDC,MANUFACTURER:KIRLOSKAR,DRAWING NUMBER:31246195R1, FRAME: KHDC500SPL, MAKE:KIRLOSKARRPM:1500 ARMATURE VOLTAGE:250 V DC CURRENT:1800 AMPS WINDING:SHUNTCOMPENSATED DUTY: S1 MOUNTING: B3 ENCL:IP55 BRGS:CE- SKF 6332, NCE- SKFNU 232 EXCITATION: 150V, 6.9A COOLING:IC 0666 TERMINAL BOX: SUITABLEFOR 10 NOS OF 1C-630 SQ.MM CABLE RTDS:2NOS FOR CE BRGS,2NOS FOR NCEBRGS,2 NOS FOR MP, 2 NOS FOR IP	NO
110183256	RHS PANEL 2,4,WHRB EVAPORATOR CASING,TUB	PART NAME:RHS PANEL 2,4,PART MATERIAL:TUBE SA210GRA1,FLAT IS2062GRB,BEND SA 234 GR.WPB,DRAWING NUMBER: W703-01-06-SA-260 REV 4,PART SIZE: ASPER DRAWING,TEMPERATURE RATING:330 DEG C,PRESSURE RANGE:TEST PR 121.95KG/CM2 AT AMB TEMP	SET
110184947	RECEIVER,WIRELESS,TDM,RX14,HETRONIC	PART NAME:RECEIVER,WIRELESS,MANUFACTURER:HETRONIC,MANUFACTURER MODEL:RX14,TYPE:RX14 CHANNEL:434 REFERENCE PRODUCTION NO:10206148531/403C48REFERENCE SYSTEM NO:10306136453/GA609 MAKE:HETRONICS APPLICATION:TAPDRILL MACHINE REMOTE OPERATION	NO
110185102	BEARING REVERSE THRUST,PAC,CENTAC-C55MX3	PART NAME: BEARING REVERSE THRUST,DRAWING NUMBER:5X12693IM, PART NAME:BEARING REVERSE THRUST 250393,PART NUMBER:67755447IM,FOR PLANT AIRCOMPRESSOR,MAKE:INGERSOLL RAND,MODEL NUMBER: CENTAC-C55MX3	NO

110185332	SHAFT,ID FAN ,EN-19,CONV,IERBW-2240/980	PART NAME: ID FAN SHAFT,PART MATERIAL: EN-19, PART NAME: SHAFT FOR CONVERTER ID FAN,PART MATERIAL: NAXTRA/CARBON STEEL EN-19, FOR CONVERTOR INDUCED DRAFT FAN,MODEL NUMBER: IERBW-2240/980,TEMPERATURE RATING: 375DEG.C,MAXIMUM SPEED: 980 RPM,FIRST CRITICAL SPEED: 30% ABOVE OPERATIONSPEED,FAN DESIGN EFFICIENCY: 82% MAKE - ISEL (INDUSTRIAL SYSTEMS ANDEQUIPMENTS LIMITED)	NO
110185581	GEARBOX,TWIN CASTER DRIVE,VKVF 22	PART NAME: GEARBOX,MANUFACTURER: SMS MEER GMBH, MANUFACTURER MODEL:VKVF22, FOR TWIN CASTER MAIN DRIVE;SHOULD BE SUPPLIED WITH CORRESPONDING OUTPUT PINION	SET
110186773	GEARBOX,FABRICATED STL,TWIN CASTER DRIVE	PART NAME:GEARBOX,PART MATERIAL:FABRICATED STEEL,MAKE:SHANTI GEARSLTD;POWER:3.7 KW;INPUT SPEED:950 RPM;OUTPUT SPEED:3.2RPM;DUTY:S1,FACTOR:1.8;MOUNTING TYPE :FOOT MOUNTED;LOAD: 225 T(APPROX);SHOULD BE SUPPLIED WITH INPUT COUPLING HOUSING AND BASE BOLTS,APPLICATION:TWIN CASTER DRIVE	SET
110186986	CONVEYOR BELT,EP 400/4,800MM(W),M++	CONVEYOR,TYPE:BELT,APPLICATION: ROCK FEEDING,CAPACITY: 350TPH,SPEED RATING:2 M/S,ANGLE:35 DEG,CONVEYOR BELT,EP 400/4,800MM(W),COVER GRADE:M++ CUT EDGE CONSTRUCTION,6+3 MM COVER RUBBER THICKNESS LENGTH 1ROLL=300M WARRANTY:24 MONTHS FROM THE DATE OF COMMISSIONING OR 30 MONTHS FROM THE DATE OF DESPATCH OF SUPPLIES TC REQUIRED	M
110187196	BEARING,SPLIT,JOURNAL JPU 100-40 EXH.EN	BEARING,SPLIT,DESIGNATION:JOURNAL JPU 100-40 EXH.END,TYPE:P.NO:10,MAKE:TRIVENI TST-2080/114-5 TURBINE WO:C-2853	NO
110187197	THRUST BEARING,P.NO:64,TRIVENI TST-2080/	PART NAME: THRUST BEARING,APPLICATION: P.NO:64,MODEL NUMBER: TRIVENI TST-2080/114-5 TURBINE WO:C-2853,APPLICATION:P.NO:64,MODEL NUMBER:TRIVENI TST-2080/114-5 TURBINE WO:C-2853	NO
110187198	BEARING,SPLIT,JOURNAL PED.END,P.NO:65,T	BEARING,SPLIT,DESIGNATION: JOURNAL PED.END,TYPE: P.NO:65,MAKE: TRIVENI TST-2080/114-5 TURBINE WO:C-2853	NO
110187238	GEARBOX,SAP MAIN CT FAN,MODEL 674-4-05	PART NAME:GEAR BOX,GRDR ASSEMBLY SR 32.2 RT-12.93 : 1 CT MODEL NO: 674-4-05 SAP CT PCTL JOB REF NO :93-02-0915,APPLICATION:COOLING TOWER FAN	NO
110187387	FAN,ASSY,SAP MAIN CT,MOD:674-4-05	PART NAME:ASSEMBLY,ROTOR,FAN ASSY 336" DIA TYPE HP-4-8 CT MODEL NO:674-4-05 SAP CT PCTL JOB REF NO - 93-02-0915,APPLICATION:COOLING TOWER FAN	SET
110187533	MOTOR 6.6KV,500KW,992RPM,B3	MOTOR,ELECTRICAL,TYPE:3 PHASE SQUIRREL CAGE INDUCTION,APPLICATION:FAN,ENCLOSURE:IP55,MOUNTING TYPE: B3,INSULATION CLASS:CLASS F,NUMBER OF POLE:6,SPEED RATING:992RPM,NUMBER OF PHASE:3 PH,POWER RATING:500KW,FREQUENCY RATING:50 HZ,CURRENT RATING:54AMPS,VOLTAGE RATING: 6.6KV +/-10%,MOTOR MAKE:SIEMENS TYPE OF MOTOR : 1LA4 402-6AN70-2 SI.NO N8-1257296-010 M/C NO 64197950	NO
110187541	ACTUATOR,LP,8516-050,STG,WOODWARD	ACTUATOR,ELECTRICAL,TYPE:ELECTROHYDRAULIC,MATERIAL:ALUMINIUM,ENCLOSURE:IP67,ROTATION ANGLE:42 DEG,CONNECTION:4 PIN,SPEED RATING:2400RPM,TEMPERATURE RATING:-18 TO 93 DEGC,OPERATING PRESSURE RATING:150PSI,INPUT SIGNAL RANGE: 20MA TO 160MA,TORQUE RATING:16.5NM,MANUFACTURER: WOODWARD,PART NUMBER:8516050,TG-13E MODEL TGACTUATOR ROTATION:BOTH CLOCKWISE AND COUNTER CLOCKWISE CALIBRATION:1 TO 3 DEG AT 120MA AND 37 TO 39 DEG AT 160MA OUTPUT SHAFT:0.625-36 SERRATION ON BOTH SIDES OF CASE ELECTRICAL CONNECTION:4 PIN MIL-STD-1651-14S-2P APPLICATION:LP ACTUATOR FOR STG MAKE:WOODWARD	NO
110187542	ACTUATOR,HP,8516-114,STG,WOODWARD	ACTUATOR,ELECTRICAL,TYPE:ELECTROHYDRAULIC,MATERIAL:ALUMINIUM,ENCLOSURE:IP67,ROTATION ANGLE:42 DEG,CONNECTION:4 PIN,SPEED RATING:2400RPM,TEMPERATURE RATING:-18 TO 93 DEGC,OPERATING PRESSURE RATING:200PSI,INPUT SIGNAL RANGE:20MA TO 160MA,POWER RATING: 1/3 TO 1/2 HP,TORQUE RATING: 23.7 NM,MANUFACTURER:WOODWARD, PART NUMBER: 8516114,TG17EACTUATOR ROTATION: CLOCKWISE AND COUNTER CLOCKWISE OUTPUT SHAFT:0.625-36 SERRATION ON BOTH SIDES OF CASE CALIBRATION:1 TO 3 DEG FOR 20MA AND 37 TO 39 DEG FOR 160MA ELECTRICAL CONNECTION:4 PIN MIL-STD-1651-14S-2P APPLICATION: STG HP ACTUATOR MAKE:WOODWARD	NO

110187684	HEAT EXCHANGER,PLATE,DM WATER,100 KW	HEAT EXCHANGER,TYPE:PLATE HEAT EXCHANGER,S14-ST16-14-TK,FLOW RATE CUBICMETER PER HOUR:6 FOR PRIMARY,6 FOR SECONDARY,DENSITY TEMPERATURE DEGREEC IN PRIMARY 53/38 AND SECONDARY 30/35.8,DESIGN OVER PRESSURE BAR IN 6FOR PRIMARY AND 6 FOR SECONDARY,TEST OVER PRESSURE BAR IN 8 FORPRIMARY,8 FOR SECONDARY,HEAT TRANSFER 100KW,DRAWINGNO:630.10775.00.2E,IDENTIAL TO EXISTING HEAT EXCHANGER SERIALNO:630-32033-00,MAKE :DELMAS,APPLICATION: RECTIFIER DM WATER COOLING	NO
