

Annex (2)
Phase X
(Electricity Sector)

04 - 0000A - REQUIREMENT LIST OF POWER STATIONS AND NETWORK

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SECTION –A- 01- AL - MUSSAIB POWER STATION

CODE	ITEM	QYT
04-01-00001	TURBINE SYSTEM EQUIPMENT AND SPARES	10000 PCS+ 5000 SETS
04-01-00002	BOILER TUBES & ACCESSORIES	100000 PCS
04-01-00003	BOILER AUXILIARY SYSTEM AND SPARES	2000 TUBES+ 2000 SETS
04-01-00004	PACKING , SEALING RING OF DIFFERENT SIZES	6500 KG. + 10 000 SHEETS
04-01-00005	AIR HEATERS WITH SPARES	4 SETS + SETS
04-01-00006	CONDENSER TUBES WITH ACCESSORIES	50000 PCS.+1000 SETS
04-01-00007	PUMPS , COMPRESSORS AND ROTARY MACHINES & SPARES	1000 NOS + 500 SET.
04-01-00008	SWITCH YARD EQUIPMENT AND ACCESSARIES & SPARES	12000 NOS+ 600 SET.
04-01-00009	POWER TRANSFORMERS WITH SPARES	2 UNITS + 1000 SETS
04-01-00010	VALVES OF VARIOUS SIZES AND SPARES	10000 NOS. + 5000 SET
04-01-00011	CHEMICALS FOR WATER TREATMENTS	1000 TONS
04-01-00012	WATER TREATMENT EQUIPMENT AND SPARES	2000 PCS+5000 SET.
04-01-00013	CORTEN STEEL	500 TONS
04-01-00014	CONTROL , MEASURMENT AND PROTECTION SYSTEMS &SPARES.	5000 PCS+1000 SET.
04-01-00015	DC POWER SUPPLY EQUIPMENT & SPARES	220 UNITS+5000 NOS + 1000 SETS
04-01-00016	GENERATOR , SYSTEM EQUIPMENT & SPARES	250 SETS +2000 NOS
04-01-00017	REHABILITATION AND ENGINEERING SERVICES	4 UNITS
04-01-00018	ELECTRODES OF DIFFERENT SIZES	50 TON
04-01-00019	TURBINE OIL	1000 TONS +100 000 LITER
04-01-00020	SPARE PARTS OF AL-MUSSAIB TURBINES (ROTOR – BLADES DIAPHRAM ,ELECTRONIC COMPONTS ...ETC.)	175 SET
04-01-00021	GAS TURBINES WITH ACCESSARIES	4 UNTS
04-01-00022	FIRE FIGHTING EQUIPMENT WITH SPARES	200 UNITS +1000 PCS + 500 SETS
04-01-00023	TEST EQUIPMENT OF DIFFERENT TYPES AND SPARES	50 UNITS + 100 PCS +1000 SETS
04-01-00024	AIR COOLED CHILLER WITH ACCESSORIES	100 UNITS + 1000 PCS. + 500 SETS
04-01-00025	COMBINED CYCLE UNITS (2X125) MW	2 UNITS
04-01-00026	POWER CABLES OF DIFFERENT SIZES	50 KM
04-01-00027	POWER STATION EXTENTION (2X350) MW	2 UNITS
04-01-00028	SUPPLING BLADES AND SUPERVISION	10 SET .

SECTION –A- 02 - DAURA POWER STATION

CODE	ITEM	QTY
04-01-00029	TURBINE SYSTEM EQUIPMENT AND SPARES	10000 PCS + 1000 SET.
04-01-00030	BOILER TUBES WITH ACCESSORIES	50000 TUBES.+ 1000 SETS
04-01-00031	BOILER AUXILIARY SYSTEM WITH SPARES	1000 SET + 2000 PCS.
04-01-00032	PACKING , SEALING RING OF DIFFERENT SIZES	5500 KG + 10 000 SHEETS
04-01-00033	AIR HEATERS WITH SPARES	4 SETS + 1000 SETS
04-01-00034	CONDENSER TUBES WITH ACCESSORIES	250000 TUBES + 1000 SETS .
04-01-00035	PUMPS , COMPRESSORS , ROTARY MACHINES AND SPARES	2000 NOS + 10000 SET.
04-01-00036	SWITCH YARD EQUIPMENT AND ACCESSORIES	10000 SET + 5000 NOS
04-01-00037	POWER TRANSFORMERS WITH SPARES	2 UNITS + 1000 SETS
04-01-00038	VALVES OF DIFFERENT TYPES WITH ACCESSORIES	15000 NOS. + 4000 SETS
04-01-00039	CHEMICALS FOR WATER TREATMENT	5000 TONS
04-01-00040	WATER TREATMENT EQUIPMENT WITH AUXILIARIES	5000 PCS. + 2000 SET
04-01-00041	CORTEN STEEL	100 TONS
04-01-00042	CONTROL , MEASURMENT AND PROTECTION SYSTEMS WITH SPARES	10000 PCS + 1000 SET.
04-01-00043	DC POWER SUPPLY EQUIPMENT WITH ACCESSORIES	7500 UNITS+1000 NOS
04-01-00044	GENERATOR , SYSTEM EQUIPMENT AND SPARES	5000 SETS + 1000 NOS
04-01-00045	REHABILITATION AND ENGINEERING SERVICES ACCORDING TO ATTACHED LISTS	4 UNITS
04-01-00046	ELECTRODES OF DIFFERENT SIZES TURBINE OIL	250 TON 1000 TONS+ 100 000 LITTER
04-01-00047	FIRE FIGHTING EQUIPMENT WITH SPARES	200 UNITS +1000 PCS + 500 SETS
04-01-00048	TEST EQUIPMENT OF DIFFERENT TYPES	100 UNITS + 500 PCS
04-01-00049	AIR COOLED CHILLER WITH ACCESSORIES	100 UNITS + 1000 PCS. + 500 SETS
04-01-00050	GAS TURBINE WITH ACCESSORIES	2 UNITS
04-01-00051	POWER CABLES OF DIFFERENT SIZES	50 KM

SECTION -A- 03 - BAGHDAD SOUTH POWER STATION

CODE	ITEM	QTY
04-01-00052	TURBINE SYSTEM EQUIPMENT WITH AUXILIARIES	12000 PCS + 5000 SET.
04-01-00053	BOILER TUBES WITH ACCESSORIES	60000TUBES +1000 SETS
04-01-00054	BOILER AUXILIARY SYSTEM WITH ACCESSORIES	10000 PCS.+ 500 SET
04-01-00055	PACKING OF DIFFERENT SIZES	5000 TUBES +1000 SETS+10000 SHEETS
04-01-00056	AIR HEATERS	6 SETS
04-01-00057	CONDENSER TUBES WITH ACCESSORIES	50000 PCS.
04-01-00058	PUMPS , COMPRESSORS AND ROTARY MACHINES WITH SPARES	2000 NOS + 5000 SET.
04-01-00059	SWITCH YARD EQUIPMENT AND ACCESSARIES	200 SET + 100 NOS
04-01-00060	POWER TRANSFORMERS WITH SPARES	2 UNITS + 1000 SETS
04-01-00061	VALVES OF DIFFERENT TYPES WITH ACCESSORIES	10000 NOS.+ 1000 SET
04-01-00062	CHEMICALS FOR WATER TREATMENT	750 TONS
04-01-00063	WATER TREATMENT EQUIPMENT AND SPARES	20000 PCS + 1000 SET.
04-01-00064	CORTEN STEEL	100 TONS
04-01-00065	CONTROL , MEASURMENT AND PROTECTION SYSTEMS WITH SPARES	50000 PCS. + 2000 SET
04-01-00066	DC POWER SUPPLY EQUIPMENT WITH ACCESSORIES	7500 UNITS+100 PCS
04-01-00067	GENERATOR , SYSTEM EQUIPMENT WITH ACCESSORIES	2000 SETS + 10000 PCS.
04-01-00068	REHABILITATION AND ENGINEERING SERVICES ACCORDING TO ATTACHED LISTS	6 UNITS
04-01-00069	TURBINE OIL	1000 TONS+ 100 000 LITTER
04-01-00070	ELECTRODES OF DIFFERENT SIZES	250 TON
04-01-00071	GAS TURBINE WITH ACCESSARIES	3 UNITS
04-01-00072	FIRE FIGHTING EQUIPMENT WITH SPARES	200 UNITS +1000 PCS + 500 SETS
04-01-00073	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 1000 PCS
04-01-00074	AIR COOLED CHILLER WITH ACCESSORIES	100 UNITS + 1000 PCS. + 500 SETS
04-01-00075	GAS TURBINE UNITS WITH ACCESSORIES FRAME6 (2X40)MW	2 UNITS
04-01-00076	POWER CABLES OF DIFFERENT SIZES	50 KM
04-01-00077	FIBER GLASS FOR FURNANCE FRAME	1000 TON
04-01-00078	VARNISH	10 TON
04-01-00079	FIBER GLASS	50 TON
04-01-00080	MICA –CLASS FABRIC TAPE	10000 ROLL
04-01-00081	POWER TAPE M23	1000 ROLL

SECTION –A- 04 – ZAFARANIYAH DIESEL POWER STATION

CODE	ITEM	QTY
04-01-00082	REHABILITATION AND ENGINEERING SERVICES	4 UNITS.
04-01-00083	FIRE FIGHTING EQUIPMENT WITH SPARES	200 UNITS +1000 PCS + 500 SETS
04-01-00084	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 100 PCS

SECTION –A- 05 - QADISSIYAH HYDRO - ELECTRIC POWER TATION

CODE	ITEM	QTY
04-01-00085	TURBINE SYSTEM EQUIPMENT WITH ACCESSORIES	1000 PCS + 1000 SET
04-01-00086	GENERATOR SYSTEM EQUIPMENT WITH ACCESSORIES	1000 PCS + 100 SETS
04-01-00087	REHABILITATION OF UNIT GENERATOR	2 UNITS
04-01-00088	CONTROL ,MEASURMENT AND PROTECTION SYSTEMS WITH ACCESSORIES	1500 PCS + 100 SETS
04-01-00089	SWITCH YARD EQUIPMENT WITH ACCESSORIES	400 SETS + 1000 SETS
04-01-00090	DC POWER SUPPLY EQUIPMENT WITH ACCESSORIES	1250 UNITS + 1000 PCS
04-01-00091	GATES AND VALVES WITH ACCESSORIES	500 UNITS + 1000 PCS
04-01-00092	AIR COMPRESSORS AND ACCESSARIES	400 UNITS + 1000 SETS
04-01-00093	CABLE BOX TERMINATIONS WIH ACCESSORIES	140 UNITS
04-01-00094	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00095	TEST EQUIPMENT OF DIFFERENT TYPES WITH SPARES	100 UNITS + 500 PCS
04-01-00096	REHABILITATION OF THE AIR CONDITIONING SYSTEM FOR . THE P.S	500 UNITS + 500 SETS + 1000 PCS
04-01-00097	PUMPS , COMPRESSOR AND ROTARY	10 SET + 100 NOS

SECTION –A- 06- SAMARRA HYDRO – ELECTRIC POWER STATION

CODE	ITEM	QTY
04-01-00098	TURBINE SYSTEM EQUIPMENT WITH ACCESSORIES	50 SETS + 1000 PCS
04-01-00099	GENERATOR SYSTEM EQUIPMENT WITH ACCESSORIES	100 SETS + 1000 PCS
04-01-00100	CONTROL , MEASURMENT AND PROTECTION SYSTEMS WITH ACCESSORIES	30 SETS + 1000 NOS
04-01-00101	DC POWER SUPPLY EQUIPMENT WITH ACCESSORIES	1100 UNITS + 1000 PCS
04-01-00102	GATES AND VALVES WITH SPARES	100 SETS + 1000 PCS
04-01-00103	AIR COMPRESSORS AND ACCESSARIES	60 SETS + 1000 PCS
04-01-00104	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00105	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 100 PCS
04-01-00106	POWER CABLES OF DIFFERENT SIZES	50 KM
04-01-00107	SWITCH YARD EQUIPMENT WITH ACCESSORIES	100 SETS + 1000 PCS
04-01-00108	PUMPS , COMRRESSORS AND ROTARY MACHINES	10 SET + 100 NOS

SECTION -A- 07 - HIMREEN HYDRO - ELECTRIC POWER STATION

CODE	ITEM	QTY
04-01-00109	TURBINE SYSTEM EQUIPMENT WITH ACCESSORIES	100 SETS + 1000 PCS
04-01-00110	GENERATOR SYSTEM EQUIPMENT WITH ACCESSORIES	200 PCS. + 500 SETS
04-01-00111	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS WITH ACCESSORIES	100 PCS. + 1000 PCS
04-01-00112	SWITCH YARD EQUIPMENT WITH ACCESSORIES	100 SETS + 1000 PCS
04-01-00113	DC POWER SUPPLY EQUIPMENT WITH ACCESSORIES	1200 UNITS + 500 PCS
04-01-00114	GATES AND VALVES WITH ACCESSORIES	100 SETS + 500 PCS
04-01-00115	AIR COMPRESSORS AND ACCESSORIES	20 SETS + 1000 SETS
04-01-00116	GAS TURBINE WITH ACCESSORIES	4 UNITS
04-01-00117	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00118	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNIT + 500 PCS
04-01-00119	COMBINED CYCLE (2X125)MW	2 UNITS
04-01-00120	POWER CABLES OF DIFFERENT SIZES AND VALLAY	50 KM
04-01-00121	PUMPS , COMRESSORS AND ROTARY MACHINES	10 SET + 100 NOS

SECTION -A- 08 - NAJAF GAS TURBINE POWER STATION

CODE	ITEM	QTY
04-01-00122	TURBINE AND COMPRESSOR BLADES , MOVING STATIONARY WITH ACCESSORIES	(2000) NOS. + (4000) SET
04-01-00123	INNER CASING AND HOT PATH EQUIPMENT	(1000) NOS. + 500 SET
04-01-00124	COMBUSTION EQUIPMENT AND ACCESSORIES	1000 NOS + 500 SET.
04-01-00125	GAS UNITS STARTING DEVICE WITH ACCESSORIES	20 NOS. + 500 SETS
04-01-00126	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS WITH ACCESSORIES	1500 NOS. + 500 SET
04-01-00127	GENERATOR , EXCITATION AND ACCESSORIES	300 NOS. + 500 SETS
04-01-00128	PUMPS , MOTORS AND ROTARY MACHINES WITH ACCESSORIES	100 NOS. + 500 SETS
04-01-00129	BATTERIES , CHARGERS AND CONVERTERS WITH ACCESSORIES	500 NOS + 50 SETS
04-01-00130	SWITCH YARD EQUIPMENT WITH ACCESSORIES	100 NOS. + 500 SETS
04-01-00131	REHABILITATION AND ENGINEERING SERVICES ACCORDING TO ATTACHED LISTS	3 UNITS
04-01-00132	GAS TURBINE 165MW EACH WITH ACCESSORIES	2 UNITS
04-01-00133	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00134	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 500 PCS
04-01-00135	COMBINDE CYCLY UNITS (2X165)MW	1 UNITS
04-01-00136	SPARE PARTS FOR THE UNITS OF DIFFERENT TYPES	5000 SETS + 1000 PCS
04-01-00137	GAS TURBINE OIL	1000 TONS

SECTION -A- 09 - TAJI GAS TURBINE POWER STATION

CODE	ITEM	QTY
04-01-00138	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	1000 NOS. + 4 SETS
04-01-00139	INNER CASING AND HOT PATH EQUIPMENT	10000 NOS. + 400SETS
04-01-00140	COMBUSTION EQUIPMENT AND ACCESSARIES	10000 NOS. + 400SETS
04-01-00141	GAS UNITS STARTING DEVICE WITH SPARES	15000 NOS.+1000SETS
04-01-00142	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	1500 NOS. + 500 SET
04-01-00143	GENERATOR , EXCITATION AND ACCESSARIES	1000 NOS.+ 500 SET
04-01-00144	PUMPS , MOTORS AND ROTARY MACHINES WITH ACCESSORIES	1500 NOS. + 500 SET
04-01-00145	BATTERIES , CHARGERS AND CONVERTERS WITH ACCESSORIES	1000 NOS. + 500 SET
04-01-00146	SWITCH YARD EQUIPMENT WITH ACCESSORIES	1000 NOS. + 500 SET
04-01-00147	REHABILITATION AND ENGINEERING SERVICES	7 UNITS
04-01-00148	REHABILITATION AND ENGINEERING SERVICES FOR MOBILE G.T. UNITS (IHI & GEC)	22 UNITS
04-01-00149	GAS TURBINE UNITS AND ACCESSARIES	2 UNIT
04-01-00150	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00151	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 500 PCS
04-01-00152	(8X15) MW MOBILE GAS TURBINE	8 UNITS

SECTION -A -10 - HILLA GAS TURBINE POWER STATION

CODE	ITEM	QTY
04-01-00153	TURBINE , ROTORS AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	1000 NOS. + 100 SET
04-01-00154	INNER CASING AND HOT PATH EQUIPMENT WITH ACCESSORIES	400 SETS + 1000 NOS
04-01-00155	COMBUSTION EQUIPMENT AND ACCESSARIES	2500 NOS 100 SETS
04-01-00156	GAS UNITS STARTING DEVICE WITH ACCESSORIES	2000 NOS+600 SETS
04-01-00157	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	1500 NOS.+ 500 SET
04-01-00158	GENERATOR, EXCITATION AND ACCESSARIES	1000 NOS. + 500 SET
04-01-00159	PUMPS , MOTORS AND ROTARY MACHINES WITH ACCESSORIES	550 NOS.+ 1000 SET
04-01-00160	BATTERIES , CHARGERS AND CONVERTERS	100 NOS. + 50 SET
04-01-00161	SWITCH YARD EQUIPMENT WITH ACCESSORIES	5000 NOS + 500 SETS
04-01-00162	REHABILITATION AND ENGINEERING SERVICES	4 UNITS
04-01-00163	GAS TURBINE UNITS & ACCESSARIES	2 UNITS
04-01-00164	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00165	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 500 PCS
04-01-00166	POWER CABLES OF DIFFERENT SIZES AND VALLAY	50 KM

SECTION -A- 11 - DAURA GAS TURBINE POWER STATION

CODE	ITEM	QTY
04-01-00167	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	6000 NOS + 600 SETS.
04-01-00168	INNER CASING AND HOT PATH EQUIPMENT WITH ACCESSORIES	1000 NOS.+ 600 SETS
04-01-00169	COMBUSTION EQUIPMENT AND ACCESSARIES	4000 NOS. 2500 SETS
04-01-00170	GAS UNITS STARTING DEVICE WITH ACCESSORIES	1000 NOS. + 500 SET
04-01-00171	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	2500 NOS.
04-01-00172	GENERATOR , EXCITATION AND ACCESSARIES	1350 NOS+100 SET.
04-01-00173	PUMPS , MOTORS AND ROTARY MACHINES WITH ACCESSORIES	5000 NOS.+500 SET
04-01-00174	BATTERIES , CHARGERS AND CONVERTERS WITH ACCESSORIES	1750 NOS+ 100 SET
04-01-00175	SWITCH YARD EQUIPMENT WITH ACCESSORIES	150 NOS + 100 SET.
04-01-00176	REHABILITATION AND ENGINEERING SERVICES	4 UNITS
04-01-00177	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00178	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 500 PCS
04-01-00179	VALVES OF DIFFERENT TYPES	9000 NOS.
04-01-00180	CHEMICALS FOR WATER TREATMENT .	5000 TONS
04-01-00181	WATER TREATMENT EQUIPMENT	20000 PCS.+ 2000 SET
04-01-00182	CORTEN STEEL	300 TONS
04-01-00183	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS.	10000 PCS +2000 SET.
04-01-00184	DC POWER SUPPLY EQUIPMENT	4500 UNITS+4500 NOS
04-01-00185	GENERATOR, SYSTEM EQUIPMENT	2500 SETS + 5000 NOS.
04-01-00186	ELECTRODES & GRINDING OF DIFFERENT SIZES	100 TON + 100000 PCS
04-01-00187	TURBINE OIL	1000 TONS
04-01-00188	ROTOR OF TVV-200 GENERATOR	2 PCS
04-01-00189	ELECTRIC MOTOR AND SPARE PARTS	2000 PCS
04-01-00190	CIRCUIT BREAKERS AND SPARE PARTS	10000 PCS
04-01-00191	POWER AND CONTROL CABLE	300 KM
04-01-00192	ELECTROLYZED SYSTEM	500 PCS
04-01-00193	TESTING DEVICE AND EQUIPMENT	10000 PCS + 100 SETS
04-01-00194	LIGHTING EQUIPMENT	100000 PCS + 100 SET
04-01-00195	AIR CONDITION EQUIPMENT WITH ALL ACCESSORIES AND SPARES	500 UNIT + 100000 PCS +2000 SET
04-01-00196	REHABILITATION AND ENGINEERING SERVICE	2 UNITS
04-01-00197	SAFETY EQUIPMENT	100000 PCS +10000 SET
04-01-00198	DEFERENT TOOLS	100000 PCS + 5000 SET
04-01-00199	WELDING MACHINES AND SPARES	1000 PCS + 1000 SET
04-01-00200	BATTERIES & BATTERIES CHARGE	5000 PCS + 100 SET
04-01-00201	FIRE FIGHTING SYSTEM AND ALL AUXILIARIES	100000 PCS + 1000 SET
04-01-00202	OIL PURIFICATION EQUIPMENT	4 SETS
04-01-00203	INSULATION MATERIALS	10 TON + 10000 PCS + 1000 ROLL
04-01-00204	WINDING WIRES	50000 KG + 1000 ROLLS
04-01-00205	GAS TURBINE (4X170)MW WITH ACCESSORIES	4 UNITS
04-01-00206	COMBINED CYCLE UNITS (2X170) MW	2 UNITS
04-01-00207	N2 GENERATION PLANT	10 SET
04-01-00208	HYDRAULIC SYSTEM & EQUIPMENT	1000 PCS+ 500 SET

04-01-00209	LOW & HIGH PRESS. HEATERS & HEAT EXCHANGERS & COOLERS	100 SET
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SECTION A- 12 - NASSIRYAH POWER STATION

CODE	ITEM	QTY
04-01-00210	TURBINE SYSTEM EQUIPMENT AND ACCESSORIES	2000 PCS+2000 SET.
04-01-00211	BOILER TUBES	100000 TUBES.
04-01-00212	BOILER AUXILIARY SYSTEM	10000 PCS +100 SET
04-01-00213	PACKING OF DIFFERENT SIZES	2000 KG
04-01-00214	AIR HEATERS	8 SETS
04-01-00215	CONDENSER TUBES	200000 PCS.
04-01-00216	PUMPS , COMPRESSORS AND ROTARY MACHINES	2400 NOS +60 SET.
04-01-00217	SWITCH YARD EQUIPMENT AND ACCESSORIES	1000 SET + 500 NOS.
04-01-00218	POWER TRANSFORMERS	2 UNITS
04-01-00219	VALVES OF DIFFERENT TYPES	9000 NOS.
04-01-00220	CHEMICALS FOR WATER TREATMENT .	5000 TONS
04-01-00221	WATER TREATMENT EQUIPMENT	20000 PCS.+ 2000 SET
04-01-00222	CORTEN STEEL	300 TONS
04-01-00223	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS.	10000 PCS +2000 SET.
04-01-00224	DC POWER SUPPLY EQUIPMENT	4500 UNITS+4500 NOS
04-01-00225	GENERATOR, SYSTEM EQUIPMENT	2500 SETS + 5000 NOS.
04-01-00226	ELECTRODES & GRINDING OF DIFFERENT SIZES	100 TON + 100000 PCS
04-01-00227	TURBINE OIL	1000 TONS
04-01-00228	ROTOR OF TVV-200 GENERATOR	2 PCS
04-01-00229	ELECTRIC MOTOR AND SPARE PARTS	2000 PCS
04-01-00230	CIRCUIT BREAKERS AND SPARE PARTS	10000 PCS
04-01-00231	POWER AND CONTROL CABLE	300 KM
04-01-00232	ELECTROLYZED SYSTEM	500 PCS
04-01-00233	TESTING DEVICE AND EQUIPMENT	10000 PCS + 100 SETS
04-01-00234	LIGHTING EQUIPMENT	100000 PCS + 100 SET
04-01-00235	AIR CONDITION EQUIPMENT WITH ALL ACCESSORIES AND SPARES	500 UNIT + 100000 PCS +2000 SET
04-01-00236	REHABILITATION AND ENGINEERING SERVICE	2 UNITS
04-01-00237	SAFETY EQUIPMENT	100000 PCS +10000 SET
04-01-00238	DEFERENT TOOLS	100000 PCS + 5000 SET
04-01-00239	WELDING MACHINES AND SPARES	1000 PCS + 1000 SET
04-01-00240	BATTERIES & BATTERIES CHARGE	5000 PCS + 100 SET
04-01-00241	FIRE FIGHTING SYSTEM AND ALL AUXILIARIES	100000 PCS + 1000 SET
04-01-00242	OIL PURIFICATION EQUIPMENT	4 SETS
04-01-00243	INSULATION MATERIALS	10 TON + 10000 PCS + 1000 ROLL
04-01-00244	WINDING WIRES	50000 KG + 1000 ROLLS
04-01-00245	GAS TURBINE (4X170)MW WITH ACCESSORIES	4 UNITS
04-01-00246	COMBINED CYCLE UNITS (2X170) MW	2 UNITS
04-01-00247	N2 GENERATION PLANT	10 SET
04-01-00248	HYDRAULIC SYSTEM & EQUIPMENT	1000 PCS+ 500 SET
04-01-00249	LOW & HIGH PRESS. HEATERS & HEAT EXCHANGERS & COOLERS	100 SET

