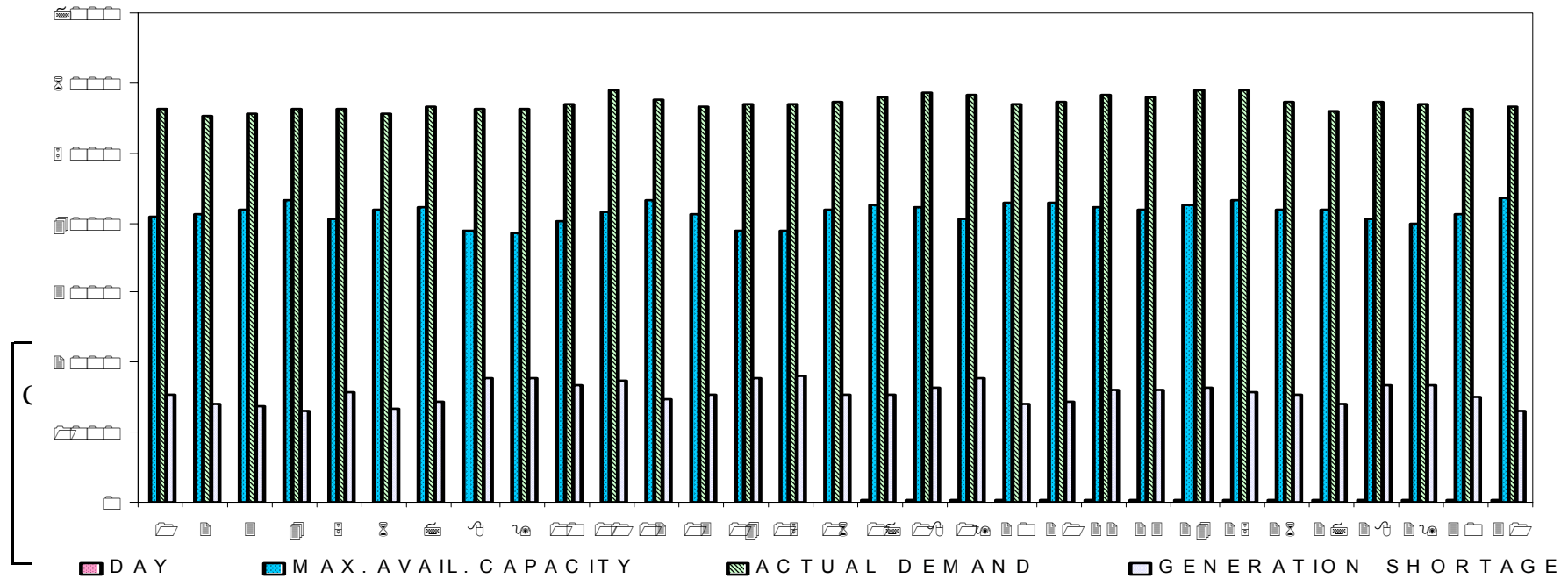


ANNEX 1  
(Electricity Sector)

**AVAILABLE CAPACITY , DEMAND , GENERATION SHORTAGE AND TOTAL INSTALLED CAPACITY OF THE SYSTEM DURING AUGUST 1999**



ANNEX 1  
AVAILABLE CAPACITY , DEMAND , GENERATION SHORTAGE AND TOTAL

**INSTALLED CAPACITY OF THE SYSTEM DURING AUGUST 1999**

DAY	MAX. AVAIL. CAPACITY	ACTUAL DEMAND	GENERATION SHORTAGE
1	4088	5616	1528
2	4120	5537	1417
3	4200	5573	1373
4	4322	5632	1310
5	4055	5620	1565
6	4200	5547	1347
7	4224	5654	1430
8	3871	5638	1767
9	3860	5641	1781
10	4020	5687	1667
11	4155	5890	1735
12	4314	5777	1463
13	4120	5666	1546
14	3893	5683	1790
15	3880	5698	1818
16	4198	5733	1535
17	4252	5787	1535
18	4214	5865	1651
19	4062	5823	1761
20	4302	5696	1394
21	4287	5716	1429
22	4227	5832	1608
23	4191	5801	1610
24	4254	5892	1638
25	4323	5892	1569
26	4193	5725	1532

27	4180	5596	1416
28	4167	5728	1661
29	3994	5678	1648
30	4125	5641	1516
31	4350	5662	1312

INSTALLED CAPACITY = 8090 MW

**Annex ( 2 )**  
**Phase VII**  
**( Electricity Sector )**

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

CODE	NETWORK POWER STATIONS
SECTION A 01	MUSSAIB POWER STATION
SECTION A 02	BAIJI POWER STATION
SECTION A 03	NASSIRIYAH POWER STATION
SECTION A 04	HARTHA POWER STATION
SECTION A 05	DAURA POWER STATION
SECTION A 06	NAJIBIYAH POWER STATION
SECTION A 07	BAGHDAD SOUTH POWER
SECTION A 08	DIBIS POWER STATION
SECTION A 09	ZAFARANIYAH DIESEL POWER STATION
SECTION A 10	SADDAM HYDRO – ELECTRIC POWER STATION
SECTION A 11	QADISSIYAH HYDRO – ELECTRIC POWER STATION
SECTION A 12	SAMARRA HYDRO – ELECTRIC POWER STATION

SECTION A 13	HIMREEN HYDRO – ELECTRIC POWER STATION
SECTION A 14	SINHAREEB HYDRO – ELECTRIC POWER STATION
SECTION A 15	AL-ADHAIM HYDRO – ELECTRIC POWER STATION
SECTION A 16	NAJAF GAS TURBINE POWER STATION
SECTION A 17	KHOR AL- ZUBAIR GAS TURBINE POWER STATION
SECTION A 18	MOSUL GAS TURBINE POWER STATION
SECTION A 19	TAJI GAS TURBINE POWER STATION
SECTION A 20	MULLA ABDULLA GAS TURBINE POWER STATION
SECTION A 21	HILLA GAS TURBINE POWER STATION
SECTION A 22	SHUAIBA GAS TURBINE POWER STATION
SECTION A 23	DAURA GAS TURBINE POWER STATION
SECTION A 24	DIBIS GAS TURBINE POWER STATION
SECTION A 25	PETRO CHEMICAL GAS TURBINE POWER STATION
SECTION A 26	YOUSIFIYAH POWER STATION
SECTION A 27	AL-ANBAR POWER STATION
SECTION A 28	NORTH POWER STATION
SECTION A 29	SALAH AL – DEEN POWER STATION ( 4 X 300 MW )

SECTION A 30	GAS TURBINE UNITS
SECTION A 31	MOBILE GAS TURBINE UNITS
SECTION A 32	BAGHDAD EAST POWER STATION
SECTION B 33	TRANSMISSION NETWORK
SECTION B 34	GENERAL PURPOSE EQUIPMENT AND TOOLS
SECTION C 35	DISTRIBUTION NETWORK
SECTION D 36	TRAINING PROGRAMMES, TOOLS AND FACILITIES
SECTION E 37	TURBINE AND GENERATOR MAINTENANCE WORK SHOP
SECTION E 38	BOILER MAINTENANCE WORK SHOP
SECTION E 39	TRANSFORMER AND CONTROL SYSTEM MAINTENANCE WORK SHOP
SECTION F 40	MISCELLANEOUS EQUIPMENT

**- AL - MUSSAIB POWER STATION**

QTY	ITEM	Code
1000 PC+ 500 SET	TURBINE SYSTEM EQUIPMENT	04-01-00001
100000 PCS	BOILER TUBES	04-01-00002
2000 PCS+	BOILER AUXILIARY SYSTEM	04-01-00003
1500 KG.	PACKING OF DIFFERENT SIZES	04-01-00004

4 SETS	AIR HEATERS	04-01-00005
50000 PCS.	CONDENSER TUBES	04-01-00006
1000 NOS + 500 SET.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00007
1200 NOS+ 600 SET.	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00008
2 UNITS	POWER TRANSFORMERS	04-01-00009
1000 NOS. + 500 SET	VALVES OF VARIOUS SIZES	04-01-00010
1000 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00011
2000 PCS+500 SET.	WATER TREATMENT EQUIPMENT	04-01-00012
500 TONS	CORTEN STEEL	04-01-00013
5000 PCS+100 SET.	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00014
220 UNITS+500 NOS	DC POWER SUPPLY EQUIPMENT	04-01-00015
25 SETS +200 NOS	GENERATOR , SYSTEM EQUIPMENT	04-01-00016
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00017
50 TON	ELECTRODES OF DIFFERENT SIZES	04-01-00018
1000 TONS	TURBINE OIL	04-01-00019
175 SET	SPARE PARTS OF AL-MUSSAIB TURBINES (ROTOR – BLADES DIAPHRAM , ELECTRONIC COMPONTS ...ETC.)	04-01-00020
4 UNTS	GAS TURBINES WITH ACCESSARIES	04-01-00021

### **A 02 -BAIJI POWER STATION**

QTY	ITEM	Code
50000 PCS + 5000 SET.	TURBINE SYSTEM EQUIPMENT	04-01-00022
100000 PCS.	BOILER TUBES	04-01-00023
500 PCS + 2000 KG	BOILER AUXILIARY SYSTEM	04-01-00024
2000 KG	PACKING OF DIFFERENT SIZES	04-01-00025

6 SETS	AIR HEATERS	04-01-00026
95000 PCS.	CONDENSER TUBES	04-01-00027
300 NOS.+ 200 SET	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00028
100 SET + 2000 PCS	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00029
2 UNITS	POWER TRANSFORMERS	04-01-00030
2000 NOS + 1000 SET	VALVES OF VARIOUS SIZES	04-01-00031
1000 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00032
5000 PCS + 1000 SET.	WATER TREATMENT EQUIPMENT	04-01-00033
650* TONS	CORTEN STEEL	04-01-00034
5000 PCS + 2000 SET.	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00035
2500 UNITS + 1000 PCS	DC POWER SUPPLY EQUIPMENT	04-01-00036
2000 SETS + 1000 PCS	GENERATOR , SYSTEM EQUIPMENT	04-01-00037
6 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00038
50 TON	ELECTRODES OF DIFFERENT SIZES	04-01-00039
1000 TONS	TURBINE OIL	04-01-00040
4 UNITS	GAS TURBINE POWER STATION 160 MW EACH WITH AUXILARIES .	04-01-00041
LOT	EQUIPMENT FOR ERECTION AND CONSUMABLE MATERIALS	04-01-00042
9 UNITS	GAS TURINE FREAM (6) WITH ACCESSARIES	04-01-00043
LOT	EQUIPMENT FOR ERECTION AND CONSUMABLE MATERALS FOR GAS TURBINE POWER STATION .	04-01-00044

### **SECTION A 03 - NASSIRIYAH POWER STATION**

QTY	ITEM	CODE
20000 PCS+2000 SET.	TURBINE SYSTEM EQUIPMENT	04-01-00045

100000 TUBES.	BOILER TUBES	04-01-00046
10000 PCS +100 SET	BOILER AUXILIARY SYSTEM	04-01-00047
2000 KG	PACKING OF DIFFERENT SIZES	04-01-00048
8 SETS	AIR HEATERS	04-01-00049
200000 PCS.	CONDENSER TUBES	04-01-00050
2400 NOS + 60 SET.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00051
1000 SET + 500 NOS.	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00052
2 UNITS	POWER TRANSFORMERS	04-01-00053
9000 NOS.	VALVES OF DIFFERENT TYPES	04-01-00054
2000 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00055
9500 PCS.+ 1500 SET	WATER TREATMENT EQUIPMENT	04-01-00056
300 TONS	CORTEN STEEL	04-01-00057
10000 PCS + 2000 SET.	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS.	04-01-00058
4500 UNITS+4500 NOS	DC POWER SUPPLY EQUIPMENT	04-01-00059
2500 SETS + 5000 NOS.	GENERATOR , SYSTEM EQUIPMENT	04-01-00060
50 TON	ELECTRODES OF DIFFERENT SIZES	04-01-00061
1000 TONS	TURBINE OIL	04-01-00062
2 PCS	ROTOR OF TVV-200 GENERATOR	04-01-00063
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00064

#### **SECTION A 04 - HARTHA POWER STATION**

QTY	ITEM	CODE
<a href="#">9000 PCS + 500 SET.</a>	TURBINE SYSTEM EQUIPMENT AND	04-01-00065
<a href="#">50000 TUBES.</a>	BOILER TUBES	04-01-00066
<a href="#">50 SET + 1000 PCS.</a>	BOILER AUXILIARY SYSTEM AND SPARE	04-01-00067
<a href="#">2000 KG</a>	PACKING OF DIFFERENT SIZES	04-01-00068
<a href="#">4 SETS</a>	AIR HEATERS	04-01-00069
<a href="#">250000 PCS.</a>	CONDENSER TUBES	04-01-00070
<a href="#">52000 NOS.+ 5000 SET</a>	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00071