110187687	INDICATOR,WEIGHBRIDGE,920I,RICELAKE	PART NAME: WEIGHT INDICATOR,MANUFACTURER: RICE LAKE,MANUFACTURER MODEL:920I,WEIGHING ELECTRONICS MODEL:920I STAINLESS STEEL ENCLOSURETYPE:PANEL MOUNT WITH ON-BOARD SERIAL COM PORTS (3 RS232C AND 1 RS485)SUPPLY:230VAC INCLUDING CPU-1NO. A/D CARD:1 NO. DIO CARD-24 CH WITH FLATRIBBON CABLE-1NO. FRONT DISPLAY CARD WHITE COLOR DISPLAY WITH KEYPAD ANDWITH UMWB COD FILE,POWER CORD- 1 NO. APPLICATION:WEIGHBRIDGES 3,4 AND 5MAKE:RICELAKE,APPLICATION:WEIGHBRIDGE,MODEL NUMBER:920I	NO
110188004	BOW WITH AXLES,LADDLE,INTERMEDIATE,38200	PART NAME:BOW WITH AXLES,DRAWING NUMBER: 3820002,MANUFACTURER: SMS DEMAGPVT LTD,PART NUMBER: 38200004, SHOULD BE SUPPLIED WITH AXLE(38200005),AXLE(38200006),DISTANCE BUSH(38200007),LEVER(38200008) EACH01 NUMBER.ITEM NOS 02(BOW),03(>&<)04(AXLES),05(DUSTANCE BUSH),06(LEVER),APPLICATION:LADDLE,INTERMEDIATE	SET
110188005	TILTING FRAME,LADDLE,WEIGH,38200021	PART NAME:TILTING FRAME,DRAWING NUMBER: 38200021,MANUFACTURER: SMS DEMAGPVT LTD,PART NUMBER:38200024, SHOULD BE SUPPLIED WITH SUPPORT(38200027)(FREE SIDE AND FIXED SIDE)- 02 NOS, BEARING BLOCK(38200035) - 01 NO.ITEM NO 03(TITLTING FRAME),05(SUPPORT),15(BEARINGBLOCK),APPLICATION:LADDLE,WEIGH	SET
110188316	PINION SHAFT OIL CATCHER,SFO14,KKK	PART NAME:PINION SHAFT OIL CATCHER,PART MATERIAL:PART NO.1,DRAWINGNUMBER:DRG 65354 8 GC,SFO 14 KKK BLOWER,MACHINE NUMBER:1.052.026,GEARBOX MAKE:DAVID BROWN,GEAR BOX MODEL:HSGP 315,APPLICATION:KKKBLOWER,MODEL NUMBER:GEAR BOX MODEL:HSGP 315	NO
110188317	WHEEL SHAFT OIL CATCHER,SFO14,KKK	PART NAME:WHEEL SHAFT OIL CATCHER,PART MATERIAL:PART NO.6,DRAWINGNUMBER:DRG 65354 8 GC, FOR SFO 14 KKK BLOWER MACHINE NUMBER:1.052.026GEAR BOX MAKE:DAVID BROWN GEAR BOX MODEL :HSGP 315 PART NO.6,MODELNUMBER:GEAR BOX MODEL :HSGP 315,DRAWING NUMBER:DRG 653548 GC	NO
110188694	UPS,2X25KVA REDUNDANT,I4 SERIES,HIREL	UPS,UN-INTRUPTED POWER SUPPLY,RATING: 2X25 KVA REDUNDANT UPS,INPUTVOLTAGE RATING: 3 PHASE 380 / 400 / 415 V AC + NEUTRAL + EARTH,OUTPUTVOLTAGE RATING: 1PH ,110V AC , 50HZ, 1.2X25KVA@0.8PF @50 DEG.C PARALLELREDUNDANT INDUSTRIAL UPS SYSTEM WITH 3 PHASE 415V+/-10% 50HZ, INPUT 3WIRE SYSTEMS AND SINGLE PHASE 110V OUTPUT CONSISTS OF FOLLOWING. (UPSMODEL: I4 SERIES, DEGREE OF PROTECTION IP 42, DESIGN AMBIENT TEMPERATURE50 DEG.C)PAINT SHADE RAIL 7032 2 X 100% RATED FULLY CONTROLLED 6 PULSETHYRISTORISED RECTIFIER CUM CHARGER 2X100% RATED IGBT BASED PWMINVERTER.2X100% RATED BI-DIRECTIONAL STATIC SWITCHES MANUAL BYPASSSWITCH.REQUIRED AC <(><)>(>&<)>(><<)>> DC SWITCH GEARS (ISOLATOR +SEMI CONDUCTORFUSES).FIELD PROGRAMMABLE POT. FREE CONTACTS (5 NOS IN EACH UPS).DIGITALLED CUM LCD DISPLAY FOR STATUS,METERING,ALARM <(><)>(>&<)>(><<)>>FAULTS 2.BYPASSLINE EQUIPMENT PANEL CONSISTS OF 25KVA RATED 3PHASE I/P AND 110V OUTPUTWITH DOUBLE WOUND INSULATED ISOLATION TRANSFORMER (SCVS)THE FOLLOWING ITEMS INCLUDED IN THE SUPPLY WITH THE UPS1.2 x 30 nos OF 65AH BATTERY, 2. 2 NOS OF BATTERY STAND AND INTERLINKINGCABLE BETWEEN BATTERY AND UPS PANEL	NO
110189493	TRANSIT SEAL 544/1000,38281915,ISA BLOWE	PART NAME:TRANSIT SEAL 544/1000,PART MATERIAL: 38281915,APPLICATION:ISABLOWER,MODEL NUMBER:SEZ 20	NO

110189498	SHAFT,EN 19,ISA ID FAN,IERBW-2100/980	PART NAME: SHAFT,PART MATERIAL: EN 19,DRAWING NUMBER: ISA ID FAN,PARTSIZE: IERBW-2100/980, MAXIMUM SHAFT DIAMETER:240MM OVERALL LENGTH OF THESHAFT:4010MM SHAFT SLEEVE : ASTM 106 GR B HUB MAXIMUM DIAMETER:320 MMHUB MATERIAL : EN 8 OR ASTM 106 FLANGE : IS 2062 END PLATE : IS 2062	NO
110189499	SHAFT,EN 8/19 FORGED,ISA VENT GAS FAN	PART NAME:SHAFT,PART MATERIAL:EN 8/19 FORGED,DRAWING NUMBER: ISA VENTGAS FAN,PART SIZE:IERBW-2000/590,MAXIMUM SHAFT DIAMETER:125 MM OVERALLLENGTH OF THE SHAFT:1436 MM SHAFT SLEEVE:IS 2062 HUB MAXIMUMDIAMETER:200 MM HUB MATERIAL:EN 8 OR ASTM 106 FLANGE:IS 2062 END PLATE:IS 2062	NO
110189908	GEARBOX,VENTURI PLUMBOB,GCP1	GEARBOX,TYPE:B320,APPLICATION:GCP 1 VENTURI PLUMB BOB,CASING MATERIAL:CI,MOUNTING TYPE:FOOT WITH FLANGED,SPEED RATIO:4:1,MAKE-LIMITORQUE,TYPE-B320,SIZE-20,RATIO-4,ORDER-94880-003,SERIAL NO.L862129,WITH OUTPUTSCREW SHAFT WITH FLANGE	NO
110189909	GEARBOX,VENTURI PLUMBOB,GCP2	GEARBOX,TYPE:BEVEL,APPLICATION:GCP2 VENTURI PLUM BOB,CASING MATERIAL:CI,MOUNTING TYPE:FOOT WITH FLANGED,SPEED RATIO:3:1,MAKE-LIMITORQUE,TYPE-B320,SIZE-20,RATIO-3,ORDER-116937-005,SERIAL NO.L934145,WITH OUTPUTSCREW SHAFT WITH FLANGE	NO
110190205	BELT,FLEXOWALL CONVEYOR FOR SILICA PAP	PART NAME:FLEXOWALL BELT,PART MATERIAL:NYNOL / NYLON,DRAWING NUMBER:MPI/804/GAFC-04 REV01,CORRUGATED SIDEWALL CONVEYOR BELT MAKE QUINDOAFRONT INDUSTRY CO.LTD CONVEYOR NO FWC-01 MATERIAL HANDLED SILICA VERTICAL LIFT 14.025M HORIZONTAL LENGTH 9.739M (C/C)SPEED 1 M/S DENSITY0.5 T/M3 CAPACITY 20 TPH WIDTH 800 MM TYPE NYNOL/NYLON COVER THICKNESS 4/2 MM (T/B) FABRIC 400/3 PLY 3 GRADE M - 2 INSERTS 150MM CLEATS 180 MMHIGH CLEAT LENGTH 350 MM PITCH 378 MM SUPPLIED BY MODTECH MATERIALHANDLING PROJ DRAWING NO MPI/804/GAFC-04 REV01,APPLICATION:SILICA	M
110190321	MOTOR,NBSET,600 KW,6.6 KV,1489 RPM	MOTOR,ELECTRICAL,TYPE:3 PHASE SQUIRREL CAGE INDUCTION,APPLICATION:NOBREAK SYSTEM,ENCLOSURE:IP55,MOUNTING TYPE: B3-FOOT,INSULATION CLASS:CLASS F,FRAME SIZE:SCX630FSPL,NUMBER OF POLE:4,SPEED RATING: 1489,NUMBEROF PHASE: 3,POWER RATING:600 KW,FREQUENCY RATING:50 HZ,CURRENT RATING:62,VOLTAGE RATING:6600 V,APPLICATION:DC NO BREAK SYSTEM TYPE OF DUTY :S1 CDF:CONTINUOUS TYPE OF COUPLING:DF MOTOR GD. SQ.:82 KG.M2BEARINGS:ANTIFRICTIONAL LUBRICATION: GREASE DIRECTION OF ROTATION: BIPULL OUT TORQUE:2.9 PU LOCKED ROTOR TORQUE:0.90 PU LOCKED ROTORCURRENT:5.4 PU APPLICABLE STANDARDS: IS325 EFFICIENCY CLASS:IE3 THERMALWITHSTAND TIME (HOT/COLD):15/20 SEC METHOD OF STARTING:DOL	NO
