

Plastic Sector			
Code No.	Description	Qty.	Unit
12-04-00001	High Density Polly Ethylene (Virgin)	3,000	ton
12-04-00002	High Density Polly Ethylene Masterbatch	300	ton
12-04-00003	Polyvinyl chloride , compound (p.v.c) k-value 58 - 60 for pressure pipe fittings by injection moulding process	100	ton
12-04-00004	Planetary Pipe Saw with retaining tools for cutting and chamfering of PVC & P.E Pipes (90 - 225) mm.	4	
12-04-00005	Vacuum Pumps with Motors	4	
12-04-00006	3 Phase Comutator Variable Speed Motor	4	
12-04-00007	Gear Box for extrusion CM 111/80 - 11312/10	6	
Brick Sector			
12-04-00008	machinery & equipment for production Lines for Wet Bricks	3	
12-04-00009	Setting Machines capacity of 13000 bricks / h with electrical control panel	3	
12-04-00010	Fans for Dryers capacity 60000 m ³ /h (motor 1.5 , 0.5) kw	68	
12-04-00011	heat resistance steel structural sections for kiln cars	200	ton
12-04-00012	Transfer Car for Kilns	10	
12-04-00013	Complete Firing System for Bricks Tunnel Kilns	5	
12-04-00014	Mechanical & Electrical Parts for Brick Factories	LIST	
12-04-00015	bearings & Mechanical seal	LIST	
12-04-00016	Galvanized Sheets (kerby) for Roofing Truss 1.0 mm thickness	10,000	m2
THERMOSTON			
12-04-00017	Aluminium Powder	50	ton
12-04-00018	reverse asmosis system capacity 30 m3/ h with accessories	1	unit
12-04-00019	mechanical & electrical parts	list	
Quarry & Concrete Sector			
12-04-00020	Cone-Gyratory Crusher for Gravel Capacity 75-100 Ton / Hr. (only the crusher + motors + hydroset) + Spare Parts	1	
12-04-00021	Cutting Machine with Circular Disc-Saw for Gravel & Stone Capacity 20000 m ² / Year with Spare Parts	2	
12-04-00022	Circular Disk Saw 350 mm - 725mm	41	
12-04-00023	Bulldozers with rippers engine HP = 280 min	10	
12-04-00024	Semi Trailers for good Transports Capacity = 50 Ton	4	
12-04-00025	Sieve (Polly Urethane) for Sand Filters	sets	
12-04-00026	Moblile Cranes capacity (30 & 50) Ton	2	

Code No.	Description	Qty.	Unit
12-04-00027	Submersed multi stage Electric Vertical pumps	4	

Code No.	Description	Qty.	Unit
12-04-00028	CAR FOR TRANSPORT 24 SEATS	12	
12-04-00029	TRUCK & DUMP TRUCK 16-20 TON CAPACITY	35	
Workshop			
12-04-00030	Bars Different Dimensions (carbon steel)	list	
12-04-00031	Steel Angles		
12-04-00032	50x35 mm Cold rolled	10	
12-04-00033	50x50 mm cold rolled	5	
12-04-00034	2.5 x 2.5 Inch cold rolled	5	
12-04-00035	Plates (carbon steel)		
12-04-00036	2mmx1200x2440 cold rolled	20	
12-04-00037	3mmx1200x2440 cold rolled	20	
12-04-00038	4mmx1200x2440 cold rolled	20	
12-04-00039	30mmx1200x2440 cold rolled	20	
12-04-00040	Instruments Gauges for calibration and quality control	list	
12-04-00041	Tools	list	
12-04-00042	Hobs for cutting sprokets ST NH 393-61	2	
12-04-00043	Rough gear hobs 20 DIN 8002 , HSS	2	
12-04-00044	COMPLETE FIRE ENGINE SUITABLE TO WORK AT CEMENT PLANT	3	
12-04-00045	COMPLETE SUCTION ROAD SWEEPER SUITABLE FOR CEMENT PLANT	1	
12-04-00046	GRINDING STEEL BALLS	500 TONS	
	TYPE BC 18 HB 600 CR.17 %		
	MM TONS		

	80 150		
	70 200		
	60 150		
12-04-00047	ALOX GRINDING MEDIA FOR WHITE CEMENT GRINDING	200 TONS	
	AL2 03 MIN 90 %		
	MINIMUM SPECIFIC GRAVITY OF MATERIAL 3.65		
	MAXIMUM RESISTANCE TO WEAR		
	HIGH GRINDING EFFECT		
	HARDNESS (9) ON MOHS SCALE		
	HARDNESS (78) ROCKWELL		
	GUARANTEE AGAINST BREACKAGE AND DEFORMATION		
	AND PREFERABLY THE GRINDING MEDIA ARE PRIMILLED		
	PRESSURE STRENGTH 21000-22000 (KG/CM2)		
	POROSITY ZERO		
	SIZES TO BE AGREED 40MM 50MM 60MM.		
12-04-00048	CASTABLES AL2O3 70-80 %	200 TONS	
12-04-00049	HIGH ALUMINA FIRE BRICKS AL2O3 80%	600 TONS	
12-04-00050	MAGNESITE FIRE BRICKS MGO 80 %	3000 TONS	
12-04-00051	KRAFT PAPER SACKS	10000000 SACKS	
12-04-00052	PAPER FOR CEMENT BAGS	6,000	ton
12-04-00053	RUBBER CONVEYOR BELTS DIFFERENT WIDTHS	3500 M	
12-04-00054	MECHANICAL SPARE PARTS FOR CEMENT MACHINARY	DIFFERENT	
12-04-00055	ELECTRICAL SPARE PARTS FOR CEMENT MACHINARY	DIFFERENT	
12-04-00056	COMPLETE THERMANL BOILERS	2	

Code No.	Description	Qty.	Unit
12-04-00057	CAST STEEL MATERIALS	DIFFERENT	
12-04-00058	SPARE PARTS FOR PAPER SACKS MACHINE	DIFFERENT	
12-04-00059	SPARE PARTS FOR COOLING TOWER	DIFFERENT	
12-04-00060	SPARE PARTS FOR BURNERS	DIFFERENT	
12-04-00061	SPARE PARTS FOR ELECTROSTATIC PRECIPITATORS	DIFFERENT	
12-04-00062	GIRTH GEARS WITH PINIONS AND SHAFTS	1 UNIT	
	WITH NECESSARY BOLTS AND NUTS AND SEALS FOR		
	PINIONS FOR CEMENT MILL.		
	GENERAL DESCRIPTION		
	PINIONS ARE MADE OF CR-MO STEEL. THEY ARE SHRINK		
	FITTED AND KEYED TO FORGED STEEL SHAFTS.		
	EACH SHAFT IS SUPPORTED BY TWO PLUMER BLOCKS		
	PROVIDED WITH SPHERICAL ROLLER BEARING.		
12-04-00063	GIRTH GEAR OF LOW CR-MO STEEL DEVIDED INTO	2 UNIT	
	TWO PIECES (HALF CIRCLE) AND BOLED VIA THE		
	DISCHARGE SIDE SHELL FLANGE TO THE TRUNION.		
	THE TWO PIECES OF GEAR ARE JOINTED WITH SHRINK-		
	FITTED RINGS AND REAMER BOLTS.		
	LUBRICATION TO THE GEAR AND PINIONS MESHING IS		
	MADE BY MEANS OF THE OIL PINION WHICH IS MADE OF		
	SYNTHETIC RESIN, EXCHANGES WITH THE GIRTH GEAR.		
	HIGH TENSION SQUIRREL CAGE MOTORS		
	SUPPLY VOLTAGE ;6600 VOLTS , 3 PHASE , 50 HZ		
	VOLTAGE/FREQUENCY VARIATION; I 10% / I 5 %		
	INSULATION CLASS:F		
	DUTY: S		
	TYPE L POWER SPEED H L W X		
12-04-00064	MIP3 THA2 200 KW 1000RPM 355MM 700MM 600 420	1 UNIT	
12-04-00065	MIP3 THA2 200KW 1481RPM 355MM 620MM 600 420	1 UNIT	
	FOR EACH ABOVE MOTORS		
12-04-00066	DRIVE AND NONDRIVE END BEARING	1 SET	
12-04-00067	D.C. MOTOR OUTPUT 400 KW FRAME SIZE CF 450 E3	1 UNIT	
	STANDARD: UTE ROTATION: IP45 DUTY:SI		
	VOLTAGE:420 V CURRENT:1015 A SPEED:60-600 RPM		
	EXCITATION TYPE :SEP EXCITATION VOLTAGE:220 V		
	EXCITATION CURRENT:14.6 A INSULATION:CLASS F		
	VENTILATION:2.8 M3/S , 200 OF WATERTEMPERATURE RISE:85C		
12-04-00068	D.C MOTOR OUTPUT : 150 KW	1	
	TYPE: TA31MBE		