<a href="#">2000 SET + 18,500* PCS.</a>	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00072
<a href="#">2 UNITS</a>	POWER TRANSFORMERS	04-01-00073
<a href="#">5000 NOS.</a>	VALVES OF DIFFERENT TYPES	04-01-00074
1500 TONS	SODIUM HYDROXIDE (CHEMICALS FOR WATER TREATMENT)	04-01-00075
<a href="#">30000 PCS + 500 SET.</a>	WATER TREATMENT EQUIPMENT	04-01-00076
<a href="#">100 TONS</a>	CORTEN STEEL	04-01-00077
15000 PCS + 3500 SET.	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00078
<a href="#">2500 UNITS+7500 PCS</a>	DC POWER SUPPLY EQUIPMENT	04-01-00079
<a href="#">5000 SETS + 500 PCS</a>	GENERATOR , SYSTEM EQUIPMENT	04-01-00080
<a href="#">50 TON</a>	ELECTRODES OF DIFFERENT SIZES	04-01-00081
<a href="#">1000 TONS</a>	TURBINE OIL	04-01-00082
LOT	SPARE PARTS FOR AL-HARTHA POWER STATION	04-01-00083
2 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00084

#### **05 - DAURA POWER STATION**

QTY	ITEM	Code
<a href="#">10000 PCS + 1000 SET.</a>	TURBINE SYSTEM EQUIPMENT	04-01-00085
<a href="#">50000 TUBES.</a>	BOILER TUBES	04-01-00086
<a href="#">1000 SET + 2000 PCS.</a>	BOILER AUXILIARY SYSTEM	04-01-00087
<a href="#">500 KG</a>	PACKING OF DIFFERENT SIZES	04-01-00088
4 SETS	AIR HEATERS	04-01-00089
250000 PCS.	CONDENSER TUBES	04-01-00090
2000 NOS + 1000 SET.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00091
10000 SET + 5000 NOS	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00092
2 UNITS	POWER TRANSFORMERS	04-01-00093
15000 NOS.	VALVES OF DIFFERENT TYPES	04-01-00094

1000 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00095
5000 PCS. + 200 SET	WATER TREATMENT EQUIPMENT	04-01-00096
100 TONS	CORTEN STEEL	04-01-00097
10000 PCS + 1000 SET.	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00098
7500 UNITS+1000 NOS	DC POWER SUPPLY EQUIPMENT	04-01-00099
5000 SETS + 1000 NOS	GENERATOR , SYSTEM EQUIPMENT	04-01-00100
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00101
50 TON	ELECTRODES OF DIFFERENT SIZES	04-01-00102
1000 TONS	TURBINE OIL	04-01-00103

**SECTION A 06 –NAJIBIYAH POWER STATION**

QTY	ITEM	Code
10000 PCS + 1000 SET.	TURBINE SYSTEM EQUIPMENT	04-01-00104
100000 TUBES.	BOILER TUBES	04-01-00105
10000 PCS.+ 1500 SET	BOILER AUXILIARY SYSTEM	04-01-00106
1500 KG	PACKING OF DIFFERENT SIZES	04-01-00107
4 SETS	AIR HEATERS	04-01-00108
80000 PCS.	CONDENSER TUBES	04-01-00109
2000 NOS.+ 1000 SET	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00110
1000 SET + 500 NOS.	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00111
2 UNITS	POWER TRANSFORMERS	04-01-00112
10000 NOS. + 500 SETS	VALVES OF DIFFERENT TYPES	04-01-00113
500 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00114
50000 PCS. + 500 SET	WATER TREATMENT EQUIPMENT	04-01-00115
100 TONS	CORTEN STEEL	04-01-00116
5000 PCS + 1000 SET.	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00117
7500 UNITS +1000 PCS	DC POWER SUPPLY EQUIPMENT	04-01-00118
5000 SETS + 1000 NOS	GENERATOR , SYSTEM EQUIPMENT	04-01-00119

2 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00120
100 TONS	ELECTRODES OF DIFFERENT SIZES	04-01-00121
1000 TONS	TURBINE OIL	04-01-00122

**SECTION A 07 - BAGHDAD SOUTH POWER STATION**

QTY	ITEM	Code
2000 PCS + 1000 SET.	TURBINE SYSTEM EQUIPMENT	04-01-00123
60000 TUBES.	BOILER TUBES	04-01-00124
10000 PCS.+ 500 SET	BOILER AUXILIARY SYSTEM	04-01-00125
1000 KG	PACKING OF DIFFERENT SIZES	04-01-00126
6 SETS	AIR HEATERS	04-01-00127
50000 PCS.	CONDENSER TUBES	04-01-00128
2000 NOS + 1000 SET.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00129
200 SET + 100 NOS	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00130
2 UNITS	POWER TRANSFORMERS	04-01-00131
10000 NOS.+ 1000 SET	VALVES OF DIFFERENT TYPES	04-01-00132
750 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00133
20000 PCS + 1000 SET.	WATER TREATMENT EQUIPMENT	04-01-00134
100 TONS	CORTEN STEEL	04-01-00135
50000 PCS. + 2000 SET	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00136
7500 UNITS+100 PCS	DC POWER SUPPLY EQUIPMENT	04-01-00137
2000 SETS + 10000 PCS.	GENERATOR , SYSTEM EQUIPMENT	04-01-00138
2 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00139
500 TONS	TURBINE OIL	04-01-00140
50 TON	ELECTRODES OF DIFFERENT SIZES	04-01-00141
3 UNITS	GAS TURBINE WITH ACCESSARIES	04-01-00142

**SECTION A 08 - DIBIS POWER STATION**

QTY	ITEM	Code
100 PCS.	TURBINE SYSTEM EQUIPMENT	04-01-00143
10000 TUBES.	BOILER TUBES	04-01-00144
200 PCS + 100 SET	BOILER AUXILIARY SYSTEM	04-01-00145
500 KG	PACKING OF DIFFERENT SIZES	04-01-00146
40000 TUBES.	CONDENSER TUBES	04-01-00147
100 NOS + 50 SET.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00148
300 SET + 100 NOS.	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00149
2 UNITS	POWER TRANSFORMERS	04-01-00150
200 NOS.	VALVES OF DIFFERENT TYPES	04-01-00151
2000 PCS + 100 SET.	CONTROL , PROTECTION AND MEASURING SYSTEM.	04-01-00152
1250 UNITS+100 PCS	DC POWER SUPPLY EQUIPMENT	04-01-00153
100 SETS + 50 PCS	GENERATOR , SYSTEM EQUIPMENT	04-01-00154
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00155
50 TON	ELECTRODES OF DIFFERENT SIZES	04-01-00156
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00157

**SECTION A 09 – ZAFARANIYAH DIESEL POWER STATION**

QTY	ITEM	Code
4 UNITS.	REHABILITATION AND ENGINEERING SERVICES	04-01-00158

**SECTION A 10 - SADDAM HYDRO - ELECTRIC POWER TATION**

QTY	ITEM	Code
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40 SETS	TURBINE SYSTEM EQUIPMENT	04-01-00159
200 PCS	GENERATOR SYSTEM EQUIPMENT	04-01-00160
600 PCS	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS.	04-01-00161
200 SETS	SWITCH YARD EQUIPMENT	04-01-00162
1200 UNITS	DC POWER SUPPLY EQUIPMENT	04-01-00163
200 UNITS	GATES AND VALVES	04-01-00164
60 UNITS	AIR COMPRESSORS AND ACCESSORIES	04-01-00165

#### **SECTION A11- QADISSIYAH HYDRO - ELECTRIC POWER STATION**

QTY	ITEM	Code
1000 PCS + 10 SET	TURBINE SYSTEM EQUIPMENT	04-01-00166
1000 PCS	GENERATOR SYSTEM EQUIPMENT	04-01-00167
1500 PCS	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS.	04-01-00168
400 SETS	SWITCH YARD EQUIPMENT	04-01-00169
1250 UNITS	DC POWER SUPPLY EQUIPMENT	04-01-00170
500 UNITS	GATES AND VALVES	04-01-00171
400 UNITS	AIR COMPRESSORS AND ACCESSORIES	04-01-00172
1000 M.	400 KV OIL FILLED CABLES	04-01-00173
140 UNITS	CABLE BOX TERMINATIONS	04-01-00174

#### **SECTION A12- SAMARRA HYDRO – ELECTRIC POWER STATION**

QTY	ITEM	Code
50 SETS	TURBINE SYSTEM EQUIPMENT	04-01-00175
100 SETS	GENERATOR SYSTEM EQUIPMENT	04-01-00176
30 SETS + 100 NOS	CONTROL , MEASUREMENT AND	04-01-00177

1100 UNITS	DC POWER SUPPLY EQUIPMENT	04-01-00178
100 SETS	GATES AND VALVES	04-01-00179
60 SETS	AIR COMPRESSORS AND ACCESSARIES	04-01-00180

**SECTION A 13 - HIMREEN HYDRO - ELECTRIC POWER STATION**

QTY	ITEM	Code
100 SETS	TURBINE SYSTEM EQUIPMENT	04-01-00181
200 PCS.	GENERATOR SYSTEM EQUIPMENT	04-01-00182
100 PCS.	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00183
100 SETS	SWITCH YARD EQUIPMENT	04-01-00184
1200 UNITS	DC POWER SUPPLY EQUIPMENT	04-01-00185
100 SETS	GATES AND VALVES	04-01-00186
20 SETS	AIR COMPRESSORS AND ACCESSARIES	04-01-00187
2 UNITS	GAS TURBINE WITH ACCESSARIES	04-01-00188

**HYDRO - ELECTRIC POWER STATION ( 4 X 42.5) MW**

QTY	ITEM	Code
4 UNITS	ENGINEERING , EMBEDDED PARTS AND MANUFACTURING OF SOME PARTS FOR THE SUPPLY OF (4X42.5)MW UNIT.	04-01-00189
LOT	EQUIPMENT ( ELECTRO MECHANICAL) FOR SUPPLYING (4X42.5 MW) HYDRO POWER UNITS	04-01-00190
LOT	TESTING AND INSPECTION EQUIPMENT	04-01-00191

**SECTION A 15 – AL-ADHAIM HYDRO - ELECTRIC POWER STATION ( 2 X 15) MW**

QTY	ITEM	Code
2 UNITS	ENGINEERING , EMBEDDED PARTS AND MANUFACTURING OF SOME PARTS FOR THE SUPPLY OF (2X 15) MW	04-01-00192
LOT	EQUIPMENT ( ELECTRO MECHANICAL) FOR SUPPLYING (2X15 MW) HYDRO POWER UNITS	04-01-00193
5 set	TESTING , INSPECTION EQUIPMENT	04-01-00194

**SECTION A 16 - NAJAF GAS TURBINE POWER STATION**

QTY	ITEM	Code
(2000) NOS. (400) SET	TURBINE AND COMPRESSOR BLADES , MOVING STATIONARY WITH ACCESSORIES	04-01-00195
(1000 ) NOS. + 500 SET	INNER CASING AND HOT PATH EQUIPMENT	04-01-00196
1000 NOS + 500 SET.	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00197
20 NOS.	GAS UNITS STARTING DEVICE	04-01-00198
1500 NOS. + 500 SET	CONTROL , MEASUREMENT AND PROTECTION SYSTEMS.	04-01-00199
300 NOS.	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00200
100 NOS.	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00201
500 NOS + 5 ETS	BATTERIES , CHARGERS AND CONVERTERS	04-01-00202
100 NOS.	SWITCH YARD EQUIPMENT	04-01-00203
3 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00204

2 UNITS	GAS TURBINE 165MW EACH WITH ACCESSARIES	04-01-00205
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**SECTION A 17 - KHOR AL – ZUBAIR GAS TURBINE POWER STATION**

QTY	ITEM	Code
3000 NOS.	TURBINE AND COMPRESSOR BLADES	04-01-00206
50 SETS	MOVING STATIONARY WITH ACCESSARIES	
1500 NOS. + 500 SET	INNER CASING AND HOT PATH EQUIPMENT	04-01-00207
1000 NOS.	COMBUSTION EQUIPMENT AND ACCESSARIES	04-01-00208
50 SETS		
20 NOS.	GAS UNITS STARTING DEVICE	04-01-00209
1000 NOS. + 500 SET	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00210
1500 NOS. + 500 SET	GENERATOR , EXCITATION AND ACCESSARIES	04-01-00211
1500 NOS. + 500 SET	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00212
5000 NOS.	BATTERIES , CHARGERS AND CONVERTERS	04-01-00213
100 SETS		
1000 SET + 2000 PCS	SWITCH YARD EQUIPMENT	04-01-00214
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00215
3 UNITS	GAS TURBINE UNITS WITH ACCESSARIES	04-01-00216