110191219	VALVE,GATE,KNIEF,FC SUCTION,30INCH	VALVE,GATE,TYPE: KNIEF GATE,BODY MATERIAL:SS316L,GATE TYPE:KNIFE,SEATTYPE:EPDM,GATE MATERIAL: HASTALLOY C-2000,SEAL MATERIAL:EDPM,PACKINGMATERIAL:SS316L,END CONNECTION:FLANGED AND DRILLED,OPERATION TYPE:HYDRAULIC CYLINDER,TEMPERATURE RATING:98 TO 105 DEG.C,END TO ENDDIMENSION:390MM,NOMINAL SIZE:30INCH,VALVE TYPE CLARKSON RESILIENT SEATEDBI DIRECTIONAL PACKING LESS DESIGN SLURRY KNIFE GATE VALVE PRODUCT CODECLARKSON VALVES CLA KGA HD RE BODY SS 316L GATE MATERIAL HASTALLOY C2000SLEEVES EPDM ENCAP RING SECONDARY SEAL MATERIAL EPDM RETAINER FLANGESEPDMM RUBBER LINED FRAME MATERIAL SS316L FLANGE DRILLING ANSI B1647 CLASS150 SPLASH GUARD SS316L ACTUATOR TYPE HYDRAULIC CYLINDER HYDRAULICCYLINDER PRESSURE 3000 PSI RATED CYLINDER BORE 5INCH VALVE SIZE 30INCHOR 750 MM	NO

110191220	VALVE,GATE,KNIFE,RC SUCTION,24INCH	VALVE,GATE,TYPE: KNIFE GATE,BODY MATERIAL: SS 316L,GATE TYPE: KNIFE,SEATTYPE: EPDM,GATE MATERIAL: HASTALLOY C-2000,SEAT MATERIAL: EPDM,SEALMATERIAL: EPDM,PACKING MATERIAL: SS316L,END CONNECTION: FLANGED ANDDRILLED,OPERATION TYPE: HYDRAULIC CYLINDER OPERATED KNIFE GATEVALVE,TEMPERATURE RATING: 98 TO 105 DEG.C,END TO END DIMENSION:360MM,NOMINAL SIZE: 24INCH, VALVE TYPE CLARKSON RESILIENT SEATED BIDIRECTIONAL PACKING LESS DESIGN SLURRY KNIFE GATE VALVE PRODUCT CODECLARKSON VALVES CLA KGA HD REV BODY SS 316L GATE MATERIAL HASTALLOYC2000 SLEEVES EPDM ENCAP RING SECONDARY SEAL MATERIAL EPDM RETAINERFLANGES EPDM RUBBER LINED FRAME MATERIAL SS316L FLANGE DRILLING ANSICLASS 150 SPLASH GUARD SS316L ACTUATOR TYPE HYDRAULIC CYLINDER HYDRAULICCYLINDER PRESSURE 3000 PSI RATED CYLINDER BORE 6 INCH VALVE SIZE24INCH OR 600 MM VALVE TO BE SUPPLIED WITH HYDRAULIC CYLINDER	NO
110191231	VALVE,GATE,KNIFE ,FC SPILLBACK,20INCH	VALVE,GATE,TYPE: KNIFE GATE,BODY MATERIAL: SS316L,GATE TYPE: KNIFE,SEATTYPE: EPDM,GATE MATERIAL: HASTALLOY C-2000,SEAT MATERIAL: EPDM,SEALMATERIAL: EPDM,PACKING MATERIAL: SS316L,END CONNECTION: FLANGED ANDDRILLED,OPERATION TYPE: HYDRAULIC CYLINDER OPERATED KNIFE GATEVALVE,TEMPERATURE RATING: 98 TO 105 DEG.C,END TO END DIMENSION:335MM,NOMINAL SIZE:20INCH, VALVE TYPE CLARKSON RESILIENT SEATED BIDIRECTIONAL PACKING LESS DESIGN SLURRY KNIFE GATE VALVE PRODUCT CODECLARKSON VALVES:CLA KGA HD REV BODY SS 316L GATE MATERIAL HAST ALLOYC276 SLEEVES EPDM ENCAP RING SECONDARY SEAL MATERIAL EPDM RETAINERFLANGES EPDM RUBBER LINED FRAME MATERIAL SS316L FLANGE DRILLING DIN2576 PN10 SPLASH GUARDSS316L ACTUATOR TYPE HYDRAULIC CYLINDER HYD.CYLINDER PRESSURE 3000 PSI RATED CYLINDER BORE 5INCH VALVE SIZE 20INCHOR 500 MM	NO
110191253	ASSY,BACK PULL OUT,CWP,WHRB,ZF 400-6500	PART NAME:ASSEMBLY,BACK PULL OUT,DRAWING NUMBER:CS037017901,BACK PULLOUT ASSY,ZF 400-6500,S.NO 103449-01, OED 0370179,MECH SEAL SINGLE INSIDE CART D, D.NO 2H-90860,SULZER PUMPS,APPLICATION:CWP, WHRB,MODEL NUMBER:ZF400-6500	NO
110191254	EVAPORATOR BUNDLE III,WASTE HEAT RECOVER	PART NAME: EVAPORATOR BUNDLE III,DRAWING NUMBER:W 703.01.04.SA.069, WITHRAPPING DEVICE,APPLICATION:WASTE HEAT RECOVERY BOILER	SET
110191532	THYRISTOR STACK,WESP,W1C440-435	PART NAME:THYRISTOR STACK WITH 2XRC CIRCUIT,PART MATERIAL:SEMİKRON,DRAWING NUMBER:PROJECT NO 79157,79246,79323,APPLICATION:WETESP,MODEL NUMBER:W1C440-435 C	NO
110191827	BLADE R2,R2A,SANICRO-28,1600X600X25MM	PART NAME:BLADE R2,R2A,PART MATERIAL:SANICRO-28,PARTNO SIZE:1600X600X25MM,PART NAME:BLADE,PART MATERIAL:SANICRO-28,PART SIZE:1600 X 600 X 25MM,FOR REACTOR 2A AGITATOR (HYDROFOIL DESIGN),BLADE SHOULD BE HEAT TREATED ANDSTRESS RELIEVED HARDNESS,160 VICKER TENSILE STRENGTH: 550- 750 MPA,PMITO BE CARRIED OUT BEFORE DESPATCH AND TEST CERTIFICATE TO BE PROVIDED.SUPPLY INCLUDES FASTENERS AND BLADE SHOE ALSO,THE DETAILSARE:BOLT,HEXAGONAL,METRIC,MATERIAL:SANICRO-28,UNDER HEAD LENGTH:130MM,THREADED LENGTH: FULL,SIZE: M30(6nos),WITH 2 NUT AND 2 WASHER(Sanicro-28,5MM THICK),BLADE SHOE(PP,1 nos),CAP(PP,4 nos),STUD(4 nos),LUCK NUT(4nos) AND WASHER(8 nos,SANICRO 28),RUBBER FOR SHOE(1 nos,5MM BUTYLBUBBER).APPLICATION:AGITATOR R2,R2A.DIMENSIONS OF BLADE ASSEMBLYARE,BLADE SHOE(416X231X70MM),CAP(62X10MM),LOCK NUT(50X13MM),WASHER(50ODX17DX3MM),WASHER(28ODX17DX3MM),STUD(28ODX50LG,M16 THREAD),RUBBERFOR SHOE(435X241X5MM)"	0
110192165	BULL GEAR SHAFT COMPLETE,VK50-3,73047815	PART NAME:BULL GEAR SHAFT COMPLETE,DRAWING NUMBER:73116515,PART SIZE:73047815,COMPLETE BULL GEAR SHAFT ASSEMBLY FOR O2-2 MAIN AIR COMPRESSORPART NO:73047815 DRAWING POSITION:12.10 MACHINE NO:12028 MAKE:SIEMENS,APPLICATION:O2-2 MAIN AIR COMPRESSOR,MODEL NUMBER:VK50-3	SET

110192173	ROTOR COMPLETE STAGE A/B,VK50-3,73054915	PART NAME:ROTOR COMPLETE STAGE A/B,DRAWING NUMBER:73116515,PART SIZE:73054915,COMPLETE ROTOR ASSEMBLY STAGE A/B FOR O2-2 MAIN AIR COMPRESSORPART NO:73054915 DRAWING POSITION NO:10.10 MACHINE NO:12028 MAKE:SIEMENS,APPLICATION:O2-2 MAIN AIR COMPRESSOR,MODEL NUMBER:VK50-3	SET
110192174	ROTOR COMPLETE STAGE C,VK50-3,73055715	PART NAME:ROTOR COMPLETE STAGE C,DRAWING NUMBER:73116515,PART SIZE:73055715,COMPLETE ROTOR ASSEMBLY STAGE C FOR O2-2 MAIN AIR COMPRESSORPART NO:73054915 DRAWING POSITION:10.20 MACHINE NO:12028 MAKE:SIEMENS,APPLICATION:O2-2 MAIN AIR COMPRESSOR,MODEL NUMBER:VK50-3	SET
110192314	FRONT FLANGE,CASTING MACHINE,PN:C20-1/2	PART NAME:FRONT FLANGE,DRAWING NUMBER:C41-1,SHEET 2 OF SHEETS 5,PART NO:C20-1/2,PLACE OF USE :CASTING MACHINE IN CCR, MAKE :CONTINUUS PROPERZI	NO
110192315	REAR FLANGE,CASTING MACHINE,PN:C20-1/3	PART NAME:REAR FLANGE,DRAWING NUMBER:C41-1,SHEET 2 OF SHEETS 5,PARTNO:C20-1/3,PLACE OF USE :CASTING MACHINE IN CCR, MAKE :CONTINUUSPROPERZI	NO