Code No.	Description	Qty.	Unit
	SPEED: 300-1500 R.P.M.		
	VOLTAGE: 440 V		
	CURRENT: 360 A		
	EXCITATION : 220 V		
	D.C MOTOR OUTPUT : 45 KW		
	TYPE: TA2 IMB3		
	SPEED : 300-1350 RPM		
	VOLTAGE: 440 V		
	CURRENT : 115 A		
	EXCITATION : 220 V		
	FOR ABOVE ITEMS 1,2,3 D.C. MOTORS		
12-04-00069	CARBON BRUSHES	2 SETS	
12-04-00070	HOLDERS BRUSH	1 SET	
12-04-00071	DRIVE AND MON DRIVE END BEARING	1 SET	
12-04-00072	H. T. SLIPRING WOUND ROTOR MOTOR	2 UNITS	
	RATING OUT PUT POWER 750 KW SUPPLY SYSTEM VOLTAGE		
	6600 VOLTS, 3 PHASE, 50 HZ VOLTAGE FREQUENCY		
	VARIATION + - 10 % / I 5 % NUMBER OF PLOS 4 (SYN.		
	SPEED 1000 OR 1500 R.P.M.		
	TYPE OF ROTOR SLIPRING WOUND ROTOR INSULATION		
	CLASS F		
12-04-00073	SPARE PARTS FOR PACKING MACHINES	DIFFERENT	
	HEAT RESISTANT PLATES		
	ALL DIMENTIONS IN MM		
12-04-00074	1- 1500 * 3000*8 USA AISI 304 DIN. GERMANY 17440=1.4301	32 PCS	
12-04-00075	2-1500*3000*10 USA AISI 304 DIN. GERMANY 17440=1.4301	69 PCS	
12-04-00076	3- 1500*3000*12 = = 316 = = 17440=1.4401	69 PCS	
12-04-00077	4- 1500*3000*16 = = 316 = = 17440=1.4401	32 PCS	
12-04-00078	5- 1500*3000*20 = = = = = = =	8 PCS	
12-04-00079	6- 2000*2000*40 = = = = = = =	4 PCS	
12-04-00080	STAINLESS STEEL SHAFTS	12	
12-04-00081	SHAFT DIA .65 MM USA AISI 316	4	
	PIEC LENGTH 4 METER		
12-04-00082	SHAFT DIA. 100MM PICE LENGTH 4 METER	2 PCS	
12-04-00083	SHAFT FOR EXHAUST FAN FOR CEMENT KILN	4 PCS	
	LENGTH : 5500 M/M DIA. 500 M/M		
	MATERIAL : JIS SF 50 (FORGING STEEL 50)		
12-04-00084	1- DIAPHRAGM PUMP TYPE 3N , 220 V 50HZ FLOW 60L/HR	6 PCS	
	DEAD TIME 0,25S TIME RESPONSE 90% TIME 0,4S		
	GAS CONNECTION G 1/4 FEMALE THREAD DIN 50228/1		
12-04-00085	2- FILTER PAEPER DIA 55MM	20 BOXES	
12-04-00086	3- CO GAS ANALYZER	10	
12-04-00087	4-02 GAS ANALYZER	10	
12-04-00088	5- PR. GAS 90 % ARGON 10 % METHAN 50 LITER 200 BAR	25 cylinder	
	ARGON 99 % LESS THAN 0.01 02 REMAINDER N2 METHAN 99 %		

Code No.	Description	Qty.	Unit
	REMINDER N2+ C1		
12-04-00089	6-CO GAS 1 % VOL 50 BAR 20 LITER	10	CYLIN.
12-04-00090	7- CO GAS 3 % VOL 50 BAR 20 KITER	10	CYLIND.
12-04-00091	GEAR BOXES SEVERAL TYPES	10	
12-04-00092	GEAR MOTORS SEVERAL TYPES	10	
12-04-00093	PLC SYSTEM	2	
12-04-00094	ROOT BLOWERS SEVERAL TYPES	20	
12-04-00095	COMPRESSORS SEVERAL TYPES	6	
12-04-00096	FUEL OIL PUMPS	2	
12-04-00097	FANS 9800 M3/MIN	2	
12-04-00098	FANS DIFFERENT CAPACITIES	8	
12-04-00099	MAIN SHAFTS FOR LIMESTONE CRUSHER	2	
12-04-00100	RUBBER CONVEYOR BELTS DIFFERENT WIDTHS	3500	M
12-04-00101	CRUSHERS FOR RAW MEAL SAMPLING STATION	2	
12-04-00102	MECHANICAL SPARE PARTS FOR LAMINATED CONVEYORS	2	SETS
	FOR CRUSHERS		
12-04-00103	MECHANICAL SPARE PARTS FOR STACKER & RECLAIMER	2	SETS
12-04-00104	CIRCUIT BREAKERS WITH SPARES	6	SETS
12-04-00105	MECHANICAL SPARE PARTS FOR CLASSIFIERS FOR RALL MILLS	DIFFERENT	
	& CEMENT MILLS		
12-04-00106	SPARE PARTS FOR BUCKET ELEVATORS	DIFFERENT	
12-04-00107	SPARE PARTS FOR MECHANICAL BAG FILTERS	DIFFEREN	
12-04-00108	SENSORS DIFFERENT TYPES	100	
12-04-00109	HIGH PRESSURE OIL PUMPS	20	
12-04-00110	LAW PRESSURE OIL PUMPS	10	
12-04-00111	HIGH & LAW PRESSURE WATER PUMPS DIFFERENT CAPACITIES	16	
12-04-00112	SPARE PARTS FOR COOLING TOWERS (NOZZELS, VALVES,	DIFFERENT	
12-04-00113	HIGH PRESSURE HOSES.....ETC.)	DIFFERENT	
12-04-00114	COUPLINGS & BACK STOPS DIFFERENT TYPES	DIFFERENT	
12-04-00115	VALVES DIFFERENT TYPES	DIFFERENT	
12-04-00116	BEARINGS & HOUSINGS	DIFFERENT	
12-04-00117	CARBON BRUSHES FOR HIGH TENSION & DC MOTORS	1,500	
12-04-00118	SPARE PARTS FOR BURNERS	DIFFERENT	
12-04-00119	SPARE PARTS FOR OIL BOILERS	DIFFERENT	
12-04-00120	TRUCK & DUMP TRUCK 16-20 TON CAPACITY	35	
12-04-00121	Rehabilitation and supply the missing of spare parts of 2nd line of Kerbala cement plant the plant essentially consists of :		
12-04-00122	* compound crusher , type APCM 20/30/s/k for 1,200 t/h of limestone and clay .		
12-04-00123	* circular blending bed (polysius) for 2x 35,000 t of mixture , diameter : 96m		
12-04-00124	air - Swept mill 5.8m Oxl2m long, with cyclone separator .		
12-04-00125	Capacity : 308 t/h at 1% R on 72 M/inch (Bss410-1955) wet screening .		

Code No.	Description	Qty.	Unit
12-04-00126	* two - storey blending silos 16 m O. storage capacity : 2x3,500 m3 and 2x7,500m3		
12-04-00127	* klin line with preheater type 2442 , REPOL as , rotary kiln 4.2 m O x 68 m long , and CPAG grate cooler type 1.1-3-305-92 for a capacity of 3,200 t/d of clinker .firing oil / gas (combined) bypass installation for 0 to 30 %		
12-04-00128	* clinker storey with capacity of 100000 ton		
12-04-00129	* clinker grinding plant with two - chamber mills 4.2m O x 14.5m long and cyclone separator . Capacity at 2,800 blaine 110 t/h opc or 93 t/h SRC, respectively .		
12-04-00130	* one cement silo 18 m O with bulk loading facility .		
12-04-00131	* packing plant with 3 rotary packers and truck - loading facility .		
12-04-00132	* oil supply system , gas reduction station , water supply system and compressed air supply system .		
12-04-00133	* Electrical and electronic equipment , control panels .		
12-04-00134	* sampling stations , laboratory automation system, kiln control program .		
12-04-00135	Rehabilitation and supply the missing of spare parts of 2nd line of Muthana cement plant the plant essentially consists of :		
12-04-00136	* crusher for double shaft hammer with capacity of 1400 t/h		
12-04-00137	* Raw mix with capacity of 70000 ton .		
12-04-00138	* Raw mill 5.4 O x 14.3m long . Capacity : 320 t/h		
12-04-00139	* two - Raw meal storage with capacity 10000 t/each .		
12-04-00140	* kiln line with preheater , rotary kiln 4.4m O x 68m long with grate cooler , for a capacity of 3,200 t/d of clinker .firing oil / gas (combined)		
12-04-00141	* clinker storey with capacity of 140000 ton		
12-04-00142	* two clinker grinding plants with 4.2 O x 14.58m long capacity 110 t/h opc or 93 t/h SRC, respectively .		
12-04-00143	* two cement silo .		
12-04-00144	* packing plant with 3 rotary packers		
12-04-00145	* oil supply system , gas reduction station , water supply system and compressed air supply system .		
12-04-00146	* Electrical and electronic equipment , control panels .		
12-04-00147	* sampling stations , laboratory automation system, kiln control program .		
12-04-00148	TRUCK & DUMP TRUCK 16-20 TON CAPACITY	35	