**SECTION A 18- MOSUL GAS TURBINE POWER STATION**

QTY	ITEM	Code
10000 NOS.	TURBINE AND COMPRESSOR BLADES	04-01-00217

2000 SET	MOVING STATIONARY WITH ACCESSARIES	
150 NOS.	INNER CASING AND HOT PATH EQUIPMENT	04-01-00218
2000 NOS + 20 SET.	COMBUSTION EQUIPMENT AND ACCESSARIES	04-01-00219
1500 NOS + 500 SET	GAS UNITS STARTING DEVICE	04-01-00220
500 NOS + 500 SET	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00221
2000 NOS+300 UNITS	GENERATOR , EXCITATION AND ACCESSARIES	04-01-00222
2500 NOS + 1000 SET.	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00223
1500 NOS + 500 SET	BATTERIES , CHARGERS AND CONVERTERS	04-01-00224
2500 NOS.+ 500 SET	SWITCH YARD EQUIPMENT	04-01-00225
10 UNITS.	SUPERVISION FOR REHABILITATION	04-01-00226
12 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00227
LOT	GENERAL SPARE PARTS FOR FRAME-5 GAS TURBINES	04-01-00228
2 UNITS	GAS TURBINE UNITS AND ACCESSARIES	04-01-00229

**SECTION A 19 - TAJI GAS TURBINE POWER STATION**

QTY	ITEM	Code
1000 NOS.	TURBINE AND COMPRESSOR BLADES	04-01-00230
4 SETS	MOVING STATIONARY WITH ACCESSARIES	
10000 NOS.	INNER CASING AND HOT PATH EQUIPMENT	04-01-00231
400 SETS		

10000 NOS. 400 SETS	COMBUSTION EQUIPMENT AND ACCESSARIES	04-01-00232
15000 NOS. 1000 SETS	GAS UNITS STARTING DEVICE	04-01-00233
1500 NOS.+ 500 SET	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00234
1000 NOS.+ 500 SET	GENERATOR , EXCITATION AND ACCESSARIES	04-01-00235
1500 NOS. + 500 SET	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00236
1000 NOS. + 500 SET	BATTERIES , CHARGERS AND CONVERTERS	04-01-00237
1000 NOS. + 500 SET	SWITCH YARD EQUIPMENT	04-01-00238
7 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00239
22 UNITS	REHABILITATION AND ENGINEERING SERVICES FOR MOBILE G.T. UNITS ( IHI & GEC )	04-01-00240
2 UNIT	GAS TURBINE UNITS AND ACCESSARIES	04-01-00241

**SECTION A 20 - MULLA ABDULLA GAS TURBINE POWER STATION**

QTY	ITEM	Code
15000 NOS. 400 SETS	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	04-01-00242
1500 NOS. 400 SETS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00243

1000 NOS. 400 SETS	COMBUSTION EQUIPMENT AND ACCESSARIES	04-01-00244
500 NOS. 250 SETS	GAS UNITS STARTING DEVICE	04-01-00245
1800 NOS+100 SET	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00246
2000 NOS + 100 SET.	GENERATOR , EXCITATION AND ACCESSARIES	04-01-00247
1200 NOS + 100 SET.	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00248
500 NOS+200 SETS	BATTERIES , CHARGERS AND CONVERTERS	04-01-00249
1000 NOS + 500 SET.	SWITCH YARD EQUIPMENT	04-01-00250
10 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00251
12 UNITS	GAS TURBINE UNITS AND ACCESSARIES	04-01-00252

**SECTION A 21 - HILLA GAS TURBINE POWER STATION**

QTY	ITEM	Code
5000 NOS. 100 SET	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	04-01-00253
40 SETS + 100 NOS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00254
2500 NOS 100 SETS	COMBUSTION EQUIPMENT AND ACCESSARIES	04-01-00255
2000 NOS+60 SETS	GAS UNITS STARTING DEVICE	04-01-00256

1500 NOS.+ 500 SET	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00257
1000 NOS. + 500 SET	GENERATOR, EXCITATION AND ACCESSARIES	04-01-00258
550 NOS.+ 100 SET	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00259
100 NOS. + 50 SET	BATTERIES , CHARGERS AND CONVERTERS	04-01-00260
500 NOS + 50 SETS	SWITCH YARD EQUIPMENT	04-01-00261
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00262
2 UNITS	GAS TURBINE UNITS & ACCESSARIES	04-01-00263

**SECTION A 22 - SHUAIBA GAS TURBINE POWER STATION**

QTY	ITEM	Code
3000 NOS.	TURBINE AND COMPRESSOR BLADES	04-01-00264
400 SETS	MOVING STATIONARY WITH ACCESSARIES	
1000 NOS.	INNER CASING AND HOT PATH EQUIPMENT	04-01-00265
400 SETS		
10000 NOS.	COMBUSTION EQUIPMENT AND ACCESSARIES	04-01-00266
40 SETS		
150 NOS.+10 SET	GAS UNITS STARTING DEVICE	04-01-00267
750 NOS.+ 10 SET	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00268
500 NOS + 100 SET	GENERATOR , EXCITATION AND ACCESSARIES	04-01-00269
100 NOS + 50 SET.	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00270

500 NOS + 50 SETS	BATTERIES , CHARGERS AND CONVERTERS	04-01-00271
2000 NOS + 100 SET.	SWITCH YARD EQUIPMENT	04-01-00272
2 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00273

**SECTION A 23 - DAURA GAS TURBINE POWER STATION**

QTY	ITEM	Code
6000 NOS 600 SETS.	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	04-01-00274
1000 NOS.+ 600 SETS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00275
4000 NOS. 2500 SETS	COMBUSTION EQUIPMENT AND ACCESSARIES	04-01-00276
1000 NOS.+ 50 SET	GAS UNITS STARTING DEVICE	04-01-00277
2500 NOS.	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00278
1350 NOS+100 SET.	GENERATOR , EXCITATION AND ACCESSARIES	04-01-00279
5000 NOS.+500 SET	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00280
1750 NOS+ 100 SET	BATTERIES , CHARGERS AND CONVERTERS	04-01-00281
150 NOS + 100 SET.	SWITCH YARD EQUIPMENT	04-01-00282
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00283

**SECTION A 24 - DIBIS GAS TURBINE POWER STATION**

QTY	ITEM	Code
3000 NOS. 400 SETS	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSARIES	04-01-00284

1000 NOS. + 400 SETS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00285
2000 NOS.+ 500 SETS	COMBUSTION EQUIPMENT AND ACCESSARIES	04-01-00286
1000 NOS.+ 500 SETS	GAS UNITS STARTING DEVICE	04-01-00287
250 NOS+ 100 SET	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00288
4000 NOS+100 SET	GENERATOR , EXCITATION AND ACCESSARIES	04-01-00289
2000 NOS + 1000 SET	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00290
2000 NOS + 50 UNITS.	BATTERIES , CHARGERS AND CONVERTERS	04-01-00291
1000 NOS.+500 SET	SWITCH YARD EQUIPMENT	04-01-00292
1 SET	DIFFUSER FOR TURBINE , UPPER AND LOWER PARTS	04-01-00293
3 UNTS	REHABILITATION AND ENGINEERING SERVICES	04-01-00294
3 UNITS	GAS TURBINE WITH ACCESSARIES	04-01-00295

### **SECTION A 25 – PETRO CHEMICAL GAS UNITS**

QTY	ITEM	Code
1000 NOS. 4 SETS	TURBINE AND COMPRESSOR BLADES WITH ACCESSARIES	04-01-00296
500 NOS.+ 4 SETS	HOT PATH AND COMBUSTION EQUIPMENT AND ACCESSARIES	04-01-00297
500 NOS+10 SETS	GAS UNITS STARTING DEVICE	04-01-00298
500 NOS.	CONTROL , MEASURMENT AND PROTECTION SYSTEMS.	04-01-00299
750 NOS+ 5 UNITS	GENERATOR , EXCITATION AND ACCESSARIES, BATTERY CHARGERS AND CONVERTERS	04-01-00300
1500 NOS+5 SETS	PUMPS , MOTORS , ROTARY MACHINES, FILTERS	04-01-00301
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00302

**IFIYAH POWER STATION ( 8 X 210 ) MW**

QTY	ITEM	Code
8 UNITS	COMPLETE POWER STATION WITH ALL AUXILIARY UNITS AND SERVICES.	04-01-00303

**ANBAR POWER STATION ( 6X300 ) MW**

QTY	ITEM	CODE
6 UNITS	COMPLETE POWER STATION WITH ALL AUXILIARY UNITS AND SERVICES	04-01-00304

**ORTH POWER STATION (4X 350 MW)**

QTY	ITEM	CODE
4 UNITS	COMPLETE BOILERS & ACCESSARIES	04-01-00305
4 UNITS	COMPLETE TURBINE & ACCESSARIES	04-01-00306
4 UNITS	COMPLETE GENERATOR & ACCESSARIES	04-01-00307
LOT	WATER TREATMENT PLANT & ACCESSARIES	04-01-00308
LOT	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00309
4 UNITS	SUPPLY, ERRECTION, FITTING EQUIPMENT AND ALL GENERAL SYSTEMS. SUPPLY OF GAS , HEAVY AND LIGHT OIL SYSTEMS AND DISCHARGE SYSTEM , OIL CARRIER TRUCK AND ALL OTHER ACCESSARIES .	04-01-00310

4 UNITS	SUPPLY OF COOLING EQUIPMENT WITH ACCESSORY EQUIPMENT AND CIVIL ENGINEERING MATERIALS	04-01-00311
4 UNITS	SUPPLY OF HYDROGEN AND OXEGEN GENERATION EQUIPMENT AND COMPRESSORS WITH OTHER	04-01-00312
4 UNIT	SUPPLY OF ALL TRANSFORMERS NEEDED FOR THE POWER STATION .	04-01-00313
4 UNIT	SUPPLY OF WATER INTAKE PUMPING FROM THE RIVER. WATER TREATMENT PLANT, VALVES AND ALL ACCESSARIES	04-01-00314
40 MAN – MONTH	PROJECT CONSULTATION AND WORK COORDINATION	04-01-00315
1 LOT	TEST AND INSPECTION EQUIPMENT	04-01-00316
4 UNIT	SUPPLY OF AUTOMATIC CONTROL AND ELECTRICAL EQUIPMENT	04-01-00317
LOT	SUPPLY OF ALL THE CABLE NEEDED FOR POWER STATION .	04-01-00318
LOT	SUPPLY OF ALL COMMUNICATION EQUIPMENT NEEDED FOR 4 UNITS	04-01-00319
4 UNIT	GAS TURBINE 160 MW EACH WITH AUXILIARIES	04-01-00320

**AL-DEEN POWER STATION ( 4 X 300 MW )**

CODE	ITEM	QTY
04-01-00321	ENGINEERING AND CAMP FACILITIES WITH CIVIL ENGINEERING MATERIALES FOR CONSTRUCTION THE PROJECT	4 UNIT
04-01-00322	SUPPLY EQUIPMENT AND SERVICES FOR TWO UNITS FIRST STAGE ( 2 X 300 MW )	2 UNIT

04-01-00323	SUPPLY OF TWO UNITS ( 2 X 300 MW ) AS SECOND STAGE	2 UNIT
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**A 30 - GAS TURBINE UNITS**

CODE	ITEM	QTY
04-01-00324	GAS TURBINE UNITS WITH ACCESSARIES (FRAME 9 OR EQUIVALENT) WITH COMBINED CYCLE .	14 UNIT
04-01-00325	GAS TURBINE UNITS WITH ACCESSARIES (FRAME 6 OR EQUIVALENT ).	14 UNIT
04-01-00326	GAS TURBINE UNITS WITH ACCESSARIES (FRAME 5 OR EQUIVALENT ).	14 UNIT

**SECTION A31 - MOBILE GAS TURBINE**

CODE	ITEM	QTY
04-01-00327	MOBILE GAS TURBINE WITH ACCESSARIES (2-15 MW )	50 UNITS
04-01-00328	SUBSTATION 132 / 33 / KV COMPLETE WITH ALL ACCESSARIES	25 UNITS
04-01-00329	FLOATING GAS TURBINE UNITS WITH ACCESSARIES (4 X 25MW) .	4 UNIT

**SECTION A32 - BAGHDAD EAST GAS POWER STATION**

QTY	ITEM	CODE
6 UNIT	GAS POWER STATION COMPLATE WITH ACCESSARIES (6X123.5MW )	04-01-00330
LOT	EQUIPMENT FOR ERECTION AND CONSUMABLE MATERIALS	04-01-00331

**SECTION B 33 - TRANSMISSION NETWORK**

QTY	ITEM	Code
2500 SETS + 1000 PCS	SWITCH GEARS WITH SPARES	04-01-00332
50 UNITS+1500 SET	TRANSFORMERS AND SPARE PARTS	04-01-00333
3000 SETS 1500 PCS.	CIRCUIT BREAKERS AND SPARE PARTS	04-01-00334
3000 SETS + 1000 NOS.	DC POWER SUPPLY EQUIPMENT AND ACCESSARIES	04-01-00335
5000 SETS + 1000 PCS	TESTING EQUIPMENT OF DIFFERENT TYPES	04-01-00336
10000 PCS.+ 2000 NOS.	ELECTRICAL POWER SUPPLY CENTER SPARES	04-01-00337
5000 SETS+10000 NOS	TRANSMISSION LINES SPARES	04-01-00338
LOT	BAGHDAD EAST-BAGHDAD SOUTH 400KV LINE EQUIPMENT	04-01-00339
LOT	BAGHDAD EAST- DIYALAH – TAMEEM 400KV LINES EQUIPMENT	04-01-00340
20 UNITS	MOBILE SUBSTATION 132/33KV 15MVA	04-01-00341
20 UNITS	MOBILE SUBSTATION 132/11KV 10MVA OR 25MVA	04-01-00342
1500 SET + 600 PCS	POWER LINE CARRIER COMMUNICATION EQUIPMENT	04-01-00343
1000 PCS	WIRELESS EQUIPMENT FOR MOBILE AND PORTABLE COMMUNICATION	04-01-00344
1000 SET + 2000 PCS	PILOT CABLE CARRIER COMMUNICATION EQUIPMENT	04-01-00345
1000 SET + 500 PCS	SWITCHING COMMUNICATION EQUIPMENT	04-01-00346
280 SET + 500 PCS	VHF / MW COMMUNICATION EQUIPMENT	04-01-00347
500 SET+ 1000NOS	FIBER OPTICS COMMUNICATION SDH EQUIPMENT	04-01-00348
3000 KM	FIBER OPTICS COMMUNICATION CABLES	04-01-00349