110192746	ASSY,MAIN OIL PUMP,FOR CONV IR BLOWER	PART NAME: ASSY,MAIN OIL PUMP, PART NUMBER: SKX51A61 IM,FOR BLOWER,MAKE:INGERSOLL RAND,MODEL NUMBER: XFLO-55H FOR CONVERTER IR BLOWER	NO
110192747	GEARBOX,XFLO-55H,IR BLOWER,N 95-1059	PART NAME: GEARBOX,DRAWING NUMBER: N 95-1059,MANUFACTURER: INGERSOLLRAND,MANUFACTURER MODEL:XFLO55H,EQUIPMENT NO : 05/03012/01 M/C,SR.NO : N 95-1059	NO
110192748	ROTOR ASSEMBLY,CONV IR BLOWER,XFLO-55H	PART NAME: ROTOR ASSEMBLY,MANUFACTURER: INGERSOLL RAND, MANUFACTURERMODEL: XFLO55H, EQUIPMENT NO 05103012/01,M/C SR.NO : N 95-1059	NO
110192749	PUMP,CONVERTER KKK BLOWER,SFNG 7,1	PART NAME: GEAR PUMP,MANUFACTURER: KKK, MANUFACTURER MODEL: SFNG 7,1,CONVERTER BLOWER, MACHINE NO: 1007031,PART NO: 49022940002, PARTS LISTNO: 4-230000-095,	NO
110192768	PLATE,HASTELLOY« G-30« ALLOY,6MMTHICK	PLATE,METALLIC,TYPE: PLATE,MATERIAL: HASTELLOY« G-30« ALLOY,INSPECTIONCERTIFICATE: -,THICKNESS: 6 MM	MT
110192769	PLATE,HASTELLOY« G-35« ALLOY,6MMTHICK	PLATE,METALLIC,TYPE: PLATE,MATERIAL: HASTELLOY« G-35« ALLOY,THICKNESS: 6MM	MT
110193031	HUB,CASTING MACHINE,PART NO:C29-1/1,CCR	PART NAME: CASTING MACHINE HUB,DRAWING NUMBER: C29-1, PART NO: C29-1/1,AS PER DRAWING C29-1 (CASTING MACHINE TYPE C 29 MAIN PIVOT ASSEMBLY)MAKE : CONTINUUS PROPERZI PLACE OF USAGE : CASTING MACHINE IN CCR	NO
110193471	HEAT EXCHANGER,PLATE,MAKE:DELMAS	HEAT EXCHANGER,TYPE: PLATE HEAT EXCHANGER,MAKE:DELMAS, TYPE:S14-ST16-25-TKTL ,APPLICATION: RECTIFIER DM WATER COOLING	NO
110193503	TUBE BUNDLE,O2-2 STG-I INTERCOOLER,ZK-1	PART NAME: TUBE BUNDLE,PART MATERIAL: COPPER, TUBE BUNDLE WITHGASKETS,Y-SEAL,ORINGS AND ENDCOVER MATERIAL OF CONSTRUCTION TUBES:CUPRONICKEL (90:10) TUBE SIZE: 5/8" O.D X 18 SWG 6.2METRE LONG NO OF TUBES:495 FINS:COPPER 0.2 MM THICK TUBE SHEET:SS316 TOP AND BOTTOM BAFFLEPLATE:SS316 ROLLERS AND DEMISTER PAD:SS04 STIFFNERS:SS304 ENDCOVER: CASTIRON REF: DRG NOS: 17210087 SHEET 1,17210087 SHEET 2, 17210087 SHEET3,22710004 SHEET 1, 22710004 SHEET 2,21650042 SHEET 1, 21650042 SHEET2,25640058 SHEET 1 ,25640058 SHEET 2,25640059 SHEET 1 SHELL SIDEPERFORMANCE : DESIGN PRESSURE:5.2BAR G, TEST PRESSURE: 8.2 BAR G, DESIGNTEMPERATURE : 160 DEG C, OPERATING TEMPERATURE INLET TEMPERTURE:139 DEGC OUTLET TEMPERATURE:35 DEG ALLOWABLE PRESSURE DROP : 300 MMWC MAXCORROSION ALLOWANCE: 1.6 MM, HEAT TREATMENT: NO , RADIOGRAPHY :100 %,DIE PENETRANT TEST:100 %, MEDIUM:WET AIR, TEST PLATE:NO, WELDEFFICIENCY:0.85 , FLOW PASSES:1 OPERATING FLOW : 75000 NM3/HR VOLUME:REF DRAWING 17210087 SHEET 1. TUBE SIDE PERFORMANCE:- DESIGN PRESSURE:10BAR G, TEST PRESSURE: 14.3 BAR G, DESIGN TEMPERATURE :80 DEG C,CORROSION ALLOWANCE: 1.6 MM, HEAT TREATMENT: NO, RADIO GRAPHY:100% DIEPENETRANT TEST:100 %, MEDIUM:WATER , TEST PLATE:NO , WELD EFFICIENCY:0.7FLOW PASSES:2, VOLUME: REF DRAWING 17210087 SHEET 1	NO

110193504	TUBE BUNDLE,O2-2 STG-2 INTERCOOLER,ZK-2	PART NAME: TUBE BUNDLE,PART MATERIAL: COPPER,PART SIZE: 5/8, TUBE BUNDLEWITH GASKET,STUDS,Y-SEAL, ORINGS AND ENDCOVER MATERIAL OF CONSTRUCTIONTUBES:CUPRO NICKEL (90:10) TUBE SIZE:5.8"O.D X 18SWG, 6.2 METRE LONG NOOF TUBES:405 NOS FINs:COPPER 0.2MM THICK TUBE SHEET:SS316 TOP AND BOTTOMBAFFLE PLATE:SS316 ROLLERS AND DEMISTER PAD:SS304 END COVER:CAST IRON,WITH GASKET,O-RINGS,DRAWING NUMBER: 17210088 SHEET 1,17210088 SHEET2,17210088 SHEET 3,22710005 SHEET 1,22710005 SHEET 2,21650043 SHEET1,21650043 SHEET 2,25640060 SHEET 1,25640061 SHEET 1, SHELL SIDEPERFORMANCE,DESIGN PRESSURE: 5.2 BAR,TEST PRESSURE: 8.2 BAR,DESIGNTEMPERATURE: 0/130 DEG.C,CORROSION ALLOWANCE: 1.6 MM,HEAT TREATMENT:NO,RADIOGRAPHY : 100%,DIE PENETRANT TEST: 100%,MEDIUM: WET AIR,TESTPLATE: NO,WELD EFFICIENCY: 0.85,FLOW PASSES: 1,VOLUME: REFER DRAWINGNUMBER: 17210088 SHEET 1,TUBE SIDE PERFORMANCE DESIGN PRESSURE: 10BAR,TEST PRESSURE: 14.3 BAR,DESIGN TEMPERATURE: 0/80 DEG.C,CORROSIONALLOWANCE: 1.6 MM,HEAT TREATMENT: NO,RADIO GRAPHY: 100%,DIE PENETRANTTEST: 100%,MEDIUM: WATER,TEST PLATE: NO,WELD EFFICIENCY: 0.7,FLOWPASSES: 2,VOLUME: REFER DRAWING NUMBER: 17210088 SHEET 1,FOR INTERCOOLER STAGE-2,O2-2(ZK2),TYPE: TUBE AND SHELL	NO
110193561	COOLING SKIRT,WHRB,W703.01.47.SA.615,AS	PART NAME: COOLING SKIRT,DRAWING NUMBER: W703.01.47.SA.615,PART SIZE: ASPER DWG, ALONG WITH ACCESSORIES	SET
110193593	TUBE BUNDLE,AFTER COOLER O2-2,VK50-3	PART NAME: TUBE BUNDLE,PART MATERIAL: CU, TUBE BUNDLE WITHGASKET,STUDS,Y-SEAL, ORINGS AND ENDCOVER AND STUDS TO BE FIXED MATERIALOF CONSTRUCTION TUBES:CUPRO NICKEL (90:10) TUBE SIZE:5.8"O.D X 18SWG,6.2 METRE LONG NO OF TUBES:567 NOS FINs:COPPER 0.2MM THICK TUBESHEET:SS316 TOP AND BOTTOM BAFFLE PLATE:SS316 ROLLERS AND DEMISTERPAD:SS304 END COVER:CAST IRON DRAWING NUMBER: HX-6825-2P-99-001 SH1,2,PART SIZE: OD: 5/8 INCH X 18 SWG X LG:6.2M,REFERENCE NUMBER:VK.0013.77.001,VK.0013.79.010,HEAT LOAD: 2153.5 KW,EMPTY WEIGHT: 14900KGS (APPROX),WEIGHT WITH FULL WATER: 15000 KGS(APPROX),TUBE BUNDLEWEIGHT: 4800 KGS (APPROX) SHELL SIDE PERFORMANCE FLUID: AIR INLETTEMPERATURE: 102 DEG.C,OUTLET TEMPERATURE: 38 DEG.C,DESIGN TEMPERATURE:145 DEG.C,FLOW RATE: 27.48 KG/SEC,OPERATING PRESSURE: 5.67 BAR,DESIGNPRESSURE: 8 BAR,TEST PRESSURE: 8.8 BAR (PN U) PRESSURE DROP(MAX),CALCULATED: 0.033 BAR,SPECIFIED: 0.045 BAR,CORROSION ALLOWANCE:1.6 MM,NUMBER OF PASSES: 1,RADIOGRAPHY: 100%,FOULING FACTOR: 0.0000 HRSQ.MC/KCAL,JOINT EFFICIENCY: 1,HEAT TRANSFER AREA: 3697.26 SQ.M,TUBESIDE PERFORMANCE FLUID: WATER INLET TEMPERATURE:31 DEG.C,OUTLETTEMPERATURE: 41 DEG.C,DESIGN TEMPERATURE: 80 DEG.C,FLOW RATE: 190CUB.M/HR,OPERATING PRESSURE: 4.5 BAR,DESIGN PRESSURE: 10 BAR,TESTPRESSURE: 13 BAR (HYD) PRESSURE DROP (MAX),CALCULATED: 0.25BAR,SPECIFIED: 1 BAR,CORROSION ALLOWANCE: 1.6 MM,NUMBER OF PASSES:2,RADIOGRAPHY: 100%,FOULING FACTOR: 0.0002 HR SQ.M*/KCAL,JOINTEFFICIENCY: 1,HEAT TRANSFER AREA: 147.63 SQ.M,FOR MAIN AFTERCOOLER,O2-2REF,TYPE: TUBE AND SHELL FIN	NO