Code No.	Description	Qty.	Unit
12-04-00149	FIRE BRICKS, FOR CEMENT KILNS.Q 4.4M. HIGH ALLOMINA BRICKS. AND UAGNAZITE BRIKS .	4000 TON	
12-04-00150	KRAFT PAPER SACKS .49.5× 63 ×11 CM. FOR PACKING CEMENT. (2.TO 4 PLY)	15000 000	
12-04-00151	RE HABETLATION OF CEMENT	COMPL LINE	
12-04-00152	BRODUCTION LINE NO.3 IN BADOOSH. KILN OF CEMENT Q 4.4M. CAPASITY: 2000T/D		
12-04-00153	FIRE CEMENT. FOR CEMENT KILN. HIGH ALLOMINA. UP TO 1400 C ⁰	500 TON	
12-04-00154	GEAR MOTOR. FOR MOTORS (2-30.KW. POWER). 1500-50R.P.M 380.V.	DIFFERENT	
12-04-00155	KILN. SHELL. Q.4.4M- THICKNESS. 50MM - STEEL (ST.37)	1	
12-04-00156	COUPLINGS. FOR MOTOR. 1.250. KW POWER .0.DOF COUPLING . 900MM. I.D. 320 MM. (TECTH COMPLINGS)	DIFFERENT	
12-04-00157	STEEL. CHAINE. FOR ELEVETORS OF CLINKER AND CEMENT MILL . PITCH 250 MM. THICKNESS 10MM. (CK45 STEEL) .	DIFFERENT	
12-04-00158	DUST PRECIPITATORS. FOR CEMENT KILN. Q 4.8M.× 164M.	1	
12-04-00159	BELT.CONVEYORS. WIDTH 2000MM TO 500MM .THICKNESS OF 16 TO 9MM . FOR CONVEYEING CEMENT AND CLINKER.	3000 M	
12-04-00160	PLATES: STEEL PLATES THICKNESS (5MM TO 80MM) . 1.2M × 2.4 M. FOR CEMENT FACTORY USE.	20 TON	
12-04-00161	SHAFTS: Q 200 MM TO 500MM LENGTH. 3M. STEEL 45 CK.	90 M	
12-04-00162	AIR SLIDE CLOTH. THICKNESS 5MM. WIDTH. (40- 55CM). FOR TRANSPORTING CEMENT .	1000 M	
12-04-00163	ROTOR FOR SLIP RING MOTOR. 3.350. Kw. 900.r.p.m. 6.6.kv. For motor OF CEMENT MILL.	1	
12-04-00164	THERMOCOUPLES (10 - TO 1400 C ⁰)	290NO.	
12-04-00165	ELECTRONIC CARDS FOR PLC FOR CONTRORL OF CEMENT PLANT .	30 .NO.	
12-04-00166	TRUCK & DUMP TRUCK 16-20 TON CAPACITY	35	
12-04-00167	GRAIN ORIENTED AND NOAN ORIENTED SILICON STEEL	250	
12-04-00168	COLD ROLLED CARBON STEEL STRIP	200	
12-04-00169	HOT ROLLED STEEL SHEET & STAINLESS STEEL SHEETS	200	
12-04-00170	ROLLED STEELSHAPS	200	
12-04-00171	CARBON STEEL PIPES AND ROD	200	

Code No.	Description	Qty.	Unit
12-04-00172	TOOL STEEL	20	
12-04-00173	COPPER WIRE (BARE, ENAMILLED , PAPER INSULATED)	200	
12-04-00174	INS.FLEXIBLE WIRE & ARMORED CABLE	15,000	
12-04-00175	COPPPER STRIP & COPPER CAKE	300	
12-04-00176	INSULATING MATERLAL	70	
12-04-00177	ALUMINIUM INGOT AND STRIP	250	
12-04-00178	purch wood	100	
12-04-00179	TAB CHANGER WITH CONTROL PANEL	100	
12-04-00180	BUSHING FOR TRANSFORMERS	2,000	
12-04-00181	SEMI FINISHED PARTS & FASTENERS FOR TRANSFORM	4,000,000	
12-04-00182	COILFOR DISTRBUTION AND POWER TRANSFORMERS	4,000	
12-04-00183	ACTIVE PARTS FOR DISTRIBUTION & POWER	2,000	
12-04-00184	PRODUCTION SUPPLYS FOR THE ELECTRIC IRON(TOOLS,DIES, SEMI FINISHED PARTS)	1,500,000	
12-04-00185	PRODUCTION SUPPLYS FOR THE CEILING FAN (TOOLS,DIES ,SEMI FINISHED PARTS)	2,500,000	
12-04-00186	SEMI PARTS FOR SPARK PLUGS	3,000,000	
12-04-00187	TESTING EQUIPMENT	200	
12-04-00188	DIFFERENT TOOLS FOR M/CS AND DIES	60,000	
12-04-00189	PUMP AND COMPRESSORS FOR CENEREL SERICSS	50	
12-04-00190	LIQUID OXGGEN AND ARGON TANKER ON TRALLER CAPCTTY 500 AND 1000L	4	
12-04-00191	LIQUIFIED CO2 GAS , CO2 UNIT CAPACITY 120 KG/HOUR	1	
12-04-00192	FORK-LIFTS & SHOVEL	30	
12-04-00193	REHABILITATION OF RADIATOR LINE FOR DISTRIBUTION AND POWER TRANSFORMER	1	
12-04-00194	REHABILITATION OF CORFORMING M/CS FOR DISTRIBUT AND POWER TRANSFORMER	1	
12-04-00195	REHABILITATION OF AUTAMATIC AND STEPPING M/C FOR POWER TRANSFORMER FACTORY	1	
12-04-00196	IMPROVING OF AUTO TESTING LINE FOR POWER TRANS-FORMER FACTORY	1	
12-04-00197	REHABILITATION OF AUTO-CRIMIPING LINE FOR SPARK PLUG FOCTORY	1	
12-04-00198	SPARE PARTS FOR MACHINES	DIFF	
12-04-00199	PRODUCTION SUPPLYS FOR OIL HEATER(TOOLS,DIES,SEMIFISHED PARTS	1 SET	
12-04-00200	POWER SUPPLY CORD	250000 M	
12-04-00201	CABLE FOR DOMESTIC HEATERS	160,000	
12-04-00202	EXHANST FAN MOTOR	25000 PCS	
12-04-00203	COMPRESERS	4000 PCS	
12-04-00204	THERMOSTATE	3000 PCS	
12-04-00205	MOULDS FOR SMALL WASHING MACHINE	25 PCS	
12-04-00206	SEMI FINISED PAETS	4000000 PCS	
12-04-00207	COPPER WIRE(ENAMELLED,FIBER GLASSENAMEDLED & PAPER INSULTED	200 TON	
12-04-00208	CHEMICALS	25 TON	
12-04-00209	COATING MATERIALS AND SOLVENTS	50 TON	
12-04-00210	OIL	10 TON	
12-04-00211	MOULDING COMPOUND(PLASTIC)	50 TON	
12-04-00212	EQUIPMEDNATS FOR WARE HOUSE(SIZE 20*20*7METER) (RAEKS AND PALLETS WITH THE NECCARY UNIT EQUIPMENTS)	1 SET	
12-04-00213	ELECTROLYTIC-Ni CA6THODES	60 TON	

Code No.	Description	Qty.	Unit
	Ni+CO=99.98% / CO=0.1% Max/CU=0.01% Max		
	GRAIN SIZE =100*100 mm /PACKING BARRELS		

Code No.	Description	Qty.	Unit
12-04-00214	FECR CARBURE 70/5 DIN 17565	300 TON	
	Cr=65%Man. / C=4-6% / Si=1.5 % Max.		
	GRAIN SIZE 10-100mm / PACKING St DRUM		
12-04-00215	FECR AFFINE 70/05 DIN 17565	100 TON	
	Cr =67% MIN./ C=0.5% MAX. C55/ Si=1.5% MAX.		
	GRAIN SIZE =10-75 MM/ PACKING St. DRUM		
12-04-00216	FEMN CARBURE 70/7 DIN 17565	100 TON	
	MN= 70-80% / C= 6-8% / SI = 1.5% MAX		
	GRAIN SIZE = 20-28 MM PACKING St. DRUM		
12-04-00217	FEMN AFFINE 78/1 DIN 17564	100 TON	
	MN = 80% MIN . / C= 1.5% MAX ./ SI = 1.5% MAX.		
	GRAIN SIZE =20--80MM / PACKING St. DRUMS		
12-04-00218	FESI 75 DIN 17560	100 TON	
	SI= 75% MIN. / Cr=0.5% MAX. / Mn=0.7% MAX .		
	GRAIN SIZE = 20- 100 MM PACKING St. DRUMS		
12-04-00219	FEMO 70 DIN 17561	15 TON	
	MO= 65% MIN./ CU= 0.5 MAX./ SI= 1% MAX.		
	GRAIN SIZE = 10-100 MM/ PACKING St. DRUMS		
12-04-00220	GRAPHITIZED ALUMINA ROTOROD STOPPER	550 PC	
	TYPE : RR 24 - 860 C= 28-33% / AL203=50-56%		
	SI02=14- 18% POROSITY =15-19%		
12-04-00221	GRAPHITIZED ALUMINA ROTOROD STOPPER HEAD	1000 PC	
	AL203 = 61-63% / SI02= 17.5% /C =16-18%		
	DENSITY=2.28 G/CM3 / POROSITY = 23%		
12-04-00222	MAGNESITE RAMMING & CASTING MIX.	32 TON	
	ANKER MIX - NS60 / MgO=91%/ AL203=0.3%		
	BOND : CHEMICAL- CERAMIC GRAIN 0-5 MM		
12-04-00223	MAGNESITE GUNNING MIX ANKER GUN -OW 70	32 TON	
	MgO=80% / AL203 =0.5% / SI02= 3.5%		
	BOND : CHEMICAL- CERAMIC GRAIN 0-2 MM		
12-04-00224	RAMMING MIX ANKER HARTH - NB 90	35 TON	
	MgO= 75% / AL203 =0.5% / FE203= 5.5%		
	BOND = CERAMIC / GRAIN = 0-5 MM		
12-04-00225	COLD SETTING FURAN RESIN /FOR MOUL.CORES	70 TON	
	FURFURYL ALCOHOL=79%/N2.09% /PHENOL=FREE		
	FREE HCHO=0.15% / DENSITY AT20C=10 MPA.S		
	PACKING St. DRUMS		