1 NO	NETWORK MANAGEMENT CENTRE FOR COMMUNICATION EQUIPMENT	04-01-00350
500 PCS + 300 SET	TEST EQUIPMENT FOR COMMUNICATION SYSTEMS	04-01-00351
	<b><u>TRANSMISSION AND DISTRBUTION NETWORK MATERIALS AND ACCESSARIES</u></b>	
15000 NOS	- TOWERS OF DIFFERENT TYPES	04-01-00352
100000 NOS	- INSULATORS	04-01-00353
20000 KM + 10000 TON	- WIRES OF ALUMINIUM AND COPPER	04-01-00354
10000 SET + 1000 PCS	- SAFETY EQUIPMENT	04-01-00355
1000 UNITS + 10000 PCS + 5000 SET	- AIR CONDITIONING EQUIPMENT WITH ALL ACCESSARIES AND SPARES	04-01-00356
5000 TON	- GRAIN ORIENTED SILCON STEEL	04-01-00357
2,000 TON*	enamelling wires and enamel oil	04-01-00358
2000 TON	- INSULATION PAPERS	04-01-00359
3000 TON	- P.V.C. FOR SHEATING AND INSULATION	04-01-00360
5000 TON	-LEADS ALLOY	04-01-00361
100000 PCS+ 21,800** SET	- ACCESSARIES	04-01-00362
500 TONS	- WHITE METAL	04-01-00363
1000 SET + 500 NOS.	POWER TRANSFORMERS MATERIALS AND ACCESSARIES	04-01-00364

1000 SET	EQUIPMENT AND MATERIALS FOR REPAIR WORKSHOP OF POWER TRANSFORMERS TO COVER THE FOLLOWING:- POSITIVE PRESSURE EQUIPMENT , DRY AIR FACILITIES , LIFTING FACILITIES AND MATERIALS AND TOOLS .	04-01-00365
4 NOS	ELECTRICITY DISPATCH CENTERS ( REHABILITATION AND INSTALLATION OF NEW CENTERS )	04-01-00366
LOT	REHABILITATION AND INSTALLATION OF NEW TELECOMMUNICATION EQUIPMENT FOR VOICE, DATA COMMUNICATION AND POWER LINE PROTECTION	04-01-00367

10000 TON	ALUMINIUM INGOT FOR PRODUCTION OF ACSR ELECTRICAL POWER TRANSMISSION LINES	04-01-00368
10000 TON	STEEL REINFORCEMENT CABLES FOR ELECTRICAL POWER TRANSMISSION LINES	04-01-00369
3 UNITS	NEW SUBSTATION 132/33/11 KV FOR (MOSOUL-MANSOUR) AND ( HADITHA ) , ( GHAMMAS )	04-01-00370
3 UNITS	EXTENTION OF EXISTING SUBSTATION 132/33/11 KV FOR (TAJI) ( BAB AL-ZUBAIR) ( HINDIYAH BARRAGE)	04-01-00371
2500 SET + 500 NOS	TRANSDUCER AND METERING EQUIPMENT	04-01-00372
150000 SET + 2000 NOS	SWITCH YARD EQUIPMENT AND ACCESSARIES	04-01-00373
150000 SET + 2000 NOS.	SUBSTATION MAINTENANCE EQUIPMENT	04-01-00374
500 SET + 1000 PCS.	OIL AND SF6 PURIFICATION EQUIPMENT	04-01-00375
1000 TON	TRANSFORMER OIL OF DIFFERENT TYPES	04-01-00376
1000 KM + 10000 PCS + 5000 SET	POWER CABLES OF DIFFERENT SIZES AND VOLTAGES	04-01-00377
500 KM	CONTROL CABLES OF DIFFERENT SIZES	04-01-00378
50000 KG	SF6 GAS	04-01-00379
17 BAYS	BAGHDAD NETWORK, COMPLETE 132KV LINE BAYS (ISKAN AL-KHIR, JAZAIR, DAURA, YARMUK, TAJI , RASHIDIA )	04-01-00380

	132 KV NEW S/S & EXTENSION ( BASRAH NET WORK )	04-01-00381
LOT	BASRAH NEW SENTER S/S COMPLETE NEW S/S	04-01-00382
4 BAYS	EXTENSION OF BASRAH EAST S/S COMPLETE 132KV LINE & TRANSFORMER BAYS	04-01-00383
1 BAY	EXTENSION OF NAJIBIYAH P.S. NETWORK COMPLETE 132 KV LINE BAY	04-01-00384
	<b><u>132 KV NEW S/S. &amp; EXTENSION</u></b>	
LOT	- AGARGUF S/S	04-01-00385
LOT	- ADHAMIYAH	04-01-00386
LOT	- AL-WASHASH	04-01-00387
4 BAYS	- AL-KADHAMIYAH EXTENSTION, COMPLETE 132KV LIN BAY	04-01-00388
2 BAYS	- AL-RASHIDIYAH EXTENSTION, COMPLETE 132KV LIN BAY	04-01-00389
2 BAYS	- AL-MAARI EXTENSTION, COMPLETE 132KV LIN BAY	04-01-00390
LOT	NEW S/S HADETHA	04-01-00391
LOT	NEW S/S BAQUBA	04-01-00392
LOT	NEW S/S HAWEGA	04-01-00393
LOT	132KV CABLES WITH OTHER ACCESSARIES	04-01-00394
2* LOT	132KV & 400KV OVER HEAD LINE WITH OTHER ACCESSARIES	04-01-00395
3 UNITS	EXTENTION OF EXISTING SUBSTATION 132/33/11 KV FOR ( TAJI) ( BAB AL- ZUBAIR) ( HINDIYA BARRAGE)	04-01-00396
25000 KM	POWER CABLES OF DIFFERENT SIZES	04-01-00397

25000 KM	CONTROL CABLES OF DIFFERENT SIZES	04-01-00398
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**SECTION B 34 – GENERAL PURPOSE EQUIPMENT AND TOOLS**

QTY	ITEM	CODE
250 NOS	CARS, PICKUPS, LORRIES	04-01-00399
400 NOS	CRANES AND LIFTING DEVICES	04-01-00400
16 NOS	TANKERS FOR CHEMICAL TRANSPORTATION AND FOR WATER TREATMANT	04-01-00401
20 NOS	AMBULANCE CARS	04-01-00402
50 NOS	FIRE FIGHTING VEHICLES	04-01-00403
1 LOT	CONCRETE BATCH PLANT WITH ACCESSARIES	04-01-00404
6 NOS	CONCRETE TRUCK MIXER	04-01-00405
4 NOS	CONCRETE LIFTING PUMPS , HEAD 16-45 METER	04-01-00406
10 SET	CIVIL ENGINEERING SURVEY TOOLS AND TEST EQUIPMENT	04-01-00407
5000 TON	REINFORCEMENT STEEL OF DIFFERENT SIZES	04-01-00408
505* TON	WELDING ELECTRODES OF DIFFERENT SIZES and flax*	04-01-00409
1000 TON	SHUTTERING WOOD OF DIFFERENT SIZES	04-01-00410
500 TON	METEL SHEET FOR CIVIL CONSTRUCTION OF DIFFERENT SIZES	04-01-00411

**SECTION C 35- DISTRIBUTION NETWORK**

QTY	UNIT	ITEM	CODE
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250	KM	CABLE XLPE 3X150 11 KV	04-01-00412
100	KM	CABLE XLPE 3X150 33 Kv	04-01-00413
200	KM	CABLE XLPE 1X400 33 KV	04-01-00414
2000	SET	STRAIGHT JOINT 1X400MM2 33 Kv	04-01-00415
300	SET	TERMINATIO N 1X400MM2 33 KV (OUTDOOR)	04-01-00416
1000	SET	STRAIGH T JOINT 3X150 MM2 33KV	04-01-00417
300	SET	TERMINATIO N JOINT 3X150 MM2 33KV (OUTDOOR)	04-01-00418
4000	SET	STRAIGHT JOINT 11kV OF DIFFERENT SIZES	04-01-00419
500	SET	STRAIGHT JOINT400VOL T 3X120+70	04-01-00420

250	SET	STRAIGHT JOINT 400VOLT 3X95+50	04-01-00421
500	SET	STRAIGHT JOINT 400VOLT 3X70+35	04-01-00422
200	SET	STRAIGHT JOINT 400VOLT 3X250+150	04-01-00423
20000	SET	CUT –OUT FUSE 11KV WITH THE FUSES	04-01-00424
100000	PCS	ELEMENT FUSE 20- 40&60 AMP.	04-01-00425
500	PCS	( ON –LOAD ) LINE ISOLATOR 11kV	04-01-00426
20000	PCS	PORCELAIN PIN TYPE INSULATORS WITH GALVANIZED STEEL SPINDLE 33 KV LONG TYPE	04-01-00427

80000	PCS	PORCELAIN PIN TYPE INSULATORS WITH GALVANIZED STEEL SPINDLE 11 KV LONG TYPE	04-01-00428
80000	PCS	DISC INSULATORS FOR 11KV	04-01-00429
36000	PCS	DISC INSULATORS FOR 11KV -SOCKET EYE	04-01-00430
25000	PCS	DISC INSULATORS FOR 11KV -SUSPENSIO N CLAMP FOR 120/20&210/35	04-01-00431
11000	PCS	DISC INSULATORS FOR 11KV -TENSION CLAMP FOR 120/20&210/35	04-01-00432
36000	PCS	DISC INSULATORS FOR 11KV - BALL EYE	04-01-00433

120000	PCS	SHACKLE INSULATORS WITH D- IRON &2 BOLTS	04-01-00434
<a href="#">1.200*</a>	PCS	DOUBLE SECTION ROPE OPERATED LADDERS (FIBER GLASS ) 2X4.5 M & 2X6M	04-01-00435
10	PCS	CABLE TESTING VAN	04-01-00436
15000	PCS	L.T SWITCH BOARD FOR TR.250 KVA (OUTDOOR )	04-01-00437
26000	SHEET	COLD ROLLED STEEL SHEET 4X8 FT THICKNESS 1.25MM	04-01-00438

3000	SHEET	COLD ROLLED STEEL SHEET 4X8 FT THICKNESS 2.5 MM	04-01-00439
32000	METER	PVC INSULATED STRANDED BUSBAR 7.5X 20MM2 COPPER WRAPPED WITH THE HEAT -SHRINKABLE PVC	04-01-00440
65000	PCS	BUS BAR HOLDER	04-01-00441
130000	PCS	CABLE SHOE TERMINAL FOR CABLE SIZE 95MM2	04-01-00442
130000	PCS	CABLE GLANDS FOR CABLE SIZE OF 95MM2	04-01-00443

15750	PCS	CIRCUIT BREAKER 250 AMP 4POLE MINIMUM BREAKING CAPACITY 36 KAMP WITH ACCESSARIES	04-01-00444
4000	PCS	L.T SWITCH BOARD FOR TR. 400 KVA (OUTDOOR )	04-01-00445
4000	PCS	11/0.4 KV DIST . TRANSFORMERS 100 –250 - 400 -630 & 1000 KVA WITH SPARE PARTS	04-01-00446
2500	TON	GRAIN ORIENTED SILICON STEEL CODE NO.R001	04-01-00447
1000	TON	COLD ROLLED CARBON STEEL STRIP CODE NO. ROO3, ROO 4 &ROO6	04-01-00448
1500	TON	COPPER WIRE CODE NO.R210,R158,R162,R165,R166, R153,R156 &R157	04-01-00449
850	TON	COPPER STRIP CODE NO.R138,R139, ,R140,R144, R146,R151 &14 3	04-01-00450