110193594	TUBE BUNDLE,O2-1 INTERCOOLER STG-1/2	PART NAME: TUBE BUNDLE TA160,PART MATERIAL: COPPER, TUBE BUNDLE WITHGASKET,STUDS,Y-SEAL, ORINGS AND STUDS FIXED. MATERIAL OF CONSTRUCTIONTUBES:COPPER TUBE SIZE:5/8" O.D X 18SWG, 3.75 METRE LONG NO OF TUBES:162NOS FINs:COPPER TUBE SHEET:SS316 TOP AND BOTTOM BAFFLE PLATE:SS316ROLLERS AND DEMISTER PAD:SS304 END COVER:CAST IRON SIDE PERFORMANCE :-FLUID : AIR, QUANTITY : 29000 M3/HR, INLET TEMP :125 DEG C, DESIREDOUTLET TEMP : 35 DEG C, INLET PRESSURE : 4 KG/CM2, PRESSURE DROP (MAX):0.024, KG/CM2, SPECIFIC HEAT OF FLUID : 0.24 K CAL/ KG DEG, TUBE SIDE,PERFORMANCE : FLUID : WATER, QUANTITY (MAX) : 95 M3/HR, INLET TEMP : 32,DEG C, OUTLET TEMP : 42 DEG C, SPECIFIC HEAT OF FLUID : 1 K CAL/ KG DEG,C, WATER VELOCITY : 2.04 M/SEC, PRESSURE DROP : 0.504 KG/CM2 .	NO

110193595	TUBE BUNDLE O2-1,AFTERCOOLER	PART NAME: TUBE BUNDLE O2-1,PART MATERIAL: CU, TUBE BUNDLE WITHGASKET,STUDS,Y-SEAL, ORINGS AND STUDS FIXED MATERIAL OF CONSTRUCTIONTUBES:CUPRO NICKEL (90:10) TUBE SIZE:5/8"O.D X 18SWG, 6.5 METRE LONG NOOF TUBES:348 NOS FINNS:COPPER 0.2MM THICK TUBE SHEET:SS316 TOP AND BOTTOMBAFFLE PLATE:SS316 ROLLERS AND DEMISTER PAD:SS304 END COVER:CAST IRONTYPE: SHELL AND TUBE SHELL SIDE PERFORMANCE: FLUID-AIR,FLOW RATE:75000 CUB.NM/HR,INLET TEMPERATURE: 124 DEG.C,OUTLET TEMPERATURE: 3 TO 33DEG.C,INLET PRESSURE:5.0 BAR,PRESSURE DROP: 0.024 BAR,SPECIFIC HEAT OFGAS: 0.24 KCAL/KG DEG.C, TUBE SIDE PERFORMANCE: FLUID-WATER,FLOW RATE:200 CUB.M/HR,INLET TEMPERATURE: 31 DEG.C,OUTLET TEMPERATURE: 40DEG.C,SPEC. HEAT OF WATER: 1.0K CAL/KG DEG.C,WATER VELOCITY: 2.04M/SEC,PRESSURE DROP: 0.507 BAR.	NO
110193600	COIL,EVAPORATOR,931SE,158776-CU	PART NAME: COIL,EVAPORATOR,PART MATERIAL: COPPER,PART SIZE: 158776 CU,MOC OF COIL <(>&<)> FINNS COPPER WITH EOPXY COATING	NO
110193655	TUBE BUNDLE O2-1,AFTER COOLER ROAD SIDE	PART NAME: TUBE BUNDLE O2-1,PART MATERIAL: COPPER, TUBE BUNDLE WITHGASKET,STUDS,Y-SEAL, ORINGS AND ENDCOVER O2-1 AFTER COOLER ROADSIDEMATERIAL OF CONSTRUCTION TUBES:CUPRO NICKEL (90:10) TUBE SIZE:5/8"O.D X18SWG, 6.5 METRE LONG NO OF TUBES:348 NOS FINNS:COPPER 0.2MM THICK TUBESHEET:SS316 TOP AND BOTTOM BAFFLE PLATE:SS316 ROLLERS AND DEMISTERPAD:SS304 END COVER:CAST IRON TYPE: SHELL AND TUBE SHELL SIDEPERFORMANCE: FLUID-AIR,FLOW RATE:75000CUB.NM/HR,INLET TEMPERATURE: 124DEG.C,OUTLET TEMPERATURE: 3 TO 33 DEG.C,INLET PRESSURE: 5.0 BAR,PRESSUREDROP: 0.024 BAR,SPECIFIC HEAT OF GAS:0.24 KCAL/KG DEG.C, TUBE SIDEPERFORMANCE: FLUID-WATER,FLOWRATE: 200CUB.M/HR,INLET TEMPERATURE: 31DEG.C,OUTLET TEMPERATURE: 40 DEG.C,SPEC.HEAT OF WATER: 1.0K CAL/KGDEG.C,WATER VELOCITY: 2.04 M/SEC,PRESSURE DROP: 0.507 BAR.	NO
110194776	TUBE BUNDLE , AFTER COOLER,BAC K131,TA55	PART NAME: TUBE BUNDLE , AFTER COOLER,PART SIZE: PN: 501-J-508, PARTNUMBER: 501-J-508,MAKE: THERMAL ENGINEERING INT,INDUSTRIAL PRODUCTS DIVISION,MILWAUKEE WISCONSIN,PHONE: (414)353-3112,CUSTOMER TAG/ITEMNUMBER: E 136. SHELL SIDE PERFORMANCE:- MAXIMUM WORKING PRESSURE: 250PSI AT 300 DEG.F,MDMT: -20 DEG.F AT 250 PSI, TUBE SIDE PERFORMANCE:-MAXIMUM WORKING PRESSURE: 200 PSI AT 300 DEG.F,MDMT: -20 DEG.F AT 200PSI FOR O2-1 BOOSTER AIR COMPRESSOR,MAKE: COOPER TURBO TA55,MODELNUMBER: K131	NO
110195031	PANEL ASSY,CHANNEL-1,WHRB,DWG NR.201 TD	PART NAME: PANEL ASSY,CHANNEL-1,DRAWING NUMBER: DWG NR.201 TD 7283,PARTMATERIAL: AS PER DRAWING,PART SIZE: AS PER DRAWING, ASSEMBLY DRAWINGSARE 1.W703-01-42-SA-453 FRONT PANEL 2.W703-01-42-SA-457 REAR PANEL3.W703-01-42-SA-455 LHS PANEL 4.W703-01-42-SA-459 RHS PANEL RELEVANTDRAWINGS AND TEST CERTIFICATES TO BE SUBMITTED DURING MATERAILSUPPLY.Material of construction of Tubes-SA 213 GR T11	NO
110195060	75KW,DC SERIES MOTOR,220V DC	MOTOR,ELECTRICAL,TYPE: DC SERIES MOTOR,APPLICATION: CONVERTER / AF MAINDRIVE,ENCLOSURE: IP54,MOUNTING TYPE: B3-FOOT,INSULATION CLASS: H,FRAMESIZE: KMDC814,NUMBER OF POLE: -,SPEED RATING: BASE SPEED 475,POWERRATING: 75 KW,FREQUENCY RATING: -,CURRENT RATING: ARMATURE CURRENT 355A,VOLTAGE RATING: 220 VDC, BASE SPEED : 475 RPM ENCLOSURE : IP54COOLING : 0041 (TENV) OUTPUT KW : 75 DUTY : S2 -1 HOURMOTOR GD2 : 34.3 EFFICIENCY : 90.5	NO

110195207	CONTROLLER, GOVERNOR, 505E, STG WOODWARD	CONTROLLER,TYPE: GOVERNOR,APPLICATION: P/N : 9907-166 REV: Y,ENCLOSURETYPE: PANEL,MOUNTING TYPE: PANEL MOUNTING,OUTPUT SIGNAL: -,PRESSURERATING: -,CURRENT RATING: -,POWER RATING: -,VOLTAGE RATING: -, 505E(EXTRACTION) DIGITAL CONTROL P/N : 9907-166 REV: Y CONTROL: SPEED/LOADPID (WITH DUAL DYNAMICS) EXTRACTION / ADMISSION PID AUXILIARY PID(LIMITER OR CONTROL) CASCADE PID (HEADER PRESSURE OR TIE-LINE CONTROL)INPUTS POWER: 880132 VAC (47063 HZ), SPEED: 2 MPUS (1030 VRMS) ORPROXIMITY PROBES (24 VDC PROVIDED), 0.5 TO 15 KHZ DISCRETE INPUTS: 16CONTACT INPUTS (4 DEDICATED, 12 PROGRAMMABLE) ANALOG INPUTS: 6PROGRAMMABLE CURRENT INPUTS (4020 MA) OUTPUTS VALVE/ACTUATOR DRIVERS: 2ACTUATOR OUTPUTS (4IV20 MA OR 20IV160 MA) DISCRETE OUTPUTS: 8 RELAYOUTPUTS (2 DEDICATED, 6 PROGRAMMABLE) ANALOG OUTPUTS: 6 PROGRAMMABLECURRENT OUTPUTS (4IV20 MA) COMMUNICATION SERIAL: 2 MODBUS (ASCII OR RTU)COMM PORTS (RS-232, RS-422, OR RS-485 COMPATIBLE) THE 505E CONTROLCAPABILITIES ARE: SPEED/FREQUENCY CONTROL EXTRACTION / ADMISSION HEADERPRESSURE CONTROL TURBINE OR GENERATOR LOAD CONTROL OR LIMITING TURBINEINLET HEADER PRESSURE CONTROL OR LIMITING TURBINE EXHAUST HEADERPRESSURE CONTROL OR LIMITING PLANT IMPORT/EXPORT POWER CONTROL ORLIMITING ISOCHRONOUS LOAD SHARING BETWEEN UNITS (WITH DSLC CONTROL)	NO