Code No.	Description	Qty.	Unit
12-04-00226	INDUCTION FURNACE MASS WORKING LINING	60 TON	
	AL2O3 = 85% / SiO2= 0.2% / Fe2O3 =0.2%		
	MgO= 14.6% / GRAIN SIZE = 0-4 MM		
	DENSITY = 2.8 TO/ M3 PACKING PALLETS		
12-04-00227	GRINDING WHEELS FOR PEMDEULUM	75 PC	
	GRINDING MACHINE TYPE . PS-500		
	500*60*127/ V=60 M/ S		
	QUALITY 142 12/4 07 BA BACELITE BOUND		
12-04-00228	GRINDING WHEELS FOR ROUGH	150 PC	
	GRINDING (St.CASTING)		
	600*60*203/ VS= 60 M/S		
	TYPE 600/SK 60 - E		
12-04-00229	GRINDING WHEELS FOR	50 PC	
	REMA - GRINDING MACHINE TYPE DSO7/200		
	200*25*51/ VS= 30M/S		
12-04-00230	GRINDING WHEELS FOR	400 PC	
	ROUND TABLE GRINDING MACHINE		
	600*30*304.8/ V= 60 M/S		
12-04-00231	ZIRCON SILICA SAND	50 TON	
	ZRO2= 65% MIN. / FE2O3= 0.1% MAX.		
	TIO2= 0.3% MAX. / SiO2= 32.8%		
	GRAIN SIZE = MK= 0.18 MM		
	PACKING PALLETS		
12-04-00232	CHROMITE SAND /AFS 75	200 TON	
	AVERAGE GRAIN SIZE 0.18 mm		
	Cr2O3=47% /Fe2O3=26% / SiO2=1%/Al2O3=15.5%		
	MgO=10% /BULK WEIGHGT=2.8T/m3		
	PH=8.9/PACKING BAGS ON PALLETS		
12-04-00233	CLAY GRAPHITE POURING NOZZLE Q=25 mm	500 Pc	
	TYPE LN 1H 170/		
	FOR RR 24/25- 860 ,Q=25 MM		
	C=28-33% / AL2O3=50-56% / SiO2=14-18%		
	BALANCE OF MIN. INGREDIENTS		
	PACKING : SEA WORTHY		
12-04-00234	MINI-FLOWERPOT/BLOATING CLAY	500 Pc	
	POURING NOZZLE TYPE VA 139		
	FOR RL 749 - 75 HR/ CVC 45 mm		
	SIO2 = 64% /AL2O3 =28-30% / MgO= 0.6 %		
	Na2O=0.5 % / POROSITY =18- 20 %		
	BULKDENSITY =2.08 g /cm^3		
	PACKING GRATE ON PALLETS		
12-04-00235	STEEL WIRE SHOT / CUT WIRE 1.2 mm	30 TON	
	LENGTH & DIA.=1.2 mm		
	TENSIL STRENGTH =160 - 180 Kg /mm^2		
	PACKING PAPER BAGS IN STEEL DRUMS		
12-04-00236	INDUCTION FURNACE MASS - TOP MASS	10TON	
	SiO2 21/ AL2O3=93 % /SiO2= 0.6% /Fe2O3=2.9%		
	K2O+Na2O=1.1% /Cr2O3=1.0%		
	DENSITY=3.0t/m3/GRAIN SIZE=0-5mm		
	MAX TEM.OF APPLICATION=1600c		
	PACKING IN PALLETS		

Code No.	Description	Qty.	Unit
12-04-00237	CERAMIC FIBER BOARD	1000PC	
	Al2O3=45% / SiO2=54%		
	SERVICE TEMP.=1260c/DENSITY=310Kg/m3		
	DIM.=1000*1000*5mm		
12-04-00238	GLUE FOR STICKING HOT	1TON	
	CORES SHELL MOULDING BASED ON SIN THETIC RESIN		
	VISCOSITY(20c)=2.7		
	TENSILE STRENGTH:MORE THAN 150N/cm2		
	PACKING:IN TUBES OF ABOUT 0.5-1Kg		
12-04-00239	HIGH - FREQUENCY STRAIGHE GRINDERS	30 PC	
	VOLTAGE=220 V / FREQUENCY=200 Hz		
	INPUT=1800 WATTS/ OUTPUT=1400 WATTS		
	SPEED ON LOAD=12000 r.p.m		
	EQUIPED WITH 1 WHEEL GUARD		
	1 SET OF SPANNERS/ 1 PAIR OF FLANGES		
	GRINDING ARM 19 , 3/4 (500 mm) LONG		
12-04-00240	SEPARATION AGENT	8 TON	
	(CALCIUM STEEARTE)		
	BULK DENSITY=180 g/l		
	MELTING POINT=159 C / WATER CONT.=2.4%		
	Ash CONT. =9.4%		
	PACKING: BAGS OF 15 Kg ON PALETTES		
12-04-00241	EXOTHERMIC & INSULATING	8 TON	
	HOT-TOPPING POWDER / FERRUX 707		
	AL CONT. =18.5% / BULK DENSITY=0.5% g/cm3		
	BURNING TIME= 1M 405		
	TEST VALUES AT 1400C , SAMPLE 600 g		
	PACKING PAPER BGAES PALLET		
12-04-00242	AICONOI BASED GRAPHITE	15 TON	
	COATIING FOR CORES		
	READY TO USE (FOR CAST IRON)		
	DENSITY (20 C) =1.1 G/MI		
	SOIID CONT. : ABOUT 50%		
	FLASH POINT : BELOW 21C		
12-04-00243	ALCOHOL BASED ZIRCON	10 TON	
	COATING FOR MOULDS AND CORES		
	READY TO USE		
	SOLIDS =ABOUT 60%		
	PACKING :STEEL DRUMS		
12-04-00244	GRINDING POINT FOR HIGH FREQUENCY	5000 PC	
	HAND GRINDING / TYPE : MSHO 852 Z		

Code No.	Description	Qty.	Unit
12-04-00245	GRAPHITE ELECTRODE WITH TAPERED THREAD SOCKET& TAPREAD NIPPLES 4TPI TYPE OF NIPPLE 152T 4 LS-SPECIAL QUALITY PITCH PROOFED NORMAL DIA=250 mm AQTUALDI=251-256 mm/LENGTH = 1500 mm ASH CONT.=0.2% APPAR.DENSITY = 1.55-1.75 g/CM3 REAL DENSITY =2.20-2.250g/sm3 POROSITY =20-30% PACKING : ELECTRODES INCRATES ON PALLET NIPPLES PACKED IN CARD BOARD BOXES IN WOODEN CASES	25TON	
12-04-00246	RELEASE AGENT ASPECILLY FOR MULATED QUICK DRYING RELEASE AGENT WHICH WILL AID THE RELEASE OF MOULDING SAND FROM PATTRENS&CORE BOXES DESCRIPTION:STABLE,LOW VISCOSITY DESCRIPTION OF SPESIAL POLY MAR BLEND. APPEARANCE :THIEN MILKY LIQYID COLOUR: CREAMY WHITE SOLID CONT.:8% / FLASH POINT :4c PACKING :5 LITER TINE	50 CAN	
12-04-00247	SILVER GRAPHITE POWDERUSED TO PRODUES ALCOHOL GRAPHITE COATING/C=99% PACKING:MULTIPLY PAPER BAGS WITH MOISTURE PRETECTION ON PALLETS COVERD WITH SHRINK POLY THENE FOIL	5TON	
12-04-00248	INDUCTION FURIACE BOTTOM&TOP BACKING LINING SUPER202 Al2O3=76%/SiO2=3%/Fe2O3=7%/CaO=9%/TiO2=3.5 % GRAIN SIZE=0-4mm/DENSITY=2.6t/m3 MAX TEMP.OF APPLACATION=1450c BACKING :ON PALLETS	20TON	
12-04-00249	MAGNESITE-CHROME BRISK ANKROM BM 65B WITH 2 STEEL SHEETS ATTECHED MgO=60%/Al2O3=6%/Cr2O3=18%/Fe2O3=13.5% CaO=1.2%/CiO2=0.9% DIM.=250*124*76mm/BULK DENSITY=3.28t/m3 PACKING :INSTRUCTION SEAWORTHY	5TON	