SECTION A – 13 - HARTHA POWER STATION

CODE	ITEM	QTY
04-01-00250	TURBINE SYSTEM EQUIPMENT AND ACCESSORIES	9000 PCS+500 SET.
04-01-00251	BOILER TUBES	500000 TUBES.
04-01-00252	BOILER AUXILIARY SYSTEM	10000 PCS +50 SET
04-01-00253	PACKING OF DIFFERENT SIZES	5000 KG
04-01-00254	AIR HEATERS	4 SETS
04-01-00255	CONDENSER TUBES	250000 PCS.
04-01-00256	PUMPS , COMPRESSORS AND ROTARY MACHINES	52000 NOS +5000 SET.
04-01-00257	SWITCH YARD EQUIPMENT AND ACCESSORIES	2000 SET + 10000 PCS.
04-01-00258	POWER TRANSFORMERS	2 UNITS
04-01-00259	VALVES OF DIFFERENT TYPES	7000 NOS.
04-01-00260	CHEMICALS FOR WATER TREATMENT .	3000 TONS
04-01-00261	WATER TREATMENT EQUIPMENT	30000 PCS. + 500 SET
04-01-00262	CORTEN STEEL	200 TONS
04-01-00263	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS.	15000 PCS +3500 SET.
04-01-00264	DC POWER SUPPLY EQUIPMENT	2500 UNITS+7500 NOS
04-01-00265	GENERATOR, SYSTEM EQUIPMENT	5000 SETS + 500 PCS.
04-01-00266	ELECTRODES & GRINDING OF DIFFERENT SIZES	100 TON + 100000 PCS
04-01-00267	TURBINE OIL	1000 TONS
04-01-00268	ELECTRIC MOTOR AND SPARE PARTS	2000 PCS
04-01-00269	CIRCUIT BREAKERS AND SPARE PARTS	10000 PCS
04-01-00270	POWER AND CONTROL CABLE	300 KM
04-01-00271	ELECTROLYZED SYSTEM	500 PCS
04-01-00272	TESTING DEVICE AND EQUIPMENT	10000 PCS + 100 SETS
04-01-00273	LIGHTING EQUIPMENT	100000 PCS + 100 SET
04-01-00274	AIR CONDITION EQUIPMENT WITH ALL ACCESSORIES AND SPARES	500 UNIT + 100000 PCS +2000 SET
04-01-00275	REHABILITATION AND ENGINEERING SERVICE	2 UNITS
04-01-00276	SAFETY EQUIPMENT	100000 PCS +10000 SET
04-01-00277	DEFERENT TOOLS	100000 PCS + 5000 SET
04-01-00278	WELDING MACHINES AND SPARES	1000 PCS + 1000 SET
04-01-00279	BATTERIES & BATTERIES CHARGE	5000 PCS + 100 SET
04-01-00280	FIRE FIGHTING SYSTEM AND ALL AUXILIARIES	100000 PCS + 1000 SET
04-01-00281	OIL PURIFICATION EQUIPMENT	4 SETS
04-01-00282	INSULATION MATERIALS	10 TON + 10000 PCS + 1000 ROLL
04-01-00283	WINDING WIRES	50000 KG + 1000 ROLLS
04-01-00284	GAS TURBINE (4X123)MW WITH ACCESSORIES	4 UNITS
04-01-00285	COMBINED CYCLE (2X123) MW	2 UNITS
04-01-00286	N2 GENERATION PLANT	10 SET
04-01-00287	HYDRAULIC SYSTEM & EQUIPMENT	1000 PCS+ 500 SET
04-01-00288	LOW & HIGH PRESS. HEATERS & HEAT EXCHANGERS & COOLERS	100 SET

SECTION A - 14 - NAJIBIYAH POWER STATION

CODE	ITEM	QTY
04-01-00289	TURBINE SYSTEM EQUIPMENT AND ACCESSORIES	10000 PCS+1000 SET.
04-01-00290	BOILER TUBES	100000 TUBES.
04-01-00291	BOILER AUXILIARY SYSTEM	10000 PCS +1500 SET
04-01-00292	PACKING OF DIFFERENT SIZES	3000 KG
04-01-00293	AIR HEATERS	4 SETS
04-01-00294	CONDENSER TUBES	80000 PCS.
04-01-00295	PUMPS , COMPRESSORS AND ROTARY MACHINES	3000 NOS +1000 SET.
04-01-00296	SWITCH YARD EQUIPMENT AND ACCESSORIES	1000 SET + 500 PCS.
04-01-00297	POWER TRANSFORMERS	2 UNITS
04-01-00298	VALVES OF DIFFERENT TYPES	10000 NOS. + 500 SET
04-01-00299	CHEMICALS FOR WATER TREATMENT .	3000 TONS
04-01-00300	WATER TREATMENT EQUIPMENT	50000 PCS.+ 500 SET
04-01-00301	CORTEN STEEL	100 TONS
04-01-00302	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS.	5000 PCS +1000 SET.
04-01-00303	DC POWER SUPPLY EQUIPMENT	7500 UNITS+1000 NOS
04-01-00304	GENERATOR, SYSTEM EQUIPMENT	5000 SETS + 1000 PCS.
04-01-00305	ELECTRODES & GRINDING OF DIFFERENT SIZES	100 TON + 100000 PCS
04-01-00306	TURBINE OIL	1000 TONS
04-01-00307	ELECTRIC MOTOR AND SPARE PARTS	2000 PCS
04-01-00308	CIRCUIT BREAKERS AND SPARE PARTS	5000 PCS
04-01-00309	POWER AND CONTROL CABLE	300 KM
04-01-00310	ELECTROLYZED SYSTEM	500 PCS
04-01-00311	TESTING DEVICE AND EQUIPMENT	10000 PCS + 100 SETS
04-01-00312	LIGHTING EQUIPMENT	100000 PCS + 100 SET
04-01-00313	AIR CONDITION EQUIPMENT WITH ALL ACCESSORIES AND SPARES	500 UNIT + 100000 PCS +2000 SET
04-01-00314	REHABILITATION AND ENGINEERING SERVICE	2 UNITS
04-01-00315	SAFETY EQUIPMENT	100000 PCS +10000 SET
04-01-00316	DEFERENT TOOLS	100000 PCS + 5000 SET
04-01-00317	WELDING MACHINES AND SPARES	1000 PCS + 1000 SET
04-01-00318	BATTERIES & BATTERIES CHARGE	5000 PCS + 100 SET
04-01-00319	FIRE FIGHTING SYSTEM AND ALL AUXILIARIES	100000 PCS + 1000 SET
04-01-00320	OIL PURIFICATION EQUIPMENT	4 SETS
04-01-00321	INSULATION MATERIALS	10 TON + 10000 PCS + 1000 ROLLS
04-01-00322	WINDING WIRES	50000 KG + 1000 ROLLS
04-01-00323	N2 GENERATION PLANT	10 SET
04-01-00324	HYDRAULIC SYSTEM & EQUIPMENT	1000 PCS+ 500 SET
04-01-00325	LOW & HIGH PRESS. HEATERS & HEAT EXCHANGERS & COOLERS	100 SET

SECTION A – 15 - KHOR AL-ZUBAIR GAS TURBINE POWER STATION

CODE	ITEM	QTY
04-01-00326	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	3000 PCS+50 SET.
04-01-00327	INNER CASING AND HOT PATH EQUIPMENT	1500 PCS + 500 SET
04-01-00328	COMBUSTION EQUIPMENT AND ACCESSORIES	1000 PCS +50 SET
04-01-00329	GAS UNITS STARTING DEVICE	20 PCS
04-01-00330	CONTROL MEASUREMENT AND PROTECTION SYSTEM	1000 PCS + 500 SET
04-01-00331	GENERATOR EXCITATION AND ACCESSORIES	1500 PCS + 500 SET
04-01-00332	PUMPS , MOTOR AND ROTARY MACHINES	1500 PCS + 50 SET
04-01-00333	BATTERIES , CHARGE AND CONVERTERS	5000 PCS + 100 SET
04-01-00334	WATER TREATMENT EQUIPMENT	5000 PCS + 500 SET
04-01-00335	SWITCH YARD EQUIPMENT	2000 PCS+1000 SET
04-01-00336	REHABILITATION AND ENGINEERING SERVICE	2 UNITS
04-01-00337	GAS TURBINE UNITS WITH ACCESSORIES	4 UNIT
04-01-00338	PACKING AND GASKET OF DIFFERENT SIZE	1000 KG
04-01-00339	ELECTRIC MOTOR AND SPARE PARTS	750 PCS
04-01-00340	CIRCUIT BREAKERS AND SPARE PARTS	1500 PCS
04-01-00341	POWER AND CONTROL CABLE	100 KM
04-01-00342	TESTING DEVICE AND EQUIPMENT	2000 PCS + 50 SETS
04-01-00343	LIGHTING EQUIPMENT	10000 PCS + 50 SET
04-01-00344	AIR CONDITION & COOLING SYSTEM EQUIPMENT WITH ALL ACCESSORIES AND SPARES	200 UNIT + 10000 PCS + 50 SET
04-01-00345	SAFETY EQUIPMENT	10000 PCS +1000 SET
04-01-00346	DEFERENT TOOLS	10000 PCS + 1000 SET
04-01-00347	WELDING MACHINES AND SPARES	50 PCS + 20 SET
04-01-00348	OIL FOR TURBINE & GEAR & CIRCUIT	50000 L
04-01-00349	POWER TRANSFORMER	2 UNITS
04-01-00350	FILTERS	10000 PCS
04-01-00351	FIRE FIGHTING SYSTEM AND ALL ACCESSORIES	10000 PCS + 100 SET
04-01-00352	EXHAUST SYSTEM WITH ALL ACCESSORIES	10000 PCS + 1000 SET
04-01-00353	OIL PURIFICATION EQUIPMENT	2 SETS
04-01-00354	INSULATION MATERIALS	10 TON + 10000 PCS + 1000 ROLL
04-01-00355	WINDING WIRES	50000 KG + 1000 ROLLS
04-01-00356	HYDRAULIC SYSTEM & EQUIPMENT	500 PCS+ 250 SET
04-01-00357	LOW & HIGH PRESS. HEATERS & HEAT EXCHANGERS & COOLERS	50 SET

SECTION A – 16 - SHUAIBA GAS TURBINE POWER STATION

CODE	ITEM	QTY
04-01-00358	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	3000 PCS+400 SET.
04-01-00359	INNER CASING AND HOT PATH EQUIPMENT	1000 PCS + 400 SET
04-01-00360	COMBUSTION EQUIPMENT AND ACCESSORIES	10000 PCS +40 SET
04-01-00361	GAS UNITS STARTING DEVICE	150 PCS + 10 SET
04-01-00362	CONTROL MEASUREMENT AND PROTECTION SYSTEM	750 PCS + 10 SET
04-01-00363	GENERATOR EXCITATION AND ACCESSORIES	500 PCS + 100 SET
04-01-00364	PUMPS , MOTOR AND ROTARY MACHINES	100 PCS +500 SET.
04-01-00365	BATTERIES , CHARGE AND CONVERTERS	500 PCS + 50 SET
04-01-00366	WATER TREATMENT EQUIPMENT	5000 PCS + 500 SET
04-01-00367	SWITCH YARD EQUIPMENT	2000 PCS + 100 SET
04-01-00368	REHABILITATION AND ENGINEERING SERVICE	2 UNITS
04-01-00369	GAS TURBINE UNITS WITH ACCESSORIES	4 UNIT
04-01-00370	PACKING AND GASKET OF DIFFERENT SIZE	1000 KG
04-01-00371	ELECTRIC MOTOR AND SPARE PARTS	750 PCS
04-01-00372	CIRCUIT BREAKERS AND SPARE PARTS	1500 PCS
04-01-00373	POWER AND CONTROL CABLE	100 KM
04-01-00374	TESTING DEVICE AND EQUIPMENT	2000 PCS + 50 SETS
04-01-00375	LIGHTING EQUIPMENT	10000 PCS + 50 SET
04-01-00376	AIR CONDITION & COOLING SYSTEM EQUIPMENT WITH ALL ACCESSORIES AND SPARES	200 UNIT + 10000 PCS + 50 SET
04-01-00377	SAFETY EQUIPMENT	10000 PCS +1000 SET
04-01-00378	DEFERENT TOOLS	10000 PCS + 1000 SET
04-01-00379	WELDING MACHINES AND SPARES	50 PCS + 20 SET
04-01-00380	OIL FOR TURBINE & GEAR & CIRCUIT	50000 L
04-01-00381	POWER TRANSFORMER	2 UNITS
04-01-00382	FILTERS	10000 PCS
04-01-00383	FIRE FIGHTING SYSTEM AND ALL ACCESSORIES	10000 PCS + 100 SET
04-01-00384	EXHAUST SYSTEM WITH ALL ACCESSORIES	10000 PCS + 1000 SET
04-01-00385	OIL PURIFICATION EQUIPMENT	2 SETS
04-01-00386	INSULATION MATERIALS	10 TON + 10000 PCS + 1000 ROLL
04-01-00387	WINDING WIRES	50000 KG + 1000 ROLLS
04-01-00388	HYDRAULIC SYSTEM & EQUIPMENT	500 PCS+ 250 SET
04-01-00389	LOW & HIGH PRESS. HEATERS & HEAT EXCHANGERS & COOLERS	50 SET

SECTION –A –17- PETRO CHEMICAL GAS UNITS

CODE	ITEM	QTY
04-01-00390	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	3000 PCS+400 SET.
04-01-00391	INNER CASING AND HOT PATH EQUIPMENT	1000 PCS + 400 SET
04-01-00392	COMBUSTION EQUIPMENT AND ACCESSORIES	10000 PCS +40 SET
04-01-00393	GAS UNITS STARTING DEVICE	150 PCS + 10 SET
04-01-00394	CONTROL MEASUREMENT AND PROTECTION SYSTEM	750 PCS + 10 SET
04-01-00395	GENERATOR EXCITATION AND ACCESSORIES	500 PCS + 100 SET

04-01-00396	PUMPS , MOTOR AND ROTARY MACHINES	100 PCS +500 SET.
04-01-00397	BATTERIES , CHARGE AND CONVERTERS	500 PCS + 50 SET
04-01-00398	SWITCH YARD EQUIPMENT	2000 PCS + 100 SET
04-01-00399	REHABILITATION AND ENGINEERING SERVICE	2 UNITS
04-01-00400	GAS TURBINE UNITS WITH ACCESSORIES	4 UNIT
04-01-00401	PACKING AND GASKET OF DIFFERENT SIZE	1000 KG
04-01-00402	ELECTRIC MOTOR AND SPARE PARTS	750 PCS
04-01-00403	CIRCUIT BREAKERS AND SPARE PARTS	1500 PCS
04-01-00404	POWER AND CONTROL CABLE	100 KM
04-01-00405	TESTING DEVICE AND EQUIPMENT	2000 PCS + 50 SETS
04-01-00406	LIGHTING EQUIPMENT	10000 PCS + 50 SET
04-01-00407	AIR CONDITION & COOLING SYSTEM EQUIPMENT WITH ALL ACCESSORIES AND SPARES	200 UNIT + 10000 PCS + 50 SET
04-01-00408	SAFETY EQUIPMENT	10000 PCS +1000 SET
04-01-00409	DEFERENT TOOLS	10000 PCS + 1000 SET
04-01-00410	WELDING MACHINES AND SPARES	50 PCS + 20 SET
04-01-00411	OIL FOR TURBINE & GEAR & CIRCUIT	50000 L
04-01-00412	POWER TRANSFORMER	2 UNITS
04-01-00413	FILTERS	10000 PCS
04-01-00414	FIRE FIGHTING SYSTEM AND ALL ACCESSORIES	10000 PCS + 100 SET
04-01-00415	EXHAUST SYSTEM WITH ALL ACCESSORIES	10000 PCS + 1000 SET
04-01-00416	OIL PURIFICATION EQUIPMENT	2 SET
04-01-00417	INSULATION MATERIALS	10 TON + 10000 PCS + 1000 ROLLS
04-01-00418	WINDING WIRES	50000 KG + 1000 ROLLS
04-01-00419	HYDRAULIC SYSTEM & EQUIPMENT	500 PCS+ 250 SET
04-01-00420	LOW & HIGH PRESS. HEATERS & HEAT EXCHANGERS & COOLERS	50 SET

SECTION -A -18- BAIJI POWER STATION

CODE	ITEM	QTY
04-01-00421	TURBINE SYSTEM EQUIPMENT	50000 PCS + 5000 SET.
04-01-00422	BOILER TUBES	100000 PCS.
04-01-00423	BOILER AUXILIARY SYSTEM	500 PCS + 2000 KG
04-01-00424	PACKING OF DIFFERENT SIZES	2000 KG
04-01-00425	AIR HEATERS	6 SETS
04-01-00426	CONDENSER TUBES	95000 PCS.
04-01-00427	PUMPS , COMPRESSORS AND ROTARY MACHINES	300 NOS.+ 200 SET
04-01-00428	SWITCH YARD EQUIPMENT AND ACCESSARIES	100 SET + 2000 PCS
04-01-00429	POWER TRANSFORMERS	2 UNITS
04-01-00430	VALVES OF VARIOUS SIZES	2000 NOS + 1000 SET
04-01-00431	CHEMICALS FOR WATER TREATMENT	1000 TONS
04-01-00432	WATER TREATMENT EQUIPMENT	5000 PCS + 1000 SET.
04-01-00433	CORTEN STEEL	300 TONS
04-01-00434	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	5000 PCS + 2000 SET.
04-01-00435	DC POWER SUPPLY EQUIPMENT	2500 UNITS + 1000 PCS
04-01-00436	GENERATOR , SYSTEM EQUIPMENT	2000 SETS + 1000 PCS
04-01-00437	REHABILITATION AND ENGINEERING SERVICES	6 UNITS

04-01-00438	ELECTRODES OF DIFFERENT SIZES	50 TON
04-01-00439	TURBINE OIL	1000 TONS
04-01-00440	GAS TURBINE POWER STATION 160 MW EACH WITH AUXILIARIES .	4 UNITS
04-01-00441	COMBINED CYCLE UNITS (2X160) MW	2 UNITS
04-01-00442	EQUIPMENT FOR ERECTION AND CONSUMABLE MATERIAL	LOT
04-01-00443	GAS TURBINE FRAME (6) WITH ACCESSORIES	9 UNITS
04-01-00444	EQUIPMENT FOR ERECTION AND CONSUMABLE MATERIALS FOR GAS TURBINE POWER STATION .	LOT
04-01-00445	FIRE FIGHTING EQUIPMENT WITH SPARES	200 UNITS +1000 PCS + 500 SETS
04-01-00446	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 100 PCS
04-01-00447	AIR COOLED CHILLER WITH ACCESSORIES	100 UNITS + 1000 PCS. + 500 SETS
04-01-00448	400 KV POWER CABLE XLPLE WITH ACCESSORIES	50 KM
04-01-00449	POWER CABLES OF DIFFERENT SIZES	50 KM
04-01-00450	TRANSFORMER OIL	100 TON
04-01-00451	DEISEL GENERATOR	2 SETS

SECTION -A -19- SADDAM HYDRO - ELECTRIC POWER STATION

CODE	ITEM	QTY
04-01-00452	TURBINE SYSTEM EQUIPMENT AND SPARES	40 SETS+ 1000 PCS
04-01-00453	GENERATOR SYSTEM EQUIPMENT AND SPARES	200 PCS
04-01-00454	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS WITH SPARES	600 PCS
04-01-00455	SWITCH YARD EQUIPMENT AND SPARES	200 SETS
04-01-00456	DC POWER SUPPLY EQUIPMENT WITH SPARES	1200 UNITS
04-01-00457	GATES AND VALVES WITH SPARES	200 UNITS
04-01-00458	AIR COMPRESSORS AND ACCESSORIES	60 UNITS
04-01-00459	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00460	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 100 PCS
04-01-00461	POWER CABLES OF DIFFERENT SIZES	50 KM
04-01-00462	TRANSFORMER OIL	100 TON
04-01-00463	POWER TRANSFORMERS 400 KV & 132 Kv	5 NOS + 2 SETS
04-01-00464	PUMPS , COMPRESSORS AND ROTARY MACHINES	50 NOS + 30 SETS
04-01-00465	PACKING OF DIFFERENT SIZES	2000 Kg
04-01-00466	TURBINE OIL	100 TON

SECTION -A -20 - DIBIS POWER STATION

CODE	ITEM	QTY
04-01-00467	TURBINE SYSTEM EQUIPMENT AND SPARES	100 PCS.
04-01-00468	BOILER TUBES	10000 TUBES.
04-01-00469	BOILER AUXILIARY SYSTEM	200 PCS + 100 SET
04-01-00470	PACKING OF DIFFERENT SIZES	500 KG
04-01-00471	CONDENSER TUBES	40000 TUBES.
04-01-00472	PUMPS , COMPRESSORS AND ROTARY MACHINES	100 NOS + 50 SET.
04-01-00473	SWITCH YARD EQUIPMENT AND ACCESSORIES	300 SET + 100 NOS.
04-01-00474	POWER TRANSFORMERS	2 UNITS
04-01-00475	VALVES OF DIFFERENT TYPES	200 NOS.

04-01-00476	CONTROL , PROTECTION AND MEASURING SYSTEM.	2000 PCS + 100 SET.
04-01-00477	DC POWER SUPPLY EQUIPMENT	1250 UNITS+100 PCS
04-01-00478	GENERATOR , SYSTEM EQUIPMENT	100 SETS + 50 PCS
04-01-00479	REHABILITATION AND ENGINEERING SERVICES	4 UNITS
04-01-00480	ELECTRODES OF DIFFERENT SIZES	50 TON
04-01-00481	REHABILITATION AND ENGINEERING SERVICES	4 UNITS
04-01-00482	FIRE FIGHTING EQUIPMENT WITH SPARES	200 UNITS +1000 PCS + 500 SETS
04-01-00483	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 100 PCS
04-01-00484	AIR COOLED CHILLER WITH ACCESSORIES	100 UNITS + 1000 PCS. + 500 SETS
04-01-00485	POWER CABLES OF DIFFERENT SIZES	50 KM
04-01-00486	WATER TREATMENT FOR DIBIS POWER STATION	200 PCS + 100 NO

SECTION -A -21 - DIBIS GAS TURBINE POWER STATION

CODE	ITEM	QTY
04-01-00487	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	3000 NOS. + 400 SETS
04-01-00488	INNER CASING AND HOT PATH EQUIPMENT	1000 NOS. + 400 SETS
04-01-00489	COMBUSTION EQUIPMENT AND ACCESSARIES	2000 NOS.+ 500 SETS
04-01-00490	GAS UNITS STARTING DEVICE	1000 NOS.+ 500 SETS
04-01-00491	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	250 NOS+ 100 SET
04-01-00492	GENERATOR , EXCITATION AND ACCESSARIES	4000 NOS+100 SET
04-01-00493	PUMPS , MOTORS AND ROTARY MACHINES	2000 NOS + 1000 SET
04-01-00494	BATTERIES , CHARGERS AND CONVERTERS	2000 NOS + 50 UNITS.
04-01-00495	SWITCH YARD EQUIPMENT	1000 NOS.+500 SET
04-01-00496	DIFFUSER FOR TURBINE , UPPER AND LOWER PARTS	4 SET
04-01-00497	REHABILITATION AND ENGINEERING SERVICES	3 UNTS
04-01-00498	GAS TURBINE WITH ACCESSARIES (4X150)MW	4 UNITS
04-01-00499	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00500	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 500 PCS
04-01-00501	COMBINED CYCLE UNITS (2X150)MW	2 UNITS
04-01-00502	POWER CABLES OF DIFFERENT SIZES	50 KM

SECTION -A -22- MOSUL GAS TURBINE POWER STATION

CODE	ITEM	QTY
04-01-00503	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	10000 NOS. + 2000 SET
04-01-00504	INNER CASING AND HOT PATH EQUIPMENT	150 NOS.
04-01-00505	COMBUSTION EQUIPMENT AND ACCESSARIES	2000 NOS + 20 SET.
04-01-00506	GAS UNITS STARTING DEVICE	1500 NOS + 500 SET
04-01-00507	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	500 NOS + 500 SET
04-01-00508	GENERATOR , EXCITATION AND ACCESSARIES	2000 NOS+300 UNITS
04-01-00509	PUMPS , MOTORS AND ROTARY MACHINES	2500 NOS + 1000 SET.

04-01-00510	BATTERIES , CHARGERS AND CONVERTERS	1500 NOS + 500 SET
04-01-00511	SWITCH YARD EQUIPMENT	2500 NOS. + 500 SET
04-01-00512	SUPERVISION FOR REHABILITATION	10 UNITS.
04-01-00513	REHABILITATION AND ENGINEERING SERVICES	12 UNITS
04-01-00514	GENERAL SPARE PARTS FOR FRAME-5 GAS TURBINES	LOT
04-01-00515	GAS TURBINE UNITS AND ACCESSARIES	2 UNITS
04-01-00516	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00517	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 500 PCS
04-01-00518	POWER CABLES OF DIFFERENT SIZES AND VALLAY	50 KM
04-01-00519	TURBINE OIL	10 TON
04-01-00520	TRANSFORMER OIL	50 TON

SECTION -A- 23 - MULLA ABDULLA GAS TURBINE POWER STATION

CODE	ITEM	QTY
04-01-00521	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	15000 NOS. + 400 SETS
04-01-00522	INNER CASING AND HOT PATH EQUIPMENT	1500 NOS. 400 SETS
04-01-00523	COMBUSTION EQUIPMENT AND ACCESSARIES	1000 NOS. 400 SETS
04-01-00524	GAS UNITS STARTING DEVICE	500 NOS. 250 SETS
04-01-00525	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	1800 NOS+100 SET
04-01-00526	GENERATOR , EXCITATION AND ACCESSARIES	2000 NOS + 100 SET.
04-01-00527	PUMPS , MOTORS AND ROTARY MACHINES	1200 NOS + 100 SET.
04-01-00528	BATTERIES , CHARGERS AND CONVERTERS	500 NOS+200 SETS
04-01-00529	SWITCH YARD EQUIPMENT	1000 NOS + 500 SET.
04-01-00530	REHABILITATION AND ENGINEERING SERVICES	10 UNITS
04-01-00531	GAS TURBINE UNITS AND ACCESSARIES	12 UNITS
04-01-00532	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00533	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 500 PCS
04-01-00534	COMBINED CYCLE UNITS (2X50)MW	2 UNITS
04-01-00535	POWER CABLES OF DIFFERENT SIZES	50 KM

SECTION -A- 24- SINHAREEB HYDRO - ELECTRIC POWER STATION (4 X 42.5) MW

CODE	ITEM	QTY
04-01-00536	ENGINEERING , EMBEDDED PARTS AND MANUFACTURING OF SOME PARTS FOR THE SUPPLY OF (4X42.5)MW UNIT.	4 UNITS
04-01-00537	EQUIPMENT (ELECTRO MECHANICAL) FOR SUPPLYING (4X42.5 MW) HYDRO POWER UNITS	LOT
04-01-00538	TESTING AND INSPECTION EQUIPMENT	LOT
04-01-00539	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00540	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 500 PCS

SECTION -A-25- AL-ADHAIM HYDRO-ELECTRIC POWER STATION(2X15) MW

CODE	ITEM	QTY
04-01-00541	ENGINEERING , EMBEDDED PARTS AND MANUFACTURING OF SOME PARTS FOR THE SUPPLY OF (2X 15)MW	2 UNITS
04-01-00542	EQUIPMENT (ELECTRO MECHANICAL) FOR SUPPLYING (2X15 MW) HYDRO POWER UNITS	LOT
04-01-00543	TESTING , INSPECTION EQUIPMENT	5 SET
04-01-00544	FIRE FIGHTING EQUIPMENT WITH SPARES	100 UNITS +500 PCS + 250 SETS
04-01-00545	TEST EQUIPMENT OF DIFFERENT TYPES	50 UNITS + 500 PCS
04-01-00546	POWER CABLES OF DIFFERENT SIZES	50 KM
04-01-00547	MAKHOOOL HYDRO - ELECTRIC POWER STATION (4 X 65)MW	4 UNITS

SECTION -A- 26 – YOUSIFIYAH POWER STATION (8 X 210) MW

CODE	ITEM	QTY
04-01-00548	COMPLETE POWER STATION WITH ALL AUXILIARY UNITS AND SERVICES.	8 UNITS
04-01-00549	COMPLETE 400KV S/S WITH ACCESSORIES	1 LOT
04-01-00550	AUXILIARY EQUIPMENT FOR ONE UNIT 200 MW	1 LOT
04-01-00551	POWER CABLES OF DIFFERENT SIZES	5000 KM