110195302	AVR,87.6KW,240V,THYNE,ANDRITZ	PART NAME: AUTOMATIC VOLTAGE REQUATOR, AUTOMATIC VOLTAGE REGULATORANDRITZ THYNE 1 DUAL CHANNEL AVR WITH REQUIRED CONTROL PANEL,2X DIGITALDISPLAY WITH 2X TOUCH SCREEN WITH 2X MODBUS COMM., MATCHING TRANSFORMER,2X DIODE FAILURE DETECTION, AI/AO CARD AND 2XTRANSUDUCERS. SUITABLE FORTHIS EXCITER (BRUSHLESS) EXCITER ENCLOSURE : IP 23 EXCITERATING : 87.6 KW RATED VOLTAGE : 240V RATED CURRENT : 365 A RATED FIELD VOLTAGE :82.4 V RATED FIELD CURRENT : 10.9 A FIELD BREAKER/CONTACTORRATING : 43 A DISCHARGE RESISTOR RATING : 2.2 OHMS AVR TYPE: THYNE 3 AVR STEADY STATE VOLTAGE ACCURACY : +/- 0.5% OF NOMINALVOLTAGE AVR RESPONSE TIME : <(><>>30 MS	NO
110195314	ANTICOLLISION SYSTEM,CRANE,GIGASENSE	PART NAME: ANTICOLLISION SYSTEM, ANTI COLLISION SYSTEM MAKE: GIGASENSESYSTEM DESCRIPTION: 30254 - GIGASENSE COLLISION GUARD FREQUENCY 10.521GHZ ANTENNA + BOX NO.1093+1090 RELAY BOX NO.1096 UNIT A, 24VDCSTATISTICAL CODE: 90318038 COUNTRY OF ORIGIN: SE SYSTEM INPUTSUPPLY:110V AC APPLICATION: EOT CRANES AN SYSTEM SHOULD CONTAINS UNIT-AAND UNIT-B	NO
110196182	PANEL ASSY,CHANNEL-2,WHRB,DWG NR.201 TD	PART NAME: PANEL ASSY,CHANNEL-2,DRAWING NUMBER: DWG NR.201 TD 7284,PARTMATERIAL: AS PER DRG,PART SIZE: AS PER DRG, ASSEMBLY DRAWINGS ARE1.W703-01-42-SA-467 FRONT PANEL 2.W703-01-42-SA-471 REAR PANEL 3.W703-01-42-SA-469 LHS PANEL 4.W703-01-42-SA-473 RHS PANEL RELEVANTDRAWINGS AND TEST CERTIFICATES TO BE SUBMITTED DURING MATERIAL SUPPLY.MATERIAL OF CONSTRUCTION OF TUBES-SA 213 GR T11	SET
110196312	ACTUATOR ASSY,AUTO CASTING,V218-1M7,CSPA	PART NAME: ACTUATOR ASSEMBLY,DRAWING NUMBER: V218-1M7, CASTING MACHINEAUTOMATIC FLOW REGULATOR, MAKE:CONTINUUS PROPERZI	NO
110196572	BACK PULL OUT ASSEMBLY,RO3 RECIR,RPG 501	PART NAME: BACK PULL OUT ASSEMBLY,PART MATERIAL: DUPLEX 1.4462, COMPLETEBACK PULLOUT ASSEMBLY WITH MECHANICAL SEAL AND PROPELLER ARRANGEMENT FORPUMP SERIAL NO. N020248, MAKE : EGGER PUMP, MODEL NO: RPG 501 LB 5.1SPEZ	NO
110196587	SHAFT KIT,DUPLEX SS,MSS 2025	PART NAME: SHAFT KIT,PART MATERIAL: DUPLEX SS, SHAFT KIT, PUMP MODEL ùMSS 2025, SN 2473, 0.750 INCH ù KIT CONSISTS OF PUMP SHAFT, PUMP KEY,RETAINING RING, SPLIT COLLAR, COLLAR SLEEVE AND ASSEMBLED FLEXIBLE DISCCOUPLING, PART NO. K2HO-01-SHT	SET
110196589	IMPELLER KIT,AISI 316L,MSS 2025	PART NAME: IMPELLER KIT,PART MATERIAL: AISI 316L, OVERHAUL KIT, PUMPMODEL ù MSS 2025, SN 2473, SET CONSISTS OF BALANCE DISC KIT, MECHANICALSEAL KIT, O-RING KIT, RETAINING RING KIT, STAGE KIT AND THROTTLE NIPPLEKIT. PART NO. KM020-OHK	SET

110196671	VIBRATION DAMPER,SET,PN:61207468-02,RO3	PART NAME: VIBRATION DAMPER,DRAWING NUMBER: PART NO.61207468-02,PARTSIZE: D=224,D1=156, RA2500EM-A,ONE SET OF DAMPER CONTAINS 4NO.APPLICATION : RO-3 DECANter CENTRIFUGE, CENTTRIFUGE MODEL : ALDEC 75SR.NO 5126855-2016	SET
110196694	SEAL,MECH,PUMP,CARTEX DN90-E3,RO3 RECIRC	PART NAME: MECHANICAL SEAL,WITH SLEEVE,PART SIZE: 90MM, MECHANICAL SEALWITH SLEEVE MODEL NO: CARTEX DN90-E3,FOR RO3 RECIRCULATION PUMP MODELNO.RPG 501 LB 5.1 SPEZ,MAKE: EGGER PUMP,SERIAL NO. N-20248,MECHANICALSEAL - CARTEX DNQ1Q1K/TMM/BQ1K/TMM- ITEM369/1 WITH SHAFT SLEEVE PARTNO.071/1,	SET
110196695	OIL PUMP,100P20S-G18P1,WITH MOTOR,RO3	PART NAME: OIL PUMP WITH MOTOR, OIL PUMP WITH MOTOR,MODEL-100P20S-G18P1FOR RO3 MECHANICAL VAPOUR COMPRESSOR MODEL NO 25580 KXXGAE 80250 GL115AND 25589 KXXGAEP 80225 GL90 SUPPLIER :HYDAC INTERNATIONAL	NO
110196698	COUPLING,FLENDER,ARPEX NRSN 165-6,RO3	PART NAME: COUPLING SET, COUPLING SET MAKE: FA FLENDER, MODEL: ARPEX NRSN 165-6 CONSISTS OF COUPLING HUB- ARS-06 N 165-6 60 H7-QTY 1NO-POS161, COUPLING HUB- ARS-06 N 165-6 65 H7-QTY 1NO-POS163, DISC PACK-ARS-06 165-6-QTY 2NO-POS165, BOLTS DISC PACK- ARS-06 165-6-QTY 2NO-POS166, COMPRESSION SLEEVE- ARS-06 165-6-QTY 1NO-POS167, ORING - 190 X 5AFLAS-QTY 2NO-POS283, ORING - 75 X 5 AFLAS-QTY 2NO-POS303-POS324, ORING- 85 X 5 AFLAS-QTY 1NO-POS338, FOR RO3 MECHANICAL VAPOUR COMPRESSORMODEL NO 25580 KXXGAE 80250 GL115 AND 25589 KXXGAEP 80225 GL90	SET
110197129	ORING SET,AFLAS,RO3 MECH VAPOUR COMPRESS	PART NAME: ORING SET,PART MATERIAL: AFLAS, COMPRESSOR ORING SET CONSISTSO OF ORING - 92 X 5 AFLAS-QTY 1NO-POS63, ORING - 1000 X 5 AFLAS-QTY 1NO-POS73, ORING - 1050 X 5 AFLAS-QTY 1NO-POS73, LOCKING WASHER MB11-QTY1NO,POS61, SLOTTED ROUND NUT-KM11-QTY 1NO-POS62, ORING 160 X 5AFLAS-QTY 2NO, ORING - 190 X 5 AFLAS-QTY 1NO-POS283, ORING - 75 X 5AFLAS-QTY 2NO-POS303-POS324, ORING - 85 X 5 AFLAS-QTY 1NO-POS338, FORRO3 MECHANICAL VAPOUR COMPRESSOR MODEL NO 25580 KXXGAE 80250 GL115 AND25589 KXXGAEP 80225 GL90	SET
110197401	KIT,CMC TO XE145F-FENIX,23780554,IR	PART NAME: KIT CMC TO XE145F (FENIX) RETROFIT, RETROFIT KIT FOR IRCENTAC COMPRESSOR NAME:KIT CMC TO XE145F-FENIX RETROFIT PARTNO.:23780554 MAKE:INGERSOLL RAND APPLICATION:PLANT AIR COMPRESSOR-D,F	NO
110197402	MOTOR,SYNC,1.41KW,1FT7044-5AK71-1CA0	MOTOR,ELECTRICAL,TYPE: 1FT7044-5AK71-1CA0,MOUNTING TYPE: B5-FLANGE,NUMBER OF POLE: 6,SPEED RATING: 6000 RPM,POWER RATING: 1.41KW,SYNCHRONOUS,COOLING:NATURE,DEGREE OF PROTECTION:IP64,ABSOLUTE ENCODERWITH DRIVE CLIQ INTERFACE,	NO
110197440	BEARING KIT,THRUST,27KN,PN:96164195	PART NAME: THRUST BEARING KIT,27KN, THRUST BEARING KIT FOR RO3 HPINTERSTAGE -1,2 BP. PUMP MODEL NO: BM46-17R, BM17-32R. MAKE: GRUNDFOS,PRODUCT NO. 15C71917. PART NO. 96164195	SET
110197441	BEARING KIT,RADIAL,SIC32,PN:96164199	PART NAME: RADIAL BEARING KIT SIC 32, RADIAL BEARING KIT FOR RO3INTERSTAGE BOOSTER PUMP. MODEL NO. BM46-17R, BM17-32R, PRODUCT NO.15C71917. PART NO. 96164199	SET