Code No.	Description	Qty.	Unit
12-04-00250	MAGNESITE-CHROME BRISK	5TON	
	ANKROM BM 65B WITH 2 STEEL SHEETS ATTECHED		
	MgO=60%/Al2O3=6%/Cr2O3=18%/Fe2O3=13.5%		
	CaO=1.2%/SiO2=0.9%		
	DIM.=250*124*64mm/BULK DENSITY=3.28t/m3		
	PACKING :INSTRUCTION SEAWORTHY		
12-04-00251	MAGNESITE-CHROME BRISK	7 TON	
	ANKROM BM 65B WITH 2 STEEL SHEETS ATTECHED		
	MgO=60%/Al2O3=6%/Cr2O3=18%/Fe2O3=13.5%		
	CaO=1.2%/SiO2=0.9%		
	DIM.=250*76*149/99mm/BULK DENSITY=3.28t/m^3		
	PACKING :INSTRUCTION SEAWORTHY		
	material FOR HEAT TRETMENT		
12-04-00252	MATERIAL DESIGN BASALAN BDX II	250M^2	
	STORAGE INSTRUCTION : DURITION OF STROANGE:		
	DRY STORED UNLMT./DIM.500*1000*40		
	material FOR HEAT TRETMENT		
12-04-00253	MATERIAL DESIGN BASALAN BDX II	250M^2	
	STORAGE INSTRUCTION : DURITION OF STROANGE:		
	DRY STORED UNLMT./DIM.500*1000*60		
	material FOR HEAT TRETMENT		
12-04-00254	MATERIAL DESIGN PARGAS PV-240 VT	270 M^2	
	STORAGE INSTRUCTION : DURITION OF STROANGE:		
	DRY STORED UNLMT./ SiO2=50%/ MgO 9%/Al2O3=9%		
	Na2O= 2% / FeO= 6% / K2O= 1% / CaO= 19%		
	DIM.= 900*600*50 mm / BULK DENSITY = 0.240 t/ m^3		
	material FOR HEAT TRETMENT		
12-04-00255	MATERIAL DESIGN PARGAS PV-240 VT	225m^2	
	STORAGE INSTRUCTION : DURITION OF STROANGE:		
	DRY STORED UNLMT./ SiO2=50%/ MgO 9%/Al2O3=9%		
	Na2O= 2% / FeO= 6% / K2O= 1% / CaO= 19%		
	DIM.= 900*600*40 mm		
	material FOR HEAT TRETMENT		

Code No.	Description	Qty.	Unit
12-04-00256	MATERAIL DESIGN:CALC.SILICATE-SLAB	150M^2	
	SiO2=40.5%/CaO=42.4%/MgO=0.3%		
	BULK DENSITY :0.240-0.260t/m^3		
	DIM. 1250*500*50mm /open porsity:82.6 vol%		
	material FOR HEAT TRETMENT		
12-04-00257	STORAGE INSTRUCTION : DURITION OF STROANGE:	50m^2	
	DRY STORED		
	UNLMT.SiO2=39%/MgO=2.5%/Al2O3=23.5%		
	Fe2O3=0.5%/CaO=23%/ORG.BINDER=8.5%		
	DIM.=500*1000*30mm		
	buLK DENSITY :240Kgs/M^3		
	material FOR HEAT TRETMENT		
12-04-00258	STORAGE INSTRUCTION : DURITION OF STROANGE:	1000m^2	
	DRY STORED UNLMT.SiO2=49-51%/Al2O3=47-50%		
	DIM. ROLL / BULK DENSITY=0.1-0.13t/m^3/RG128 0.5 Inch		
	material FOR HEAT TRETMENT		
12-04-00259	STORAGE INSTRUCTION : DURITION OF STROANGE:	500m^2	
	DRY STORED UNLMT.SiO2=49-51%/Al2O3=47-50%		
	DIM. ROLL / BULK DENSITY=0.1-0.13t/m^3 /RG128 1.0Inch		
	material FOR HEAT TRETMENT		
12-04-00260	FIBERFIX / Q=5mm / L=300mm	5000Pc	
	material FOR HEAT TRETMENT		
12-04-00261	DREHCLIP / D60	5000 Pc	
	material FOR HEAT TRETMENT		
12-04-00262	TURNCLIP / D38	5000Pc	
	material FOR HEAT TRETMENT		
12-04-00263	MONTEGCLIP / 40*40	5000Pc	
12-04-00264	SILICON SEPARATING AGENT FOR SHELL MOULDING	0.5TON	
	& HOT CORE BOXES		
	SILICON OIL =35% /WATER=65%		
	DENSITY AT (20c)=1t/m^3		
	PACKING :PLASTIC DRUM		
12-04-00265	SELF-HEATING INSULATING RISER SLEEVES	6000 Pc	
	ASBESTOS FREE PREFABRICATED SHOPE		
	ALUMINIUM = 20% /ALUMINA & SILICA=50%		
	BINDERS = 5% / FIBRES= 25% / ASBESTOS= 0%		
	PACKING WOODEN CRATE		
12-04-00266	SELF HEATING INSULATING RISER SLEEVES	5000 Pc	
	KALMINEX X5		
	SELF-HEATING INSULATING RISER SLEEVES		

Code No.	Description	Qty.	Unit
	ASBESTOS FREE PREFABRICATED SHOPE		
	ALUMINIUM = 20% /ALUMINA & SILICA=50%		
	BINDERS = 5% / FIBRES= 25% / ASBESTOS= 0%		
	PACKING WOODEN CRATE		
	SELF HEATING INSULATING RISER SLEEVES		
	KALMINEX X6		
12-04-00267	SELF-HEATING INSULATING RISER SLEEVS	3000 Pc	
	ASBESTOS FREE PREFABRICATED SHOPE		
	ALUMINIUM = 20% /ALUMINA & SILICA=50%		
	BINDERS = 5% / FIBRES= 25% / ASBESTOS= 0%		
	PACKING WOODEN CRATE		
	SELF HEATING INSULATING RISER SLEEVES		
	KALMINEX X7		
12-04-00268	SELF-HEATING INSULATING RISER SLEEVS	3000 Pc	
	ASBESTOS FREE PREFABRICATED SHOPE		
	ALUMINIUM = 20% /ALUMINA & SILICA=50%		
	PACKING WOODEN CRATE		
	SELF HEATING INSULATING RISER SLEEVES		
	KALMINEX X8		
12-04-00269	SELF-HEATING INSULATING RISER SLEEVS	2000 Pc	
	ASBESTOS FREE PREFABRICATED SHOPE		
	ALUMINIUM = 20% /ALUMINA & SILICA=50%		
	BINDERS = 5% / FIBRES= 25% / ASBESTOS= 0%		
	PACKING WOODEN CRATE		
	SELF HEATING INSULATING RISER SLEEVES		
	KALMINEX X9		
12-04-00270	SELF-HEATING INSULATING RISER SLEEVS	1000 Pc	
	ASBESTOS FREE PREFABRICATED SHOPE		
	ALUMINIUM = 20% /ALUMINA & SILICA=50%		
	BINDERS = 5% / FIBRES= 25% / ASBESTOS= 0%		
	PACKING WOODEN CRATE		
	SELF HEATING INSULATING RISER SLEEVES		
	KALMINEX X10		

Code No.	Description	Qty.	Unit
12-04-00271	CHROMITE BREAKER CORE FOR KALMINEX SELF -	1000 Pc	
	HEATING INSULTING RISER SLEEVES		
	CHROMITE SAND = ABOUT 96 % / BANDER =4%		
	BACKING : WOODEN CRATE		
	BK 5/1 Cr		
12-04-00272	CHROMITE BREAKER CORE FOR KALMINEX SELF -	1000 Pc	
	HEATING INSULTING RISER SLEEVES		
	CHROMITE SAND = ABOUT 96 % / BANDER =4%		
	BACKING : WOODEN CRATE		
	BK 6/1 Cr		
12-04-00273	CHROMITE BREAKER CORE FOR KALMINEX SELF -	750 Pc	
	HEATING INSULTING RISER SLEEVES		
	CHROMITE SAND = ABOUT 96 % / BANDER =4%		
	BACKING : WOODEN CRATE		
	BK 7/1 Cr		
12-04-00274	CHROMITE BREAKER CORE FOR KALMINEX SELF -	500 Pc	
	HEATING INSULTING RISER SLEEVES		
	CHROMITE SAND = ABOUT 96 % / BANDER =4%		
	BACKING : WOODEN CRATE		
	BK 8/1 Cr		
12-04-00275	CHROMITE BREAKER CORE FOR KALMINEX SELF -	500 Pc	
	HEATING INSULTING RISER SLEEVES		
	CHROMITE SAND = ABOUT 96 % / BANDER =4%		
	BACKING : WOODEN CRATE		
	BK 9/1 Cr		
12-04-00276	CHROMITE BREAKER CORE FOR KALMINEX SELF -	500 Pc	
	CHROMITE SAND = ABOUT 96 % / BANDER =4%		
	BACKING : WOODEN CRATE		
	BK 10/1 Cr		
12-04-00277	HIGHLY EXOTHERMIC INSULATING RISER SLEEVES	3000 Pc	
	WITHOUT BREAKER CORE		
	ALUMINIUM = 25% /ALUMINA & SILICA=45%		
	BINDERS = 5% / FIBRES= 25% / ASBESTOS= 0%		
	KALMINEX S / SEP 7/10 K		
	PACKING :WOODEN CRATE		