SECTION -A- 27 – AL- ANBAR POWER STATION (6X300) MW

CODE	ITEM	QTY
04-01-00552	COMPLETE POWER STATION WITH ALL AUXILIARY UNITS AND SERVICES WITH MATERIAL AND EQUIPMENT FOR ERECTION	6 UNITS
04-01-00553	MATERIAL FOR CIVIL ENGINEERING	LOT
04-01-00554	EQUIPMENT FOR CIVIL ENGINEERING CONSTRUCTION	LOT
04-01-00555	POWER CABLES OF DIFFERENT SIZES	5000 KM

SECTION -A- 28 - NORTH POWER STATION (4X350 MW)

CODE	ITEM	QTY
04-01-00556	COMPLETE BOILERS & ACCESSORIES	4 UNITS
04-01-00557	COMPLETE TURBINE & ACCESSORIES	4 UNITS
04-01-00558	COMPLETE GENERATOR & ACCESSORIES	4 UNITS
04-01-00559	WATER TREATMENT PLANT & ACCESSORIES	LOT
04-01-00560	SWITCH YARD EQUIPMENT AND ACCESSORIES	LOT
04-01-00561	SUPPLY, ERECTION, FITTING EQUIPMENT AND ALL GENERAL SYSTEMS.	4 UNITS
04-01-00562	SUPPLY OF GAS , HEAVY AND LIGHT OIL SYSTEMS AND DISCHARGE SYSTEM , OIL CARRIER TRUCK AND ALL OTHER ACCESSORIES .	4 UNITS
04-01-00563	SUPPLY OF COOLING EQUIPMENT WITH ACCESSORY EQUIPMENT AND CIVIL ENGINEERING MATERIAL	4 UNITS
04-01-00564	SUPPLY OF HYDROGEN AND OXYGEN GENERATION EQUIPMENT AND COMPRESSORS WITH OTHER ACCESSORIES. FIRE FIGHTING EQUIPMENT .	4 UNITS
04-01-00565	SUPPLY OF ALL TRANSFORMERS NEEDED FOR THE POWER STATION .	4 UNIT
04-01-00566	SUPPLY OF WATER INTAKE PUMPING FROM THE RIVER. WATER TREATMENT PLANT, VALVES AND ALL ACCESSORIES	4 UNIT
04-01-00567	PROJECT CONSULTATION AND WORK COORDINATION	40 MAN – MONTH
04-01-00568	TEST AND INSPECTION EQUIPMENT	1 LOT

04-01-00569	SUPPLY OF AUTOMATIC CONTROL AND ELECTRICAL EQUIPMENT	4 UNIT
04-01-00570	SUPPLY OF ALL THE CABLE NEEDED FOR POWER STATION .	LOT
04-01-00571	SUPPLY OF ALL COMMUNICATION EQUIPMENT NEEDED FOR 4 UNITS	LOT
04-01-00572	SUPPLY OF EQUIPMENTS FOR THE BALANCE PLANT	LOT
04-01-00573	GAS TURBINE (4X 160) MW EACH WITH AUXILIARIES	4 UNIT
04-01-00574	COMBINED CYCLE UNITS (2X160)MW	2 UNITS
04-01-00575	MATERIAL FOR CIVIL ENGINEERING	LOT
04-01-00576	EQUIPMENT FOR CIVIL ENGINEERING CONSTRUCTION	LOT
04-01-00577	MATERIAL AND EQUIPMENT REQUIRED FOR ERECTION WORKS	LOT
04-01-00578	POWER CABLES OF DIFFERENT SIZES	5000 KM
04-01-00579	EXECUTION AND MATERIAL FOR CIVIL ENGINEERING	LOT

SECTION -A- 29- SALAH AL-DEEN POWER STATION (4 X 300 MW)

CODE	ITEM	QTY
04-01-00580	ENGINEERING AND CAMP FACILITIES WITH CIVIL ENGINEERING MATERIAL FOR CONSTRUCTION THE PROJECT	4 UNIT
04-01-00581	SUPPLY EQUIPMENT AND SERVICES FOR FOUR UNITS AND AUXILIARY NEEDED (4 X 300 MW)	4 UNIT
04-01-00582	MATERIAL FOR CIVIL ENGINEERING	LOT
04-01-00583	EQUIPMENT FOR CIVIL ENGINEERING CONSTRUCTION	LOT
04-01-00584	CAMP FACILITIES MATERIAL AND EQUIPMENT REQUIRED FOR ERECTION WORK	LOT
04-01-00585	COOLING TOWER	2 UNITS
04-01-00586	POWER CABLES OF DIFFERENT SIZES	5000 KM

SECTION -A- 30 - GAS TURBINE UNITS

CODE	ITEM	QTY
04-01-00587	GAS TURBINE UNITS WITH ACCESSORIES (FRAME 9 OR EQUIVALENT) WITH COMBINED CYCLE .	14 UNIT
04-01-00588	GAS TURBINE UNITS WITH ACCESSORIES (FRAME 6 OR EQUIVALENT).	14 UNIT
04-01-00589	GAS TURBINE UNITS WITH ACCESSORIES (FRAME 5 OR EQUIVALENT).	14 UNIT
04-01-00590	POWER CABLES OF DIFFERENT SIZES	5000 KM

SECTION -A- 31 - MOBILE GAS TURBINE

CODE	ITEM	QTY
04-01-00591	MOBILE GAS TURBINE WITH ACCESSORIES (2-15 MW)	50 UNITS
04-01-00592	SUBSTATION 132 / 33 / KV COMPLETE WITH ALL ACCESSORIES	25 UNITS
04-01-00593	FLOATING GAS TURBINE UNITS WITH ACCESSORIES (4 X 25MW).	4 UNIT
04-01-00594	POWER CABLES OF DIFFERENT SIZES	1000 KM

SECTION -A- 32 - BAGHDAD EAST GAS POWER STATION

CODE	ITEM	QTY
04-01-00595	GAS POWER STATION COMPLETE WITH ACCESSORIES (6X123.5MW)	6 UNIT
04-01-00596	EQUIPMENT FOR ERECTION AND CONSTRUCTION MATERIAL	LOT

04-01-00597	COMBINED CYCLE UNITS (3X123) MW	3 UNITS
04-01-00598	POWER CABLES OF DIFFERENT SIZES	5000 KM

SECTION -A- 33 – WASIT POWER STATION (6X210)MW

CODE	ITEM	QTY.
04-01-00599	COMPLETE BOILERS AND ACCESSARIES	6 UNITS
04-01-00600	COMPLETE TURBINE AND ACCESSARIES	6 UNITS
04-01-00601	COMPLETE GENERATOR AND ACCESSARIES	6 UNITS
04-01-00602	WATER TREATMENT PLANT AND ACCESSARIES CAPACITY 6 x 75 CUB.MET	6 LINES
04-01-00603	SWITCH YARD EQUIPMENT AND ACCESSARIES	24 SET
04-01-00604	ENGINEERING AND TECHNICAL ASSISTANCE FOR MANUFACTURING , CONSTRUCTION & COMESSAINING	300 MAN. MONTH
04-01-00605	SUPPLY OF GAS , HEAVY AND LIGHT OIL SYSTEMS AND DISCHARGE SYSTEM , OIL CARRIER TRUCK AND ALL OTHER ACCESSARIES .	6 UNITS
04-01-00606	SUPPLY OF COOLING EQUIPMENT WITH ACCESSORY EQUIPMENT AND CIVIL ENGINEERING MATERIAL	6 UNITS
04-01-00607	SUPPLY OF HYDROGEN AND OXYGEN GENERATION EQUIPMENT AND COMPRESSORS WITH OTHER ACCESSARIES . FIRE FIGHTING EQUIPMENT	6 UNITS
04-01-00608	SUPPLY OF ALL TRANSFORMERS NEEDED FOR THE POWER STATION	6 UNITS
04-01-00609	SUPPLY OF WATER INTAKE PUMPING FROM THE RIVER . WATER TREATMENT PLANT , VALVES AND ALL ACCESSARIES	6 UNITS
04-01-00610	PROJECT CONSULTATION AND WORK COORDINATION	40 MAN- MONTH
04-01-00611	TEST AND INSPECTION EQUIPMENT	10 SET
04-01-00612	SUPPLY OF AUTOMATIC CONTROL AND ELECTRICAL EQUIPMENT	6 UNITS
04-01-00613	SUPPLY OF ALL THE CABLE NEEDED FOR POWER STATION	LOT
04-01-00614	SUPPLY OF ALL COMMUNICATION EQUIPMENT NEEDED FOR 6 UNITS	LOT
04-01-00615	MATERIAL FOR CIVIL ENGINEERING	LOT
04-01-00616	EQUIPMENT FOR CIVIL ENGINEERING CONSTRUCTION	LOT
04-01-00617	MATERIAL AND EQUIPMENT REQUIRED FOR ERECTION WORKS	LOT
04-01-00618	SUPPLY OF SEWAGE SYSTEM PLANT	LOT
04-01-00619	FURNITURES LABORATORIES WELFARE BUILDING , ADMINISTRAATION , CANTEEN ...ETC	LOT

SECTION -B -34 - TRANSMISSION NETWORK

CODE	ITEM	QTY
04-01-00620	SWITCH GEARS WITH SPARES	2500 SETS + 1000 PCS
04-01-00621	TRANSFORMERS AND SPARE PARTS	100 UNITS+1500 SETS
04-01-00622	TRANSFORMER OIL	25000 TONS
04-01-00623	CIRCUIT BREAKERS AND SPARE PARTS	3000 SETS 1500 PCS.
04-01-00624	DC POWER SUPPLY EQUIPMENT AND ACCESSARIES	3000 SETS + 1000 NOS.
04-01-00625	TESTING EQUIPMENT OF DIFFERENT TYPES	5000 SETS + 1000 PCS
04-01-00626	ELECTRICAL POWER SUPPLY CENTER SPARES	15000 PCS. + 2000 NOS.
04-01-00627	TRANSMISSION LINES SPARES	10000 SETS+50000 PCS
04-01-00628	BAGHDAD EAST-BAGHDAD SOUTH 400KV LINE EQUIPMENT	LOT
04-01-00629	BAGHDAD EAST- DIYALAH – TAMEEM 400KV LINES EQUIPMENT	LOT
04-01-00630	MOBILE SUBSTATION 132/33KV 15MVA & 25 MVA	50 UNITS

04-01-00631	MOBILE SUBSTATION 132/11KV 10MVA OR 25MVA	80 UNITS
04-01-00632	POWER LINE CARRIER COMMUNICATION EQUIPMENT	1500 SET + 600 PCS
04-01-00633	WIRELESS EQUIPMENT FOR MOBILE AND PORTABLE COMMUNICATION	1000 PCS
04-01-00634	PILOT CABLE CARRIER COMMUNICATION EQUIPMENT	1000 SET + 2000 PCS
04-01-00635	SWITCHING COMMUNICATION EQUIPMENT	1000 SET + 500 PCS
04-01-00636	VHF / MW COMMUNICATION EQUIPMENT	350 SET + 500 PCS
04-01-00637	FIBER OPTICS COMMUNICATION SDH EQUIPMENT	500 SET+ 1000NOS
04-01-00638	FIBER OPTICS COMMUNICATION CABLES	5000 KM
04-01-00639	NETWORK MANAGEMENT CENTRE FOR COMMUNICATION EQUIPMENT	30 SETS
04-01-00640	TELE PROTECTION EQUIPMENT	100 PCs
04-01-00641	TEST EQUIPMENT FOR COMMUNICATION SYSTEMS	700 PCS + 300 SET
04-01-00642	VOLTAGE TRANSFORMER WITH SPARES	50 SETS + 1000 PCS
04-01-00643	OPTICAL FIBER GROUND WIRE (OPGW)CONTROL OF ELECTRICAL NETWORK	5000 KM
	<u>TRANSMISSION AND DISTRBUTION NETWORK MATERIAL AND ACCESSARIES</u>	
04-01-00644	* TOWERS OF DIFFERENT TYPES	25000 NOS + 10000 SETS
04-01-00645	* INSULATORS & BUSHINGS	300000 NOS
04-01-00646	* WIRE OF ALUMINIUM AND COPPER	50000 KM + 310000 TON
04-01-00647	* SAFETY EQUIPMENT	25000 SETS + 25000 PCS
04-01-00648	* AIR CONDITIONING EQUIPMENT WITH ALL ACCESSARIES AND SPARES	2000 UNITS + 10000 PCS + 5000 SET
04-01-00649	* GRAIN ORIENTED SILCON STEEL	5000 TON
04-01-00650	- CABLE BOX TERMINATION 400 & 132 KV WITH ACCESSARIES	1000 SETS + 5000 PCS
04-01-00651	* ENAMILING WIRE & ENAMIL OIL	2000 TON
04-01-00652	* INSULATION PAPERS	2500 TON
04-01-00653	* P.V.C. FOR SHEATING AND INSULATION	3000 TON
04-01-00654	* LEAD ALLOY	5000 TON
04-01-00655	*- ACCESSARIES FOR TRANSFORMERS LINES	150000 PCS+ 15000 SET
04-01-00656	* WHITE METAL	500 TONS
04-01-00657	* SILICAGEL	100 TONS
04-01-00658	* INSULATION MATERIALS	10 TON + 10000PCS + 1000 ROLLS
04-01-00659	* WINDING WIRES	50000 KG + 1000 ROLLS
04-01-00660	* CHEMICALS AND LUBRICANTS	1000 KG
04-01-00661	* LIGHTING EQUIPMENTS WITH ACCESSARIES & SPARES	2500 SETS + 2500 NO
04-01-00662	REHABILITATION OF HARTHA - KHOR ALZUBAIR 400KV LINE	100 KM
04-01-00663	REHABILITATION OF TAMEM - TASLUGA 132KV LINE	112 KM
04-01-00664	REHABILITATION OF QARAQOSH - ARBIL 132KV LINE	70 KM
04-01-00665	REHABILITATION OF DIBIS - ERBIL 132KV LINE	60 KM
04-01-00666	EQUIPMENT TOOLS MACHINARY AND CRANES FOR ERECTION OF OVER HEADLINE 400/132KV	LOT
04-01-00667	STRINGING EQUIPMENT FOR OVER HEADLINE 400 &132KV	LOT
	<u>400 KV TRANSMISSION LINES:-</u>	
04-01-00668	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF SALAH-ALDAIN POWER STATION TO THE NET WORKS	100 KM
04-01-00669	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF BAGHDAD - SOUTH S/S TO BAGHDAD CENTER	50 KM
04-01-00670	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF YOUSIFIYA- POWER STATION TO BAGHDAD - SOUTH S/S	30 KM
04-01-00671	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF BAGHDAD - SOUTH S/S TO BAGHDAD - WEST S/S	50 KM

04-01-00672	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF QEIM S/S TO SYRIA - BOARDER	30 KM
04-01-00673	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF MOSUL 400KV S/S TO TURKISH-BOARDER	140 KM
04-01-00674	<u>132KV TRANSMISSION LINES:-</u> O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF SALAH-ALDAIN POWER STATION TO OTHER 132KV S/S	100 KM
04-01-00675	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF AL-AMAIN 400KV S/S TO BAGHDAD NET- WORK	80 KM
04-01-00676	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF BAGHDAD - CENTER TO THE NET- WORK	120 KM
04-01-00677	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR CONNECTION OF LINES TO THE SUBSTATION IN RASAF AND AL-KARKH NEW BAGHDAD - MASHTAL S/S	30 KM
04-01-00678	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC)FOR NEW BAGHDAD SAMIDIYA S/S	10 KM
04-01-00679	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR NEW BAGHDAD THAWORA S/S	20 KM
04-01-00680	O/H LINE MATERIAL (TOWERS , CONDUTORS , INSULATORS , ETC) FOR NEW BAGHDAD JAZEER - YARMOUK S/S	10 KM
04-01-00681	132 KV HIGH VOLTAGE CABLES WITH ACCESSORIES , BAGHDAD NORTH-KADIMIYA-HURIYA	240 KM
04-01-00682	CURRENT TRANSFORMERS FOR OUTDOOR INSTALLATION WITH SPARES	500 NOS
04-01-00683	POWER TRANSFORMERS MATERIAL AND ACCESSARIES	1000 SET + 500 NOS.
04-01-00684	EQUIPMENT AND MATERIAL FOR REPAIR WORKSHOP OF POWER TRANSFORMERS TO COVER THE FOLLOWING:- POSITIVE PRESSURE EQUIPMENT , DRY AIR FACILITIES , LIFTING FACILITIES AND MATERIAL AND TOOLS .	1000 SET
04-01-00685	ELECTRICITY DISPATCH CENTERS (REHABILITATION AND INSTALLATION OF NEW CENTERS)	4 NOS
04-01-00686	REHABILITATION AND INSTALLATION OF NEW TELECOMMUNICATION EQUIPMENT FOR VOICE, DATA COMMUNICATION AND POWER LINE PROTECTION	LOT
04-01-00687	ALUMINIUM INGOT FOR PRODUCTION OF ACSR ELECTRICAL POWER TRANSMISSION LINES	10000 TON
04-01-00688	STEEL REINFORCEMENT CABLES FOR ELECTRICAL POWER TRANSMISSION LINES	10000 TON
04-01-00689	NEW SUBSTATION 132/33/11 KV	15 UNITS
04-01-00690	EXTENTION OF EXISTING SUBSTATION 132/33/11 KV FOR (TAJI) (BAB AL- ZUBAIR) (HINDIYAH BARRAGE)	10 UNITS + 10 LOT
04-01-00691	TRANSDUCER AND METERING EQUIPMENT	5000 SET + 1000 NOS
04-01-00692	SWITCH YARD EQUIPMENT AND ACCESSARIES	150000 SET + 5000 NOS
04-01-00693	SUBSTATION MAINTENANCE EQUIPMENT	150000 SET + 2000 NOS.
04-01-00694	OIL AND SF6 PURIFICATION EQUIPMENT	500 SET + 1000 PCS.
04-01-00695	TRANSFORMER OIL OF DIFFERENT TYPES	2000 TON
04-01-00696	POWER CABLES OF DIFFERENT SIZES AND VOLTAGES	10000 KM + 200000 PCS + 25000 SET
04-01-00697	SF6 GAS	100000 KG
04-01-00698	BAGHDAD NETWORK, COMPLETE 132KV LINE BAYS (ISKAN AL-KHIR, JAZAIR, DAURA, YARMUK, TAJI , RASHIDIA)	17 BAYS
04-01-00699	132 KV NEW S/S & EXTENSION (BASRAH NET WORK)	LOT
04-01-00700	BASRAH CENTER S/S COMPLETE NEW S/S	LOT
04-01-00701	EXTENSION OF BASRAH EAST S/S COMPLETE 132KV LINE & TRANSFORMER BAYS	4 BAYS
04-01-00702	EXTENSION OF NAJIBIYAH P.S. NETWORK COMPLETE 132 KV LINE BAY	1 BAY
04-01-00703	<u>132 KV NEW S/S. & EXTENSION</u> * AGARGUF S/S	LOT
04-01-00704	* ADHAMIYAH	LOT

04-01-00705	* AL-WASHASH	LOT
04-01-00706	- AL-KADHAMIAH EXTENSION, COMPLETE 132KV LIN BAY	4 BAYS
04-01-00707	- AL-RASHIDIYAH EXTENSION, COMPLETE 132KV LIN BAY	2 BAYS
04-01-00708	- AL-MAARI EXTENSION, COMPLETE 132KV LIN BAY	2 BAYS
04-01-00709	RUMILLA NO.1 S/S	LOT
04-01-00710	RUMELA NO.2 S/S	LOT
04-01-00711	RUMELA NO.3 S/S	LOT
04-01-00712	RUMELA NO.4 S/S	LOT
04-01-00713	RUMELA NO.5 S/S	LOT
04-01-00714	JURF AL-SIQRAR EXTENSION S/S	TWO MAIN TR,AND TWO 33KV SECTIONS
04-01-00715	NEW S/S HADETHA	LOT
04-01-00716	NEW S/S BAQUBA	LOT
04-01-00717	NEW S/S HAWEGA	LOT
04-01-00718	400 & 132KV CABLES WITH OTHER ACCESSORIES	5000 KM + 10000 PCS
04-01-00719	132KV & 400KV OVER HEAD LINE WITH OTHER ACCESSORIES	10000 KM+ 5000 PCS
04-01-00720	EXTENSION OF EXISTING SUBSTATION 132/33/11 KV	10 UNITS
04-01-00721	POWER CABLES OF DIFFERENT SIZES	25000 KM
04-01-00722	CONTROL CABLES OF DIFFERENT SIZES	50000 KM
04-01-00723	FIRE FIGHTING SYSTEM AND ALL ACCESSORIES	10000 PCS + 100 SET
04-01-00724	INSULATION OIL FOR CABLES	1000 TON
04-01-00725	LIGHTING EQUIPMENT	10000 PCS + 50 SET
04-01-00726	BATTERIES AND BATTERY CHARGERS	600 PCS + 30 SET
04-01-00727	ELECTRONIC EQUIPMENT	3000 PCS
04-01-00728	COMPUTERIZED WITH ALL ACCESSORIES	10 SET + 3000 PCS
04-01-00729	TESTING DEVICES AND EQUIPMENT	500 PCS + 30 SETS
04-01-00730	FIRE FIGHTING SYSTEM AND ALL ACCESSORIES	2000 PCS + 50 SET
04-01-00731	DIFFERENT TOOLS	1000 PCS + 50 SET
04-01-00732	ACCESSORIES FOR POWER LINE CARRIER EQUIPMENT : WAVE , TRAPS , CAPACITORS , FILTER , CABLES AND CARDS .	1000 PCS
04-01-00733	ACCESSORIES FOR RADIO EQUIPMENT : AERIALS , CABLES , TOWER , CONTROL EQUIPMENT AND CONNECTORS .	1000 SETS
04-01-00734	COMMUNICATION SUPPLY ACCESSORIES	150 SETS
04-01-00735	REMOTE TERMINAL UNITS AND ACCESSORIES	150 SETS
04-01-00736	GENERAL SERVICE EQUIPMENT : TELEX , TELEPHONE AND PHOTOCOPY .	1000 PCS
04-01-00737	PERSONAL COMPUTERS WITH SOFTWARE AND ACCESSORIES	100 PCS
04-01-00738	NEW 400KV SUBSTATION	4 UNITS
04-01-00739	EXTENSION OF EXISTING 400KV SUBSTATION	LOT
04-01-00740	NEW S/S AL-MISHRAK 132KV	LOT
04-01-00741	NEW S/S MOSUL UNIVERSITY 132KV	LOT
04-01-00742	NEW S/S NORTH SAMARA 132KV	LOT
04-01-00743	NEW S/S AL-ISKANDRYA 132KV	LOT
04-01-00744	NEW S/S AL-AZEZIYA 132KV	LOT
04-01-00745	NEW S/S OF JAMELA 132KV	LOT
04-01-00746	NEW S/S OF AL-FARABY 132KV	LOT
04-01-00747	EXTENSION OF ALMUTHNA S/S 132KV	LOT
04-01-00748	EXTENSION OF BALAD S/S 132KV	MAIN TR, ONE BAY 11,33/ KV ONE SECTION FOR EACH

04-01-00749	EXTENSION OF SADAM S/S 400KV	LOT
04-01-00750	NEW S/S AL-MAHMODAYH 132KV	LOT
04-01-00751	NEW S/S OF DAURA INDUSTRY 132KV	LOT
04-01-00752	NEW S/S OF NAJAF SOUTH 132KV	LOT
04-01-00753	STRAIGHT JOINT BOX (1X800)MM 132KVA	30 SET
04-01-00754	TERMINATION JOINT BOX (1X800)MM 132KVA	10 SET
04-01-00755	DIFFERENT TOOLS	11000 SETS + 50000 PCS
04-01-00756	POWER CABLES OF DIFFERENT SIZES AND VOLTAGES	50 KM
04-01-00757	SIGHT AND INDUSTRIAL SAFETY MATERIAL AND EQUIPMENT COMPLETE SCADA SYSTEM FOR THE THREE REGIONAL FOR THE CONTROL CENTERS WITH MIDDLE REGION, NORTH REGION AND SOUTH REGION .	3 SET
04-01-00758	WALKIE TALKIE EQUIPMENT FOR SITE WORKS	1000 PCS
04-01-00759	HEAD AREM ASSEMBLY (SERVO): PART NO.: 92773402	6 No
04-01-00760	HEAD AREM ASSEMBLY (UPPER): PART NO.: 92773401	18 No
04-01-00761	HEAD AREM ASSEMBLY (LOWER): PART NO.: 92773400	12 No
04-01-00762	DATA PACK	10 No
04-01-00763	RGB COLOUR MONITOR TYPE CONRAC MODEL 7122 OR NEWER	4 NO
04-01-00764	LOGIC POWER SUPPLY XS-4313 (5V, 150 AMP)	2 NO
04-01-00765	MEMORY POWER SUPPLY PART NO.: 550-100168-002	2 NO
04-01-00766	1930 POWER SUPPLY PART NO.: 550-100093-001	2 NO
04-01-00767	CONSOLE CONTROLLER MC - 4905 PART NO. : 516-100145-002	1 NO
04-01-00768	PERIPHERAL BUS SWITCH CONTROLLER MC-4906 PART NO.: 516-200062	2 NO
04-01-00769	FRONT - END CONTROLLER MC-4805 PART NO.: 516-200082-001	2 NO

SECTION -C -35- TRAINING PROGRAMMES , TOOLS AND FACILITIES , EXPERTS

CODE	ITEM	QTY
	<u>TRAINING AND SIMULATION EQUIPMENT TO COVER THE FOLLOWING ACTIVITIES:</u>	
04-01-00770	GENERATION , TRANSMISSION AND DISTRIBUTION OF ELECTRICITY.	10 SET
04-01-00771	MANUFACTURING OF POWER AND DISTRIBUTION TRANSFORMERS.	10 SET
04-01-00772	MANUFACTURING OF CONDUCTORS FOR TRANSMISSION AND DISTRIBUTION OF ELECTRICITY.	10 SET
04-01-00773	MANUFACTURING OF TOWERS FOR 400 KV AND 132 KV TRANSMISSION LINES.	5 SET
04-01-00774	OTHER SUPPORTING ACTIVITIES TO THE ELECTRICAL SECTOR.	LOT
04-01-00775	COMPUTERIZED DISPLAY FACILITIES FOR TRAINING PURPOSES.	500 PCS + 500 SETS
04-01-00776	LABORATORIES FOR TRAINING	5 NO.
04-01-00777	TRAINING AIDS AND TOOLS.	20 SET
04-01-00778	TRAINING COURSES	200 MAN - MONTH
04-01-00779	EXPERTS OF DIFFERENT SPECIALIZATION, POWER STATIONS , TRANSMISSION , STUDY , PLANNINGetc	20 NOS