110197442	BEARING KIT,CONVEYOR,PN:61243862-31	PART NAME: CONVEYOR BEARING KIT,PART SIZE: PART NO 61243862-31, CONVEYORBEARING KIT CONSISTS OF BEARING-POS3-61195011-79, ORING-POS5, ORING-POS6, BEARING POS9-61195011-78, ORING-POS14, ORING-POS15, NEEDLEBEARING-POS1666666-61195011-77, ORING-POS100, ORING-POS101, ORING-POS102, ORING-POS103, ORING-POS104, ORING-POS105, ORING-POS106APPLICATION : RO-3 DECANter CENTRIFUGE (MODEL: ALDEC 75, SR.NO 5126855-2016)	SET
110197443	BEARING KIT,MAIN,PN:61243806-31,RO3 DECA	PART NAME: MAIN BEARING KIT,PART SIZE: PART NO.61243806-31, ONE SET OFMAIN BEARING KIT CONSISTS OF BALL BEARING-POS14-61195011-80, ROLLERBEARING-POS18-61195011-80, ORING-POS20-61167208-91-2NO, ORING-POS211-61167219, ORING-POS212-61167219. APPLICATION : RO-3 DECANter CENTRIFUGE(MODEL:ALDEC, 75 SR.NO:5126855-2016)	SET

110197444	BEARING KIT,COMPRESSOR,QD085 1036017-04	PART NAME: BEARING KIT, BEARING KIT MODEL NO: QD085 1036017-04, BEARINGSET QD085 1036017-04 CONSISTS OF BEARING-NU1017MLC3-QTY 1NO-POS82,BEARING-6317MC3- QTY 1NO-POS83, LOCKWASHER-MB16-QTY 1NO -POS87, FEATHERKEY-POS86, SLOTTED ROUND NUT-KM16-QTY 1NO-POS88, USIT RING-QTY 1NO-POS105, ORING - 165 X 5 VITON-QTY 2NO-POS92, ORING - 40 X 3 VITON-QTY2NO-POS102, FOR RO3 MECHANICAL VAPOUR COMPRESSOR MODEL NO 25580 KXXGAE80250 GL115 AND 25589 KKKXGAEP 80225 GL90	SET
110197445	SHAFT SEAL,WD500,RO3 MECH VAP COMPRESSOR	PART NAME: SHAFT SEAL WD500, CONSISTS OF SHAFTSEAL-ESPEY-WD500-QTY 1NO-POS130, SEALING RING-ESPEY-100WD500-QTY 5NO-POS135, ORINGS -200 X 5AFLAS-QTY 1NO-POS133, ORING - 130 X 3 VITON-QTY 1NO-POS110, ORING-100 X5 AFLAS-QTY 1NO-POS121, SLEEVE-80-100 X 140-QTY 1NO POS120, FOR RO3MECHANICAL VAPOUR COMPRESSOR MODEL NO 25580 KXXGAE 80250 GL115 AND 25589KKXGAEP 80225 GL90	SET
110197568	MOTOR,SCI,HT,1500KW,FRAME:AMI450L4A BSI	MOTOR,ELECTRICAL,TYPE: SQUIRREL CAGE INDUCTION,HT,APPLICATION: SO2BLOWER,ENCLOSURE: IP55,MOUNTING TYPE: B3,INSULATION CLASS: F,FRAME SIZE:AMI450L4A BSI,NUMBER OF POLE: 4P,SPEED RATING: 1491 RPM,NUMBER OF PHASE:3 PHASE,POWER RATING: 1500KW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING:6600 V, MAKE:ABB APPLICATION: SO2 BLOWER(KKK)	NO
110197582	MOTOR,2400KW,500 L,6.6KV,1491 RPM	MOTOR,ELECTRICAL,TYPE: 3 PHASE SQUIRREL CAGE INDUCTION,APPLICATION:BLOWER,ENCLOSURE: IP55,MOUNTING TYPE: FOOT,INSULATION CLASS: CLASSF,FRAME SIZE: 500 L,NUMBER OF POLE: 4,SPEED RATING: 1491 RPM,NUMBER OFPHASE: 3,POWER RATING: 2400 KW,FREQUENCY RATING: 50 HZ,CURRENT RATING:242 A,VOLTAGE RATING: 6600 V,MANUFACTURER: ABB, REFERENCE NUMBER:7120HD200, MACHINE TYPE CODE :AMA 500L4A BSH MACHINE TYPE : SQUIRREL CAGE INDUCTION MOTOR MOUNTINGDESIGNATION : IM 1001 ENCLOSURE : IP 55 METHOD OF COOLING :IC 611 INSULATION : CLASS F TEMP. RISE :CLASS B STANDARDS : IEC DUTYTYPE : S1 RATED OUTPUT : 2400 KW VOLTAGE : 6600 V FREQUENCY : 50 HZSPEED :1491 RPM CURRENT : 242 AMPS RELAT.STARTING CURRENT : 5,8 RELAT.STARTINGTORQUE : 0,8 RELAT. MAXIMUM TORQUE : 2,1 NO LOAD CURRENT : 56 A RATEDTORQUE : 15379 NM CONNECTION OF STATOR : STAR DIRECTION OF ROTATION :BI- DIRECTIONAL INERTIA ROTOR /LOAD : 70 KGM / 350 KGM MAXIMUMSTALLING TIME :10,0 (WARM) STARTING TIME : 4,5 S(UN) STARTING TIME WITHEXISTING BLOWER : 5,0 S (UN) (LOAD INERTIA 360 KGM)NUMBER OF CONSEC. STARTS : 3/2 (COLD/ WARM) MAXIMUM NUMBER OF STARTS :1000 / YEAR WARM-UP TIME CONSTANT :35 MIN COOL-DOWN TIME CONSTANT :210 MIN OLD ABB REFERENCE NO :7120HD200 CUSTOMER REFERENCE :APR /VLM 241792105-4500032744	NO
110197691	MOTOR,ELEC,VFD DUTY,3.3MW,6.6KV,VPI	MOTOR,ELECTRICAL,TYPE: 3 PHASE SQUIRREL CAGE MOTOR,APPLICATION: VFDAPPLICATION,ENCLOSURE: IP55,MOUNTING TYPE: B3-FOOT,INSULATION CLASS:VACUUM PRESSURE IMPREGNATION,FRAME SIZE: 1LA 7904-4,NUMBER OF POLE:4P,SPEED RATING: 1495 RPM,NUMBER OF PHASE: 3 PH,POWER RATING:3.3MW,FREQUENCY RATING: 50 HZ,VOLTAGE RATING: 6.6 KV, CONNECTION:STARMOTOR EQUIVALENT TO S NO:42103C421-11-01 MAKE:BHARATH HEAVY ELECTRICALSLIMITED	NO
110197931	ASSY CHANNEL-2,OMEGA TUBE,DWG NR.201 TD	PART NAME: ASSY CHANNEL-2,OMEGA TUBE,PART MATERIAL: AS PER DRAWING,APPLICATION: WASTE HEAT RECOVERY BOILER,DRAWING NUMBER: DWG N1 TD 7284, ASSEMBLY DRAWINGS ARE 1.W703-01-42-SA-467 FRONT PANEL 2.W703-01-42-SA-471 REAR PANEL 3.W703-01-42-SA-469 LHS PANEL 4.-01-42-SA-473 RHS PANEL TUBE TYPE-OMEGA RELEVANT DRAWINGS AND TEST CERTIFICATES TO BE SUBMITTED DURING MATERIAL SUPPLY. MATERIA CONSTRUCTION OF TUBES-SA 210 GR T11	SET

110197932	ASSY CHANNEL-1,OMEGA TUBE,DWG NR.201 TD	PART NAME: ASSY CHANNEL-1,OMEGA TUBE,PART MATERIAL: AS PER DRAWING,APPLICATION: WASTE HEAT RECOVERY BOILER,DRAWING NUMBER: DWG N1 TD 7283,PART SIZE: AS PER DRAWING, ASSEMBLY DRAWINGS ARE 1.W703-01-42-SA-453 FRONT PANEL 2.W703-01-42-SA-457 REAR PANEL 3.W70342-SA-455 LHS PANEL 4.W703-01-42-SA-459 RHS PANEL TUBE TYPE-OMEGA RELEVANT DRAWINGS AND TEST CERTIFICATES TO BE SUBMITTED DURINGRAIL SUPPLY. MATERIAL OF CONSTRUCTION OF TUBES-SA 210 GR T11	SET
110198114	PUMP,CNTFGL,MSH 20510,LEWMET BOOT,LEWIS	PUMP,CENTRIFUGAL,TYPE: CENTRIFUGAL,FLOW RATING: 731.3 M3 PER HOUR,NUMBER OF STAGES: -,SPEED RATING: -,HEAD SIZE: 15 M,POWER RATING: -,SUCTION SIZE: -,DISCHARGE SIZE: -,SIZE: -, PUMP MODEL NO:MSH 20510, COMPLETE PUMP ASSEMBLY INCLUDING SUCTION EXTENSION AND SUC STRAINER, SIZE:10 H FLOW:731.3 M3/HR HEAD 15 MLC APPLICATION: 98.5% SULPHURIC ACID, MAKE:LEWIS PUMPS. SUCTION BOOT, DISCHARGE BAND UPPER BOOT TO BE IN LEWMET MOC.	NO
110198407	PUMP,AUXILIARY,LUBE OIL,SFO9,KF 4/150	PUMP,OIL,TYPE: AUXILIARY,FLOW RATING: 208 LPM,SPEED RATING: 1450 RPM,RATING: 10 BAR, AUXILIARY OIL PUMP FOR SAP 1 SFO9, MACHINE 1.049.041, MAKE : KF, MODEL NO ; KF 4/150 G10B POA 7DP1. TO BE SUPPLIED WITH COUPLING ACCESSORIES.	NO