Code No.	Description	Qty.	Unit
12-04-00278	HIGHLY EXOTHERMIC INSULATING RISER SLEEVES	3000 Pc	
	WITHOUT BREAKER CORE		
	ALUMINIUM = 25% /ALUMINA & SILICA=45%		
	BINDERS = 5% / FIBRES= 25% / ASBESTOS= 0%		
	KALMINEX S / SEP 8/11 K		
	PACKING :WOODEN CRATE		
12-04-00279	HIGHLY EXOTHERMIC INSULATING RISER SLEEVES	5000 Pc	
	WITHOUT BREAKER CORE		
	ALUMINIUM = 25% /ALUMINA & SILICA=45%		
	BINDERS = 5% / FIBRES= 25% / ASBESTOS= 0%		
	KALMINEX S / SEP 10/13 K		
	PACKING :WOODEN CRATE		
12-04-00280	HIGHLY EXOTHERMIC INSULATING RISER SLEEVES	5000 Pc	
	WITHOUT BREAKER CORE		
	ALUMINIUM = 25% /ALUMINA & SILICA=45%		
	BINDERS = 5% / FIBRES= 25% / ASBESTOS= 0%		
	KALMINEX S / SEP 12/15 K		
	PACKING :WOODEN CRATE		
12-04-00281	VERNIER WITH SHRINKAGE (1% , 1.5% ,2%)	5 Pc	
	RANGE 0-300 mm		
12-04-00282	VERNIER WITH SHRINKAGE (1% , 1.5% ,2%)	5 Pc	
	RANGE 0-500 mm		
12-04-00283	DIGITAL VERNIER RANGE 0-200	5 Pc	
12-04-00284	DIGITAL VERNIER RANGE 0-300	5 Pc	
12-04-00285	DIGITAL VERNIER RANGE 0-500	5 Pc	
12-04-00286	DIGITAL VERNIER RANGE 0-1000	5 Pc	

Code No.	Description	Qty.	Unit
12-04-00287	CUTTER 90 (DEGREE)	3 Pc	
	POSITIVE TYPE FACE MILLING WITH RHOMBUS		
	CARBIDE D1 100 mm H 50 mm D3 32 mm		
12-04-00288	RHOMBUS CARBIDE	100 Pc	
12-04-00289	CUTTERS 89 (DEGREE)	3 Pc	
	POSITIVE TYPE FACE MILLING WITH SQUARE		
	CARBIDE D1 63 mm H 40 mm D3 22 mm		
12-04-00290	SQUARE CARBIDE	200 Pc	
	POSITIVE TYPE FACE MILLING WITH SQUARE		
	CARBIDE D1 100 mm H 45 mm D3 32 mm		
12-04-00291	SQUARE CARBIDE	200 Pc	
12-04-00292	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 16mm L 75 mm		
12-04-00293	FLUTE LENGTH 25	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 20mm L 100 mm		
	FLUTE LENGTH 35		
12-04-00294	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 20mm L 120 mm		
	FLUTE LENGTH 45		
12-04-00295	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 25mm L 120 mm		
	FLUTE LENGTH 50		
12-04-00296	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 32mm L 140 mm		
	FLUTE LENGTH 68		
12-04-00297	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 16mm L 75 mm		
	FLUTE LENGTH 25 NUMBER OF FLUTE 4 (CUTTER R)		

Code No.	Description	Qty.	Unit
12-04-00298	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 20mm L 100 mm		
	FLUTE LENGTH 35 NUMBER OF FLUTE 4 (CUTTER R)		
12-04-00299	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 10mm L 70 mm		
	FLUTE LENGTH 22 NUMBER OF FLUTE 2		
12-04-00300	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 12mm L 70 mm		
	FLUTE LENGTH 22 NUMBER OF FLUTE 2		
12-04-00301	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 16mm L 75 mm		
	FLUTE LENGTH 25 NUMBER OF FLUTE 2		
12-04-00302	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 20mm L 100 mm		
12-04-00303	CUTTER FOR MILLING STEEL & CAST STEEL OVER	5 Pc	
	900 N / mm2 TENSILE STRENGTH D1 40mm L 200 mm		
	FLUTE LENGTH 63 NO. OF FLUTE 6		
	FLUTE LENGTH 35 NUMBER OF FLUTE 2		
12-04-00304	CUTTER TIN SINGLE- END END MILLS LONG WITH	5 Pc	
	7/24 TAPER AND DRAW BAR THREAD TO DIN 2080		
	APPROX. 30RH SPIRAL D1 50 mm L1 258 mm L2 150mm		
12-04-00305	CUTTER TIN SINGLE- END END MILLS LONG WITH	5 Pc	
	7/24 TAPER AND DRAW BAR THREAD TO DIN 2080		
12-04-00306	DRILL CHUCKS	5 Pc	
	PRECISION THREE-JAW DRILL CHUCKS		
	POINTED FORM (1-13) mm D1 51mm		
12-04-00307	GEAR CHAMFERING CUTTERS FOR ROUNDING- OFF	10 Pc	
	TOOTH EDGES DIM. SHAFT 13mm L 80mm MODUL 1		

Code No.	Description	Qty.	Unit
12-04-00308	GEAR CHAMFERING CUTTERS FOR ROUNDING- OFF	10 Pc	
	TOOTH EDGES DIM. SHAFT 13mm L 80mm MODUL 1.5		
12-04-00309	GEAR CHAMFERING CUTTERS FOR ROUNDING- OFF	10 Pc	
	TOOTH EDGES DIM. SHAFT 13mm L 80mm MODUL2		
12-04-00310	DIES ROUND CHAMFERED AND GROOVE FOR SPLITTING	10 Pc	
	ISO THREAD TO DIN 13 WIDTH 20mm HOLE H1 7mm		
	INNER DIAM. M6		
12-04-00311	DIES ROUND CHAMFERED AND GROOVE FOR SPLITTING	10 Pc	
	ISO THREAD TO DIN 13 WIDTH 25mm HOLE H1 9mm		
	INNER DIAM. M8		
12-04-00312	DIES ROUND CHAMFERED AND GROOVE FOR SPLITTING	10 Pc	
	ISO THREAD TO DIN 13 WIDTH 30mm HOLE H1 11mm		
	INNER DIAM. M10		
12-04-00313	DIES ROUND CHAMFERED AND GROOVE FOR SPLITTING	10 Pc	
	ISO THREAD TO DIN 13 WIDTH 38mm HOLE H1 14mm		
	INNER DIAM. M12		
12-04-00314	DIES ROUND CHAMFERED AND GROOVE FOR SPLITTING	10 Pc	
	ISO THREAD TO DIN 13 WIDTH 38mm HOLE H1 14mm		
	INNER DIAM. M14		
12-04-00315	DIES ROUND CHAMFERED AND GROOVE FOR SPLITTING	10 Pc	
	ISO THREAD TO DIN 13 WIDTH 45mm HOLE H1 18mm		
	INNER DIAM. M16		
12-04-00316	DIES ROUND CHAMFERED AND GROOVE FOR SPLITTING	10 Pc	
	ISO THREAD TO DIN 13 WIDTH 45mm HOLE H1 18mm		
	INNER DIAM. M20		
12-04-00317	PRECISION DIVIDERS WITH SETTING WING	10 Pc	
	LENGTH 150 mm		
12-04-00318	PRECISION DIVIDERS WITH SETTING WING	10 Pc	
	LENGTH 300 mm		
12-04-00319	PRECISION DIVIDERS WITH SETTING WING	10 Pc	
	WITH RIVET JOINT LENGTH 150 mm		
12-04-00320	PRECISION DIVIDERS WITH SETTING WING	10 Pc	
	WITH RIVET JOINT LENGTH 300 mm		
12-04-00321	ADJUSTABLE ANGLE PLATE (FROM 50-90 DEGREE)	5 Pc	
	WITH SCALE BASE LENGTH 200 WID.200 H 150		
12-04-00322	ADJUSTABLE ANGLE PLATE (FROM 50-90 DEGREE)	5 Pc	
	WITH SCALE BASE LENGTH 300 WID.300 H 250		
12-04-00323	UNIVERSAL BEVEL PROTACTORS	5 Pc	
	LENGTH OF BLADE 200 mm		
12-04-00324	UNIVERSAL BEVEL PROTACTORS	5 Pc	