SECTION D- 36 - GENERATOR MAINTENANCE WORKSHOP

CODE	ITEM	UNIT
04-01-00780	1000 T MOVABLE PRESS MACHINE MAX. CAPACITY 10,000 KN	1 SET
04-01-00781	250 T TROLLY SUPPORT FOR STATOR WINDING ASSEMBLING MAX. LOAD 250T	2 SET
04-01-00782	250 / 50T CRANE RAIL HEIGHT 22M	1 SET
04-01-00783	75/10T + 100/20T CRANES RAIL HEIGHT 16M	ONE FOR EACH
04-01-00784	OVEN 13.5 x 6.5 x 7.5 M , MAX. TEMP. 165 DEGREE CENTIGRADE+B353	1 SET
04-01-00785	HOT JACKET OVEN 1.5 x 1.5 x 2.5 M , MAX. TEMP. 450 B1221	1 SET
04-01-00786	INDUCTION HEATING UNIT 250 KW	1 SET
04-01-00787	TROLLY SUPPORT FOR ROTOR WINDING ASSEMBLING 40T EACH , ONE PAIR OF THEM ARE INSULATED ROLLER	2 SET
04-01-00788	MOVABLE MIDDLE FREQUENCY WELDING MACHINE MAX. OUTPUT 70 KW	1 SET
04-01-00789	5000 KW DRIVING MOTOR RATING OUTPUT 5000KW , 3600 RPM	1 SET
04-01-00790	HYDROGEN & OIL SYSTEMS FACILITIES FOR TESTING GENERATOR	1 SET
04-01-00791	6M HORIZONTAL LATHE CENTER HEIGHT OVER BED 630MM , CENTER HEIGHT OVER BED 630 MM , 14T	1 SET
04-01-00792	15M HORIZONTAL LATHE DIST. BETWEEN CENTER 15000MM , CENTER HEIGHT OVER BED 1250MM , 80T	1 SET
04-01-00793	SLOTTER MIN/MAX DIA 800/DIA 1200, L18000MM	1 SET
04-01-00794	1.2M VERTICAL LATHE MAX. TURNING DIA 1250 MAX. HEIGHT OF WORKPIECE H 1000 MAX. WEIGHT POF WORKPIECE 3T	1 SET
04-01-00795	2.5M VERTICAL LATHE DIA 2500 *H1600 , 10T	1 SET
04-01-00796	4M VERTICAL LATHE DIA 4000 *H2500,20T/30T	1 SET
04-01-00797	STATOR FRAME MACHINE MILLING & BORING MACHINE + SIDE BORING MACHINE	1 SET
04-01-00798	DIA 160 FLOOR TYPE MILLING & BORING MACHINE BORING SPINDLE DIA 160 X-AXIS TRAVEL 6000MM Y- AXIS TRAVEL 3000MM Z- AXIS TRAVEL 800MM W- AXIS TRAVEL 800MM	1 SET
04-01-00799	DIA 200 FLOOR TYPE MILLING & BRING MACHINE DIA 200*10000*5000*1500*1500WITH 2000*2000 ROTARY TABLE	1 SET
04-01-00800	DIA 250 FLOOR TYPE MILLING & BOARING MACHINE DIA 250*10000*6000*1700*1600	1 SET
04-01-00801	RAIL MILLING MACHINE W 2000*L9000	1 SET
04-01-00802	DIA 100 DRILLING MACHINE MAX. DRILLING DIA 100MM TABLE SIZE 800*1250 SPINDLE TRAVEL 500MM	1 SET
04-01-00803	DIA 50 DRILLING MACHINE MAX. DRILLING DIA 50MM	1 SET
04-01-00804	DIA 50 MOVABLE DRILLING MACHINE MAX. DRILLING DIA 50MM SPINDLE TRAVEL 315 MM TILTING ANGLE OF SPINDLE HEAD +90 - - 90	1 SET
04-01-00805	SUPPORT WITH ROLLER 40T EACH, CENTER HEIGHT ONE SET IS HIGH ANOTHER SET IS LOW	2 SET
04-01-00806	MATERIAL TEST INSTRUMENT FOR FURTHER DETAIL ITEM 15.1 - 15.14	1 SET
04-01-00807	120/20T + 75/10T CRANES GN = 120T /20T , GN=75/10T , S=21.5M,H=16M	5 SET
04-01-00808	MULTI -HEAD PRESS AND HEATING EQUIPMENT OF STATOR COIL	1 SET
04-01-00809	AUTOMATC INSULATING MACHINE LENGTH 9M,	1 SET

	BIND SPINDLE SPEED 150RPM	
04-01-00810	NIBBLER LENGTH 10M,CROSS CUTTING AREA 3MM*15MM	1 SET
04-01-00811	BENCH TYPE TRANSPOSITION MACHINE	1 SET
04-01-00812	REFRIGERATOR	1 SET
04-01-00813	BENDER FORMING OF STATOR HALF COIL END TURN	1 SET
04-01-00814	WINDING OVEN (COIL OVEN) BACKING OF STATOR HALF , 170 DEGREE CENTIGRADE	1 SET
04-01-00815	ICE-HOUSE	1 SET
04-01-00816	PURGED INSULATING ROOM	1 SET
04-01-00817	STATOR WINDING TEST EQUIPMENT	1 SET
04-01-00818	MEDIUM FREQUENCY BRAZING APPARATUS MFG70KW	1 SET
04-01-00819	PARALLEL RING FORMINGTABLE	1 SET
04-01-00820	SAWAD - OFF MACHINE 40 x 90MM	2 SET
04-01-00821	ROBLE BAR ASSEMBLY TABLE 1.2 x1 x 4 M	6 SET
04-01-00822	COIL LOADING RACKS 1.5 x 1.5M	24 SET
04-01-00823	NON - OXYGEN ANNEAL FURNACE MAX. TEMP. 700DEGREE CENTIGRADE	1 SET
04-01-00824	UNIVERSAL MILLING MACHINE WITH TOOLS (X8126)WORKING TABLE 270MM*700MMTRAVEL OF TABLE LONGITUDINAL 300MM TRAVEL OF TABLE VERTICAL 330MM HORIZONTAL SPINDLE CROSS TRAVEL 200MM VERTICAL SPINDLE 80MM	1 SET
04-01-00825	OPEN TILTING PRESS CAP. 40T, SLIDE STROKE 100MM , BLOSTER AREA (RL*FB)700*460MM	1 SET
04-01-00826	UNIVERSAL MILLIG MACHINE WITH JOINED ARM WORKING TABLE 250MM*L1120MM TRAVELL LONGITUDINAL 700MM VERTICAL 400MM TRAVEL OF TABLE CROSS 300MM	1 SET
04-01-00827	COPPER WIRE CUTTING MACHINE	1 SET
04-01-00828	STRAIGHTNER	1 SET
04-01-00829	BRUSHING AND CLEANING MACHINE	1 SET
04-01-00830	ROLLING MACHINE	1 SET
04-01-00831	UNIVERSAL MILLING MACHINE XA6132 320x1250MM	1 SET
04-01-00832	HORIZONTAL PRESS 50T	1 SET
04-01-00833	ROTOR WINDING RECTILINEAR INSULATION PRESS 8000*120, TEMP. MAX. 170DEGREE CENTIGRADE.	1 SET
04-01-00834	SAWING MACHINE MAX.T200MM	1 SET
04-01-00835	3x1200 PANEL SHEARING MACHINE	1 SET
04-01-00836	PAPER CUTTING MACHINE 1200*100MM	1 SET
04-01-00837	MIDDLE FREQUENCY INDUCTION HEATING UNIT 8.000 HZ , 100KW	1 SET
04-01-00838	VERTICAL MILLING X53K 400x1600	1 SET
04-01-00839	UNIVERSAL MILLING X63WT 420x2000	1 SET
04-01-00840	UNIVERSAL MILLING X62W 320x1250	1 SET
04-01-00841	DIA 40 RADIAL DRILL MAX. DIA 40	1 SET
04-01-00842	VERTICAL AND HORIZONTAL INTERCEPTING AND SAWING MACHINE MAX.T200MM	1 SET
04-01-00843	CIRCULAR SAWING MACHINE (BAND SAW) FACILITIES FOR CUTTING CELL	1 SET
04-01-00844	5 T CRANE MOTOR HOIST TYPE	1 SET
04-01-00845	315 PUNCHING MACHINE CAP. 315 T ,2000*1600MM	1 SET
04-01-00846	200T PRESS MACHINE 200T,930*900MM	1 SET
04-01-00847	32T MACHINE NOTCHING 32T,MAX THICKNESS 2.5 MM	1 SET
04-01-00848	LAMINATION VARNISHING LINER 300KW	1 SET

04-01-00849	BELT SANDER BELT SPEED 6 - 40M/MIN	1 SET
04-01-00850	SHARING MACHINE , TWO MAX. 3 MM	2 SET
04-01-00851	63T HUMP PUNCHING MACHINE 63T	1 SET
04-01-00852	25T HUPM PUNCHING MACHINE , TWO 25T	2 SET
04-01-00853	10T CRANE BRIDGE TYPE	1 SET
04-01-00854	SCREW LATHE	1 SET
04-01-00855	LATHE DIA 320*750MM	1 SET
04-01-00856	LATHE DIA 500*1500MM	1 SET
04-01-00857	LATHE DIA 630*1500MM	1 SET
04-01-00858	SHAPER 1000 *500	1 SET
04-01-00859	SHAPER 650*370	1 SET
04-01-00860	MILLING MACHINE 400*1600	1 SET
04-01-00861	MILLING MACHINE 425*2000	1 SET
04-01-00862	MILLING MACHINE 700*270MM	1 SET
04-01-00863	DRILLING MACHINE DIA 25MM	1 SET
04-01-00864	DRILLING MACHINE DIA 50MM	1 SET
04-01-00865	BENCH DRILLING MACHINE DIA 13MM	3 SET
04-01-00866	LATHE TC - 2/TC - 15,6" CLAMP	1 SET
04-01-00867	PRESS MACHINE 50T	1 SET
04-01-00868	OVEN	1 SET
04-01-00869	10T CRANE BRIDGE TYPE	1 SET
04-01-00870	MILING MACHINE YCM - FV 102A TABLE SIZE 1000 x 520	1 SET
04-01-00871	RAIL MILLING MACHINE XK2414 W 1400*L4000	1 SET
04-01-00872	UNIVERSAL TOOL MILLING MACHINE	1 SET
04-01-00873	MARK - OUT PLATFORM	1 SET
04-01-00874	HACK SAWING MACHINE	1 SET
04-01-00875	50/10T CRANE	1 SET
04-01-00876	SHELF	1 SET
04-01-00877	2 T FORK LIFT TRUCK	1 SET
04-01-00878	3 T BATTERY CART	2 SET
04-01-00879	150 /30 T CRANE RAIL HEIGHT 22M , RAIL WIDTH 21.5M	1 SET
04-01-00880	75/10 T CRANE RAIL HEIGHT 16M , RAIL WIDTH 21.5M	1 SET
04-01-00881	30/5 T CRANE RAIL HEIGHT 8M , RAIL WIDTH 16.5M	2 SET
04-01-00882	ASSEMBLY PLATFORM 1.5 x3.0M CAST- IRON PLATFORM	24 SET
04-01-00883	WELDING MACHINES SAW (DC/AC) , CO2 (GAW) , TIG, MAW	10 SET
04-01-00884	ARMOR PLATE PRETREATMENT MACHINE 5 - 60MM x 1.4 - 12M	1 SET
04-01-00885	FLAME NUMERICAL CONTROL CUTTING MACHINE RAIL WIDTH 6M , RAIL LENGTH 18M	1 SET
04-01-00886	SEMI - AUTO GAS CUTTING MACHINE	2 SET
04-01-00887	PLASMA ARC CUTTING MACHINE	2 SET
04-01-00888	PLATE CUT MACHINE MAX. CAPACITY 25MM x 4M	2 SET
04-01-00889	ROLLERS RECTIFICATION 6 - 16 MM , 1.5 M	2 SET
04-01-00890	300T PRESS MACHINE PLATFORM 1.6 x1.8M	1 SET
04-01-00891	DIA 100 DRILLING MACHINE MAX. DRILLING DIA 100MM	1 SET
04-01-00892	DIA 4.5M VERTICAL LATHE	1 SET
04-01-00893	HORIZONTAL LATHES	2 SET
04-01-00894	SHAPERS	2 SET

04-01-00895	MILLING MACHINES	2 SET
04-01-00896	BENCH DRILLING MACHINES	2 SET
04-01-00897	ROUNDING MACHINE MAX. CAPACITY 30MM x3.2M	2 SET
04-01-00898	1200T PRESS MACHINE	1 SET
04-01-00899	TROLLEY SUPPORT CARRYING CAPACITY 150 T	1 SET
04-01-00900	AUTO - WELD OPERATION SUPPORT AND TURNING ROLLS FOR WELDING GENERATOR FRAME SHELL	1 SET
04-01-00901	SANDBLAST ROOM AND CORRESPONDING DEVICE INSIDE CAVITY 6x6x9M	1 SET
04-01-00902	HEAT TREATMENT OVEN MAX. TEMP. 1,200	1 SET
04-01-00903	ELEVATOR HMAX 10M	2 SET
04-01-00904	CHANGING FREQUENCY UNIT SYNC MOTOR / GENERATOR 6000KVA	2 SET
04-01-00905	CHANGING FREQUENCY UNIT DC MOTOR / GENERATOR 1800KW	4 SET
04-01-00906	EXCITATION SYSTEM SYNC MOTOR 2000KVA	1 SET
04-01-00907	EXCITATION SYSTEM DC MOTOR 650 KW	2 SET
04-01-00908	PMG UNIT ASYNC MOTOR 155 KW 380V 50HZ 3 PHASE	2 SET
04-01-00909	PMG UNIT DC MOTOR 65 KW 115V 566A	4 SET
04-01-00910	PMG UNIT ASYNC MOTOR 55 KW 380V 50HZ 3 PHASE	5 SET
04-01-00911	PMG UNIT DC MOTOR 27 KW 115V 235A	10 SET
04-01-00912	PMG UNIT ASYNC MOTOR 37 KW 380V 50HZ 3 PHASE	1 SET
04-01-00913	PMG UNIT DC MOTOR 15 KW 115V 130A	2 SET
04-01-00914	HIGH VOLTAGE VACUUM BREAKER TYPE : ZN28 1250A 10KV	20 SET
04-01-00915	LOW VOLTAGE DISTRIBUTION TRANSFORMER 1000KVA 6KV/0.4KV 3PHASE POWER TRANSFORMER	1 SET
04-01-00916	SELF -COUPLED TRANSFORMER FOR STARTING SYNC MOTOR 16000 KVA STARTING WHILE VOLTAGE IA AS LOW AS 45%	1 SET
04-01-00917	LIQUID RESISTANCE CHANGER FOR STARTING DRIVING MOTOR 3200 KW	1 SET
04-01-00918	DC BREAKER FOR POWER UNIT DW3 6000A 1000A	6 SET
04-01-00919	DE-MAGNET SWITCH FOR POWER UNIT 200A - 500A	9 SET
04-01-00920	DE-MAGNET SWITCH FOR TEST SITE TYPE DW4 4000A	1 SET
04-01-00921	OIL LUBRICATING SYSTEM WATER PUMP 55KW MOTOR DRIVING 2 GEAR PUMPS UP-OIL CONTAINER 60T DOWN -OIL CONTAINER 15T + 15T	1 SET
04-01-00922	WATER SYSTEM WATER PUMP 12 SH9 792T/H 180KW MOTOR COOLING WATER POOL AND TOWER	1 SET
04-01-00923	H2 & CO2 SYSTEM	1 SET
04-01-00924	AC TENSION RESISTANCE DEVICE	1 SET
04-01-00925	LOW TENSION CONTROLLING CABINET , ETC	1 SET
04-01-00926	HIGH TENSION AND LOW TENSION CABLES	1 SET
04-01-00927	CONTROLLING ROOM	1 SET
04-01-00928	EMERGENCY POWER BATTERY AND CHANGER / BATTERY AND CHANGER	1 SET
04-01-00929	560 KVA 70 KV 8A RESONANCE , TRANSFORMER , ETC.	1 SET
04-01-00930	10KV DC CONVERTOR	1 SET
04-01-00931	INSPECTING METERS	1 SET
04-01-00932	20KVA 7KV TEST TRANSFORMER	1 SET
04-01-00933	20KVAPRESSURE REGULATOR AND ISOLATING TRANSFORMER	1 SET
04-01-00934	CONTROLLING CABINET AND MEASURING SYSTEM	1 SET
04-01-00935	TRANSFORMER FOR HEATING STATOR CORE TO BE STACKED AND TEST OF IRON CORE LOSS 1680KVA 6000V/410V-1400V , 2400A - 1200A MULTI TAP AT LOW TENSION ,	1 SET

	CHANGE VOLTAGE BY MULTI - TAP	
04-01-00936	ULTRASONIC DETECTOR GERMAN K-K DETECTORS WITH TRANSDUCERS ,ETC	2 SET
04-01-00937	X- RAY DETECTOR 300 KV	1 SET
04-01-00938	EDDY CURRENT DETECTOR INCLUDING TRANSFER DEVICE AND SENSORS	1 SET
04-01-00939	MAGNET DETECTOR 6000 A	1 SET
04-01-00940	PENATRATING DETECTOR FLURESCENT LAMP EXCLUDING THE CONSUMERS	1 SET
04-01-00941	TENSION 25T	1 SET
04-01-00942	TENSION 60T	1 SET
04-01-00943	METALLOGRAPHICAL MICROSCOPE 100X - 1000X TYPE : 300	1 SET
04-01-00944	INFRARED C-S ANALYZER LCO	1 SET
04-01-00945	ATOMIC ABSORB SPECTRUM ANALYZER PEAA 300	1 SET
04-01-00946	ROUGHNESS METER	1 SET
04-01-00947	MAGNETIC MEASURING DEVICE	1 SET
04-01-00948	IMPACT TESTER	1 SET
04-01-00949	HARDNESS METER	1 SET
04-01-00950	THERMOS-STATE MEDIUM LOSS TEST APPARATUS CONSISTING OF :1 TEST TRANSFORMER 5KVA 20KV 1 HIGH TENSION CAPACITOR 100PF 20 KV 1 HIGH TENSION BRIDGE QS37	1 SET
04-01-00951	TEST APPARATUS FOR BREAKDOWN VOLTAGE AND VOLTAGE ENDURANCE TEST TRANSFORMER	1 SET
04-01-00952	DH-90 BALANCE MACHINE (KEY FACILITIES) DH-90 PEDESTAL	1 SET
04-01-00953	MIDDLE SHAFT AND TRANSMISSION SHAFT	1 SET
04-01-00954	MEASURE SYSTEM	1 SET
04-01-00955	CABFLEXF	1 SET
04-01-00956	HYDRAULIC PRESSURE VEHICLE	1 SET
04-01-00957	OIL SUPPLY SYSTEM FOR STIFNESS WITH ADDITIONAL	1 SET
04-01-00958	MOTOR 5000KW , 3600 RPM	1 SET
04-01-00959	ASSEMBLY & ADJUSTING	1 SET
04-01-00960	ELECTRIC CONTROL SYSTEM ELECTRI CONTROL , ADJUST SPEED , MONITOR SYSTEM	1 SET
04-01-00961	MEASURE SYSTEM FOR MEASURE ROTOR VIBRATION	1 SET
04-01-00962	OIL & WATER SYSTEM WITH MEASURE & CONTROL APPARATUS FOR BEARING LUBRICATING AND INSPECTING	1 SET
04-01-00963	VENTILATION SYSTEM FOR ROTOR COOLING	1 SET
04-01-00964	HEATING COVER FOR ROTOR SEASONING	1 SET
04-01-00965	LIFT & TRANSPORT FACILITIES - LIFT FACILITIES AND RAILS	1 SET
04-01-00966	CASTING STEEL PLATE FOR INSTALL PEDESTAL & MOTOR	1 SET
04-01-00967	OTHER PARTS	1 SET
04-01-00968	SAW MACHINE	1 SET
04-01-00969	CUT -OFF MACHINE QB11 -6.3 x2000 B, S6.3 B2000MM	1 SET
04-01-00970	VERTICAL DRILL MACHINE Z 535 , DIA 35MM	1 SET
04-01-00971	BENCH DRILL MACHINE H5-36 , DIA 25MM	1 SET
04-01-00972	SHAPER B 60100A , L 1000MM	1 SET
04-01-00973	ARM DRILL MACHINE Z3050 x 16 , DIA 50MM	1 SET
04-01-00974	LATHE C 630, DIA 600 L 1400MM	1 SET
04-01-00975	MILLING MACHINE X62W	1 SET
04-01-00976	LARGE CUT -OFF MACHINE L2000MM , S80MM	1 SET
04-01-00977	SAW MACHINE (WATER FOR MACHINING LUBE)	1 SET

04-01-00978	DIAMOND BAND SAW MACHINE G5720 , S200MM	1 SET
04-01-00979	GRID WHEEL MILLING MACHINE	1 SET

SECTION D- 37- TURBINE MAINTENANCE WORKSHOP

CODE	ITEM	QTY.
04-01-00980	RADIAL DRILL MACHINE DRILL IN STEEL DIA 50MM	1 SET
04-01-00981	TURNING GEAR AND LUBE OIL SYSTEM	1 SET
04-01-00982	SPEED GOVERING SYSTEM TESTING STAND	1 SET
04-01-00983	HYDRO - TEST STAND	1 SET
04-01-00984	LARGE ASSEMBLY PIT AND PLATE	1 SET
04-01-00985	PARTIAL ASSEMBLY PLATFORM	1 SET
04-01-00986	BRIDGE TYPE CRANE 100T / 20T	1 SET
04-01-00987	BRIDGE TYPE CRANE 50T / 10T	1 SET
04-01-00988	MOTOR DRIVE FLACTOR 63 T	1 SET
04-01-00989	MOTOR DRIVE FLACTOR 25T	1 SET
04-01-00990	HORIZONTAL FLOOR TYPE BORING & MILLING MACHINE WITH ROTATING TABLE & SPECIAL ATTACHMENT HEADS BOARING SINDLE DIA 220 - 260 MM X - 3000MM Y - 6000MM W - 1500MM Z- 1500MM ROTATING TABLE 5000 x 11000 , LOADING CAPACITY 200T	1 SET
04-01-00991	HORIZONTAL FLOOR TYPE BORING & MILLING MACHINE BOARING BAR DIA 200 X - 4000MM Y - 4000MM W -1600MM Z- 2000MM , 80KW	1 SET
04-01-00992	HORIZONTAL FLOOR TYPE BORING & MILLING MACHINE BOARING BAR DIA 160 X - 3000MM Y - 3000MM W -1600MM Z- 1250MM , 55KW	1 SET
04-01-00993	DOUBLE COLUMN VERTICAL LATHE TABLE DIA 8000MM MAX. TURNING HEIGHT ON TABLE 4000MM , WORK PIECE WEIGHT 60 TONS	1 SET
04-01-00994	RADIAL DRIKING MACHINE WITH TRACK TYPE BASE DRILL IN STEEL DIA. 150MM , X- 8000 MM	1 SET
04-01-00995	BRIDGE TYPE CRANE 100T / 20T	1 SET
04-01-00996	BRIDGE TYPE CRANE 50T / 10T	1 SET
04-01-00997	HORIZONTAL LATHE TURNING DIA. 2000 , L - 10000MM ,80TONS	1 SET
04-01-00998	HORIZONTAL LATHE TURNING DIA. 3150 , L - 12000MM , 180 TONS	1 SET
04-01-00999	ROTOR SLOTTING MACHINE TWO HEADS ,22 KW X,U - 6000MM Z,W - 1200MM Y,V - 600MM WORK PIECE WEIGHT - 80 TONS	1 SET
04-01-01000	HORIZONTAL FLOOR TYPE BORING MACHINE BORING BAR DIA. 130, X -2500MM , Y - 2500MM , Z - 1100MM , 35KW	1 SET
04-01-01001	TILTING SAWING MACHINE TABLE 457X508, + 45 DEGREE	1 SET
04-01-01002	VERTICAL BENDING ROLLER	1 SET
04-01-01003	SHROUD RIVETING MACHINE	1 SET
04-01-01004	PIN - HOLE DRILLING MACHINE	1 SET
04-01-01005	ROTOR ASSEMBLY ROLLERS WORK PIECE WEIGHT 80 TONS	1 SET
04-01-01006	OVER SPEED DYNAMIC BALANCE MACHINE 50T	1 SET

04-01-01007	HEAT STABILITY TESTING EQUIPMENT DIA. 2500	1 SET
04-01-01008	LASHING LUG MANUAL ARGON -ARC WELDING MACHINE	1 SET
04-01-01009	BRIDGE TYPE CRANE 75T / 20T	1 SET
04-01-01010	BRIDGE TYPE CRANE 50T / 10T	1 SET
04-01-01011	DOUBLE COLUMN VERTICAL LATHE TABLE DIA.2500MM MAX. TURNING HEIGHT ON TABLE 1600MM	1 SET
04-01-01012	HORIZONTAL TYPE BORING & MILLING MACHINE BORING BAR DIA. 130	1 SET
04-01-01013	WELDING POSITIONER ROTATING TABLE DIA. 2000,3 TONS	1 SET
04-01-01014	WELDING POSITIONER ROTATING TABLE DIA. 4200, 20 TONS	1 SET
04-01-01015	AUTO WELDING MACHINE 500A	1 SET
	ANNEALING FURNACE 5000MM X, 3000MM X, 3000MM X,950 DEGREE	1 SET
04-01-01016	MANUAL WELDING MACHINE 400A	8 SET
04-01-01017	BOLT WELDING MACHINE NELSON	1 SET
04-01-01018	BRIDGE TYPE CRANE 20T	1 SET
04-01-01019	BRIDGE TYPE CRANE 10T	1 SET
04-01-01020	4 SPINDLE 5 AXIS BLADE MILLING MACHINE 5 AXIS MACHINING CENTER WITH SIMULTANEOUSLY DRIVEN HORIZONTAL SPINDLE , X - 1500MM , Y - 400MM , Z - 400MM, A- ROLLOVER , B - +45 DEGREE , 22KW / PER SPINDLE	2 SET
04-01-01021	1 SPINDLE 5 AXIS BLADE MILLING MACHINE	1 SET
04-01-01022	HORIZONTAL MACHINING CENTER TABLE 500 x 500MM,TWO TABLES INDEX - 1 DEGREE X 360 FOR MACHINING IN ALTERNATIVE MODE X- 800MM , Y-650MM , Z -650MM , 30KW	3 SET
04-01-01023	HORIZONTAL MACHINING CENTER TABLE 450 x 450MM,TWO TABLES INDEX - 1 DEGREE X 360 FOR MACHINING IN ALTERNATIVE MODE X- 700MM , Y-550MM , Z -550MM , 25KW	2 SET
04-01-01024	VERTICAL MILLING MACHINE TABLE 2000 x 500, X- 1320MM , Y - 500MM , Z - 600MM	1 SET
04-01-01025	PRECISION SURFACE &PROFILE GRINDING MACHINE FOR ROOT GRINDING WHEEL 400MM X 150MM X 170MM , MAX. X- 1300MM , Y- 550MM , Z- 560MM , 7.5KW	1 SET
04-01-01026	EDM WORKTANK 850MM X500MM X300MM , X- 300MM , Y-250MM , Z-300MM NOMINAL CURRENT 45A	1 SET
04-01-01027	DOUBLE SPINDLE MILLING MACHINE 500x1600	3 SET
04-01-01028	SAND HAND GRINDER	8 SET
04-01-01029	HIGH PRECISION CMM X- 800MM , Y- 600MM , Z- 600MM , WORK PIECE WEIGHT 600KG	1 SET
04-01-01030	PROJECTOR DIA. 1000	1 SET
04-01-01031	FREQUENCY MEASURING MACHINE	1 SET
04-01-01032	BLADE MOMENT MEASURING DEVICE	1 SET
04-01-01033	PT/MT INSTRUMENTATION	1 SET
04-01-01034	UNIVERSAL TOOL GRINDING MACHINE	2 SET
04-01-01035	SPECIAL GRINDING MACHINE D 295x 500	1 SET
04-01-01036	BRIDGE TYPE CRANE 10T	1 SET
04-01-01037	BRIDGE TYPE CRANE 5T	1 SET
04-01-01038	MEDIUM TEMP. VEHICLE TYPE ELECTRIC FURNACE	1 SET