300	PCS	BULK TYPE BUSHING CODE NO.P203,P207 &P208	04-01-00451
5500	PCS	TAP CHANGER CODE NO.P506&P507	04-01-00452
83300	METER	CORRAGATE STEEL WIRE CODE NO.R178&R179	04-01-00453
100000	METER	FLEXIBLE INS. WIRE CODE NO.R185,R187,R189 &R182	04-01-00454
1000	METER	CAMBRIC INS. WIRES CODE NO.R196	04-01-00455
600	TON	HOT ROLLED STEEL SHEET (R007 –R024)	04-01-00456
100	TON	ROLLED STEEL SHAPES ( ANGLE , CHANNEL , H- BEAM) (RO28-R042)	04-01-00457
200	TON	STEEL (BARS , PIPES ) (R043- R077)	04-01-00458
25	TON	STAINLES STEEL SHEET (R078- R086)	04-01-00459
150	TON	INSULATING PAPER (R128- R280)	04-01-00460
10000	PCS	PARTS VALVES , INDICOTES , CAGES) (P234-P271)	04-01-00461
10000	PCS	SLEEVE AND TERMINAL (P288- P363)	04-01-00462
30	PCS	TESTING EQUIPMENT	04-01-00463
100	PCS	SPARE PARTS FOR M/C (TRANSFORMAR)	04-01-00464
750	KM	ACSR-BARE WIRE : 210/35 MM2	04-01-00465
3000	KM	ACSR-BARE WIRE : 120/20MM2	04-01-00466
2500	KM	AAC-BARE WIRE : 95MM2	04-01-00467

3000	KM	AAC-BARE WIRE : 70MM2	04-01-00468
2000	KM	AAC-BARE WIRE : 50MM2	04-01-00469
700	KM	AAC-BARE WIRE : 35MM2	04-01-00470
1000	M.T	COPPER ROD DIA 8 MM	04-01-00471
3000	M.T	ALUMINIUM ROD DIA 9.5 MM	04-01-00472
1000	M.T	ALUMINIUM SLAB A4	04-01-00473
1000	M.T	ALUMINIUM INGOT A5L	04-01-00474
1000	M.T	LEAD ALLOY FOR CABLE SHEATHING	04-01-00475
500	TON	PVC COMPOUND FOR SHEATHING OF POWER CABLES	04-01-00476
300	TON	PVC COMPOUND FOR FILING OF POWER CABLES	04-01-00477
50	TON	COLOUR MASTERBATCHES FOR PVC COMPOUND	04-01-00478
500	TON	ALUMINIUM RODS	
1000	M.T	GALVANIZED STEEL CORES FOR CONDUCTORS DIA 7.5 MM AND 5.7 MM	04-01-00479
300	TON	GALVANIZED STEEL CORES FOR CONDUCTORS DIA 5.1 MM	04-01-00480
1200	TON	GALVANIZED STEEL TAPE FOR CABLE ARMORING DIA 25X0.3 MM,30X0.3MM,40X0.3MM&50X0.3MM	04-01-00481

<a href="#">550*</a>	M.T	ALUMINIUM TAPE WITE PE- OMPOLYMER COATING DIA 37X0.15MM, 46X0.15MM,55X0.15MM&69X0.1 5MM	04-01-00482
200	M.T	ALUMINIUM MAGENSIUMSELCON ALLOY	04-01-00483
<a href="#">70000**</a>	PCS	KWH –METERS (1Ph ) 40 AMP	04-01-00484
<a href="#">60000*</a>	PCS	KWH- METERS (3Ph) 3(20- 60)AMP	04-01-00485
10	TON	ELE. STEEL A1 0.5X8 3.5 CODE NO. R500	04-01-00486
12	TON	ELE. STEEL A1 0.5X88 CODE NO.R502	04-01-00487
2	TON	STEEL T=2MM CODE NO. R504	04-01-00488
10	TON	STEEL IN COIL 2X12 CODE NO. R505	04-01-00489
2	TON	STEEL T=3MM CODE NO. R506	04-01-00490
1	TON	FREE CATTING STEEL DIA.4MM CODE NO. R509	04-01-00491
1	TON	FREE CATTING STEEL DIA.4.5MM CODE NO. R510	04-01-00492
2	TON	FREE CATTING STEEL DIA.5MM CODE NO. R511	04-01-00493

2	TON	FREE CATTING STEEL DIA.5.5MM CODE NO. R512	04-01-00494
4	TON	FREE CATTING STEEL DIA.6MM CODE NO. R513	04-01-00495
4	TON	FREE CATTING STEEL DIA.7MM CODE NO. R514	04-01-00496
1	TON	COPPER COIL 0.5X50 CODE NO. R518	04-01-00497
17	TON	COPPER WIRE 0.14 CODE NO. R523	04-01-00498
2	TON	MAGNET ALLOY STEEL IN COIL CODE NO. R417	04-01-00499
35000	PCS	MAJ-ADJ PLATE CODE NO. 190 5300	04-01-00500
112000	PCS	COIL WEDG CODE NO. 193 1113	04-01-00501
100000	PCS	BRACKET CODE NO. 196 1866	04-01-00502
2000	PCS	POLE EXTENSION CODE NO. 198 1342	04-01-00503
170000	PCS	BRACKET CODE NO. 198 1455	04-01-00504
158000	PCS	SPRING CODE NO. 213 1245 & 213 1368	04-01-00505

126000	PCS	RUBBER PIECE CODE NO. 219 5300	04-01-00506
106000	PCS	WHEEL CODE NO. 227 0177 , 227 2691 & 227 2692	04-01-00507
107000	PCS	SPRING HOLDER CODE NO. 164 1097	04-01-00508
220000	PCS	BUSH CL*ML CODE NO. 610 1935	04-01-00509
89000	PCS	SELF LIGHT PIN CODE NO. 166 1287	04-01-00510
68000	PCS	RIVET CODE NO. 168 1182	04-01-00511
102035	PCS	INDUCTIVE SPINDLE CODE NO. 256 1144	04-01-00512
49000	PCS	POST CODE NO. 257 5300	04-01-00513
500000	PCS	SOLDERING PIN CODE 422 1376 & 422 1434	04-01-00514
92000	PCS	MAGNET CODE NO. 440 1304	04-01-00515
18000	PCS	BEARING MAGNET CODE NO. 440 1282 & 440 1416	04-01-00516
50000	PCS	FRAME CODE NO. 120 1341	04-01-00517
220000	PCS	BEARING ASSY CODE NO. 600 1301	04-01-00518

218000	PCS	BUSH CODE NO. 600 1380	04-01-00519
209000	PCS	LOW LOAD VAIN CODE NO. 613 1286 ,613 1243 & 613 1331	04-01-00520
297000	PCS	POLE PLATE CODE NO. 613 1371	04-01-00521
62000	PCS	COUNTER POLE CODE NO. 613 2005	04-01-00522
67000	PCS	SINGLE TRAI F REGISTROR CODE NO. 701 1180 & 710 1184	04-01-00523
80000	PCS	POLE PLATE CODE NO. 613 1370	04-01-00524
37000	PCS	TERMINAL ALLOY ML CODE NO.616 1115	04-01-00525
60000	PCS	TERMINAL ALLOY CL CODE NO.616 1113	04-01-00526
120000	PCS	SCREW CODE NO.150 2344	04-01-00527
120000	PCS	TERMINAL BLOCK CODE NO.401 1892	04-01-00528
750	KM	400 VOLT TWISTED CABLES 3X95+50+16 & 3X70+50+16	04-01-00529

60000	PCS	ACCESSARIES FOR TWISTED CABLE	04-01-00530
200000	PCS	LAMPS -125W -160W- 250W&400W MERCURY	04-01-00531
<a href="#">420,004</a>	PCS	LAMPS 150W- 250W & 400 W SODIUM	04-01-00532
15000	PCS	LANTERNS FOR LAMPS -125W -160W- 250W&400W MERCURY	04-01-00533
<a href="#">15,500***</a>	PCS	LANTERNS FOR LAMPS 150W- 250 W & 400- <b>2,000***</b> W SODIUM	04-01-00534
12000	PCS	CHOKES FOR LANTERNS FOR LAMPS 125 & 400W MERCURY	04-01-00535
4000	PCS	CHOKES FOR LANTERNS FOR LAMPS 150W- 250W  & 400 W SODIUM	04-01-00536
20000	PCS	IGNITOR FOR LAMPS 400W SODIUM	04-01-00537
4000	PCS	PHOTO ELECTRICAL CELL	04-01-00538

6000	PCS	<a href="#">CONTROL POLE MOUNTED : SINGLE PHASE 230V , 80 AMP &amp; THREE PHASE 400V , 100AMP and 250AMP and 180 AMP4</a>	04-01-00539
<a href="#">70,000*</a>	PCS	SINGLE POLE MCB 63 AMP 220 VAC 50HZ	04-01-00540
6600	PCS	3POLE CONTACTOR AC3 RATNG :40 AMP	04-01-00541
40000	PCS	TOGGLE SWITCH ON-OFF-ON DPDT 10 AMP	04-01-00542
40000	PCS	RELAY P.C.B. MOUNTING SPDT. CONTACT 10 AMP	04-01-00543
4500	PCS	3 POLE MCB 80 AMP 380 VAC 50HZ	04-01-00544
9500	PCS	NYLON CABLE GLAND SUITABLE FOR CABLE SIZE 4X25MM2	04-01-00545
14000	PCS	NYLON CABLE GLAND SUITABLE FOR CABLE SIZE 2X25MM2	04-01-00546

4500	PCS	3POLE CONTACTOR AC3 RATING 80 AMP	04-01-00547
155000	METER	PVC INSULATED COPPER WIRES (STANDED &FLEXABLE)	04-01-00548
15000	PCS	INTEGRATED CIRCUIT LM741 WORKING TEMPRERATURE > 80 C	04-01-00549
15000	PCS	LIGHT DEPENDENT RESISTOR	04-01-00550
40000	PCS	AC CAPACITOR 1 MICRO FARAD 630 VDC OR 275 VAC P.C.B. MOUNTING	04-01-00551
50000	PCS	SINGLE POLE TERMINAL ,TERMINAL BLOCK , 3 POLE CONNECTOR 10AMP.	04-01-00552
6000	METER	MOUNTING RAIL FOR FIXTURES	04-01-00553
154000	PCS	SCREW HEX .HEAD FOR FIXTURES	04-01-00554
240000	PCS	ZENER DIODES , RECTIFIER DIODE	04-01-00555

120000	PCS	TRANSISTORS	04-01-00556
55000	PCS	RESISTORS	04-01-00557
11000	SHEET	COLD ROLLED STEEL SHEET	04-01-00558
2000	PCS	HOT ROLLED STEEL SHEET	04-01-00559
55000	PCS	FUSE HOLDER WITH FUSE CARRIER & FUSE 3 AMP.	04-01-00560
<a href="#">30**</a>	PCS	33/11KV SUBSTATION (2X31.5 ,2X10&2X16) MVA WITH TRANSFORMERS & SPARE PARTS	04-01-00561
10	PCS	33/11KV SUB STATION (2X10&2X16) MVA WITH SPARE PARTS & WITH OUT TRANSFORMERS	04-01-00562
10	PCS	33/11KV MOBILE SUBSTATION (1X10 & 1X16) MVA	04-01-00563
100	SET	DIESEL GENERATORS OF RANGE (7-2500KVA) WITH RECOMMENDED SPARE PARTS AND SPECIAL TOOLS	04-01-00564

1000	PCS	KWH METER WITH M.D.3X30-90A , 400V-3X50-150A , 400V-3X400/5C.T., 400V-3X600/5 ,400V 3X100/5 ,400V&3X250/5C.T.&V.T.	04-01-00565
100	PCS	VHF COMMUNICATION EQUIPMENT FIXED WITH ACCESSARIES AND SPARE PART	04-01-00566
400	PCS	VHF COMMUNICATION EQUIPMENT MOBILE AND PORTABLE WITH ACCESSARIES AND SPARE PART	04-01-00567
20000	M	COAXIAL CABLE	04-01-00568
400	PCS	SWITCHING EQUIPMENT	04-01-00569
200	SET	UHF/MW COMMUNIAION EQUIPMENT (P-P & PMP) WITH ACCESSARIES AND SPARE PART	04-01-00570
30	SET	TEST EQUIPMENT FOR COMMUNICATION SYSTEM	04-01-00571
200	SET	POWER LINE CARRIER COMMUNICATION (DIGITAL & ANALOG) EQUIPMENT WITH ACCESSARIES AND SPARE PARTS .	04-01-00572
1500	KM	Fibre optic communication cable	04-01-00573
20	SET	Sdh communication equipment	04-01-00574
4	NO	management communication CENTRE	04-01-00575

50	SET	PROTECTION SIGNALLING EQUIPMENT	04-01-00576
150	PCS	BATTERY CHARGER 12V.D.C	04-01-00577
288	PCS	CASH MACHINE & PRINTER	04-01-00578
240	PCS	COMPUTERS AND PRINTERS	04-01-00579
100000	PCS	MINIATURE CIRCUIT BREAKER 20A, 40A & 60A	04-01-00580
<a href="#">16*</a>	PCS	CRANE 40 & 80 TON	04-01-00581
<a href="#">125**</a>	PCS	BEAMLIFTER TRUCKS 15M, 22M and 50M*	04-01-00582
100	PCS	TRUCK WITH LIFTER FOR TRANSFORMERS.	04-01-00583
20	PCS	EXCAVATION EQUIPMENT	04-01-00584
750	PCS	CARS , STATION WAGON & PICK-UP and motorcycles	04-01-00585
100	PCS	LORRIES 3 & 16 TON	04-01-00586
30	PCS	LOWLOADER 60 TON & 90 TON	04-01-00587
<a href="#">1004</a>	PCS	FORKLIFT 5 & 10 TON	04-01-00588
20	PCS	TANKER 16000-20000 LITTER	04-01-00589
10	PCS	RECOVERY TRUCK	04-01-00590