110198472	SET,MEASURING HEAD,WITH METERING,LKP 15	PART NAME: MEASURING HEAD WITH METERING UNIT,MODEL NUMBER: LKP 15, WITH CONNECTING CABLE FROM MEASURING HEAD TO METERING UNIT,MEASURING RANGE:0-15 KA, INPUT SUPPLY VOLTAGE FOR METERING UNIT:230VAC,MAKE:DYNAMP	NO
110198473	SET,MEASURING HEAD,WITH METERING,LKP 30	PART NAME: MEASURING HEAD WITH METERING UNIT,MODEL NUMBER: LKP 30, DIRECT CURRENT METERING SYSTEMS,MEASURING RANGE: 0-30 KA, WITBLE BETWEEN MEASURING HEAD AND METERING, AUXILIARY SUPPLY FOR METERING:230VAC, MAKE:DYNAMP	NO
110198474	SET,MEASURING HEAD,WITH METERING,LKP 45	PART NAME: MEASURING HEAD WITH METERING UNIT,MODEL NUMBER: LKP 45, DIRECT CURRENT METERING SYSTEMS,MEASURING RANGE: 0-45 KA, WITBLE BETWEEN MEASURING HEAD AND METERING, AUXILIARY SUPPLY FOR METERING:230VAC, MAKE:DYNAMP	NO
110198475	ASSY EVAP.BUNDLE,SCREEN TYPE,DWG.201 TD	PART NAME: ASSY EVAP.BUNDLE,SCREEN TYPE,DRAWING NUMBER: DWG.201 TD 7288,APPLICATION: EVAPORATOR 1/2,PART MATERIAL: AS PER DRAWINGSCREEN BUNDLE INCLUDES FOLLOWING 1. HAMMERING SYSTEM WITH GEARED MOTOR. 2. ROOF BOX. 3. SCREENS WITH ATTACHMENT. 4. PIPING 10M LOOR FEED CIRCULATING WATER . 5. PIPING 10M LONG FOR EVACUATING CIRCULATING WATER. TUBES: OD33.4 X 4.55WT-SA210GRA1 SMLS RETURN BED33.4 X 4.55WT X 50.8 CTC-SA 234GR WPB HEADERS: OD88.9 X 15.92WT X SA106 GR B SMLS END CAP: OD88.9 X 15.92WT X SA234GR WPB SHAFD: BS970/EN8 IBR TEST CERTIFICATED TO BE SUBMITTED	SET
110198650	MOTOR,VFD DUTY,212KW,1PS03181BF90-0AH3-Z	MOTOR,ELECTRICAL,TYPE: VFD DUTY,APPLICATION: COMPRESSOR,ENCLOSURE: IP55,MOUNTING TYPE: IM B3,FRAME SIZE: 315LN,NUMBER OF POLE: 2EED RATING: 5415,POWER RATING: 212KW,CURRENT RATING: 342A,VOLTAGE RATING: 415 V, MOTOR, ELEC SQUIRREL CAGE INDUCTION MOTOR MAKE:ENS	NO
110198705	CONVERTER,DC,DCS800,Q2,3300A,ABB	CONVERTER,CURRENT,TYPE: DCS800,APPLICATION: 5KA BOOSTER RECTIFIER, ARTICLE NUMBER:DCS800-S01-3300-05LB,RATED CURRENT:3300A,Q2,NOLD,MAKE:ABB	NO
110198706	TRANSFORMER,CURRENT,4000/1A,ABB	TRANSFORMER,CURRENT,TYPE: AC,APPLICATION: 5KA BOOSTER RECTIFIER, ARTICLE NUMBER:3ADT751007P0001,RATIO:4000/1 A, SUPPLY:ABB	NO
110198731	BARE PUMP,AISI 904L,BM 17-32R	PART NAME: BARE PUMP,PART MATERIAL: AISI 904L,APPLICATION: BOOSTER PUMP,MODEL NUMBER: BM 17-32R,PART SIZE: PRODUCT NO. 12CU0032,E PUMP SET SUPPLY, WITHOUT MOTOR AND EXTERNAL SLEEVE, CAPACITY - 17M3 PER HOUR, HEAD - 263M, FOR RO3 INTERSTAGE BOOSTER PUMP-2,UCT NO. 12CU0032	NO
110198732	BARE PUMP,AISI 904L,BM 46-17R	PART NAME: BARE PUMP,PART MATERIAL: AISI 904L,APPLICATION: BOOSTER PUMP,MODEL NUMBER: BM 46-17R, BARE PUMP SET SUPPLY, WITHOUT M AND EXTERNAL SLEEVE, CAPACITY - 46M3 PER HOUR, HEAD - 149M,PRODUCT NO. 15C70017 FOR RO3 INTERSTAGE BOOSTER PUMP-1	NO
110198845	CAMERA,LEVEL,CONTRL,MN:GT2450POE	CAMERA,TYPE: AUTOCASTING CAMERA,MANUFACTURER: -,MODEL NUMBER: GT2450 POE, PART NO:77095171 MAKE:PROPERZI APPLICATION: AUTOCASTINMERA FOR METAL LEVEL CONTROL	PC

110198861	DRIVE,VARIABLE SPEED,ACS800,86A,300HZ	DRIVE,VARIABLE SPEED,TYPE: ACS800,ENCLOSURE: IP20,INPUT FREQUENCY: 47 TO 63 HZ,OUTPUT FREQUENCY: 0 TO 300 HZ,INPUT CURRENT RATING: 380 TO 415 VAC +/-10%, MODEL NO:ACS8000-04-0050-3+E200+3400+Q967 MAKE:ABB APATION:RO#3 CENTRIFUGE MAIN DRIVE	NO
110198862	DRIVE,VARIABLE SPEED,ACS800,11KW,25A	DRIVE,VARIABLE SPEED,TYPE: ACS800,POWER RATING: 11 KW,OUTPUT CURRENT RATING: 25-32A,FRAME SIZE: R3, MODEL NO:ACS800-04-0016-3+E2400+Q967 MAKE:ABB APPLICATION:RO#3 CENTRIFUGE BACK DRIVE	NO
110199181	ASY,MAIN CATHODE,DE,S/N:09-220 A/B	PART NAME: DOUBLE ENDED MAIN CATHODE ASSEMBLY,APPLICATION: SAP DT COOLER,MODEL NUMBER: S/N : 09-220 A AND B,DRAWING NUMBER: -,PART SIZE: -, MAIN CATHODE ASSEMBLY INCLUDES P/N-101 ROD - 1 P/N-104 SHEATH - 1 P/N-105 SLEEVE - 1 P/N-207 WASHER - 2 P/N-209 BUSHING	NO
110199182	ASY,MAIN CATHODE,DE,S/N:02-714-A/B	PART NAME: DOUBLE ENDED MAIN CATHODE ASSEMBLY,PART MATERIAL: -,APPLICATION: SAP-1 AT COOLER,MODEL NUMBER: S/N : 02-714-A AND 02-B,DRAWING NUMBER: -,PART SIZE: -, MAIN CATHODE ASSEMBLY INCLUDES P/N-101 ROD - 1 P/N-104 SHEATH - 1 P/N-105 SLEEVE - 1 P/N-207 WR - 2 P/N-209 BUSHING - 2	NO
110199183	ASY,MAIN CATHODE,DE,S/N:09-221	PART NAME: DOUBLE ENDED MAIN CATHODE ASSEMBLY,PART MATERIAL: -,APPLICATION: SAP-2 AT-A COOLER,MODEL NUMBER: S/N : 09-221,DRAWINGBER: -,PART SIZE: -, MAIN CATHODE ASSEMBLY INCLUDES P/N-101 ROD - 1 P/N-104 SHEATH - 1 P/N-105 SLEEVE - 1 P/N-207 WASHER - 2 P/N BUSHING - 2	NO
110199184	ASY,MAIN CATHODE,SE,S/N:09-223	PART NAME: SINGLE ENDED MAIN CATHODE ASSEMBLY,PART MATERIAL: -,APPLICATION: SAP-2 PRODUCT ACID COOLER,MODEL NUMBER: S/N : 09-223WING NUMBER: -,PART SIZE: -, SINGLE ENDED MAIN CATHODE ASSEMBLY INCLUDES P/N-101 ROD - 1 P/N-102 RIVET - 1 P/N-103 PLUG - 1 P/N-SHEATH - 1 P/N-207 WASHER - REQD P/N-209 BUSHING - REQD	NO
110199391	ROOF PANEL NO.III,MODIFIED,B377.01.07.03	PART NAME: ROOF PANEL NO.III,MODIFIED,APPLICATION: WASTE HEAT RECOVERY BOILER,DRAWING NUMBER: B377.01.07.03.007 REV 0, CONSISTSANDAGES,HEADERS WITH ORIFICES CONNECTING FLANGES,ETC MOC: FOR TUBES-SA213 GR T 11 SMLS, FOR FINS-SA387 GR 11, FOR BENDS-SA 234 GP 11, INSPECTION CERTIFICATE: IBR, TO BE SUPPLIED WITH ALL MOC CERTIFICATES AND TEST CERTIFICATES	NO
110199392	ROOF PANEL NO.IV,MODIFIED,B377.01.07.03.	PART NAME: ROOF PANEL NO.IV,MODIFIED,APPLICATION: WASTE HEAT RECOVERY BOILER,DRAWING NUMBER: B377.01.07.03.009 REV 0, CONSISTS ONDAGES,HEADERS WITH ORIFICES CONNECTING FLANGES,ETC MOC: FOR TUBES-SA213 GR T 11 SMLS, FOR FINS-SA387 GR 11, FOR BENDS-SA 234 GR 11, INSPECTION CERTIFICATE: IBR, TO BE SUPPLIED WITH ALL MOC CERTIFICATES AND TEST CERTIFICATES	NO