	5M X(4M+4M)X5M 950 DEGREE CENTIGRADE,1500KW ,60TONS	
04-01-01039	HIGH TEMP. VEHICLE TYPE ELECTRIC FURNACE 2M X4MX1.8M 1200 DEGREE CENTIGRADE,650KW ,15TONS	1 SET
04-01-01040	HIGH TEMP. VEHICLE TYPE ELECTRIC FURNACE 1M X2MX0.6M >1000 DEGREE CENTIGRADE, 100KW ,2TONS	1 SET
04-01-01041	MEDIUM TEMP. VEHICLE TYPE ELECTRIC FURNACE	3 SET
04-01-01042	HIGH TEMP. WELL TYPE FURNACE DIA. 800x3000MM, 1200 DEGREE CENTIGRADE , 100KW 2TONS	1 SET
04-01-01043	MEDIUM TEMP. WELL TYPE FURNACE DIA. 800x3000MM, 950 DEGREE CENTIGRADE , 100KW 2TONS	1 SET
04-01-01044	OIL PRESS 60 TONS	1 SET
04-01-01045	COOLING TOWER	1 SET
04-01-01046	OIL CIRCULATION CONDENSATION SYSTEM	1 SET
04-01-01047	BRIDGE TYPE CRANE 20T / 5T	1 SET
04-01-01048	BRIDGE TYPE CRANE 5T	1 SET
04-01-01048	VERTICAL LATHE TABLE DIA. 2000MM, TURNING TEIGHT 1500 , 22KW , WORKPIECE WEIGHT 6 TONS	1 SET
04-01-01050	HORIZONTAL BORING MACHINE BORING BAR DIA. 100 , X- 1110MM , Y- 850MM, Z- 770MM, 7.5 KW WORK PIECE 2.5 TONS	1 SET
04-01-01051	HORIZONTAL LATHE TURNING DIA. 600 L- 3000MM , 11KW , WORKPIECE WEIGHT 2 TONS	4 SET
04-01-01052	HORIZONTAL MILLING MACHINE 2000 x 500 ,	2 SET
04-01-01053	UNIVERSAL GRINDING MACHINE 200 x 700 , 3KW	1 SET
04-01-01054	SURFACE GRINDING MACHINE TABLE 200x 630	1 SET
04-01-01055	BROACHING MACHINE 320 x DIA. 500	1 SET
04-01-01056	RADIAL DRILLING MACHINE DRILL IN STEEL DIA.63MM	1 SET
04-01-01057	RADIAL DRILLING MACHINE DRILL IN STEEL DIA.50MM	1 SET
04-01-01058	DEEP HOLE DRILLING MACHINE DRILL IN STEEL DIA. 20 x 1000 MM	1 SET
04-01-01059	DEEP HOLE DRILLING MACHINE DRILL IN STEEL DIA. 40 x 2000 MM	1 SET
04-01-01060	DOUBLE HEAD WIRE CUTTING MACHINE TABLE 550MM x 320MM , X - 320MM , Y- 250MM	1 SET
04-01-01061	THREAD MACHINING EQUIPMENT INTERNAL THREAD DIA. 120x50 , EXTERNAL THREAD DIA. 100 x 80	1 SET
04-01-01062	UNIVERSAL TOOL GRINDING MACHINE	4 SET
04-01-01063	CARBIDE CUTTING TOOL GRINDING MACHINE	1 SET
04-01-01064	SEND WHEEL MACHINE	4 SET
04-01-01065	HORNING MACHINE	1 SET
04-01-01066	HOBGING MACHINE DIA. 800x10 MODULE NUMBER	1 SET
04-01-01067	GEAR GRINDING DIA. 500x10 MODULE NUMBER	1 SET
04-01-01068	GEAR GRINDING MACHINE DIA. 1000x16 MODULE NUMBER	1 SET
04-01-01069	BRIDGE TYPE CRANE 10 TONS	1 SET
04-01-01070	BRIDGE TYPE CRANE 5 TONS	1 SET
04-01-01071	FLAME CUTTING MACHINE 5000 x 12000	1 SET
04-01-01072	PRESS 600T YH 32- 630	1 SET
04-01-01073	BENDING ROLLER 60 x 4200	1 SET
04-01-01074	BENDING ROLLER 20 x 2500	1 SET
04-01-01075	MIG WELDING MACHINE	18 SET
04-01-01076	AUTO WELDING MACHINE	1 SET

04-01-01077	SHEARING MACHINE 12 MM	1 SET
04-01-01078	ANNEALING FURNACE 4000 x 5000	1 SET
04-01-01079	PIPE BENDING MACHINE	1 SET
04-01-01080	SHOT BLASTING ROOM	1 SET
04-01-01081	BRIDGE CRANE 100T / 80T	1 SET
04-01-01082	BRIDGE CRANE 50T / 10T	1 SET
04-01-01083	CENTRIFUGAL POURING MACHINE D610 x 900	1 SET
04-01-01084	TIN CONTAINER D 1.5M x 1.1M	1 NO
04-01-01085	BABBITT MELTING FURNACE 500 x 600	1 SET
04-01-01086	RESISTANCE FURNACE	1 SET
04-01-01087	SPECTROSCOPIC ANALYZER WX- 4A; WKT-6 HARDNESS HRM- 450A ; HBN - 3000 THICKNESS HCC- 16 ; KJ- 200 ; MP- 12	2 FOR EVERY SIZE
04-01-01088	UT , RT, MT, PT, ENDOSCOPE INSPECTION FOR CENTER HOLE OF ROTOR	3 SET
04-01-01089	LEAKAGE TEST FLUORECENT ,WATER , BLACK LIGHT LAMP	2 SET
04-01-01090	HORIZONTAL JOINT GAP MEASUREMENT ON CASING GENERAL FEELER GAUGE	2 SET
04-01-01091	HIGH PRECISION THREE COORDINATE MEASURING MACHINE PROJECTOR USED TO CHECK BLADE PMM 866-PA 800 x600x600 1.2 +L / 350UM PMM 966 THREE COORDINATE MEASURING SPACE PRECISION : 1.2 + L/350UM JT 17 DIA. 1200 PROJECTOR PRECISION : 4 + L 50UM	3 SET
04-01-01092	RADIAL RUNOUT INSPECTION OF CENTER BORE OF ROTOR CZW 7504 0.025/0- 9000MM ; 0.05/0 - 18000MM ; 0.10/0- 36000MM CZW 7504 MAPPING & COLLIMATING COLLIMETER	1 SET
04-01-01093	SINGLE BLADE FREQUENCY TEST CF 300 0.5HZ CF 300 FREQUENCY METER	1 SET
04-01-01094	SINGLE BLADE FREQUENCY TEST SD 345 SD 345 FREQUENCY EQUIPMENT	1 SET
04-01-01095	HIGH SPEED DYNAMIC BALANCE AND OVER SPEED TEST < 1.0 GMM/KG 200T HIGH SPEED DYNAMIC BALANCING MACHINE	1 SET
04-01-01096	ALIGN CENTER OF STATIONARY ELEMENTS AND LEVEL FIT OF ADJUSTING LINER AND ECCENTRIC DOWEL PIN 87 - 417 SYNTHETIC GRADIENTER AND OPTICAL ALIGNMENT INSTRUMENT	1 SET
04-01-01097	THE FLOW PATH AND CLEARANCE SPECIAL FEELER GAUGE	1 SET
04-01-01098	EH SYSTEM , SPECIAL TEST EQUIPMENT	1 SET
04-01-01099	ROTOR DYNAMIC BALANCING MEASURING INSTRUMENT DATA SELECTION INSTRUMENT 20Q- P ADRE SOFTWARE HAND COMPUTER	1 SET 1 SET 1 SET
04-01-01100	GENERAL MEASURING TOOLS	50 NO
04-01-01101	MT DETECTOR / CSQ- 10R AC 0- 10000 A	1 SET
04-01-01102	MT DETECTOR / CEW- 6000 AC 0- 60000 A DC > 28000A	1 SET
04-01-01103	MT DETECTOR /TC - 4000 AC 0- 4000 A DC > 28800 A	1 SET
04-01-01104	MT DETECTOR /CBD- 2000 AC 0 -3000 A DC 0- 2000A	3 SET
04-01-01105	YOKE MT DETECTOR B310 PD LIFTING POWER DC > 18 KG	2 SET
04-01-01106	YOKE MT DETECTOR CEX- A LIFTING POWER AC>4.5KG DC > 18 KG	2 SET
04-01-01107	ULTRAVIOLET LIGHT LAMP/ZB 24 A 250W	2 SET
04-01-01108	X - RAY DETECTOR XXH-300 0-300KV , 0-5MA MAX. PENETRANT THICKNESS FOR IRON - STEEL IS 44MM	1 SET
04-01-01109	X - RAY DETECTOR XX-2515 0-250KV , 0-15MA	2 SET

	MAX. PENETRANT THICKNESS FOR IRON - STEEL IS 58MM	
04-01-01110	Y - RAY DETECTOR I R 192 MAX. PENETRANT THICKNESS FOR IRON - STEEL IS 50 - 100MM	1 SET
04-01-01111	ULTRASONIC DEFECTION DETECTOR USN 52	1 SET
04-01-01112	UTTRA CONIC DEFECTION DETECTOR CTS- 32 CTS - 26	3 SET
04-01-01113	ULTRASONIC DEFECTION DETECTOR USD 10	1 SET
04-01-01114	INDUSTRY VIDEO FREQUENCY ENDOSCOPE IV 8 C6 - 75	1 SET
04-01-01115	FILM FLUSHER AND READER WS - V	2 SET
04-01-01116	FILM FLUSHER AND READER NDT - M520	1 SET
04-01-01117	THREAD GUAGE M5- M150	2 FOR EVERY SIZE
04-01-01118	GO-ON-GO GUAGE M5- M150	2 FOR EVERY SIZE
04-01-01119	VARIOUS GUAGE	2 FOR EVERY SIZE
04-01-01120	THREAD MICRO METER 0- 150	2 FOR EVERY SIZE
04-01-01121	NORMAL MICROMETER 0-50	2 FOR EVERY SIZE
04-01-01122	O.D. MICROMETER 0- 500	5 FOR EVERY SIZE
04-01-01123	O.D. MICROMETER 500- 1000	3 FOR EVERY SIZE
04-01-01124	O.D.MICROMETER 1000-2000	2 FOR EVERY SIZE
04-01-01125	L.D.MICROMETER 0-500	5 FOR EVERY SIZE
04-01-01126	L.D.MICROMETER 0-1000	3 FOR EVERY SIZE
04-01-01127	L.D.MICROMETER 0-2000	2 FOR EVERY SIZE
04-01-01128	L.D.MICROMETER 0-4000	2 FOR EVERY SIZE
04-01-01129	TRI- POD MICROMETER 0-4000	2 FOR EVERY SIZE
04-01-01130	VENIER CLIPER 0-125 OR 0- 150	5 FOR EVERY SIZE
04-01-01131	VENIER CLIPER 0-1000	2 FOR EVERY SIZE
04-01-01132	DEPT VENIER CLIPER 0-200 , 0-300	5 FOR EVERY SIZE
04-01-01133	DEPT VENIER CLIPER WITH HOOD 0-500	2 FOR EVERY SIZE
04-01-01134	DEPT MICROMETER 0-300	5 FOR EVERY SIZE
04-01-01135	MULTI -FUNCTION MICROMETER	2 NO
04-01-01136	MAGNETIC METER FRAME	2 NO
04-01-01137	DIAL INDICATOR 0-5 , 0-10	5 FOR EVERY SIZE
04-01-01138	DIAL INDICATOR 0-1	2 FOR EVERY SIZE
04-01-01139	VARIOUS GUAGE (SPECIFIC)	3 FOR EVERY SIZE
04-01-01140	SA GUAGE	2 FOR EVERY SIZE
04-01-01141	ROUGHNESS COMPARTOR	2 FOR EVERY SIZE
04-01-01142	FEELER GUAGE 0 -10	10 NO
04-01-01143	TAPE MEASURE 0- 2000 , 0-5000	5 FOR EVERY SIZE
04-01-01144	STRAIGHTEDGE 0 - 400 , 0- 1000	2 FOR EVERY SIZE
04-01-01145	SPECIFIC STRAIGHTEDGE	2 FOR EVERY SIZE
04-01-01146	LOOP MEASURE 0 -3600	2 FOR EVERY SIZE
04-01-01147	SLIDE ANGLE RULER	2 FOR EVERY SIZE
04-01-01148	SQUARE	2 FOR EVERY SIZE
04-01-01149	PLATE 600 x 900	2 FOR EVERY SIZE
04-01-01150	STEEL STENCIL OF VARIOUS SIZE (LETTERS , FIRURES)	2 FOR EVERY SIZE
04-01-01151	VARIOUS STANDARD R GUAGE	2 FOR EVERY SIZE

SECTION D- 38 - CENTRAL REPAIR WORKSHOP + A917

CODE	ITEM	UNIT
04-01-01152	LATHE MACHINE SWING OVER CROSS SLIDE 0.5 M DISTANCE BETWEEN CENTRES 3M	1 PCS
04-01-01153	LATHE MACHINE SWING OVER CROSS SLIDE 0.35M DISTANCE BETWEEN CENTRES 1M	1 PCS
04-01-01154	PORTABLE AIR COOLED TIG WELDING MACHINE 5-150D.C,MAXIUM LOAD 4.8KVA AT 35 %	1 SET
04-01-01155	AC.DC WELDER WITH HIGH FREQUENCY AIR COOLED TIG WELDING 300A,24KVA	2 SET
04-01-01156	CENTRIFUGAL CASTING MACHINE FOR	1 SET

	CASTING WHITE METAL ON JOURNAL BEARINGS DIA.UP TO 250 MM LENGTH 300 MM	
04-01-01157	CIRCULAR BAND SAWING MACHINE 300MM DIA.	1 PCS
04-01-01158	DIGITAL PORTABLE HARDNESS TESTER FOR STEEL ALLOYS AND CAST IRON ALLOYS	2 SET
04-01-01159	POCKET SIZE THERMOMETRE - 40 - 550 DEGREE CENTIGRADE.	2 SET
04-01-01160	INSIDE MICROMETRE SET WITH REPLACPLE RODS 0-1000MM GRADUATION 0.001 MM	2 SET
04-01-01161	INTERNAL DIAL CALIPER SET FOR MEASURING INTERNAL BORES GRADUATIONS 0.001 MM , 0-350 MM	1 SET
04-01-01162	GENERAL PURPOSE AIR COOLED TIG TORCH 300 A AC OR DC	4 SET
04-01-01163	ARC WELDING ELECTRODE HOLDER	20 SET
04-01-01164	NON DRYING PRUSSIAN BLUE	SET 100 TUBE
04-01-01165	TURNING TOOL (DIFFERENT SIZES)	500 SET
04-01-01166	CUTTER GES (DIFFERENT SIZES)	160 SET
04-01-01167	CUTTER GEB (DIFFERENT SIZES)	90 SET
04-01-01168	CUTTING DISC Form 271 75 X2.4 X9.5 MM Product BDA24	50 SET
04-01-01169	CUTTING DISC Form271 75X3.2X9.5MM Product BDA34	50 SET
04-01-01170	ALUMINUM OXIDE ABRASIVE BELT 50X1220 MM	300 SET
04-01-01171	SANDING STARS (DIFFERENT DIA)	200 SET
04-01-01172	INTERLEAVED FINISING WHEELS	150 SET
04-01-01173	TOOL HOLDER	9 SET
04-01-01174	CARBIDE RCMX	300 SET
04-01-01175	BORING MACHINE	2 SET
04-01-01176	MULTIPLE LIMIT SWITCH DRG.NO S-E699	3 PCS
04-01-01177	BEARING ,NN4944 DRG.NO S-E0700	3 PCS
04-01-01178	BEARING NUT,AN12 DRG.NO S-E0700	4 PCS
04-01-01179	BEARING WASHR,AW12 DRG.NO S-E0700	5 PCS
04-01-01180	BEARING ,5212 DRG.NO S-E0700	3 PCS
04-01-01181	BEARING 6212 DRG.NO S-E0700	4 PCS
04-01-01182	COUPLING,MTU170 DRG.NO S-E0700	2 PCS
04-01-01183	BEARING,220TAC29 DRG.NO S-E0700	3 PCS
04-01-01184	BEARING, 6940MP6 DRG.NO S-E0700	3 PCS
04-01-01185	LIMIT SWITCH WLCA2-C DRG.NO S-E0705	4 PCS
04-01-01186	BRUSH DRG.NO S-E0705	4 PCS
04-01-01187	BEARING, AZ30711 DRG.NO S-E0705	4 PCS
04-01-01188	AC,MOTOR TOOL CHANGING METER DRG.NO S-E0705	1 PCS
04-01-01189	ELECTROMAGNETIC BREAK EFL-10S DRG.NO S-E0705	2 PCS
04-01-01190	BEARING 7210 B DRG.NO S-E0705	2 PCS
04-01-01191	BEARING , 7211 DRG.NO S-E0705	2 PCS
04-01-01192	ELECTROMAGNETIC CLUTCH EZE-25	2 PCS
04-01-01193	ONE WAY CLUTCH 5W13167 DRG.NO S-E0705	2 PCS
04-01-01194	SOLENOID VALVE	12 PCS
04-01-01195	PUMP S-E0706	1 PCS
04-01-01196	PRESSURE SWITCH S-E0708	2 PCS
04-01-01197	LIMIT SWITCH S-E0709	2 PCS
04-01-01198	BRUSH S-E0710	8 PCS
04-01-01199	ELECTRO MAGNETIC CLUTCH EKE10S S-E0710	2 PCS
04-01-01200	ELECTRO MAGNETIC CLUTCH EZE-16 S-E0711	8 PCS
04-01-01201	SOLENOID VALVE AS-230B S-E0713	4 PCS
04-01-01202	LIMIT SWITCH S-E5335	2 PCS
04-01-01203	BEARING ,6010DD S-E5335	2 PCS
04-01-01204	CLUTCH EZE-5 S-E5337	2 PCS
04-01-01205	CLUTCH EKE-45 S-E5337	4 PCS

04-01-01206	MOTOR,4P-5.5KW(GEAR BOX ASSEMBLY CTF) S-E5337	1 PCS
04-01-01207	BEARING,6004DDNR S-E5338	2 PCS
04-01-01208	CLUTCH S-E5339	2 PCS
04-01-01209	MOTOR S-E5339	1 PCS
04-01-01210	AIR CLEANER S-E5340	2 PCS
04-01-01211	PUMP P-88-3 S-E5343	1 PCS
04-01-01212	DYE PENETRANT SET USED FOR DETECTION OF SURFACE FLAWS SUCH AS CRACKS CONSIST OF PENETRANT R-1AF, DEVELOPER R- 1MF	20 SET
04-01-01213	WIRE CUT MACHINE WORKPIECE DIMENSION LENGTH 600MM WIDTH 400MM DEPTH 200 MM	1 SET
04-01-01214	MILLING MACHINE WORKING SURFACE OF THE TABLE 1600 MM x 370 MM COLUMN VERTICAL MOVEMENT 400 MM	1 SET
04-01-01215	HORIZONTAL LATHE SWING DIA . OVER BED 2000 MM DISTANCE BETWEEN CENTERS 5 M WITH HYDRULIC COPYINY ACCESORY	1 SET
04-01-01216	HORIZONTAL PRESS 300TON LENGTH 10M	1 SET
04-01-01217	SUPERJET EUTALLOY DELIVERY SYSTEM +1A - B3 - C5 TIPS + POWDER REFILL CONTAINER	1 PCS
04-01-01218	ROTOTEC 80 DELIVERY SYSTEM + POWDER REFILL CONTAINER + SPARE PARTS	1 SET + 2 PCS + 3 SET
04-01-01219	POWDER TYPE CHRMTEC 19200	27 KG
04-01-01220	POWDER TYPE CORORESIST 19300	27 KG
04-01-01221	POWDER TYPE FRIXTEC 19850	27 KG
04-01-01222	POWDER TYPE DUROTEC 19910	27 KG
04-01-01223	POWDER TYPE XUPER 19800	27 KG
04-01-01224	POWDER TYPE LUBROTEC 19985	27 KG
04-01-01225	POWDER TYPE XUPER ULTRABOND 5100	19 KG
04-01-01226	POWDER TYPE NITEC 10224	54 KG
04-01-01227	POWDER TYPE EUTALLOY 10018	27 KG
04-01-01228	POWDER TYPE CHROMTIC 10680	27 KG
04-01-01229	POWDER TYPE BRONZOCHROM 10185	27 KG
04-01-01230	WHITE METAL POWDER (BABBIT) (IF POSSIBLE TO BE APPLIED BY EITHER ROTOTEC 80 OR SUPERJET EUTALLOY DELIVERY SYSTEM	54 KG
04-01-01231	THE CLEAN AIR 250 PORTABLE FUME EXTRACTOR	1 SET
04-01-01232	ELECTRIC ARC WELDING RODS FOR ARC WELDING DIA. 3.25MM ESAB TRADE NAME OK 92.78 AWS A5.15 : ENICUB	100 KG
04-01-01233	ELECTRIC ARC WELDING RODS FOR ARC WELDING DIA. 3.25MM ESAB TRADE NAME OK 92.58 AWS A/SFA 5.15 : ENIFE - C1	100 KG
04-01-01234	ELECTRIC ARC WELDING RODS FOR ARC WELDING DIA. 3.25MM ESAB TRADE NAME OK 92.18 AWS A/SFA 5.15 : ENI-C1	100 KG
04-01-01235	ELECTRIC ARC WELDING RODS FOR ARC WELDING DIA. 3.25MM ESAB TRADE NAME OK 63.35 AWS A/SFA 5.4 :E316 L - 15	200 KG
04-01-01236	ELECTRIC ARC WELDING RODS FOR ARC WELDING DIA. 3.25MM ESAB TRADE NAME OK 67.70 AWS A/SFA 5.4 : E 309 MO - 16	200 KG
04-01-01237	ELECTRIC ARC WELDING RODS FOR ARC WELDING DIA. 3.25MM ESAB TRADE NAME OK 48.00 AWS /SFA A5.1 : E 7018	500 KG
04-01-01238	AIR JET CARBON ARC TORCHES (GENERAL PURPOSE MODEL)	1 NO
04-01-01239	TOOL POST GRINDER KIT (EXTERNAL / INTERNAL 220 V 1 PHASE 50 HZ	1 SET
04-01-01240	PNEUMATIC BELT SANDER USING BELT SIZE 2" x 48" FOR USE ON LATHES TO GRIND EXTERNAL DIA.	2 SET
04-01-01241	SINGLE STONE DIAMOND DRESSERS FOR WHEELS DIA 24" - 36"	2 SET
04-01-01242	SINGLE STONE DIAMOND DRESSERS FOR WHEELS WIDTH 22"	2 SET

SECTION -D- 39 - BOILER MAINTENANCE WORK SHOP

CODE.	ITEM	QTY
04-01-01243	SHEARS (GUILLOTINE AND ROLLER) , MACHINED SHEET 50 MM THICK INTO 4000 MM WIDTH	1 SET
04-01-01244	HYDROLIC PRESS 2500 TON	2 SET
04-01-01245	EDGE PLATING MACHINE – TOOL 8000 X 200 X2000	2 SET
04-01-01246	STRAIGHTENING ROLLERS , MACHINED SHEET dia 50 MM THICK INTO 3500 MM WIDTH	2 SET
04-01-01247	BENDING ROLLERS , MACHINED SHEET UP TO 45 MM THICK INTO 1800 MM WIDTH	2 SET
04-01-01248	CUTTING MACHINE CROS SECTION 300 X 300 MM	2 SET
04-01-01249	UNIT FOR WELDING GIRDERS OF BOX SECTION AND DOUBLE T – SECTION , WELD LENGTH 18000 MM .	2 SET
04-01-01250	SUBMERGED ARC , WELDING UNIT OR SHEET WELDING STEEL THICKNESS , UP TO 100 MM WELD LENGTH , UP TO 3000 MM	2 SET
04-01-01251	TUBE – CUTTING OFF MACHINE (SINGLE POINT , CIRCULAR , ABRASIVE,) MACHINED TUBE–DIAMETER (25 – 300 MM)	2 SET
04-01-01252	TUBE – FACING MACHINE , MACHINED TUBE – DIAMETER , UP TO DIA 50 MM	2 SET
04-01-01253	TUBE BENDING MACHINE , ROLLING MILL MACHINED TUBE – DIAMETER , UP TO DIA 25 DIA 60 MM	2 SET
04-01-01254	TUBE PANEL BENDING MACHINE , BENDING RADIUS , DIA 150 – DIA 450 MM	2 SET
04-01-01255	BUTT RESISTANCE WELDING MACHINE , WELDED TUBE DIAMETER , DIA 3 – DIA 25 + DIA 6 – DIA 83 BILLET LENGTH , UP TO 900 MM	2 SET
04-01-01256	UNIT FOR WELDING HEADERS WELDED TUBE – DIAMETER , DIA 108 - - DIA 600 MM BILLET LENGTH , UP TO 20000 MM	2 SET
04-01-01257	SPECIALIZED UNIT FOR TUBE MEASURING AIR – PLASMA TUBE DIAMETER DIA 40 WALL THICK 1.5 MM BILLET LENGTH 7500 MM SIMULTANEOUSLY MADE CUTTINGS	2 SET
04-01-01258	VKW UNIT FOR WELDING GAS TIGHT PANELS WELDED TUBE DIAMETER , DIA 27 - DIA 100 MM PANEL 800 – 3000 PANEL WIDTH , UP 30000	2 SET
04-01-01259	TUBE SPIRAL FINNING MACHINE TUBE DIAMETER , DIA 22 – DIA 60 RIB HEIGHT UP TO .0.4 DIA RIBBING LENGTH , UP TO 15000 MM .	2 SET
04-01-01260	INSPECTED STEEL THICKNESS , UP TO 120 MM ULTRASONIC APPARATUS , RANGE OF INSPECTED STEEL CANCELLED OF WELDS 3 – 300 MM	2 SET