10	PCS	TOW CAR FOR SHIFITING OF DAMAGED VEHICLES	04-01-00591
10	PCS	MULTI FUNCTION VECHILE (SKY LIFT, EARTH-AUGER WITH LIFTER )	04-01-00592
16	PCS	JACKING MACHINE	04-01-00593
8	PCS	DRUM TRAILER FOR CABLE	04-01-00594
LOT	LOT	CABLE JOINTING TOOLS	04-01-00595
LOT	LOT	OVER HEAD LINE TOOLS	04-01-00596
2000	PCS	AIR CONDITION (2 TON) WINDOW TYPE	04-01-00597
50000	PCS	CABLE TERMINALS(10-16-25-35-50-70-95-120-150-185&200MM2	04-01-00598
200	PCS	RING MAIN UNIT 11KV	04-01-00599
300	SET	RING MAIN UNIT TYPE EXTENSIBLE 11KV WITH SPARE PARTS	04-01-00600
600	NO.	BATTERY CAPACITY 320-390 AH 24 V	04-01-00601

LOT	LOT	SPARE PARTS FOR SCANIA T 112 E	04-01-00602
<a href="#">31.164</a>	NO.	TYRE'S TYPE 1400X20X20 ,1200X22.5X16 ,1000X15X18, 700X12X12 ,750X16X14 & 1200X24X18	04-01-00603
20	PCS	33/11KV POWER TRANSFORMERS 10,16 & 31.5 MVA WITH SPARE PARTS	04-01-00604
20000	PCS	LATTICE STEEL POLES 9 & 11M	04-01-00605
5000	TON	<a href="#">I-BEAM STEEL 51 OR 52 ANY OTHER EQUIVALENT STANDARD WITH 140X66X5.7X5.7 MM (IPN ) LENGTH 11M &amp; 9M**</a>	04-01-00606
100	TON	STEEL ANGLE 30 X 30 X3 MM	04-01-00607
50	TON	PLATE THICKNESS 6 MM X75 MM	04-01-00608
30000	PCS	TUBLER STEEL POLES 9&11 M	04-01-00609
200	TON	STEEL PIPES SIZE 89 X 3.3 LENGTH 2300 M	04-01-00610
350	TON	STEEL PIPES SIZE 114 X 3.6 LENGTH 2.65 M	04-01-00611

900	TON	STEEL PIPES SIZE 139 X 4.5 LENGTH 4.7 M	04-01-00612
650	TON	STEEL PIPES SIZE 114 X 4.5 LENGTH 2.8 M	04-01-00613
950	TON	STEEL PIPES SIZE 139 X4.5 LENGTH 3.35 M	04-01-00614
1800	TON	STEEL PIPES SIZE 165 X 4.5 LENGTH 5.5 M	04-01-00615
2500	PCS	TOWERS TYPE 1C, 1C+3, 1C2 1E ,1E+3,1EC,1H,1H+3,1HC&1L	04-01-00616
20000	PCS	STREET LIGHTING POLES 10 &15M	04-01-00617
<a href="#">120.003</a>	SET	LIGHTNING ARRESTERS 11 & 33 KV	04-01-00618
LOT	LOT	SPARE PARTS FOR S/S 33/11KV	04-01-00619
<a href="#">165*</a>	PCS	SPARE PARTS FOR S/S:  - CIRCUIT BREAKER 12KV, 630A, 25K, FG2, SF6	04-01-00620
100	PCS	CIRCUIT BREAKER 12KV, 630A, 25K,LF2, SF6	04-01-00621
250	PCS	POLE OF C.B 12KV, 630A, 25K, FG2, SF6	04-01-00622

90	PCS	11 KV CURRENT TRANSFORMER 150-300/5/5 TCF 200A	04-01-00623
50	PCS	11 KV CURRENT TRANSFORMER 300-600/5/5 TCF 200 A	04-01-00624
100	PCS	11 KV V.T 11000/ 110 /3 /110 TYPE RTF 200F	04-01-00625
50	PCS	RELAY IN VERSE INSTANTANOUS ITG 7291	04-01-00626
50	PCS	BATTERY CHARGER 110V	04-01-00627
100	PCS	ELECTRONIC CARDSOF CORO DEL CHARGER TYPE SCE 270A	04-01-00628
50	PCS	ELECTRONIC CARDSOF CORO DEL CHARGER TYPE SCE 270C	04-01-00629
60	PCS	BATTERY 110V NICKLE-CADMIUM 110AH CHLORIDE OR SAFTALKLINE (SET)	04-01-00630
320	PCS	SOCAPEX, SCOKET REF 709551F (630A),759551A 91250A), 769620(2000A)	04-01-00631

600	PCS	FUSE FOR VOLTAGE TRANSFORMER 0.5A	04-01-00632
300	PCS	FLAG RELAY110V D.C (FIR) DROP OUT FLAG RELAY110V D.C (FIR) DROP OUT	04-01-00633
150	PCS	FLAG RELAY110V D.C (FIR) PIK UP	04-01-00634
30*	PCS	CIRCUIT BREAKER 12KV ,2000A,25KA,FG2,SF6	04-01-00635
200	PCS	TRIPING AND CLOSING COIL (887191)	04-01-00636
25	PCS	POLE OF C.B. 12 KV,2000A,25KA,FG2,SF6	04-01-00637
180*	PCS	LVP/LOW VOLTAGE 37 PINS PLUG	04-01-00638
75	PCS	OVER CURRENT O/C & EARTH FAULT E/F RELAY ITG 7271	04-01-00639
30	PCS	OVER CURRENT O/C& EARTH FAULT E/F RELAY (TYPE ITG 7251)	04-01-00640

30	PCS	EARTH FAULT RELAY (TYPE ITG 7113)	04-01-00641
20	PCS	VOLTAGE EARTH FAULT RELAY (TYPE ITG 7114)	04-01-00642
10	PCS	UNDER FREQUENCY RELAY (TYPE HTG 7012)	04-01-00643
18	PCS	C.T. 1800/5.5- 0.578A (TYPE TC-F200)	04-01-00644
30	PCS	ELECTRONIC TIME DELAY RELAY (TYPE 245.TE 110V D.C. 0.2 TO 180 SEC)	04-01-00645
30	PCS	AUX. RELAY 110V D.C. (TYPE 259-49)	04-01-00646
15	PCS	AUX. RELAY 110/ 3 ( TYPE 245-481)	04-01-00647
50	PCS	PUSH BUTTON (TYPE 22A)	04-01-00648
150	PCS	L.V. CIRCUIT BREAKER 3-POLE 3AMP (TYPE C32 N)	04-01-00649
50	PCS	POTENTIAL TESTER 1AMP	04-01-00650
30	PCS	EARTHING RESISTANCE 21 OHM /300A/20SEC.	04-01-00651

60	PCS	H.V.BUSHING FIXED TYPE (75051)36 KV & 630A WITH FLANGE MK 600 NOTICE 587	04-01-00652
15	PCS	SOILD STATE VOLTAGE REGULATOR MK 20	04-01-00653
60	PCS	H.V. BUSHING REMOVABLE PART TYPE 750 IR-36KV(M.G.SUPPLY) NOTICE 90588.	04-01-00654
30	PCS	HOREN 110 V D.C.25 WAAT (TYPE FL 35).	04-01-00655
12	PCS	33 KV V.T. 33000 / 110 50 VA GLASS 0.5 (TYPE TPF400).	04-01-00656
12000	PCS	SPARE PARTS FOR SIEMENS NETWORK	04-01-00657
<a href="#">6.000*</a>	PCS	HRC FUSES 11KV (40,63,80&100) AMP	04-01-00658
100000	PCS	MCCB 400VOLT 3 PHASE (25,40& 60)AMP	04-01-00659

100	PCS	11/0.4 KIOSK SUBSTATION 400-1000 KVA WITH TRANSFORMER AND SPARE PARTS.	04-01-00660
1000	PCS	LOW TENSION PILLERS	04-01-00661
40000	PCS	LOW TENSION METER BOX	04-01-00662
10	KM	LOW VOLTAGE CABLE 3X240+120 MM2 ARMOURED	04-01-00663
20	KM	LOW VOLTAGE CABLE 4X185 MM2 ARMOURED	04-01-00664
20	KM	LOW VOLTAGE CABLE 3X150+70 MM2 ARMOURED	04-01-00665
20	KM	LOW VOLTAGE CABLE 3X95+50 MM2 ARMOURED	04-01-00666
20	KM	LOW VOLTAGE CABLE 3X70+35 MM2 ARMOURED	04-01-00667
40	KM	LOW VOLTAGE CABLE 4X16 MM2 ARMOURED	04-01-00668
20000	PCS	BI-METAL CONNECTOR 210/120 & 95 /50	04-01-00669
200000	PCS	BI-METAL CONNECTOR 95/50 & 25 /10	04-01-00670

100	PCS	CIRCUIT BREAKER 11 KV WITH SPARE PART FOR HUNGARIAN S/S .	04-01-00671
		<b><u>SPARE PART FOR SWITCHGEAR FOR HUNGARIAN S/S :-</u></b>	
100	PCS	11 KV CURRENT TRANSFORMER 600/5/5	04-01-00672
50	PCS	11 KV CURRENT TRANSFORMER 300/5/5	04-01-00673
150	PCS	11 KV VOLTAGE 11KV/110/3 / 110/3	04-01-00674
400	PCS	FUSE FOR V.T 0.3 AMP	04-01-00675
200	PCS	RESPONSING (ON / OFF) SWITCH	04-01-00676
20000	PCS	HOUSING METER	04-01-00677
30	KM	COPPER WIRE 50 MM2	04-01-00678
30000	PCS	EARTH ROD (2M) WITH CONNECTOR	04-01-00679
10000	PCS	STAY ROD	04-01-00680
50000	KG	STAY WIRE	04-01-00681
<a href="#">202</a>	PCS	OIL PURIFIER	04-01-00682
10	PCS	PRIMARY INJECTION	04-01-00683

<a href="#">20*</a>	PCS	SECONDARY INJECTION	04-01-00684
10	PCS	OIL INSULATION TESTER	04-01-00685
10	PCS	HIGH TENSION TESTER	04-01-00686
500	PCS	AVO METER	04-01-00687
50	PCS	MAGGER	04-01-00688
500	PCS	CLAMP METER	04-01-00689
10	PCS	TRANSFORMATION RATIO TESTER	04-01-00690
10	PCS	EARTHING RESISTANCE TESTER	04-01-00691
500	SET	ALKLINE BATTERY 110 AMP/H & 60 AMP/H 110V	04-01-00692
100	PCS	BATTERY CHARGER 110 V	04-01-00693
600	SET	POWER FACTOR IMPROVMENT EQUIPMENT FOR L.T NETWORK	04-01-00694
3000	SET	POWER FACTOR IMPROVMENT EQUIPMENT FOR M.V. NETWORK 100,200&300	04-01-00695
15000	PCS	CAPACITOR 0.4 KV( OUTDOOR) 5 ,10,20&25 KVAR	04-01-00696

1500	PCS	SAFETY LINE MAN BELT	04-01-00697
1000	PCS	DISCONNECTING HOT STICKS	04-01-00698
700	PCS	TEST HOT STICK	04-01-00699
400	PCS	PORTABLE EARTH	04-01-00700
6000	PCS	INSULATING RUBBER GLOVES 1KV,11KV &33KV	04-01-00701
8000	PCS	PROTECTIVE DRESS	04-01-00702
3000	PCS	HELMET (FIBER CLASS)	04-01-00703
10000	PAIR	PROTECTIVE SHOES	04-01-00704
		REHABILITATION &INSTALLATION OF NEW TELCOMMUNICATION EQUIPMENT FOR VOICE ,DATA AND PROTECTION OF POWER LINES	04-01-00705
LOT 20	LOT NOS	ELECTRICITY DISPATCH CENTERS REHABILITATION &INSTALLATION OF NEW CENTERS)	04-01-00706

10	PCS	MULTI FUNCTION VEHICLE ( SKY LIFT , EARTH AUGER WITH LIFTER )	04-01-00707
50	PCS	PORTABLE LIGHTING UNITS	04-01-00708
LOT	LOT	REHABILITATION FOR ZAYONA DISTRIBUTION NET WORK	04-01-00709
LOT	LOT	REHABILITATION FOR AL-YARMMUK DISTRIBUTION NET WORK	04-01-00710
LOT	LOT	REHABILITATION FOR HARTHIYA DISTRIBUTION NET WORK	04-01-00711
LOT	LOT	REHABILITATION FOR AL-WAHDA DISTRIBUTION NET WORK	04-01-00712
LOT	LOT	REHABILITATION FOR ADHAMIYA DISTRIBUTION NET WORK	04-01-00713
LOT	LOT	REHABILITATION FOR WAZIRIYA DISTRIBUTION NET WORK	04-01-00714