Code No.	Description	Qty.	Unit
	PARALLAX- FREE READING REFLECTION FREE		
	LENGTH OF BLADE 500 mm		
12-04-00325	ENGINEERS COMBINATION SETS WITH PROTRACTOR	3 Pc	
	THIS SQUARE MAY BE USED AS RULER , EDGE,DEPTH		
	GAUGE , CENTERING BACK AND PROTRACTOR AND		
	SPIRIT LEVEL WITH TWO GRADUATIONS , 300 mm		
12-04-00326	ENGINEERS COMBINATION SETS WITH PROTRACTOR	3 Pc	
	THIS SQUARE MAY BE USED AS RULER , EDGE,DEPTH		
	GAUGE , CENTERING BACK AND PROTRACTOR AND		
	SPIRIT LEVEL WITH TWO GRADUATIONS , 600 mm		
12-04-00327	ANGLE 40*4*9000 DIN 17100 ST44-2	75	
12-04-00328	ANGLE 50*5*9000 DIN 17100 ST44-2	100	
12-04-00329	ANGLE 60*6*12000 DIN 17100 ST44-2	150	
12-04-00330	ANGLE 70*7*12000 DIN 17100 ST44-2	150	
12-04-00331	ANGLE 80*8*12000 DIN 17100 ST44-2	150	
12-04-00332	ANGLE 90*8*12000 DIN 17100 ST44-2	100	
12-04-00333	ANGLE 90*10*12000 DIN 17100 ST44-2	100	
12-04-00334	ANGLE 100*10*12000 DIN 17100 ST44-2	50	
12-04-00335	ANGLE 110*10*12000 DIN 17100 ST44-2	50	
12-04-00336	ANGLE 120*10*12000 DIN 17100 ST44-2	150	
12-04-00337	ANGLE 150*12*12000 DIN 17100 ST44-2	100	
12-04-00338	ANGLE 200*20*12000 DIN 17100 ST44-2	50	
12-04-00339	ANGLE 60*40*7*12000 DIN 17100 ST44-2	50	
12-04-00340	ANGLE 75*50*5*12000 DIN 17100 ST44-2	50	
12-04-00341	ANGLE 120*80*8*12000 DIN 17100 ST44-2	50	
12-04-00342	ANGLE 150*100*10*12000 DIN 17100 ST44-2	25	
12-04-00343	ANGLE 200*100*10*12000 DIN 17100 ST44-2	25	
12-04-00344	PLATE 6*2500*6000 DIN17100 ST44-2	50	
12-04-00345	PLATE 8*2500*6000 DIN17100 ST44-2	100	
12-04-00346	PLATE 10*2500*6000 DIN17100 ST44-2	150	
12-04-00347	PLATE 12*2500*6000 DIN17100 ST44-2	100	
12-04-00348	PLATE 14*2500*6000 DIN17100 ST44-2	100	
12-04-00349	PLATE 16*2500*6000 DIN17100 ST44-2	100	
12-04-00350	PLATE20*2500*6000 DIN17100 ST44-2	50	
12-04-00351	PLATE 22*2500*6000 DIN17100 ST44-2	50	
12-04-00352	PLATE 25*2500*6000 DIN17100 ST44-2	50	
12-04-00353	PLATE 30*2500*6000 DIN17100 ST44-2	50	
12-04-00354	PLATE 35*2500*6000 DIN17100 ST44-2	50	
12-04-00355	PLATE 40*2500*6000 DIN17100 ST44-2	50	
12-04-00356	IPE 140*12000 DIN17100 ST44-2	300	
12-04-00357	IPE 160*12000 DIN17100 ST44-2	200	
12-04-00358	IPE 180*12000 DIN17100 ST44-2	150	
12-04-00359	IPE 200*12000 DIN17100 ST44-2	100	
12-04-00360	IPE 220*12000 DIN17100 ST44-2	150	
12-04-00361	IPE 240*12000DIN17100 ST44-2	350	
12-04-00362	IPE 270*12000 DIN17100 ST44-2	300	
12-04-00363	IPE 300*12000 DIN17100 ST44-2	350	
12-04-00364	IPE 330*12000 DIN17100 ST44-2	200	
12-04-00365	IPE 360*12000 DIN17100 ST44-2	250	
12-04-00366	IPE 400*12000 DIN17100 ST44-2	125	
12-04-00367	IPE 450*12000 DIN17100 ST44-2	100	

Code No.	Description	Qty.	Unit
12-04-00368	IPE 500*12000 DIN17100 ST44-2	100	
12-04-00369	IPE 550*12000 DIN17100 ST44-2	100	
12-04-00370	IPE 600*12000 DIN17100 ST44-2	100	
12-04-00371	HEA 160*12000 DIN17100 ST44-2	50	
12-04-00372	HEA 200*12000 DIN17100 ST44-2	50	
12-04-00373	HEA 240*12000 DIN17100 ST44-2	100	
12-04-00374	HEA 320*12000 DIN17100 ST44-2	100	
12-04-00375	HEA 360*12000 DIN17100 ST44-2	100	
12-04-00376	UPN 140*12000 DIN 17100 ST44-2	50	
12-04-00377	UPN 160*12000 DIN 17100 ST44-2	100	
12-04-00378	UPN 240*12000 DIN 17100 ST44-2	50	
12-04-00379	UPN 300 DIN 17100 ST44-2	50	
12-04-00380	ROUND BAR 12*6000	100	
12-04-00381	ROUND BAR 16*6000	50	
12-04-00382	GALVANIZED STEEL COILS1250*0.6	750	
12-04-00383	GALVANIZED STEEL COILS1250*0.8	750	
12-04-00384	PREPAINTED GALVANIZED STEEL COIL1250*0.6	200	
12-04-00385	PREPAINTED GALVANIZED STEEL COIL1250*0.8	200	
12-04-00386	BOLT M20*60 CLASS 10.9	7,000	
12-04-00387	BOLT M20*70 CLASS 10.9	10,000	
12-04-00388	BOLT M20*90 CLASS 10.9	6,000	
12-04-00389	BOLT M20*100 CLASS 10.9	5,000	
12-04-00390	BOLT M24*60 CLASS 10.9	2,500	
12-04-00391	BOLT M24*70 CLASS 10.9	7,500	
12-04-00392	BOLT M24*80 CLASS 10.9	9,000	
12-04-00393	BOLT M24*90 CLASS 10.9	7,000	
12-04-00394	BOLT M24*110 CLASS 10.9	2,000	
12-04-00395	BOLT M24*100 CLASS 10.9	2,000	
12-04-00396	BOLT M12*40 CLASS 8.8	10,000	
12-04-00397	BOLT M12*50 CLASS 8.8	10,000	
12-04-00398	BOLT M16*50 CLASS 8.8	10,000	
12-04-00399	BOLT M16*60 CLASS 8.8	28,000	
12-04-00400	BOLT M16*70 CLASS 8.8	22,000	
12-04-00401	BOLT M20*60 CLASS 8.8	7,000	
12-04-00402	BOLT M20*80 CLASS 8.8	5,000	
12-04-00403	SELF THEARDING SCROW 6.3*70	400,000	
12-04-00404	PLASTIC WASHER	400,000	
12-04-00405	SADDLE STEEL WASHER	400,000	
12-04-00406	BITUMEN WASHER	400,000	
12-04-00407	WASHER 37 C50	45,000	
12-04-00408	WASHER 31 C50	45,000	
12-04-00409	WASHER 25 C50	29,000	
12-04-00410	WASHER 21 C50	28,000	
12-04-00411	WASHER 17 C50	60,000	
12-04-00412	WASHER 13 C50	20,000	
12-04-00413	NUT M30 C8.8	45,000	
12-04-00414	NUT M24 C10.9	29,000	
12-04-00415	NUT M20 C10.9	28,000	
12-04-00416	NUT M20 C 8.8	12,000	
12-04-00417	NUT M16 C 8.8	60,000	
12-04-00418	NUT M12 C 8.8	20,000	
12-04-00419	DRILL HAMER(HELTY) T72	2	
12-04-00420	DRILL HAMER(HELTY) T52	2	
12-04-00421	DRILL HAMER(HELTY) T72	2	
12-04-00422	HAND DRILL (YOKAHOMA)	20	
12-04-00423	FLYING GRAI.MICH. SIZE 180MM(HITASHI)	10	
12-04-00424	FLYING GRAI.MICH. SIZE 230MM(HITASHI)	10	
12-04-00425	WILDING ELECTROD SIZE 3.25 MM (OK46)	5 TON	
12-04-00426	WILDING ELECTROD SIZE 4 MM (OK46)	25 TON	
12-04-00427	WILDING ELECTRODSIZE 5 MM (OK46)	15 TON	