	FOR ROLL STOCK > 10 FOR PLATE > 0 – 5	
04-01-01261	ULTRASONIC UNIT RANGE OF INSPECTED DIAMETERS , (10 – 830 MM) RANGE OF TUBE THICKNESS (S) , 1 MM – 80 MM MINIMAL DETECTED DETECT 0.0456	2 SET
04-01-01262	VACUUM LEAK DETECTOR	2 SET
04-01-01263	VACUUM PUMP ,	2 SET
04-01-01264	TESTER (DEPHLECTOSCOPIC) , WIDTH OF DISCONTINUITY , MKM ; FOR MAGNETIC PARTICLE TESTING > 10 FOR DIE PENETRANT TESTING > 1 FOR FLORESCENT PENETRANT TESTING < 1	2 SET
04-01-01265	HEAT TREATMENT FOR SPARE PART OF BOILER COMPONENTS	18 SET
04-01-01266	FLAME CUTTING MACHINE WITH CNC THICKNESS WIDTH 5 – 200 SHEET WIDTH , 36000 MM	2 SET
04-01-01267	SPECIALIZED TUBE – BENDING MACHINE TOOL WITH HFC MACHINED TUBE – DIAMETER DIA 140 X 10THICK DIA 426 X 10 THICK	2 SET
04-01-01268	VKW ARGON – ARC WELDING UNIT FOR TUBE WELDING WELDED TUBE DIAMETER , DIA 32 – DIA 60 MM WELDED TUBE WATTLE LENGTH , < 20000	2 SET
04-01-01269	VKW UNIT FOR WELDING GAS – TIGHT PANELS WELDED TUBE DIAMETER DIA 27 – DIA 100 MM PANEL WIDTH 800 – 3000 MM PANEL LENGTH UP TP 27000	2 SET
04-01-01270	UNIT FOR WELDING BEAMS WELD LENGTH 15000 MM	2 SET
04-01-01271	UNIT FOR WELDING HEADERS WELDED TUBE DIAMETER DIA 108 – DIA 600 MM BILLET LENGTH UP TO 20000 MM	2 SET
04-01-01272	SHOT PLASTINGMACHINE PRODUCTIVITY , SQ .M / MIN < 26 .8	2 SET
04-01-01273	UNIT FOR CHAMBERLESS PAINTING MAXIMAL PRODUCT DIMENSION , 9400 X 3000 X 2400 CHAMBER DIMENSION 3M X 2.5M X 9.5M	2 SET
04-01-01274	DRYING CHAMBER MAXIMAL PRODUCT DIMENSION , 9400 X 3000 X 2400 CHAMBER DIMENSION 3M X 2.5M X 9.5M	2 SET
04-01-01275	IMPULS UNIT FOR AIRLESS SPRAYING PRODUCTIVITY . L / MIN 0.45 – 1.10	2 SET
04-01-01276	PNEUMATIC PAINT SPRAYER CO – 71A PRODUCTIVITY . L / MIN 0.45 – 1.10	2 SET
04-01-01277	UNIT FOR AUTOMATIC TUBESCOLDING IN TUBE PLATES TUBE DIAMETER , DIA 6 – DIA 32 MM	2 SET
04-01-01278	RANSOME , ESAB MILL FOR AUTOMATIC SUBMERGED ARS – WELDING WELDED SHELL DIAMETER DIA 400 – DIA 4100 MM VESSEL BODY LENGTH < 30000	2 SET
04-01-01279	FIN SHAPING	2 SET

	MACHINE MACHINED BAND (WIDTH X THICKNESS) 16 X 0.8 MM	
04-01-01280	TUBE CUTTING MACHINE MACHINED TUBE DIAMETER , < 60	2 SET
04-01-01281	TUBE BENDING MACHINE MACHINED TUBE DIAMETER , < 60	
04-01-01282	LONGITUDINAL TUBE BENDING MACHINE TUBE DIAMETER , DIA 16 X DIA 2 MM RIB HEIGHT , 8.5 MM RIBBED TUBE LENGTH , < 5000	2 SET
04-01-01283	UNIT FOR LOCAL HEAT TREATMENT OF CIRCULAR WELDS , OPERATING TEMPERATURE < 800 DEGREE CENTIGRADE. PRODUCT DIAMETER , < 700 HEATING ZONE LENGTH , < 500	2 SET
04-01-01284	AUTOMATIC MILL FOR SHEET CUTTING ON THE BASIS OF GUILLLOTINE SHEARS MACHINED SHEET (THICKNESS X WIDTH) 6.3 X 3150	2 SET
04-01-01285	HYDROLIC PRESS FOR STAMPING AND TESTING DISK SPANNGS. FORCE . TF 125 ; 250	2 SET
04-01-01286	MACHINE COILING ROD DIAMETER 8 – 40 MM SPRING HEIGHT < 500 MM	2 SET
04-01-01287	ELECTRIC CHAMBER FURNACES FOR HEAT TREATMENT OF COIL SPRINGS OPERATING TEMPERATURE < 1100 DEGREE CENTIGRADE . MASS OF LOADING , KG < 800	2 SET
04-01-01288	NUT CUTTING AUTOMATIC MACHINE THREAD SIZE M 6 – M 24	2 SET
04-01-01289	SEMI – AUTOMATIC MACHINE FOR CUTTING AND ROLLING EXTERNAL THREAD , THREAD SIZE M1 – M 100	2 SET
04-01-01290	SPRING COILING AUTOMATIC MACHINE , WIRE DIAMETER 1.2	2 SET
04-01-01291	AUTOMATIC LATHE , MACHINED ROD DIAMETER < 40 MM LENGTH < 4000 MM	2 SET
04-01-01292	TURRET LATHE MACHINED ROD DIAMETER < 40 MM	2 SET
04-01-01293	GEAR CUTTING SEMIAUTOMATIC MACHINE GEAR MODULE DIA 15 MM DIAMETER < 800	2 SET
04-01-01294	TUBE BENDING MACHINE DIA 31-63.5 MM , BENDING CAPACITY 63 MM DIA TUBE , TUBE MAX. TENSILE STRENGTH 70 KG / MM2	1 SET
04-01-01295	CALIBRATION AND STRAIGHTNESS MACHINE FOR BARS AND STRIPS SPECIALLY USED FOR MANUFACTURING STEAM BOILER PANELS WIDTH 9 TO 100MM , THICKNESS 5 TO 8 MM , CALIBRATION PRECISION 0.1MM ,SPEED -5 M/MIN	1 SET
04-01-01296	AUTOMATIC SUBMARGED ARC-WELDING MACHINE FOR WELDING WATER PANEL TUBES FOR BOILER WITH THE FOLLOWING SPEC. WELDING HEAD IS FIXED AND PANEL TUBE ARE MOVING WITH CLAMPING & FIXTURES , CONSIST TWO WELDING HEADS , MAX. WIDTH OF PANEL TO BE WELDED 1000MM , MAX. LENGTH 12000 MM	2 SET

04-01-01297	AUTOMATIC SUBMARGED ARC-WELDING MACHINE FOR WELDING WATER PANEL TUBES FOR BOILER WITH THE FOLLOWING SPEC. BRIDGE TYPE HEAD IS MOVED AND PANEL IS FIXED , POWER SOURCE RECTIFIRE TYPE , MAX. WIDTH OF PANEL TO BE WELDED 3500MM , MAX LENGTH 12000MM	1 SET
04-01-01298	CUTTING -OFF MACHINE FOR MAKING WINDOWS IN PANELS, PNEUMATIC OR ELECTRIC : WORKING DIMENSIONS 1850 *860MM , SPINDLE VERTICAL MOVEMENT 150 MM	3 SET
04-01-01299	LAPPING MACHINE DIA 31-76 MM , LENGTH MAX. 13000 M	3 SET
04-01-01300	PORTABLE PNEUMATIC PIPE BEVELING M/C FOR BEVELING TUBE ENDS , EQUIPPED WITH LOCKING DEVICE DIA 28-76MM ,AIR PRESSURE 6KG/CM2 , CLEARANCE BETWEEN TUBES 40MM .	1 SET
04-01-01301	PORTABLE PNEUMATIC M/C FOR REMOVING WELDS AND MACHINING NEW SEATS IN HEADER DRUM ,DIA 31-76MM , DIA OF HEADER DRUM MAX.2000MM	1 SET
04-01-01302	CONVENTIONAL SET OF ROLLER POSITIONER ONE MOTORIZED AND ONE IDLER ,MOVING ON RAILS ,DISTANCE BETWEEN CENTERS 1800MM, MAX DIA OF WORKPLACE 1000-5000 MM ,MAX LOAD 200T	2 SET
04-01-01303	DITTO BUT MAX. LOAD 80 TON	4 SET+C843
04-01-01304	DITTO BUT MAX. LOAD 50 TON	6 SET
04-01-01305	DITTO BUT MAX. LOAD 30 TON	8 SET
04-01-01306	X -RAY TELEVISION CONTROL OF WELDED JOINT TUBE	1 SET
04-01-01307	BENDING ROLLERS M/C SHEET UP TO 180MM ,THICK IN TO 3000MM WIDTH	1 SET
04-01-01308	DRILLING M/C WITH 17 - 35 SPINDLES	1 SET
04-01-01309	FLANGING FOR TUBES IN PANELS O.D. 32 -76	1 SET
04-01-01310	PIN WELDING MACHINE 1000 A	4 SET
04-01-01311	STEEL SHEET STRAIGHTENING ROLLING MACHINES,THICKNESS 3-5MM , WIDTH NOT LESS THAN 2.5M , LENGTH OF FEED AND INTAKE ROLLER TABLES 12M , MIN. NO. OF STRAIGHTENING ROLLERS 7	1 SET
04-01-01312	SECTION STRAIGHTENNG EQUIPMENT MAX. SECTION HEIGHT 300MM , MAX. SECTION LENGTH 12MM	1 SET
04-01-01313	MILLING CUTTING MACHINE DIA OF CUTTER NOT LESS THAN 1100MM , LENGTH OF FEED AND INTAKE ROLLER TABLES 12M	1 SET
04-01-01314	WEBS AND FLANGES IN ROLLED SECTIONS MAX. SECTION HEIGHT 300MM , MAX. FLANGE THICKNESS 11M ,MAX. WEB THICKNESS 6.5MM	1 SET
04-01-01315	PORTABLE WELDING MACHINES TO BE EQUIPPED WITH GUIDES AND FLAX BED	6 SET
04-01-01316	GAS CUTTING MACHINES TO BE REPAIRED AND ADJUSTED	20 SET
04-01-01317	TUBE TO TUBE SHEET AUT WELDING MACHINE	1 SET
04-01-01318	MECHANICALLY TUBE EXPANSION MACHINE	2 SET
04-01-01319	FREON LEAK DETECTOR	1 SET
04-01-01320	VACUUM PUMP	1 SET
04-01-01321	WELDING EQUIPMENT (CO2, MANUAL GAS ,TUNGSTEN ARC WELDING MACHINE .. ETC.)	20 SET
04-01-01322	SMALL RADIUS SQUEEZING & SIZING MACHINE & THE SPPORTING EQUIPMENT (O.D.32-76 MM, R 0.6 - 1.5)	1 SET
04-01-01323	SADDLE -SHAPE CUTTING MACHINE (O.D. 1200MM)	1 SET
04-01-01324	SADDLE -SHAPE WELDING MACHINE (O.D. 1200MM)	1 SET
04-01-01325	CLADDING EQUIPMENT FOR THE TUBESHEET	1 SET
04-01-01326	LOCAL HEAT TREATMENT EQUIPMENT	1 SET
04-01-01327	HYDRAULIC TEST PUMP (600KG/CM2)	2 SET

SECTION -D- 40 - AIRHEATER REPAIR MAINTENANCE WORKSHOP

CODE	ITEM	QTY.
04-01-01328	HYDRULIC PRESS BRAKES	1 PCS
04-01-01329	HYDRULIC SWING – BEAM SHEARS	1 PCS
04-01-01330	PRECISION LATHES	1 PCS
04-01-01331	SURFACE GRINDING MACHINE	1 PCS
04-01-01332	HYDRAULIC BENDING MACHINE SHEET THICKNESS : 20 MM SHEET WIDTH : 3000 MM	1 PCS
04-01-01333	HYDRAULIC BENDING MACHINE CAPACITY 3000 X 12MM	1 PCS
04-01-01334	HYDRAULIC PROFIL BENDING MACHINE	1 PCS
04-01-01335	HOT LAYER FORMING LINE	1 PCS
04-01-01336	COLD LAYER FORMING LINE	1 PCS
04-01-01337	AUTOMATIC HYDRAULIC TUBE BENDING MACHINE	1 PCS
04-01-01338	SHEET FOLDING	1 PCS
04-01-01339	NIBBLING MACHINE.	1 PCS
04-01-01340	SLOTING MACHIN	1 PCS
04-01-01341	WELDING RECTIFIER CURRENT RANGE :UP TO 400 DCA.	10 PCS
04-01-01342	WELDING RECTIFIER CURRENT RANGE :UP TO 550 DCA.	10 PCS
04-01-01343	SPOT WELDING	1 PCS
04-01-01344	HYDRAULIC PRESS	1 PCS
04-01-01345	CONTINOUS SPOT WELDING	1 PCS
04-01-01346	RECIPROCATING SAW	1 PCS
04-01-01347	PRECISION LATHES	1 PCS
04-01-01348	BAND SAW MACHINE	1 PCS
04-01-01349	PUNCH PRESS (FLY PRESS) CAPACITY 40 TON	2 PCS
04-01-01350	PUNCH PRESS (FLY PRESS) CAPACITY 60 TON	1 PCS
04-01-01351	PUNCH PRESS (FLY PRESS) CAPACITY 100 TON	1 PCS
04-01-01352	TUBE EXPANSION FORMING PRESS	1 PCS
04-01-01353	ARGON WELDING MACHINE	1 PCS
04-01-01354	INERT-GAS WELDING MACHINE	2 PCS
04-01-01355	LONGITUDINAL WELDING MACHINE	1 PCS
04-01-01356	INSULATED FLEXABLE CABLES COPPER CONDUCTER CLASS 2 0.6KV MAX.	10 KM
04-01-01357	3 PHASE NO FUSE CIRCUIT BREAKERS	20 NO
04-01-01358	OXY - GAS TORCHS + HOSE + CYLINDER PRESS REGULATORS	1 SET
04-01-01359	ANGLE GRINDERS	2 SET
04-01-01360	CHaine BLOCKS VARIOUS CAPACITIES	10 NO
04-01-01361	TER - FOR VARIOUS CAPACITIES	10 NO
04-01-01362	INDUCTION HEAT TREATMENT SET WITH ACCESSORIES FREQUENCY 1150 HZ WITH TEMP. CONTROLLER	2 SET
04-01-01363	40 V - AC 60W LIGHT BULBS WITH 220/40 V AC TRANSFORMERS WITH ADAPTORS	10 NO
04-01-01364	TUBE EXPANDER SET RANGE 18MM TO 25MM .	1 SET
04-01-01365	PIPE EXPANDER SET RANGE 46MM TO 56 MM	1 SET

SECTION -D-41 - TRANSFORMER MAINTENANCE WORK SHOP

CODE	ITEM	QTY
04-01-01366	HYDRAULIC SHEAR CAPACITY UP TO 50 MM THICKNESS MAX . SHEET WIDTH 3000 MM	1 SET
04-01-01367	PUNCHING MAX THICKNESS 10 MM , 30 TON THREAD DEPTH = 1250 – 1500 MM	1 SET
04-01-01368	IN CIRCUIT TESTER * DIGITAL STORAGE OSCILSCOPE. EPROM / ROM VERIFICATION . SELF DOCUMENTING TEST SEQUENCES .	2 SET
04-01-01369	HYDROLIC PRESS BRAKE CAPACITY BENDING 15 MM MAX. BENDING HEIGHT 3000 MM .	1 SET
04-01-01370	TESTING STAND FOR NO LOAD SHORT CIRCUIT INDUCED VOLTAGE TESTING	1 SET
04-01-01371	HIGH VOLTAGE LABORATORY	1 SET
04-01-01372	AUTOMATIC LINE FOR INSULATING THE CU AND AL CONDUCTORS CONDUCTOR DIMENSION DIA 1.5 X 8 MM – 20 X 30 MM	2 SET
04-01-01373	COIL DRYING OVEN MAX TEMPERATURE 110 DEGREE CENTIGRADE .	1 SET
04-01-01374	VIG- WELDING EQUIPMENT	1 SET
04-01-01375	DRILLING MACHINE WITH BASE –PLATE AND COOLING INSTALLATION	1 SET
04-01-01376	RADIAL DRILLING MACHINE	1 SET
04-01-01377	COMPACT SHEET METAL WORKING MACHINE FOR PUNCHING PROFILING AND FORMING	1 SET
04-01-01378	PRIMING AND PAINTING PLATFORM IN ANTIEXPLOSIVE CONSTRUCTION WITH LATERAL WALLS	1 SET
04-01-01379	SLITTING LINE FOR ELECTRICAL STEEL STRIP – SHEAR ARBOR DIA 160 MM CUTTER DIAMETER DIA 160 MM IN GOING STRIP WIDTH 1000MM	1 SET
04-01-01380	PACKING OF THE CORES INSTALLATION	1 SET
04-01-001381	SCISSOR FOR CIRCULAR OUT LINE – RING DIA 250 – 3000 MM .	1 SET
04-01-01382	VERTICAL INTERNAL THREADING MACHINE – MAX . INTER . THREAD DIA M20 M30	1 SET
04-01-01383	50 MVA UNIT CONDENSATORS BATTERY 125 MVAR	1 SET
04-01-01384	PANTOGRAF ENMGRAVING MACHINE WORKING SURFACE OF TABLE 200 X 320 MM	1 SET
04-01-01385	MILLING MACHINE FOR WEDGES WITH MILL TURNING 4900 R.P.M	1 SET
04-01-01386	CYLINDER DRYING OVEN . TEMP MAX 90 DEGREE CENTIGRADE	1 SET
04-01-01387	MILLING MACHINE FOR WEDGES	1 SET
04-01-01388	VERTICAL WINDING MACHINE . MAX . LOAD ON SUPPORT PLATE 20 TON .	3 SET
04-01-01389	HORIZONTAL WINDING MACHINE . MAX. COIL DIA 1800 MM .	1 SET
04-01-01390	HYDRAULIC PRESS OF 400 TF FOR TRANSFORMER COILS COIL MAX. SIZE DIA3000 - 5000 MM	1 SET
04-01-01391	TWO GIRDER BRIDGE CRANE S DIFFERENT CAPACITY LIFTING CAPACITY 32 TF OPENING 16 – 5 M .20 , 40 , 30 TONS	4 SET
04-01-01392	TWO GIRDER BRIDGE	1 SET

	CRANE LIFTING CAPACITY 320/80 TF OPENING 28 M .	
04-01-01393	HYDROLIC SHEET BENDING PRESS USEFUL LG OF TABLE 4050 MM	1 SET
04-01-01394	SHEET ROLLING MACHINES SHEET THICKNESS = 30 MM MAX . SHEET WIDTH = 3000 MM AND SHEET THICKNESS = 16MM MAX . SHEET WIDTH = 14000 MM NO . OF ROLLERS = 4	2 SET
04-01-01395	TRANSFORMER LAMINATION CUT – TO – LENGTH LINE LENGTH 500 – 1000 MM WIDTH 100 – 1050 MM	1 SET
04-01-01396	OIL TREATMENT STAND ADJUSTABLE FLOW 1500 – 4000 L / MIN	1 SET
04-01-01397	VACUUM PUMPS 3000 LITER/MIN UP TO 0.05 TORR WITH MECHACNICAL BOOSTER AND VACUUM HOSE	6 NO
04-01-01398	DRYING OVENS 110 +10 DEGREE CENTIGRADE SIZE 12 L X6.5W X 5H METER	2 NO
04-01-01399	OIL JACK (20) TON	10 NO
04-01-01400	OIL PURIFIRE 6000 LITER/H	2 NO
04-01-01401	DRY AIR GENERATOR 2-3 CUBIC METER MIN	2 NO
04-01-01402	DEW POINT METER / RANGE LESS THAN – 30 DEGREE CENTIGRADE	2 NO
04-01-01403	OXYGEN DENSITY METER	2 NO
04-01-01404	MOISTURE TESTER	2 NO
04-01-01405	OIL TESTER	2 NO
04-01-01406	GAS MEASURING DEVICE	2 NO
04-01-01407	PARTIAL DISCHARGE TEST EQUIPMENT	2 NO
04-01-01408	INSULATING PRESS BOARD , PAPER AND CRAPE TAPE OF DIFFERENT SIZES	1000 TON
04-01-01409	TOOLS , MATERIAL AND ACCESSARIES FOR MAINTENANEE AND REPAIR OF POWER TRANSFORMAR	3 SET
04-01-01410	HIGH VOLTAGE TEST EQUIPMENT FOR POWER TRANSFORMAR	3 SET
04-01-01411	400KW KEROSENE VIBOR-PHASE DRYING UNIT ,ORIGINAL ROOM INCLUDING AUTODARE,VACUUM SYS. KEROSENE SYS.,OIL SYS., COOLING SYS. AND CONTROL SYS. AND PIPING .	1 SET
04-01-01412	ELECTRIC ASSEMBLY PLATFORM BASEMENT LOAD 15T	1 SET
04-01-01413	STORING TANK FOR FILTERED OIL	1 NO
04-01-01414	GEAR OIL PUMP RATED FLOW 38M3 / MIN	1 NO
04-01-01415	GEAR OIL PUMP RATED FLOW 18M3 / MIN	1 NO
04-01-01416	INTERMIDIATE OIL TANK VOLUME 10 T	1 NO
04-01-01417	TAPING MACHINE FOR LOAD THE RAPED LENGTH 13M	1 NO
04-01-01418	BRAZING MACHINE	2 NO
04-01-01419	WASTE OIL COLLECTING PLATE FORM DIMENTION 12 x 6M	1 NO
04-01-01420	GEAR OIL PUMP RATED FLOW 3.3 M3 / H	1 NO
04-01-01421	WASTE OIL STORAGE TANK VOLUME 2.8 M3	1 NO
04-01-01422	OIL HEATING SYSTEM Q= 1200 L/H	1 NO
04-01-01423	COLD PRESSING & WELDING EQUIPMENT	1 NO
04-01-01424	ROTARY PISTON PUMP ULTIMATE VACUUM PRESSURE 1.3PA	2 NO
04-01-01425	CONDENSOR 75 M2	1 NO
04-01-01426	SEPARATOR SINGLE CHAMBER	1 NO
04-01-01427	BUTT WELDER RATED CAPACITY 25 KVA ,SINGLE PHASE , PRIMARY VOLTAGE 380 V STEPS OF SECOND WINDING REGULATION 8 . THE OFF - LOAD VOLTAGE & SECOND WINDING 1.76 - 3.5 V	2 NO
04-01-01428	MANDREL EXPANSION RANGE 1000 - 1500MM NUMBER OF BARS 24 , WIDTH OF BAR 100MM ,	2 NO

	EFFECTIVE HEIGHT 3100 MM LOAD 7 T	
04-01-01429	MANDREL EXPANSION RANGE 500 - 2000MM NUMBER OF BARS 30 WIDTH OF BAR 100MM , EFFECTIVE HEIGHT 3100MM LOAD 10 T	2 NO
04-01-01430	OVERHEAD CRANE WITH REMOTE CONTROL 32T , WITH GERMANY ORIGIN REMOTE CONTROL	1 NO
04-01-01431	MOTOR TROLLY LOAD 40 T	1 NO
04-01-01432	ASSEMBLY PLATFORM FOR WINDING	3 NO
04-01-01433	WINDING TILTING MACHINE CARRY WEIGHT 20 T	1 NO
04-01-01434	HOT PRESS THE DIMENSION OF WORKING TABLE 3.2 x 3.2M , WORKING TEMPERATURE 160 + DEGREE CENTIGRADE	1 NO
04-01-01435	RIBS PRESSING MACHINE	1 NO
04-01-01436	MILLING MACHINE FOR MULTI- RIBS HEIGHT OF WORK TABLE 820MM , LENGTH AND WIDTH OF WORKING TABLE 2 x0.5 M MILLING SPEED 100 MM / S	1 NO
04-01-01437	CUTTING MACHINE FOR INSULATION PAPER MAX. DE -COILING DIA 760MM ,NUMBER OF REWINDING SHAFTS 2	1 NO
04-01-01438	TAPING MACHINE FOR ELECTROSTIC TAPING DIA 1 - 3M	1 NO
04-01-01439	BAND SAW SAWING WIDTH x THICKNESS 580 x 230 MM	1 NO
04-01-01440	CRANE WITH REMOTE CONTROL 5 T	1 NO
04-01-01441	BURR REMOVING MACHINE	1 NO
04-01-01442	INSULATOR MANUFACTURE CENTER , WORKING TABLE DIMENSION 3x3M , THE KNIFE CAN BE MOVED TO 16 POSITION	1 NO
04-01-01443	AUXILIARY TOOLS	LOTS
04-01-01444	STACKING FIXTURES DIMENSION OF STACKING TABLE 10x4.5 x0.59M , CARRY LOAD 150T	1 NO
04-01-01445	PUNCH SHEAR DISTANCE FROM MOVING MODULE CENTER TO BODY 210MM DIMENSION OF WORK TABLE 460x 700MM	1 NO
04-01-01446	PLATE MILLING MACHINE DIMENSION OF WORKING TABLE 320 x1000 MM	1 NO
04-01-01447	MOTOR TROLLY LOAD 63 T	1 NO
04-01-01448	BINDING MACHINE FOR CORE	1 NO
04-01-01449	FLAME PLASMA CUTTING MACHINE LENGTH OF RAIL 16M CUTTING THICKNESS 4 - 20 MM	1 NO
04-01-01450	HYDRAULIC CUTTING MACHINE THICKNESS x WIDTH 16x3100 MM	1 NO
04-01-01451	HYDRAULIC PIPE BENDING MACHINE DIA 25 - 108 MM	1 NO
04-01-01452	CO2 WELDING MACHINE CONTINUE RATIO UNDER RATED LOAD 60%	5 NO
04-01-01453	WELDING TABLE 12 x 6M	3 NO
04-01-01454	SHOT - BOASTING EQUIPMENT 10 x7.5 x5	1 SET
04-01-01455	WATER -ROTATING PAINT BOOTH 12 x 6 x 5 M	1 NO
04-01-01456	MOTOR TROLLEY 40 T	1 NO
04-01-01457	BOLT WELDING MACHINE BOLT DIAMETER 4 - 24 MM ,CURRENT 1450A	1 NO
04-01-01458	LEAKING TESTING AND OTHER EQUIPMENT , TOOLS	1 SET
04-01-01459	GENERATOR SET 15000 KVA , 50 HZ	1 SET
04-01-01460	GENERATOR SET 2000 KVA , 200 HZ	1 SET
04-01-01461	INTERMEDIATE TRANSFORMER 16000 KVA	1 NO
04-01-01462	POWER FREQUENCY TESTING TRANSFORMER 1600 KVA ,2 x400KV 50 HZ	1 NO
04-01-01463	IMPULSE VOLTAGE GENERATOR 2400 KV	1 NO
04-01-01464	OIL TANK FOR TESTING DIA 3M , H 3.5 M	1 NO
04-01-01465	HR SWITCH BOARD	1 NO
04-01-01466	AIR - CUSHION WAGON 300 T	1 NO