**G PROGRAMMES , TOOLS AND FACILITIES**

QTY	ITEM	Code
<b><u>TRAINING AND SIMULATION EQUIPMENT TO COVER THE FOLLOWING ACTIVITIES:</u></b>		
10 SET	- GENERATION , TRANSMISSION AND DISTRIBUTION OF ELECTRICITY.	04-01-00715
10 SET	- MANUFACTURING OF POWER AND DISTRIBUTION TRANSFORMERS.	04-01-00716
10 SET	- MANUFACTURING OF CONDUCTORS FOR TRANSMISSION AND DISTRIBUTION OF ELECTRICITY.	04-01-00717
5 SET	- MANUFACTURING OF TOWERS FOR 400 KV AND 132 KV TRANSMISSION LINES.	04-01-00718
LOT	- OTHER SUPPORTING ACTIVITES TO THE ELECTRICAL SECTOR.	04-01-00719
10 SET	COMPUTERIZED DISPLAY FACILITIES FOR TRAINING PURPOSES.	04-01-00720
5 NO.	LABORATORIES FOR TRAINING	04-01-00721
20 SET	TRAINING AIDS AND TOOLS.	04-01-00722
200 MAN - MONTH	TRAINING COURSES	04-01-00723

**AND GENERATOR MAINTENANCE WORK SHOP**

CODE	ITEM	UNIT	QTY.
04-01-00724	NC LATHES WITH WORK PIECE DIAMETER FROM 320 TO 1000 MM.	SET	2

04-01-00725	VERTICAL BORING AND TURNING MACHINES WITH WORK PIECE DIAMETER FROM 1250 TO 8000 MM.	SET	2
04-01-00726	MILLING MACHINES WITH TABLE SIZE 400 × 1600 MM 2500 × 8000 MM	SET	2
04-01-00727	SURFACE GRINDING MACHINES WITH TABLE SIZE 320 × 1200 MM .	SET	2
04-01-00728	CYLINDRICAL GRINDING MACHINE ; WITH WORK PIECE DIAMETER UP TO 700 MM .	SET	2
04-01-00729	DEEP DRILLING MACHINES DRILL DIAMETER UP TO 200 MM . DEPTH OF DRILLING UP TO 12000 MM .	SET	2
04-01-00730	SEMI – AUTOMATIC TURRET SCREW LATHES FOR THREADS FROM M 10 TO M 48 IN DIAMETER	SET	2
04-01-00731	THREADS ROLLING MACHINES FOR THREADS FROM M 10 TO M 100 IN DIAMETER ..	SET	2
04-01-00732	CUTTING - OF MACHINES WITH WORK PIECE DIAMETER UP TO 240 – 285 MM .	SET	2
04-01-00733	SLOTING MACHINES WITH DEPTH OF SLOTTING UP TO 1200 MM .	SET	2
04-01-00734	GEAR CUTTING MACHINES WITH MODULE UP TO 16	SET	2
04-01-00735	GANTRY CRANES WITH LOAD RATING FROM 10 TO 100 T .	SET	2
04-01-00736	MODELING EQUIPMENT WITH LOAD RATING FROM 200 KG TO 100 T .	SET	2

04-01-00737	CENTRIFUGAL CASTING MACHINE , WEIGHT OF CASTING 25	SET	2
04-01-00738	PATTERN PRODUCING MACHINES .	SET	2
04-01-00739	SHEET BENDING MACHINES , SHEET THICKNESS UP TO 40 MM .	SET	2
04-01-00740	PRESS – FORGING EQUIPMENT WITH FORCE UP TO 250 T .	SET	2
04-01-00741	ELECTRIC AND GAS FURNACES FOR HEAT TREATMENT , CHARGE MASS UP TO 40 T	SET	2
04-01-00742	THREAD – CUTTING LATHE , 2000 × 10000 , 1680	SET	2
04-01-00743	THREAD – CUTTING LATHE , 2500×14000 , 1 A 671 II 14 Ø 1	SET	2
04-01-00744	LATHE , 2500 × 10000 , DH – 2500 / 100	SET	2
04-01-00745	FACE – PLATE LATHE , DIA 1800 LENGTH 700 , DFM30NCC	SET	2
04-01-00746	HORIZONTAL – BORING MACHINE , SPINDLE DIA 1800 TABLE 2240 × 1800 , 2E656P	SET	2
04-01-00747	HORIZONTAL – BORING MACHINE , SPINDLE DIA 160 TABLE 1800 × 1600 , 2650 Ø 2	SET	2
04-01-00748	ROTOR – MILLING MACHINE , SPINDLE DIA 160 , KF - 156	SET	2
04-01-00749	SLOTING MACHINE , SLOTTING TRAVEL 1200 , 7410	SET	2
04-01-00750	GRINDING MACHINE GRINDING DIA 1800 LENGTH 12000 , WS3L100 SP	SET	2
04-01-00751	TURNING – AND – BORING LATHE , FACEPLATE DIA 6300 MACHINING DIA 6300 × 2500 ,DKZ 6300	SET	2

04-01-00752	TURNING – AND – BORING LATHE , FACEPLATE DIA 4500 MACHINING DIA 5000 × 2500 ,1550 Ø 1	SET	2
04-01-00753	HORIZONTAL – BORING MACHINE , SPINDLE DIA 220 TABLE 8100 × 5000 ,	SET	2
04-01-00754	RADIAL – DRILLING MACHINE , THE MOST DIA 120 OVERHANG 5600 , RGH50	SET	2
04-01-00755	LONGITUDINAL MILLING MACHINE , TABLE 8500 × 2500 , 6672	SET	2
04-01-00756	THREAD – CUTTING LATHE , OUTER FACEPLATE DIA 18500 INNER FACEPLATE DIA 8750 , 8GVK19000 .	SET	2
04-01-00757	SPECIALLY ROTARY – TYPE MACHINE , FACEPLATE DIA 6300 MACHINING DIA 6300 , KY- 64	SET	2
04-01-00758	TURNING – AND – BORING LATHE , FACEPLATE DIA 6300 MACHINING DIA 6300 , 1653	SET	2
04-01-00759	TURNING – AND – BORING LATHE , FACEPLATE DIA 4000 MACHINING DIA 4000 , 1540 Ø 1	SET	2
04-01-00760	TURNING – AND – BORING LATHE , FACEPLATE DIA 6000 MACHINING DIA 7000	SET	2
04-01-00761	HORIZONTAL BORING MACHINE , SPINDLE DIA 200 TABLE 2000 × 2000 W - 200	SET	2
04-01-00762	HORIZONTAL BORING MACHINE , SPINDLE DIA 200 TABLE 4000 × 3550 W - 200 HA	SET	2
04-01-00763	UNIVERSAL HORIZONTAL BORING MACHINE , SPINDLE DIA 220 TABLE 8100 × 5000 , 2666 Ø 2 .	SET	2

04-01-00764	FOREST , SPECIAL HORIZONTAL BORING MACHINE , SPINDLE DIA 200 TABLE 5000 × 9000 , F - 200	SET	2
04-01-00765	RADIAL DRILLING MACHINE , THE MOST DIA 100 OVER HANG 3300 , 12 FOOT	SET	2
04-01-00766	RADIAL DRILLING MACHINE , THE MOST DIA 100 OVER HANG 4000 ,VR – 104 A	SET	2
04-01-00767	LONGITUDINAL MILLING MACHINE , 12000× 3600 , 6682C1	SET	2
04-01-00768	SPECIAL LONGITUDINAL MILLING MACHINE , 2450×5000 , YO – 0665 – Ø 1	SET	2
04-01-00769	SPECIAL LONGITUDINAL MILLING MACHINE , 5000 × 12000 , FULL LOAD 200 T SL 257FTM120NU	SET	2
04-01-00770	SPECIAL BORING MACHINE , 3 BORING HEADS DIA 1250 930 690 , DTG	SET	2
04-01-00771	TURBINE AND GENERATOR TEST STAND	SET	1

### **SECTION E-38 BOILER MAINTENANCE WORK SHOP**

CODE.	ITEM	UNIT	QTY.
04-01-00772	SHEARS ( GUILLOTINE AND ROLLER ) , MACHINED SHEET 50 MM THICK INTO 4000 MM WIDTH	SET	1
04-01-00773	<u>HYDROLIC PRESS 2500 TON</u>	SET	2
04-01-00774	<u>EDGE PLATING MACHINE – TOOL</u> 8000 × 200 × 2000	SET	2
04-01-00775	<u>STRAIGHTENING ROLLERS ,</u>	SET	2

	<u>MACHINED SHEET Ø 50 MM</u> <u>THICK INTO 3500 MM WIDTH</u>		
04-01-00776	BENDING ROLLERS , MACHINED SHEET UP TO 45 MM THICK INTO 1800 MM WIDTH	SET	2
04-01-00777	CNC CUTTING MACHINE CROSS SECTION  OF WORK PC 300 × 300	SET	2
04-01-00778	UNIT FOR WELDING GIRDERS OF BOX SECTION AND DOUBLE T – SECTION , WELD LENGTH 18000 MM .	SET	2
04-01-00779	SUBMERGED ARC , WELDING UNIT OR SHEET WELDING STEEL THICKNESS , UP TO 100 MM WELD LENGTH , UP TO 3000 MM	SET	2
04-01-00780	TUBE – CUTTING OFF MACHINE ( SINGLE POINT , CIRCULAR , ABRASIVE, )  MACHINED TUBE–DIAMETER Ø 25 – Ø 300 MM	SET	2
04-01-00781	TUBE – FACING MACHINE , MACHINED TUBE – DIAMETER , UP TO Ø 50 MM	SET	2
04-01-00782	TUBE BENDING MACHINE , ROLLING MILL MACHINED TUBE – DIAMETER , UP TO Ø 25 Ø 60 MM	SET	2
04-01-00783	TUBE PANEL BENDING MACHINE , BENDING RADIUS , Ø 150 – Ø 450 MM	SET	2
04-01-00784	BUTT RESISTANCE WELDING MACHINE ,	SET	2

	WELDED TUBE DIAMETER , $\varnothing 3 - \varnothing 25 + \varnothing 6 - \varnothing 83$ BILLET LENGTH , UP TO 900 MM		
04-01-00785	UNIT FOR WELDING HEADERS WELDED TUBE – DIAMETER , $\varnothing 108 - - \varnothing 600$ MM BILLET LENGTH , UP TO 20000 MM	SET	2
04-01-00786	SPECIALIZED UNIT FOR TUBE <u>MEASURING AIR – PLASMA</u> TUBE DIAMETER $\varnothing 40$ WALL THICK 1.5 MM BILLET LENGTH 7500 MM SIMULTANEOUSLY MADE CUTTINGS	SET	2
04-01-00787	VKW UNIT FOR WELDING GAS TIGHT PANELS WELDED TUBE DIAMETER , $\varnothing 27 - \varnothing 100$ MM PANEL 800 – 3000 <u>PANEL WIDTH , UP 30000</u>	SET	2
04-01-00788	TUBE SPIRAL FINNING MACHINE TUBE DIAMETER , $\varnothing 22 - \varnothing 60$ RIB HEIGHT UP TO .0.4 DIA RIBBING LENGTH , UP TO 15000 MM .	SET	2
04-01-00789	INSPECTED STEEL THICKNESS , UP TO 120 MM ULTRASONIC APPARATUS , RANGE OF INSPECTED STEEL THICKNESS , MM ; OF WELDS 3 – 300 MM FOR ROLLED STOCK > 10 FOR PLATE > 0 – 5	SET	2
04-01-00790	ULTRASONIC UNIT RANGE OF INSPECTED DIAMETERS , $\varnothing 10 - \varnothing 830$	SET	2

	RANGE OF TUBE THICKNESS ( S ), 1 MM – 80 MM MINIMAL DETECTED DETECT 0.0456		
04-01-00791	VACUUM LEAK DETECTOR SENSITIVITY , CUB / M PA / C $< 3.5 \times 10^{-13}$	SET	2
04-01-00792	VACUUM PUMP , VACUUM , MM , HG $5 \times 10^{-13} + 5 \times 10^{-7}$	SET	2
04-01-00793	TESTER ( DEPHLECTOSCOPIC ) , <u>WIDTH OF DISCONTINUITY , MKM :</u> FOR MAGNETIC PARTICLE TESTING $> 10$ FOR DIE PENETRANT TESTING $> 1$ FOR FLORESCENT PENETRANT TESTING $< 1$	SET	2
04-01-00794	HEAT TREATMENT FOR SPARE PART OF BOILER COMPONENTS	SET	18
04-01-00795	FLAME CUTTING MACHINE WITH CNC THICKNESS WIDTH 5 – 200 SHEET WIDTH , 36000 MM	SET	2
04-01-00796	SPECIALIZED TUBE – BENDING MACHINE  TOOL WITH HFC MACHINED TUBE – DIAMETER $\varnothing 140 \times 10$ THICK $\varnothing 426 \times 10$ THICK	SET	2
04-01-00797	VKW ARGON – ARC WELDING UNIT FOR  TUBE WELDING WELDED TUBE DIAMETER , $\varnothing 32 – \varnothing 60$ MM  WELDED TUBE WATTLE LENGTH , $< 20000$	SET	2
04-01-00798	VKW UNIT FOR WELDING GAS – TIGHT	SET	2