Code No.	Description	Qty.	Unit
12-04-00428	MACH.WILDING (ESAB) 600A	30PC	
12-04-00429	ISOSYANATE	15 TON	
12-04-00430	POLYPOL	15 TON	
12-04-00431	FREON (11)	6 TON	
12-04-00432	MIETHLINE CLORIDE	1 TON	
12-04-00433	D.O.P.	1 TON	
12-04-00434	Copper rod dia. 8 mm	750 MT	
12-04-00435	Copper rod dia. 10 mm	120 MT	
12-04-00436	Aluminium Rod dia. 9.5 mm	750 MT	
12-04-00437	Sawn timber for wooden drums	2000 M3	
12-04-00438	FORKLIFT CAPACITY 10 TONS	4	
12-04-00439	FORKLIFT CAPACITY 5 TONS	14	
12-04-00440	Fork lift capacity 3 tons	10	
12-04-00451	Ferro manganese high carbon	500 ton	
	Mn = 75 %		
12-04-00452	Ferro silicon 75	250 ton	
	Si = 75 %		
12-04-00453	Silicon manganese	500 ton	
	Mn = 65 % , C = 1.5 %		
12-04-00454	Graphite powder	400 ton	
	C : (98 - 99.9) %		
12-04-00455	Graphite electrode with nipple	1000 ton	
	Dia 20" , length (72"- 84")		
	Type UHP		
	Special bearing		
12-04-00456	a- Bearing No. 509059 FAG	56 PCs	
12-04-00457	b- Bearing NO. 508368 FAG	112 PCs	
12-04-00458	c- Bearing NO. 508726 FAG	120 PCs	
12-04-00459	d- Bearing NO. 538854 FAG	15 PCs	
12-04-00460	A- Rolls for Meduim structural Bar Mill	142 PCS	
	Material : Heat treated alloy casting steel		
	and cast iron spheroidal graphite		
12-04-00461	B-Rolls for wire rodand Bar Mill	230 PCS	
	Material : Heat treated alloy casting steel		
	Hot rolled coil acc. to API spcefication		
	Dimension :		
12-04-00462	800×7.14 mm Grade X42	2000 ton	
12-04-00463	1200×7.92 mm Grade X52	2000 ton	
12-04-00464	1600×9.50 mm Grade X60	3000 ton	
12-04-00465	1800×10.31 mm Grade X60	3000 ton	
12-04-00466	Weld flux type L 761	80 ton	

Code No.	Description	Qty.	Unit
12-04-00467	Weld wire	100 ton	
	coppers coated welding wire for submerged		
	arc welding processes comply with AWS (EL12)		
	Magnesite chrom bricks for E.A.F wall lining		
12-04-00468	(Open part) 30/0	225 ton	
12-04-00469	30/40	189 ton	
	Magnesite chrom bricks for E.A.F wall lining		
12-04-00470	(between hot spots) 35/0	174 ton	
12-04-00471	35/40	174 ton	
12-04-00472	V2L - 100	16.5 ton	
	Magnesite chrom bricks for E.A.F wall lining		
12-04-00473	(hot spots) 35/0	112.5 ton	
12-04-00474	35/40	112.5 ton	
12-04-00475	Magnesite bricks for E.A.F Slag zone 40/0	225 ton	
12-04-00476	40/40	352.5 ton	

Code No.	Description	Qty.	Unit
12-04-00477	V3L - 100	13.5 ton	
12-04-00478	Magnesite bricks for E.A.F hearth lining 40/0	105 ton	
12-04-00479	40/40	157.5 ton	
12-04-00480	3 - 76	120 ton	
12-04-00481	Magnesite powder for E.A.F for lining	37.525 ton	
12-04-00482	Magnesite powder for E.A.F (spout ramming)	300 ton	
12-04-00483	Magnesite for E.A.F (hearth ramming)	645 ton	
12-04-00484	Magnesite powder for E.A.F (repair the wall)	750 ton	
12-04-00485	Magnesite powder for E.A.F (repair the heath)	525 ton	
12-04-00486	Magnesite powder for E.A.F (spout repair)	120 ton	
12-04-00487	Ramming mix for E.A.F roof	105 ton	
12-04-00488	High alumina bricks for wear layer for ladle walles 4P12	730.5 ton	
12-04-00489	4P22	255 ton	
12-04-00490	3P10	304 ton	
12-04-00491	3P20	112.5 ton	
12-04-00492	High alumina bricks for wear layer for ladle bottom B2	255 ton	
12-04-00493	Weel block for laddle nozzle L7017	150 ton	
12-04-00494	Seating block for porous plug L3865	22.5 ton	
12-04-00495	Bottom sliding plates Dai (35 mm)	18 ton	
12-04-00496	(40 mm)	9 ton	
12-04-00497	Ladle nozzle Dai (35 mm)	9 ton	
12-04-00498	Morter for sliding gate	7.5 ton	
12-04-00499	Tundish nozzel Dai (13.5 mm) ,	10.5 ton	
12-04-00500	(15 mm)	6 ton	
12-04-00501	Refractory castable high alumina (Al2O3 = 77 %)	330 ton	
12-04-00502	Rrfractory concrete high alumina castable (Al2O3 = 90 %)	120 ton	
12-04-00503	Chrom sand	75 ton	

Code No.	Description	Qty.	Unit
12-04-00504	Mastic for nozzles and porous plug	9 ton	
12-04-00505	Fire mortor for ladle wear layer (Al2O3=80 %)	225 ton	
12-04-00506	High alumina bricks for ring electrod and hdes R73	612 ton	
12-04-00507	KR73	280.5 ton	
12-04-00508	D5N	36 ton	
12-04-00509	D6NS	48 ton	
	Chrom magnsite bricks for fume collection holeand		
12-04-00510	addition hole D5N	12 ton	
12-04-00511	D6NS	36 ton	
12-04-00512	2HL50	15 ton	
12-04-00513	Fire bricks for in salation layer for ladle (2 - 30)	37.5 ton	
12-04-00514	Bottom bricks for tundsh (P7)	37.5 ton	
12-04-00515	Porous plug for argon blowing	10.5 ton	
12-04-00516	Alumina bricks for tundsh wall (1-32)	43.5 ton	
12-04-00517	Alumina bricks for tundsh wall (1-76)	75 ton	
12-04-00518	Bottom bricks for tundsh (BA21/750)	40.5 ton	
12-04-00519	Compleat pumps with A .C. motor	3PCS	
	Capacity: 2000 m3/h		
	Head : 100 m		
	Flued : row water		
	Sold part : 0.2%		
	Casing material GG25		
	Equipment for scrap processing		
12-04-00520	a) Scrap shear	3 PCS	
12-04-00521	b) Hydraulic scrap balling press	3 PCS	
12-04-00522	c) Cranes for scrapp yard	4 PCS	
12-04-00523	insulation ,Polyster film 0.19X1000XROLL,0.19X27,0.19X49		
12-04-00524	Trivoltherm class f,White fiber,Nomex 0.13x50xroll		
12-04-00525	Laminated plastic terminal board 2.4x114x1050	229000 m	
12-04-00526	Steel sheet 2.5x670x1420 ,Round steel dia. 8.3x6m	70 ton	
12-04-00527	Capacitor 5mf	500000 pcs	
12-04-00528	Fasteners for fittings and for air condition [contact,bushes,		

Code No.	Description	Qty.	Unit
12-04-00529	socket sleeve,]	3700000 pcs	
12-04-00530	Compressers[15HP,10HP,7.5HP,5HP,30HP,2.6HP [2TON]]per air cond.	11510 pcs	
12-04-00531	Motors fan[0.4kw,0.25kw,5.5kw,3.7kw,2.2kw,1.5kw,0.55k w]	1300 pcs	
12-04-00532	Galv.steel[0.6-3.2mmx1219x2440mm]per air conditions	168 ton	
12-04-00533	Carbon steel [0.6-6mmx1219x2440mm] per air conditions	80 ton	
12-04-00534	Steel plate [10-100mmx1500-2000x3000mm]	236 ton	
12-04-00535	Machines for tools [Grinding,milling,digital CNC,sinking,		
12-04-00536	And digital centerless machines and wire cut m/c	-	
12-04-00537	Dies per cutting,casting and plastic moulding	-	
12-04-00538	Spare parts for lath machines,winding,wire cutting and		
12-04-00539	sparke er. And welding machines	-	
12-04-00540	Low carbon steel 0.65x1000xroll	1000 ton	
12-04-00541	Electrical st. 0.5x1000xroll	2000 ton	
12-04-00542	Precoated steel 0.5x1000xroll	2000 ton	
12-04-00543	Lead Glass for Gl's and for fluorescent	250 ton	
12-04-00544	Bulb ED60	10000000 pcs	
12-04-00545	Aluminium caps for Gl's	10000000 pcs	
12-04-00546	Bulb tube fluorescent	1000000 pcs	
12-04-00547	Fluorescent line production	-	
12-04-00548	Mercurry and sodium high pressure production line	-	
12-04-00549	electrical st.0.5x39mmxroll per luminuir ballast	1000 ton	
12-04-00550	electrical parts for pakage air conditions	510 set	
12-04-00551	CKD parts per air conditions without compressors	11000 sets	
12-04-00552	PROJECT FOR LOW TENSION ELECTRICAL BOARD	1 UNIT	

Code No.	Description	Qty.	Unit
12-04-00553	WOOD	10000 M3	
12-04-00554	PASSENGER LEFT	5	
12-04-00555	CARGO LEFT	1	
12-04-00556	TELEPHONE EXCHANS SYSTEM FOR BUILDING	1	
12-04-00557	Oil burner complete for rotary kiln.	4	pcs
12-04-00558	spare parts for glass manufactruing machines	1	lot
12-04-00559	Glass container annealing machine	2	unit
12-04-00560	Glass container inspection machine	2	unit
12-04-00561	Glass container packing machine	3	unit