04-01-01467	DRYING EQUIPMENT HEATING RESISTANCE -WIRE TO WARPED OUTSIDE OIL TANK AND ONE SET OF 1200M3 /MIN VACUUM UNIT	1 SET
04-01-01468	OIL CHARGIN EQUIPMENT TREATMENT CAPACITY 1200 M3 / MIN	1 SET
04-01-01469	SPARE PARTS FOR MACHINES AND EQUIPMENTS	SETS
04-01-01470	COPPER INSULATED WIRE AND BUS BARS (MILD HARDNESS TRANSPOSED CONDUCTORS , COMBINATION)	1000 TON
04-01-01471	STEEL SHEET 3 -50 MM THICKNESS	500 TON
04-01-01472	SILICON SHEET DIFFERENT THICKNESS AND TYPES	1000 TON
04-01-01473	POWER TRANSFORMER ACCESSORIES BUSHINGS ,RADIATORS , PROTECTION DEVICES, CURRENT TRANSFORMER VOLTAGE , SWITCH OTHERS .	LOTS
04-01-01474	SEAM WELDER MAX. WELDING FORCE 400KG (5KG/CM2) , STROKE OF ELECTRODE FORCE 100MM , AND RATED INPUT 6 x 300KVA	1 NO
04-01-01475	CRANE TRUCK SET FOR 250 TONS CRANE TRUCK AND ACCESSORIES	1 NO
04-01-01476	LOW LOADER OUTDOOR SPECIAL LOW LOADER TO CARRYING HEAVY TRANSFORMER	1 NO
04-01-01477	I - BEAMS AND SANDSWITCH PANNELS DIFFERENT DIMN. AND DIFFERENT SPEC. FOR BUILDINGS	TONS
04-01-01478	COMPUTERS AND SOFTWARE WITH PLOTTERS MODERN AND POWERFULCOMPUTER FOR MULTI PURPOSE	25 NO
04-01-01479	PHOTO COPY AND DEVELOPMENT MACHINE & ACCESSORIES FOR DEVELOPMENT & PRODUCTION DESIGN SKETCHES AND DRAWINGS	10 NO

SECTION -D-42 - CONTROL SYSTEM MAINTENANCE WORK SHOP

CODE	ITEM	QTY.
04-01-01480	SURFACE CLEANING MACHINE FOR PRINTED CIRCUIT BOARD	1 SET
04-01-01481	PERSONAL COMPUTERS MAY BE INDUSTRIAL TYPE WITH FULL OPTIONS 9HD,FDD,CD DRIVE) WITH SOFTWARE SUPPORT OF FAMOUS	1 SET
04-01-01482	DEDICATED TEST AND CALIBRATION EQUIPMENT WHICH ENABLES TESTING ANY ASSEMBLED ELECTRONIC BOARD THROUGHTY	1 SET
04-01-01483	COMPLETE DEVELOPMENT STAND ALONE SYS. WHICH SUPPORTS MICRO CONTROLLER FAMILLES (STANDARD) AND EPROMS	1 SET
04-01-01484	COMPUTER ASSISTED SIMULATION WHICH SIMULATE AS CLOSLY AS POSSIBLE REAL INDUSTRIAL SATUATIONS	1 SET
04-01-01485	SPECIAL FAMILIES OF ICS SUCH AS FPGA S EPLEDS OF E.G.XILINX COMPANY COMPLETE WITH ALL HARDWARE AND SOFTWARE TOOL TO DESIGN . IMPLEMENT ,MODIFY , SIMULATE DIFFERENT CIRCUITS.	1 SET
04-01-01486	MANUAL POWDER PLANT *3100 MM LONG * 1700 MM WIDE *2200MM HEIGHT	1 SET
04-01-01487	SEMI AUTOMATIC LINE FOR COMPONENT INSERSION AND SOLDERING OF PRINTED CIRCUIT BOARD	1 SET
04-01-01488	DEDICATED TEST AND CALIBRATION EQUIPMENT WHICH ENABLES CALLIIBRATE DIFFERENT TYPE OF FIELD INSTRUMENT .	1 SET
04-01-01489	PRINTED CIRCUIT BOARD DRILLING MACHINE DOUBLE SPLINDLE	1 SET
04-01-01490	ELECTRICAL COMPONENTS AND EQUIPMENTS USED FOR REHABULUTION OF ELECTRICAL SWITCH GEARS .	SETS
04-01-01491	ELECTRICAL COMPONENTS AND EQUIPMENTS USED FOR REHABULUTION OF LOW TENSION ELECTRICAL BOARDS .	SETS
04-01-01492	ELECTRICAL COMPONENTS AND DEVICES USED FOR REHABULUTION OF AUTOMATIC CONTROL SYSTEM OF POWER STATIONS .	SETS
04-01-01493	GENERAL USE COMPONENTS (WIRES ,TERMINALS AND OTHER	SETS

	ACCESSORIES USED FOR REHABILITATION OF CONTROL PANELS	
04-01-01494	PC COMPUTER WITH ACCESSORIES	20 SET
04-01-01495	NOTEBOOK COMPUTER	10 SET
04-01-01496	ETHERNET SWITCH	1 SET
04-01-01497	ETHERNET CABLE ON / OFF TESTER	2 SET
04-01-01498	OPTICAL CABLE KIT	1 SET
04-01-01499	SINGLE GENERATOR AND TEST EQUIPMENTS	SETS
04-01-01500	COMPLETE PRODUCTION LINE FOR PRINTED CIRCUIT BOARD	1 SET

SECTION -D- 43- GAS PIPES & ACCESSORIES

CODE	ITEM	QTY.
04-01-01501	N.D 30 INCH , MATERIALS API 5L-X60 , WALL THICKNESS 12.7MM , END CONDITIONS BEVELLED , OUTSIDE SURFACE COATED .	78 KM
04-01-01502	N.D 30 INCH , MATERIALS API 5L-GR.B , WALL THICKNESS 7.92MM , END CONDITIONS BEVELLED , OUTSIDE SURFACE COATED .	2 KM
04-01-01503	N.D 30 INCH , MATERIALS API 5L-X60 , WALL THICKNESS 14.3MM , END CONDITIONS BEVELLED , OUTSIDE SURFACE COATED .	800 KM

SECTION -D- 44- RAW MATERIALS FOR THE FOLLOWING OIL PIPES & ACCESSORIES

CODE	ITEM	QTY.
04-01-01504	MATERIALS API-5L-X60 SIZE DIA+ WALL THICKNESS 20X0.344 INCH , 508X8.74MM , END CONDITIONS BEVELLED , CONDITION COATED .	133 KM 16600 TON
04-01-01505	MATERIALS API-5L-X60 SIZE DIA+ WALL THICKNESS 20X0.406 INCH , 508X10.31MM , END CONDITIONS BEVELLED .	5 KM 740 TON
04-01-01506	MATERIALS API-5L-GR.B SIZE DIA+ WALL THICKNESS 24X0.312 INCH , 609X7.92MM , END CONDITIONS PLAIN , CONDITION BARE.	2 KM 275 TON
04-01-01507	MATERIALS API-5L-X60 SIZE DIA+ WALL THICKNESS 18X0.344 INCH , 457X8.74MM , END CONDITIONS BEVELLED , CONDITION COATED.	88 KM 9900 TON
04-01-01508	MATERIALS API-5L-X60 SIZE DIA+ WALL THICKNESS 18X0.375 INCH , 457X9.52MM , END CONDITIONS BEVELLED , CONDITION COATED.	5 KM 920 TON
04-01-01509	MATERIALS API-5L-GR.B SIZE DIA+ WALL THICKNESS 22X0.312 INCH , 558X7092MM , END CONDITIONS PLAIN , CONDITION BARE.	2 KM 250 TON
04-01-01510	HEAT SHRINKABLE SLEEVES , SIZE 20 INCH.	12000 PCS
04-01-01511	HEAT SHRINKABLE SLEEVES , SIZE 18 B1185 INCH.	7000 PCS
04-01-01512	CROSSING MATERIALS SIZE 24X20 INCH.	500 PCS
04-01-01513	CROSSING MATERIALS SIZE 22X18 INCH.	300 PCS
04-01-01514	ELASTIC NEOPRENE AND SEALS SIZE 18X22 INCH	60 PCS
04-01-01515	ELASTIC NEOPRENE AND SEALS SIZE 20X24 INCH	40 PCS

SECTION -E- 45- DISTRIBUTION NETWORK

CODE	ITEM	QTY.
04-01-01516	CABLE XLPE 3X150 11 KV	710 KM
04-01-01517	CABLE XLPE 3X150 33 KV	440 KM
04-01-01518	CABLE XLPE 1X400 33 KV	800 KM
04-01-01519	STRAIGHT JOINT 1X400MM2 33 KV (OUTDOOR)	4000 SET
04-01-01520	TERMINATION 1X400MM2 33 KV (OUTDOOR)	1150 SET
04-01-01521	STRAIGHT JOINT 3X150MM2 33KV	1450 SET
04-01-01522	TERMINATION JOINT 3X150 MM2 33KV (OUTDOOR)	950 SET
04-01-01523	TERMINATION 3x 150 MM2 11KV (indoor)	1000 SET
04-01-01524	STRAIGHT JOINT 400 VOLT 3X240+120	200 SET
04-01-01525	STRAIGHT JOINT 3X150MM2 11KV	2800 SET
04-01-01526	STRAIGHT JOINT 400VOLT 3X120+70	500 SET
04-01-01527	STRAIGHT JOINT 400VOLT 3X150+70	500 SET
04-01-01528	STRAIGHT JOINT 400VOLT 3X95+50	300 SET
04-01-01529	STRAIGHT JOINT 400VOLT 3X70+35	200 SET
04-01-01530	STRAIGHT JOINT 400VOLT 4X16 & 1X150	1000 PCS
04-01-01531	CUT -OUT FUSE 11& 33 KV WITH THE FUSES	23000 SET
04-01-01532	ELEMENT FUSE 20-40&60 AMP.	150000 PCS
04-01-01533	(ON - LOAD) LINE ISOLATOR 11KV &33KV	1430 PCS
04-01-01534	PORCELAIN PIN TYPE INSULATORS WITH GALVANIZED STEEL SPINDLE 33 KV LONG TYPE	16000 PCS
04-01-01535	PORCELAIN PIN TYPE INSULATORS WITH GALVANIZED STEEL SPINDLE 11 KV LONG TYPE	18500 PCS
04-01-01536	DISC INSULATORS FOR 11KV	65000 PCS
04-01-01537	DISC INSULATORS FOR 11KV - SOCKET EYE	51500 PCS
04-01-01538	DISC INSULATORS FOR 11KV – SUSPENSION CLAMP FOR 120/20&210/35	50000 PCS
04-01-01539	TENSION CLAMP FOR DISC INSULATORS FOR 11KV - 120/20&210/35	35000 PCS
04-01-01540	DISC INSULATORS FOR 11KV – BALL EYE	45000 PCS
04-01-01541	SHACKLE INSULATORS WITH D - IRON &2 BOLTS	120000 PCS
04-01-01542	L.T SWITCH BOARD FOR TR 250 & 400 KVA (OUTDOOR)	21000 PCS
04-01-01543	L.T SWITCH BOARD FOR TR 400 ,630&1000 KVA (INDOOR) WITH CAPACITORS	1100 PCS
04-01-01544	11/0.4 KV DIST . TRANSFORMERS 100 –250 –400 –630 & 1000 KVA WITH SPARE PARTS	16000 PCS
04-01-01545	33 / 0.4 KV DIST . TRANSFORMERS 250 ,400 ,630 & 1000 KVA WITH SPARE PARTS	110 PCS
04-01-01546	ACSR-BARE WIRE : 210/35 MM2	4900 KM
04-01-01547	ACSR-BARE WIRE : 120/20MM2	13500 KM
04-01-01548	AAC-BARE WIRE : 95MM2	7000 KM
04-01-01549	AAC-BARE WIRE : 70MM2	11000 KM
04-01-01550	AAC-BARE WIRE : 50MM2	9500 KM
04-01-01551	AAC-BARE WIRE : 35MM2	3350 KM
04-01-01552	KWH -METERS (1PH) 40 AMP	55000 PCS
04-01-01553	KWH- METERS (3PH) 3(20-60)AMP	60000 PCS
04-01-01554	400 VOLT TWISTED CABLES 3X70+50+16, 3X95+50+16 & 3X120+70+16	3800 KM
04-01-01555	ACCESSORIES FOR TWISTED CABLE	1630000 PCS
04-01-01556	LAMPS -125W -160W-250W&400W MERCURY	130000 PCS
04-01-01557	LAMPS 150W- 250W & 400 W SODIUM	30000 PCS

04-01-01558	LANTERNS FOR LAMPS -125W -160W- 250W&400W MERCURY	30000 PCS
04-01-01559	LANTERNS FOR LAMPS150W- 250W & 400 W SODIUM	21000 PCS
04-01-01560	CHOKES FOR LANTERNS FOR LAMPS 125 & 400W MERCURY	10000 PCS
04-01-01561	CHOKES FOR LANTERNS FOR LAMPS(150W, 250W & 400W) SODIUM	10000 PCS
04-01-01562	IGNITOR FOR LAMPS 400W SODIUM	10000 PCS
04-01-01563	PHOTO ELECTRICAL CELL	2500 PCS
04-01-01564	CONTROL POLE MOUNTED : SINGLE PHASE 230V , 80 AMP & THREE PHASE 400V , 100AMP	5500 PCS
04-01-01565	FLOOD LIGTH SYSTEM	20 PCS
04-01-01566	SINGLE POLE MCB 100 & 80 AMP 220 VAC 50HZ	2000 PCS
04-01-01567	1POLE CONTACTOR AC3 RATNG :80&100 AMP COIL 220/240 VAC 50HZ	2000 PCS
04-01-01568	3 POLE MCB 80 AMP 380 VAC 50HZ	2000 PCS
04-01-01569	3POLE CONTACTOR AC3 RATING 80 AMP COIL VAC 50HZ	1500 PCS
04-01-01570	33 / 11 KV SUBSTATION (2X31.5 , 2X10 &2X16) MVA WITH TRANSFORMERS & SPARE PARTS	54 NO.
04-01-01571	33 / 11KV SUB STATION (2X10&2X16) MVA WITH SPARE PARTS & WITH OUT TRANSFORMERS	23 NO.
04-01-01572	33 / 11KV MOBILE SUBSTATION (1X10 & 1X16) MVA WITH RECOMMENDED SPARE PARTS	4 PCS
04-01-01573	11 / 0.4 KIOSK SUBSTATION 400-1000 KVA WITH TRANSFORMER	200 PCS
04-01-01574	DIESEL GENERATORS (7.5-2500KVA) WITH RECOMMENDED SPARE PARTS AND SPECIAL TOOLS	100 PCS
04-01-01575	KWH METER WITH M.D.3X30-90A , 400V-3X50-150A ,400V-3X400/ 5C.T. , 400V-3X600/5 ,400V-3X1000/5 , 400V-3X1600/5,400V & 300/5 (110V) WITH C.T. (M.D.)	17000 PCS
04-01-01576	SPARE PARTS FOR KWH METER TYPE 400/5,600/5,1000/5 &1600/5	20000 PCS
04-01-01577	VHF COMMUNICATION EQUIPMENT FIXED WITH ACCESSORIES AND SPARE PARTS	265 PCS
04-01-01578	VHF COMMUNICATION EQUIPMENT MOBILE WITH ACCESSORIES AND SPARE PARTS	1310 PCS
04-01-01579	COAXIAL CABLE	30000 M.
04-01-01580	SWITCHING EQUIPMENT	30 PCS
04-01-01581	UHF COMMUNIATION EQUIPMEN T(P-P) & (PMP) WITH ACCESSORIES & SPARE PARTES	94 PCS
04-01-01582	TEST EQUIPMENT FOR COMMUNICATION SYSTEM	97 PCS
04-01-01583	POWER LINE CARRIER COMMUNICATION EQUIPMENT	370 SET
04-01-01584	BATTERY CHARGER 48 V .D.C.	300 PCS
04-01-01585	CASH MACHINE	340 PCS
04-01-01586	COMPUTERS AND PRINTERS	350 PCS
04-01-01587	COMPUTERS WITH UPS SYSTEM WITH SPARE PARTS	350 PCS
04-01-01588	PRINTERS WITH SPARE PARTS	320 PCS
04-01-01589	SCANNER	45 PCS
04-01-01590	SPARE PARTS FOR DEC PDP 11/44 COMPUTERS	518 PCS
04-01-01591	PILOTE CABLE 52* 0.9 MM	285 KM
04-01-01592	FUEL TANKER WITH RECOMMENDED SPARE PARTS	8 NO.
04-01-01593	SINGLE POLEMINIATURE CIRCUIT BREAKER 20A, 40A, 60A, 400V	140000 PCS
04-01-01594	CABLE TESTING VAN	12 NO.
04-01-01595	CRANE (40 & 80 TON) WITH RECOMMENDED SPARE PARTS	16 NO.
04-01-01596	BEAMLIFTER TRUCKS (17M & 22M) WITH RECOMMENDED SPARE PARTES	65 NO.
04-01-01597	S/S TESTING VAN	6 NO.
04-01-01598	TRUCK WITH LIFTER FOR TRANSFORMERS WITH RECOMMENDED SPARE	100 NO.

04-01-01599	TRAILER WITH LIFTER WITH RECOMMENDED SPARE PARTS.	44 NO.
04-01-01600	EXCAVATION EQUIPMENT WITH RECOMMENDED SPARE PARTS	16 NO.
04-01-01601	EARTH AUGER WITH RECOMMENDED PARE PARTS	40 NO.
04-01-01602	SHOVELS (WHEEL LOADER) WITH RECOMMENDED PARE PARTS	6 NO.
04-01-01603	MOULTED CASE C.B. TEST SET	2 NO.
04-01-01604	DUMPER TRUCK WITH RECOMMENDED PARE PARTS	16 NO.
04-01-01605	MOBILE CRASHER WITH RECOMMENDED SPARE PARTS	7 NO.
04-01-01606	CARS , STATION WAGON ,PICK-UP & MOTOR CYCLE WITH RECOMMENDED SPARE PARTS.	1350 NO.
04-01-01607	LORRIES (3 , 10 &16 TON) WITH RECOMMENDED SPARE PARTS	230 NO.
04-01-01608	LOWLOADER (60 & 90 TON) WITH RECOMMENDED SPARE PARTS	8 NO.
04-01-01609	FORKLIFT (5 &15 TON) WITH RECOMMENDED SPARE PARTS	140 NO.
04-01-01610	WATER &FUEL TANKER 16000-20000 LITTER WITH RECOMMENDED SPARE PARTS	20 NO.
04-01-01611	RECOVERY TRUCK WITH RECOMMENDED SPARE PARTS	10 NO.
04-01-01612	TOW CAR FOR SHIFITING OF DAMAGED VEHICLES WITH RECOMMENDED SPARE PARTS	8 NO.
04-01-01613	MINI BUSES (11&16 PERSONS) WITH RECOMMENDED SPARE PARTS	158 NO.
04-01-01614	BUS FOR TRANSPORTATION (40 PERSONS) WITH RECOMMENDED SPARE PARTS	35 NO.
04-01-01615	PORTABLE AIR COMPRESSOR	20 NO.
04-01-01616	DUMPER (1M 3) WITH RECOMMENDED SPARE PARTS	26 NO.
04-01-01617	TRACTOR WITH WAGON WITH RECOMMENDED SPARE PARTS	43 NO.
04-01-01618	CONCRETE MIXER CAR WITH RECOMMENDED SPARE PARTS	14 NO.
04-01-01619	TOOLS & EQUIPMENT FOR MAINTENANCE VEHICLE & TRUCKS	10000 NO.
04-01-01620	FIRE FIGHTING VEHICLE WITH RECOMMENDED SPARE PARTS	15 NO.
04-01-01621	JACKING MACHINE WITH RECOMMENDED SPARE PARTS	20 NO.
04-01-01622	JACK HAMMER	50 NO.
04-01-01623	REEL DRUM TRAILER FOR CABEL WITH RECOMMENDED SPARE PARTS	40 NO.
04-01-01624	TRAILER 40 TONS WITH RECOMMENDED SPARE PARTS	24 NO.
04-01-01625	LOWLOADER FOR TRANSFORMER 80 TON WITH RECOMMENDED SPARE PARTS	4 NO.
04-01-01626	MAILAR TRUCK	12 NO.
04-01-01627	SMI – TRAILER (10- 40 TON)WITH LIFTER 15 TON & SPARE PARTS	20 NO.
04-01-01628	MOBILE WORKSHOP FOR MAINTENANCE VEHICLE WITH RECOMMENDED SPARE PARTS	15 NO.
04-01-01629	MOBILE WORKSHOP TESTING VAN FOR S/S WITH RECOMMENDED SPARE PARTS	7 NO
04-01-01630	TIRES TYPES 12R 22.5-16PR, 165/80R13,185/80 R14, 700-12-12PR,6.00-R14-8PR,7.50-16-14PR,19.5 170 R14, 8.25-15-14PR,8.25-16-14PR,12.00 R24-18PR &225 / 60R15	11450 NO.
04-01-01631	MOULDED CASE C.B. TEST SET	10 PCS
04-01-01632	OUTDOOR 33KV C.B. 630A VACUUM OR SF6	20 PCS
04-01-01633	33 KV C.B. INCOMING & OUTGOING 1250A SF6 OR VACUUM(INDOOR)	120 SET
04-01-01634	AUTO RECLOSER 11KV 20KA SF6	80 PCS
04-01-01635	PHASE SEQUENCE 11KV	10 PCS
04-01-01636	VACUUM CHEKER 12KV- 28KV WITH INDICATOR OF LEAKAGE CURRENT (MA)	20 PCS
04-01-01637	SPARE PARTS FOR MEIDENSHA S/S :- C.B. 11KV 630A , 1250A 25KA VACUUM (JAPAN S/S)	40 PCS
04-01-01638	VACCUM C.B. 36KV , 630A , 25KA	5 PCS
04-01-01639	VACCUM C.B. (VE-14) 12KV , 2000A , 25KA	4 PCS
04-01-01640	VACCUM INTERRAPTER FOR VGB 630A 12KV,25KA	40 PCS

04-01-01641	TRIPPING COIL FOR VGB 110 VDC	10 PCS
04-01-01642	CLOSING SPRING LEVER	14 PCS
04-01-01643	CURRENT TRANSFORMER 36KV 200- 400/5/5A (JAPAN S/S)	13 PCS
04-01-01644	CURRENT TRANSFORMER 36KV 100- 400/5/5A (JAPAN S/S)	13 PCS
04-01-01645	BUSHING TYPE CURRENT TRANSFORMER 12KV 1800/5/5A	5 PCS
04-01-01646	BUSHING TYPE CURRENT TRANSFORMER 12KV 300/5/5A	16 PCS
04-01-01647	VOLTAGE TRANSFORMER 33KV/ 3 /110V/ $\sqrt{3}$ 200VA (JAPAN S/S)	12 PCS
04-01-01648	VOLTAGE TRANSFORMER 11KV/ 3 /110V/ $\sqrt{3}$ 1107 200VA (JAPAN S/S)	31 PCS
04-01-01649	AMMETER WITH MAX. DEMAND (0-300A)	9 PCS
04-01-01650	VOLTMETER 0-45KV	7 PCS
04-01-01651	VOLTMETER 0-15KV	9 PCS
04-01-01652	UNDER FREQUENCY RELAY 110,46-50HZ	17 PCS
04-01-01653	OVER CURRENT GROUND RELAY 1-4A (TIME LAG) INSTANT 5-20A	7 PCS
04-01-01654	BUCHHOLZ RELAY	4 PCS
04-01-01655	LAMP FOR BSL (ACN-8811)& BSL (ABN-111)18V,2W	800 PCS
04-01-01656	BUZZER 110VDC	15 PCS
04-01-01657	BELL 110 VDC	22 PCS
04-01-01658	RECTIFIER SYSTEM UNIT FOR BATTERY CHARGER 150VD ,C , 15A)	11 PCS
04-01-01659	THYRISTOR 800V , 20A	10 PCS
04-01-01660	PILOT LAMP (WHITE) 220V AC (18V,2W)	300 PCS
04-01-01661	DITTO (RED)	220 PCS
04-01-01662	CLOSING HOOK	7 PCS
04-01-01663	POTENTIAL TESTER LAMP WITH ACCESSORIES	175 PCS
04-01-01664	CABLE JOINTING TOOLS	82 PCS
04-01-01665	O.H.L TOOLS	10700 SET
04-01-01666	AIR CONDITION (2 TON) WINDOW TYPE AND SPLIT	5200 PCS
04-01-01667	CABLE TERMINALS(10-16-25-35-50-70-95-120-150-185&200MM2)	70000 PCS
04-01-01668	RING MAIN UNIT 11KV	30 NO.
04-01-01669	RING MAIN UNIT TYPE EXTENSIBLE 11KV WITH SPARE PARTS	180 NO.
04-01-01670	33/11KV POWER TRANSFORMERS 10,16 &31.5 MVA WITH SPARE PARTS	43 PCS
04-01-01671	LATTICE STEEL POLES 9 & 11M	16500 PCS
04-01-01672	IBEAM STEEL 140X66X8.6X5.7 MM LENGTH 9M (IPN) ST.52	1000 TON
04-01-01673	IBEAM STEEL 140X66X8.6X5.7MM LENGTH 11M (IPN) ST.52	1000 TON
04-01-01674	STEEL ANGLE 30 X 30 X3 MM	100 TON
04-01-01675	PLATE THICKNESS 6 MM X75 MM	30 TON
04-01-01676	TUBLER STEEL POLES 9&11 M	43500 PCS
04-01-01677	STEEL PIPES SIZE 2.8M X 114 X 4.5MM ST. 52 FOR 11 M LENGTH	350 TON
04-01-01678	STEEL PIPES SIZE 3.35M X 139MMX 4.5MM ST.52 FOR 11 M LENGTH	500 TON
04-01-01679	STEEL PIPES SIZE 5.5M X 165MM X 4.5MM ST.52 FOR 11 M LENGTH	980 TON
04-01-01680	STEEL PIPES SIZE 2.3M X 89MM X 3.3MM ST. 52 FOR 9 M LENGTH	156 TON
04-01-01681	STEEL PIPES SIZE 2.65M X 114MM X 3.6MM ST.52 FOR 9M LENGTH	260 TON
04-01-01682	STEEL PIPES SIZE 4.7M X 139MM X 4.5MM ST.52 FOR 9M LENGTH	705 TON
04-01-01683	SINGLE CIRCUIT LONG SPAN STEEL TOWERS TYPE (S, S+3, S-3, T, T+3, T-3, H, H+3, H-3, S2, A2, L-3)	3000 PCS
04-01-01684	DOUBLE CIRCUIT MEDIUM SPAN STEEL TOWERS TYPE (2S, 2SC, 2TC, 2H, 2HC, 2SRC, 2AT)	1500 PCS
04-01-01685	STREET LIGHTING POLES 10 &15M	5200 SET
04-01-01686	LIGHTNING ARRESTERS 11 & 33 KV	11500 SET

04-01-01687	SPARE PARTS FOR FRENCH S/S :-CIRCUIT BREAKER 12KV, 630A, 25KA , FG2, SF6	50 PCS
04-01-01688	CIRCUIT BREAKER 12KV, 2000A, 25KA,LF3, SF6	11 PCS
04-01-01689	BREATHER FOR MAIN TANK FOR 5,10,&31.5 MVA	15 PCS
04-01-01690	BUCHOLZ RELAY FOR TRANSFORMER 31.5MVA ALAM –80	5 PCS
04-01-01691	GASKET FOR TRANSFORMER 5MVA	5 PCS
04-01-01692	WINDING TEMPRATURE INDICATOR FOR POWER TRANSFORMER 5,10&31.5 MVA	4 PCS
04-01-01693	OIL TEMPRATURE INDICATOR FOR POWER TRANSFORMER 5,10 &31.5 MVA	5 PCS
04-01-01694	MOTOR FPR TAP CHANGER	14 PCS
04-01-01695	SHOCK ABSORBER	310 PCS
04-01-01696	UNDER VOLTAGE RELEASE 110/120 VDC	17 PCS
04-01-01697	DIS CONNECTING CONTACT FINGERS FG2 630A	20 PCS
04-01-01698	DIS CONNECTING CONTACT FINGERS FG2 1250A	14 PCS
04-01-01699	DIS CONNECTING CONTACT FINGERS FG2 2000A	7 PCS
04-01-01700	EARTHING RESISTOR TYPE HENNEQUIN 300A 35/H COMPLETE	30 PCS
04-01-01701	INVERSE TIME DIRECTIONAL OVER CURRENT TYPE ITD 7211 OR EQUIVALENT (SEPAM)	2 PCS
04-01-01702	V.T RELAY INDEPENDENT TIME OVER VOLTAGE TYPE ITG 7114 OR EQUIVALENT	2 PCS
04-01-01703	EARTH FAULT RELAY TYPE ITG 7113 OR EQUIVALENT	2 PCS
04-01-01704	DIFFERENTIAL PROTECTION RELAY HHTA4 OR EQUIVALENT	2 PCS
04-01-01705	OVER CURRENT AND EARTH FAULT RELAY CDG 31 2X51+51N OR EQUIVALENT	3 PCS
04-01-01706	LAMPS 100W 110V	350 PCS
04-01-01707	L.V BULBS E14 TYPE 101-0172 60V ,5W	500 PCS
04-01-01708	VOLTMETER SELECTOR SWITCH REF 25644153	10 PCS
04-01-01709	LATCHING MECHANISIM REF 9011400C1	45 PCS
04-01-01710	POLE OF C.B 12KV, 630A, 25K, FG2, SF6	12 PCS
04-01-01711	11 KV CURRENT TRANSFORMER 150-300/5/5 TCF 200A	13 PCS
04-01-01712	11 KV CURRENT TRANSFORMER 300-600/5/5 TCF 200A	10 PCS
04-01-01713	11 KV V.T 11000/ 110 /3 /110 TYPE RTF 200F	32 PCS
04-01-01714	ELECTRONIC CARDSOF CORO DEL CHARGER TYPE SCE 270A	5 PCS
04-01-01715	ELECTRONIC CARDS OF CORO DEL CHARGER TYPE SCE 270C	5 PCS
04-01-01716	BATTERY 110V NICKLE-CADMIUM 60,80 & 110AH CHLORIDE OR SAFTALKLINE (SET)	35 SET
04-01-01717	FUSE FOR VOLTAGE TRANSFORMER 0.5A	390 PCS
04-01-01718	FLAG RELAY110V D.C (FIR) DROP OUT FLAG RELAY110V D.C (FIR) DROP OUT	25 PCS
04-01-01719	FLAG RELAY110V D.C (FIR) PIK UP	25 PCS
04-01-01720	CIRCUIT BREAKER 12KV ,2000A,25KA,LF3,SF6	2 PCS
04-01-01721	TRIPING AND CLOSING COIL (887191)	80 PCS
04-01-01722	UNDER FREQUENCY RELAY (TYPE HTG 7012)	5 PCS
04-01-01723	ELECTRONIC TIME DELAY RELAY (TYPE 245.TE 110V D.C. 0.2 TO 180 SEC)	8 PCS
04-01-01724	AUX. RELAY 110V D.C. (TYPE 259-49)	10 PCS
04-01-01725	AUX. RELAY 110/ 3 (TYPE 245-481)	10 PCS
04-01-01726	L.V. CIRCUIT BREAKER 3-POLE 3AMP (TYPE C32 N)	5 PCS
04-01-01727	POTENTIAL TESTER 1AMP	30 PCS
04-01-01728	SOILD STATE VOLTAGE REGULATOR MK 20	1 PCS
04-01-01729	H.V. BUSHING REMOVABLE PART TYPE 750 IR- 36KV(M.G.SUPPLY) NOTICE 90588.	6 PCS

04-01-01730	HOREN 110 V D.C.25 WAAT (TYPE FL 35).	5 PCS
04-01-01731	33 KV V.T. 33000 / 110 50 VA GLASS 0.5 (TYPE TPF400).	2 PCS
04-01-01732	HRC FUSES 11KV (20,40,63,80&100) AMP	9200 PCS
04-01-01733	MCCB 400VOLT 3 PHASE (400 & 250)AMP	2000 PCS
04-01-01734	LOW TENSION PILLERS	3500 PCS
04-01-01735	LOW TENSION METER BOX	20000 PCS
04-01-01736	LOW VOLTAGE CABLE 3X240+120 MM2 ARMOURED	20 KM
04-01-01737	LOW VOLTAGE CABLE 1X95 MM2	400 KM
04-01-01738	LOW VOLTAGE CABLE 1X150 MM2	80 KM
04-01-01739	LOW VOLTAGE CABLE 3X150+70 MM2 ARMOURED & UNARMOURED	14 KM
04-01-01740	LOW VOLTAGE CABLE 3X95+50 MM2 ARMOURED & UN ARMOURED	14 KM
04-01-01741	LOW VOLTAGE CABLE 2X1.5MM2	30 KM
04-01-01742	LOW VOLTAGE CABLE 2X2.5 MM2	115 KM
04-01-01743	LOW VOLTAGE CABLE 3X70+35 MM2 ARMOURED & UN ARMOURED	5 KM
04-01-01744	LOW VOLTAGE CABLE 4X10 MM2 ARMOURED & UN ARMOURED	170 KM
04-01-01745	LOW VOLTAGE CABLE 4X16 MM2 ARMOURED & UN ARMOURED	350 KM
04-01-01746	LOW VOLTAGE CABLE 4X25 MM2	55 KM
04-01-01747	BI-METAL CONNECTOR 210/120	36000 PCS
04-01-01748	PARALL GROVE CLAMB	25000 PCS
04-01-01749	BI-METAL CONNECTOR 95/50 & 25 /10	60000 PCS
04-01-01750	MID SPAN JOINT FOR CONDUCTOR 210/35 &120/20	5000 PCS
04-01-01751	SPARE PARTS FOR HUNGARIAN S/S :- CIRCUIT BREAKER 11 KV WITH SPARE PARTS	100 PCS
04-01-01752	33 KV SWITCH GEAR KIOSK TYPE IN-OUT COMPRESING 2 PANEL 800A 125KA WITH SPARE PARTS	3 PCS
04-01-01753	PUTASIOUM HYDROXIDE (KOH) FOR BATTERY	500 KG
04-01-01754	SILICAGEL IN TINS OF CAPACITY 5 KG FOR EACH	1000 NO.
04-01-01755	HIGH VOLTAGE TAPE FOR REPARING CABLES	15000 PCS
04-01-01756	1X 150 , 1X70 MM SINGLE CORE CABLE 12-20 KV	6 KM
04-01-01757	OVER HEAD AVR 11KV	120 SET
04-01-01758	COPPER WIRE 50 MM2	550 KM
04-01-01759	BUS BAR BOX (OUTDOOR)	2000 PCS
04-01-01760	EARTH ROD (2M) WITH CONNECTOR	25000 PCS
04-01-01761	STAY ROD	25000 PCS
04-01-01762	STAY WIRE	170000 KG
04-01-01763	OIL PURIFIER WITH SPARE PARTS	205 PCS
04-01-01764	RECOMMENDED SPARE PARTS FOR OIL PURIFIER (MAS 2500 & MAS 3500)	305 PCS
04-01-01765	PRIMARY INJECTION	12 PCS
04-01-01766	SECONDARY INJECTION	12 PCS
04-01-01767	OIL INSULATION TESTER	13 PCS
04-01-01768	HIGH TENSION TESTER	10 PCS
04-01-01769	AVO METER	150 PCS
04-01-01770	MAGGER	90 PCS
04-01-01771	CLAMP METER + P.F. METER	300 PCS
04-01-01772	TRANSFORMATION RATIO TESTER	13 PCS
04-01-01773	EARTHING RESISTANCE TESTER	20 PCS
04-01-01774	OVER HEAD PROJECTER	5 PCS
04-01-01775	VIDEO - TAPE WITH THE CAMERA	5 PCS

04-01-01776	PHOTOGRAPHI CAMERA	5 PCS
04-01-01777	RECORDER WITH THE MICROPHONE	5 PCS
04-01-01778	CD - PROJECTER (DATA SHOW)	2 PCS
04-01-01779	POWER FACTOR IMPROVMENT EQUIPMENT FOR L.T NETWORK 100 & 200 KVAR	800 SET
04-01-01780	POWER FACTOR IMPROVMENT EQUIPMENT FOR M.V. NETWORK 100, 200 &300	100 SET
04-01-01781	CAPACITOR 0.4 KV (OUTDOOR) 5 ,10, 20 &25 KVAR	40000 PCS
04-01-01782	DOUBLE SECTION ROPE OPERATED LADDERS (FIBER GLASS) 2X4.5 M & 2X6M	2700 PCS
04-01-01783	SAFETY EQUIPMENT	31500 PCS
04-01-01784	SAFETY LINE MAN BELT	3500 PCS
04-01-01785	DISCONNECTING HOT STICKS	1250 PCS
04-01-01786	TEST HOT STICK	650 PCS
04-01-01787	PORTABLE EARTH	1000 PCS
04-01-01788	INSULATING RUBBER GLOVES 1KV,11KV &33KV	9000 PCS
04-01-01789	PROTECTIVE DRESS	12000 PCS
04-01-01790	HELMET (FIBER CLASS)	5000 PCS
04-01-01791	PROTECTIVE SHOES	11000 PAIR
04-01-01792	REHABILITATION OF SECTOR NETWORK	19 PROJECT
04-01-01793	REHABILITATION OF OLD SUBSTATION	12 PROJECT
04-01-01794	REHABILITATION &INSTALLATION OF NEW TELCOMMUNICATION EQUIPMENT FOR VOICE ,DATA AND PROTECTION OF POWER LINES	80 NO.
04-01-01795	ELECTRICITY DISPATCH CONTRL CENTERS FOR DISTRIBUTION ELECTRICAL NETWORK (REHABILITATION & INSTALLATION OF NEW) CENTERS)	18 PROJECT
04-01-01796	SPARE PARTS FOR SCANIA TRUCKS	6000 NO.
04-01-01797	TYRE"S TYPE 1400X20X20 , 1200X22.5X16 , 1000X15X18 , 700X12X12 & 750X16X14	26000 NO.
04-01-01798	AC CAPACITOR 220 V 50HZ 10MF & 25MF	2000 PCS
04-01-01799	CRANE BRIDGE 5-10 TON WIDTH 18M , HEIGHT 6M	10 NO
04-01-01800	INSULATION OIL CHEMICAL TEST SET	5 NO.
04-01-01801	BATTERY IMPEDANCE TEST EQUIPMENT	8 NO.
04-01-01802	KWH - METER TEST AND CALIBRATION SYSTEM	7 NO.
04-01-01803	INSULATION POWER FACTOR TEST SET (TANDELTA)	8 NO.
04-01-01804	L.V. CIRCUIT BREAKER TEST SET	8 NO.
04-01-01805	SF6 GAS PRESSURE TESTER	10 NO.
04-01-01806	SEQUENCE TESTER FOR L.V.	20 NO.
04-01-01807	SF6 GAS LEAK DETECTOR	10 NO.
04-01-01808	LIVE EQUIPMENT ALARM	100 NO.
04-01-01809	CIRCUIT BREAKER 11KVWITH SPARE PARTS FOR HUNGARIAN S/S	70 NO.
04-01-01810	LIGHTING CONTROL PANEL POLE MOUNTED : SINGLE PHASE 230 V, 80 AMP & 3 THREE PHASE 400 V , 100 AMP	1000 PCS
04-01-01811	MUTIPLEXER	5 SET
04-01-01812	DIGITAL RADIO EQUIPMENT (POINT TO MULTI POINT)WITH ACCESSORIES	100 PCS
04-01-01813	COMMUNICATION STRAIGHT JOINT FOR COPPER WIRE WITH SPECIAL TOOLS	300 PCS
04-01-01814	DIGITAL RADIO EQUIPMENT (POINT TO POINT)WITH ACCESSORIES	3 SET
04-01-01815	PHASE DISPLACEMENT TESTER 11 KV	20 PCS
04-01-01816	SPARE PARTS FOR 33/11 KV S/S	10000 PCS
04-01-01817	SPARE PARTS FOR SIEMENS NETWORK	5000 PCS
04-01-01818	ELECTRICITY DISPATCH CENTERS REHABILITATION & INSTALLATION OF NEW CENTERS	3 NO.

04-01-01819	SAVING ENERGY LAMPS	1000000 NO.
04-01-01820	11/0.4 KV DIST. TRASFORMERS 100-250-400-630 & 1000 KVA WITH SPARE PARTS.	5000 PCS
04-01-01821	TOWERS TYPE (1C,1C3,1C2,1E,1E+3,1EC,1H,1H3,1HC,1L)	2500 PCS
04-01-01822	DEHYDRATING AGENT SILICAGEL IN TINS OF CAPACITY 5 KG FOR EACH	500 KG
04-01-01823	BATTERYCHARGER 12 V.D.CT	200 PCS
04-01-01824	REHABILITATION OF OLD ELECTRICAL NETWORK	2 NO.
04-01-01825	TANKER 16000-20000 LITTER WITH RECOMMENDED SPARE PARTS	3 NO.
04-01-01826	REFRACTORY FOR E.A.F. 22.5 TON & FOR SLIDING GATE & FOR VOD LDDLE 22.5 TON AND GAS STEERING	667.2 TON + 1430 PCS
04-01-01827	MATERIL , CK 35 , CK 45 , 41CR4 , 42CRMO4 , 25CRMO4 , CK 60 , ST .STEEL SUS 316.	1350 TON
04-01-01828	SLITTING MAEHINE (2) , ROLLING MAHINE (2) , BENDING MACHINE (1), FOR STEEL PLATE (1) AND COMPLETE LINE FOR PRODUCING FALSE CEILING	5 PCE
04-01-01829	FERO ALLOY ,(NI),(FESI),(FECR)L.C ,(FECR)H.C(FEMO),(FEV),(CAF2),(C), (FEMN)H.C.,(FEMN)L.C. AND PURE ALLUMINUM FOR DEOXIDATION.	384 TON
04-01-01830	OVER HEAD CREANS	52 PCS
04-01-01831	PLATE STEEL 37.	450 TON
04-01-01832	AMBULANCES	1 NO
04-01-01833	FIRE FIGHTING VEHICLES	1 NO

SECTION F 46- GENERAL PURPOSE EQUIPMENT AND TOOLS

CODE	ITEM	QTY
04-01-01834	CARS, PICKUPS, LORRIES	5000 NOS
04-01-01835	CRANES AND LIFTING DEVICES	400 NOS
04-01-01836	TANKERS FOR CHEMICAL TRANSPORTATION AND FOR WATER TREATMANT	16 NOS
04-01-01837	AMBULANCE CARS	50 NOS
04-01-01838	FIRE FIGHTING VEHICLES	50 NOS
04-01-01839	CONCRETE BATCH PLANT WITH ACCESSARIES	5 LOT
04-01-01840	CONCRETE TRUCK MIXER	10 NOS
04-01-01841	CONCRETE LIFTING PUMPS , HEAD 16-45 METER	4 NOS
04-01-01842	CIVIL ENGINEERING SURVEY TOOLS AND TEST EQUIPMENT	10 SET
04-01-01843	REINFORCEMENT STEEL OF DIFFERENT SIZES	50000 TON
04-01-01844	WELDING ELECTRODES OF DIFFERENT SIZES	500 TON
04-01-01845	SHUTTERING WOOD OF DIFFERENT SIZES	5000 TON
04-01-01846	METEL SHEET FOR CIVIL CONSTRUCTION OF DIFFERENT SIZES	5000 TON
04-01-01847	SHOVELS OF DIFFERENT TYPE	20 NOS
04-01-01848	SPARE PARTS GEC RUSTON DIESEL	LOT
04-01-01849	SPARE PARTS CUMMING N,NT,NTA 855	LOT
04-01-01850	SPARE PARTS BRUSHLESS A.C GENERATOR CONTROL PANAL FOR DIESEL GENERATOR SETFOR CAPACITY 1100KVA, 1000KVA,600KVA & 30KVA	LOT
04-01-01851	SPARE PARTS FOR NISSAN DIESEL RD8U.D	LOT
04-01-01852	COMPUTER NETWORKING SYSTEM AND ITS ACCESSORIES	5 SET
04-01-01853	SPARE PARTS FOR COMPUTER	100 PCS
04-01-01854	INFOCUS LP930 WITH ITS ACCESSORIES	3 NO.
04-01-01855	INSTRUMENTS FOR MEASURING AND TESTING EQUIPMENTS FOR ELECTRONIC LABORATARY.	50 PCS
04-01-01856	SOLDERING AND DESOLDERING STATION	4 NO.
04-01-01857	EXECUTIVE STYLE TOOL CASES WITH ACCESSORIES AND TOOLS	10 NO.

04-01-01858	ELECTRONIC LAB TEST BENCH	4 NO.
04-01-01859	INSTANT SOLDERING STATION WITH ACCESSORIES	10 NO.
04-01-01860	INDUSTRIAL PROCESSIONS FOR CONTROL SYSTEM OF POWER PLANTS	10 NO.
04-01-01861	ELECTRONIC COMPONENTS FOR MAINTAINCE OF ELECTRONIC BOARDS OF POWER STATION	1000 PCS
04-01-01862	CONTROL AND DATA CABLES	100 M
04-01-01863	ELECTRONICALLY CONTROLLED SOLDERING STATION	10 NO.
04-01-01864	FORM PRINTING MACHINE	1 NO.
04-01-01865	FORM COLLECTING MACHINE	1 NO.
04-01-01866	CUTTING MACHINE	1 NO.
04-01-01867	SHEET OFFSET PRINTING	4 NO.
04-01-01868	PAPER PRESS SYSTEM	2 NO.
04-01-01869	FORM PAPER	1500 TON
04-01-01870	LAPTOP PORTABLE COMPUTER WITH COMMUNICATION MODULE	1 SET
04-01-01871	GIS SYSTEM WIYH TWO WORKSTATIONS	1 SET

SECTION -G 47- MISSELLENIOUS EQUIPMENT

CODE	ITEM	UNIT
04-01-01872	WINDMILL POWER GENERATION UNITS 100KW – 5MW	100 SET
04-01-01873	PHOTO VOLTAIC SOLAR PANEL WITH BATTERY CHARGING CONTROL UNIT 100-2000 WATT	1000 SET
04-01-01874	TRAILERS 40-70 TON	50 NO
04-01-01875	LOW LOADER 50-150 TON	20 NO
04-01-01876	EQUIPMENT FOR ESTABLISHING WORKSHOP FOR REWINDING H.V. MOTORS	LOT
04-01-01877	SMALL DIESEL ELECTRIC GENERATORS (5 , 10 , 15) KVA WITH SPARE PARTS AND EQUIPMENT FOR ESSEMBLY AND REPAIR	500 NO
04-01-01878	SPARE PARTS FOR OXYGEN COMPRESSOR	LOT
04-01-01879	SPARE PARTS FOR AIR COMPRESSOR	LOT
04-01-01880	NEW 400KV SUBSTATION ALAMEEN	LOT
04-01-01881	NEW 400KV SUBSTATION BAGHDAD CENTER	LOT
04-01-01882	STEEL PLATES (DIFF. SIZES)	690 TONS
04-01-01883	STEEL ANGLES , STEEL 52	300 TONS
04-01-01884	STEEL ANGLES , BOLTS , NUTS AND WASHERS	462500 PCS
04-01-01885	SPARE PARTS FOR DIESEL GENERATOR	1 LOT
04-01-01886	PC- COMPUTERS (FILE SERVERS)	6 PCS
04-01-01887	PC- COMPUTERS (WORK STATIONS)	44 PCS
04-01-01888	PRINTERS (EPSON LQ 2180) AND RIBBON	10+1000 PCS
04-01-01889	RIBBON FOR PRINTER (MT691)	500 PCS
04-01-01890	MULTIMEDIA EDUCATIONAL NETWORK SYSTEM	1 SET
04-01-01891	PROJECTER INFOCUS (1100 LUMENS OR MORE)	2 SET
04-01-01892	COMPUTER TRAINING LAB.	1 SET
04-01-01893	ELECTRONICS WORKSHOP	1 SET
04-01-01894	UPS (5 KVA) , 2 KVA	20 NO.
04-01-01895	SPARE PART FOR SKYLIFT TYPE M.A.N. (ROTHMAN) AND TYPE INTERNATIONAL	2000 PCS
04-01-01896	PAPER IN ROLE	1000 ROLL
04-01-01897	CARBON ROLE	200 ROLL
04-01-01898	INK	200 LETER
04-01-01899	GUM	200 LETER
04-01-01900	PAPER TAPE	1000 ROLL
04-01-01901	COMPRESSER : MODEL 30 GA 040 B250 400V , PH=3 H2=50	6 NO

	37A 20 SKW 1500 R/MIN 31 BAR	
04-01-01902	CONDENSER FANS * DIAMEFER : 762 MM * SPEED : 950 RPM * TOTAL AIR QUANTITY : 43600 M3/N	9 NO
04-01-01903	CONDECERS : * FIN SPARING : 2.5MM * NUMBER OF ROW/PER ELEMENT : 4 * FALEAREA : 5.61M2	6 NO
04-01-01904	EXPANSION VALVE : XB 1019 HW100 1B ALCO COMPANY	16 NO
04-01-01905	AMBALANCE CAR	8 NO
04-01-01906	MOBILE G.T AUXILIARIES & CONTROL CARDS FOR DIBIS GAS TURBUNE , MOSUL GAS TURBINE AND MULLA ABDULLA GAS TURBINE POWER STATION .	1000 PCS + 100 SET
04-01-01907	MOBILE G.T COMBUSITION & TURBINE EQUIPMENTS FOR DIBIS GAS TURBUNE , MOSUL GAS TURBINE AND MULLA ABDULLA GAS TURBINE POWER STATION .	1000 PCS + 100 SET
04-01-01908	MOBILE G.T REHABILITATION & ENGINEERING SERVICE FOR DIBIS GAS TURBUNE , MOSUL GAS TURBINE AND MULLA ABDULLA GAS TURBINE POWER STATION .	10 UNITS
04-01-01909	MOBILE G.T LUBE OIL SYSTEM AND EQUIPMENTS FOR DIBIS GAS TURBUNE , MOSUL GAS TURBINE AND MULLA ABDULLA GAS TURBINE POWER STATION .	20000 LITER + 500 PCS
04-01-01910	MOBILE G.T INTAKE AIR SYSTEM FOR DIBIS GAS TURBUNE , MOSUL GAS TURBINE AND MULLA ABDULLA GAS TURBINE POWER STATION .	3000 NO
04-01-01911	GRAIN ORIENTED SILICON STEEL	5000 TON
04-01-01912	COLD ROLLED CARBON STEEL STRIP	3000 TON
04-01-01913	COPPER WIRE (BARE , ENAMILLED , PAPER INSULATED)	750 TON
04-01-01914	COPPER STRIP ROLL & SHEET FOR TRANSFORMERS	600 TON
04-01-01915	TAP CHANGERS	5000 PCS
04-01-01916	BUSHING FOR TRANSFORMERS	50000 PCS
04-01-01917	HOT ROLLED STEEL SHEET	600 TON
04-01-01918	ROLLED STEEL SHAPES	500 TON
04-01-01919	CARBON STEEL PIPES AND ROD	300 TON
04-01-01920	STAINLESS STEEL SHEET	150 TON
04-01-01921	SEMI FINISHED PARTS FOR TRANSFORMERS	300000 PCS
04-01-01922	OIL	1000000 LIT
04-01-01923	SPARE PARTS FOR M/C	200000 PCS
04-01-01924	TESTING EQUIPMENT	250 PCS
04-01-01925	INS. FLEXIBLE WIRES & CABLES	30000 PCS
04-01-01926	WELDING RODS	20 TON
04-01-01927	COATING MATERIAL	200 TON
04-01-01928	NITRIL & CORKPREN SHEETS	10000 PCS
04-01-01929	FASTENERS & NUTS , WASHERS	1500000 PCS
04-01-01930	INSULATING MATERIALS	200 TON
04-01-01931	PRESTRESSING REINFORCEMENT STEEL WIRE DIAMETER 7.4mm	750 TON
04-01-01932	WEDGES TYPE 81-001.07 for 7.4 mm ROUND WIRE	5000 pcs
04-01-01933	CROSS WIRING MILD STEEL (BLACK) WIRE OF COMMERCIAL QUALITY 3mm DIAMETER IN COLIS OF 600 mm DIAMETER.	20 TONS
04-01-01934	CIRCULAR CONSTRUCTION YOKES WELDABLE REINFORCEMENT BARS 4mm OF COMMERCIAL QUALITY.	20 TONS

04-01-01935	MOULD (forged steel) FOR PRODUCING CONCRETE POLES (11)m LENGHT.	10 pcs
04-01-01936	Shuting vehicle tugging capacity (250 Tons). Road and rail application. The engine to be diesel, 6 Cylinders, equipped with turb-charger, cooling to be with water. The vehicleshould be equipped with four rubber tiers for road use and four steel tiers for rail application. The transmission movements from the road to the rail should not exceed(40M). Drivers cabinet to be air-conditioned. Air brakes with Hydraulic exchanger, four-wheel drive. Automatic transmission. Equipd from the front and rear with hook assembly for tugging cargo car. Should be equipped with two batteries (120AMP*Volts) lights to be at both ends.	2 No
04-01-01937	Galv. St. Sheet 0.6 mm-3.2mm	500 TON
04-01-01938	Pre-coated St. Str. 0.5x1000 Roll	750 TON