	PANELS WELDED TUBE DIAMETER $\varnothing 27 - \varnothing 100$ MM PANEL WIDTH 800 – 3000 MM PANEL LENGTH UP TP 27000		
04-01-00799	UNIT FOR WELDING BEAMS WELD LENGTH 15000 MM	SET	2
04-01-00800	UNIT FOR WELDING HEADERS WELDED TUBE DIAMETER $\varnothing 108 - \varnothing 600$ MM BILLET LENGTH UP TO 20000 MM	SET	2
04-01-00801	SHOT PLASTINGMACHINE <u>PRODUCTIVITY , SQ .M / MIN &lt; 26 .8</u>	SET	2
04-01-00802	UNIT FOR CHAMBERLESS PAINTING MAXIMAL PRODUCT DIMENSION , 9400 × 2400 × 3000	SET	2
04-01-00803	DRYING CHAMBER MAXIMAL PRODUCT DIMENSION , 9400 × 2400 × 3000	SET	2
04-01-00804	IMPULS UNIT FOR AIRLESS SPRAYING <u>PRODUCTIVITY . L / MIN 0.45 – 1.10</u>	SET	2
04-01-00805	PNEUMATIC PAINT SPRAYER CO – 71A PRODUCTIVITY . L / MIN 0.45 – 1.10	SET	2
04-01-00806	UNIT FOR AUTOMATIC TUBESCOLDING  IN TUBE PLATES <u>TUBE DIAMETER , <math>\varnothing 6 - \varnothing 32</math> MM</u>	SET	2
04-01-00807	RANSOME , ESAB MILL FOR AUTOMATIC  SUBMERGED ARS – WELDING <u>WELDED SHELL DIAMETER <math>\varnothing 400 - \varnothing</math> <u>4100 MM</u> VESSEL BODY LENGTH &lt; 30000</u>	SET	2

04-01-00808	FIN SHAPING MACHINE MACHINED BAND ( WIDTH × THICKNESS ) 16 × 0.8 MM	SET	2
04-01-00809	TUBE CUTTING MACHINE MACHINED TUBE DIAMETER , < 60	SET	2
04-01-00810	TUBE BENDING MACHINE MACHINED TUBE DIAMETER , < 60	SET	2
04-01-00811	LONGITUDINAL TUBE BENDING MACHINE TUBE DIAMETER , $\varnothing 16 \times \varnothing 2$ MM RIB HEIGHT , 8.5 MM RIBBED TUBE LENGTH , < 5000	SET	2
04-01-00812	UNIT FOR LOCAL HEAT TREATMENT OF CIRCULAR WELDS , OPERATING TEMPERATURE < 800 °C PRODUCT DIAMETER , < 700 HEATING ZONE LENGTH , < 500	SET	2
04-01-00813	AUTOMATIC MILL FOR SHEET CUTTING ON THE BASIS OF GUILLOTINE SHEARS MACHINED SHEET ( THICKNESS × WIDTH ) 6.3 × 3150	SET	2
04-01-00814	HYDROLIC PRESS FOR STAMPING AND TESTING DISK SPANNGS. FORCE . TF 125 ; 250	SET	2
04-01-00815	MACHINE COILING ROD DIAMETER 8 – 40 MM SPRING HEIGHT < 500 MM	SET	2
04-01-00816	ELECTRIC CHAMBER FURNACES FOR HEAT TREATMENT OF COIL SPRINGS	SET	2

	OPERATING TEMPERATURE < 1100°C MASS OF LOADING , KG < 800		
04-01-00817	NUT CUTTING AUTOMATIC MACHINE THREAD SIZE M 6 – M 24	SET	2
04-01-00818	SEMI – AUTOMATIC MACHINE FOR CUTTING AND ROLLING EXTERNAL THREAD , THREAD SIZE M1 – M 100	SET	2
04-01-00819	SPRING COILING AUTOMATIC MACHINE ,  WIRE DIAMETER 1.2	SET	2
04-01-00820	AUTOMATIC LATHE , MACHINED ROD DIAMETER < 40 MM LENGTH < 4000 MM	SET	2
04-01-00821	TURRET LATHE MACHINED ROD DIAMETER < 40 MM	SET	2
04-01-00822	GEAR CUTTING SEMIAUTOMATIC MACHINE GEAR MODULE O 15 MM DIAMETER < 800	SET	2

**AND CONTROL SYSTEM MAINTENANCE WORK SHOP**

CODE	ITEM	QTY	UNIT
04-01-00823	CNC HYDRAULIC SHEAR CAPACITY UP TO 50 MM THICKNESS MAX . SHEET WIDTH 3000 MM	1	SET
04-01-00824	CNC PURCHING MAX THICKNESS 10 MM , 30 TON THREAD DEPTH = 1250 – 1500 MM	1	SET
04-01-00825	PRINTED CIRCUIT BOARD DRILLING MACHINE DOUBLE SPINDLE	1	SET

04-01-00826	IN CIRCUIT TESTER * DIGITAL STORAGE OSCILOSCOPE.  · EPROM / ROM VERIFICATION . · SELF DOCUMENTING TEST SEQUENCES .	1	SET
04-01-00827	SURFACE CLEANING MACHINE FOR PRINTED CIRCUIT BOARD	1	SET
04-01-00828	<u>PERSONAL COMPUTERS</u> <u>(MAY BE INDUSTRIAL TYPE )</u> WITH FULL OPTIONS (HD ,FDD ,CD DRIVE) WITH SOFTWARE SUPPORT OF FAMOUS .	1	SET
04-01-00829	COMPUTER ASSISTED SIMULATION WHICH SIMULATE AS CLOSELY AS POSSIBLE REAL INDUSTRIAL SATUATIONS .	1	SET
04-01-00830	DEDICATED TEST AND CALIBRATION EQUIPMENT WHICH ENABLES TESTING ANY ASSEMBLED ELECTRONIC BOARD THROUGHTY .	1	SET
04-01-00831	COMPLETE DEVELOPMENT STAND ALONE SYSTEMS WHICH SUPPORTS MICRO CONTROLLER FAMILIES (STANDARD ) AND EPROMS.	1	SET
04-01-00832	<u>SPECIAL FAMILIES OF IC S SUCH AS FPGA</u> <u>S EPLDS OF E.G. XILINX COMPANY</u> <u>COMPLETE WITH ALL HARDWARE AND</u> <u>SOFTWARE TOOL TO DESIGN .</u> <u>IMPLEMENT ,MODIFY , SIMULATE</u> <u>DIFFERENT CIRCUITS .</u>	1	SET
04-01-00833	<u>MANUAL POWDER PLANT * 3100 MM</u> <u>LONG</u>  * 1700 MM WIDE	1	SET

	* 2200 MM HEIGHT		
04-01-00834	<u>SEMI AUTOMATIC LINE FOR COMPONENT INSERSION AND SOLDERING OF PRINTED CIRCUIT BOARD</u>	1	SET
04-01-00835	<u>DEDICATED TEST AND CALIBRATION INSTRUMENTS TO TEST AND CALLIBRATE DIFFERENT TYPE OF FIELD INSTRUMENTS.</u>	1	SET
04-01-00836	<u>HYDROLIC PRESS BRAKE CNC CAPACITY BENDING 15 MM</u> MAX. BENDING HEIGHT 3000 MM .	1	SET
04-01-00837	<u>TESTING STAND FOR NO LOAD SHORT CIRCUIT INDUCED VOLTAGE TESTING</u>	1	SET
04-01-00838	<u>HIGH VOLTAGE LABORATORY</u>	1	SET
04-01-00839	AUTOMATIC LINE FOR INSULATING THE CU AND AL CONDUCTORS CONDUCTOR DIMENSION $\varnothing 1.5 \times 8 \text{ MM} - 20 \times 30 \text{ MM}$	2	SET
04-01-00840	COIL DRYING OVEN MAX TEMPERATURE 110 °C .	1	SET
04-01-00841	<u>MIG – MAG WELDING EQUIPMENT</u>	3	SET
04-01-00842	<u>WIG- WELDING EQUIPMENT</u>	1	SET
04-01-00843	WELDING TRACTOR UNDER LAYER FLUX WITH MULTISTATION RECTIFIER	1	SET
04-01-00844	DRILLING MACHINE WITH BASE –PLATE AND COOLING INSTALLATION	1	SET
04-01-00845	<u>VERTICAL DRILLING MACHINE</u>	1	SET
04-01-00846	<u>RADIAL DRILLING MACHINE</u>	1	SET
04-01-00847	<u>RAM TYPE HORIZONTAL BORING AND MILLING MACHINE ( WITH SPECIAL ACCESSARIES )</u>	1	SET

04-01-00848	COMBINED SHEARS FOR PROFILE CUTTING	1	SET
04-01-00849	COMPACT CNC SHEET METAL WORKING MACHINE FOR PUNCHING PROFILING AND FORMING	1	SET
04-01-00850	ELECTRODE DRYING OVEN	2	SET
04-01-00851	PELLETS SANDING INSTALLATION	1	SET
04-01-00852	PRIMING AND PAINTING PLATFORM IN ANTIEXPLOSIVE CONSTRUCTION WITH LATERAL WALLS	1	SET
04-01-00853	KNEE TYPE UNIVERSAL MILLING MACHINE	1	SET
04-01-00854	SLITTING LINE FOR ELECTRICAL STEEL STRIP – SHEAR ARBOR DIA Ø 160 MM CUTTER DIAMETER Ø 160 MM IN GOING STRIP WIDTH 1000MM	1	SET
04-01-00855	PACKING OF THE CORES INSTALLATION	1	SET
04-01-00856	SCISSOR FOR CIRCULAR OUT LINE – RING DIA 250 – 3000 MM .	1	SET
04-01-00857	VERTICAL INTERNAL THREADING MACHINE – MAX . INTER . THREAD DIA M20 M30	1	SET
04-01-00858	DEVICE FOR SHEET DRUMS DAMPING – MAX CUTTER DIA Ø-1100 MM  MIN INNER DIA Ø-750 MM .	1	SET
04-01-00859	TRIMMING MACHINE FOR ISULATED PARTS .	1	SET
04-01-00860	MACHINE FOR PAPER CUTTING IN STRIPS MAX . NO OF STRIPS = 50	1	SET

04-01-00861	50 MVA UNIT CONDENSATORS BATTERY 125 MVAR	1	SET
04-01-00862	PANTOGRAF ENMGRAVING MACHINE WORKING SURFACE OF TABLE 200 × 320 MM .	1	SET
04-01-00863	WELDED RECTIFIER IN SHIELDED ATMOSPHERIC OF AR THE SYSTEM CONSISTS OF - RECTIFIER - - WIRE FEEDER - - COOLING INSTALATION	1	SET
04-01-00864	MECHANIZED SCAFFOLDING MAX LOAD 1000 KG	2	SET
04-01-00865	TRIMMING MACHINE FOR GUARD RINGS .	1	SET
04-01-00866	MILLING MACHINE FOR WEDGES WITH MILL TURNING 4900 R.P.M	1	SET
04-01-00867	HYDRAULIC PRESS OF 2350 TF FOR THICK RINGS PRESSING FORCE = 2350 TF	1	SET
04-01-00868	CYLINDER DRYING OVEN . TEMP MAX 90 °C	1	SET
04-01-00869	<u>MACHINES FOR MOLDED PARTS</u> <u>MANUFACTURING</u>	1	SET
04-01-00870	MILLING MACHINE FOR WEDGES	1	SET
04-01-00871	VERTICAL WINDING MACHINE . MAX . LOAD ON SUPPORT PLATE 20 TON .	3	SET
04-01-00872	HORIZONTAL WINDING MACHINE . MAX. COIL DIA 1800 MM .	1	SET
04-01-00873	HYDRAULIC PRESS OF 400 TF FOR	1	SET

	COIL MAX. SIZE $\varnothing$ 2500 $\times$ 3600 MM		
04-01-00874	ELECTRICAL DUBLE GRIDER WITH LEG DIA OF ABRASIVE WHEEL $\varnothing$ 500 MM .	1	SET
04-01-00875	VERTICAL DRILLING MACHINE . MAX . DRILL DIA $\varnothing$ 40 MM . TABLE 500 $\times$	1	SET
04-01-00876	PANTOGRAF ENGRAVING MACHINE	1	SET
04-01-00877	TWO GIRDER BRIDGE CRANE . LIFTING CAPACITY 25/5 TF OPENING 16 – 5 M .	1	SET
04-01-00878	TWO GIRDER BRIDGE CRANE LIFTING CAPACITY 320/80 TF OPENING 28 M .	1	SET
04-01-00879	HYDROLIC SHEET BENDING PRESS USEFUL LG OF TABLE 4050 MM	1	SET
04-01-00880	<u>SHEET ROLLING MACHINE</u> SHEET THICKNESS = 30 MM MAX . SHEET WIDTH = 3000 MM NO . OF ROLLERS = 4	1	SET
04-01-00881	<u>ULTRASONIC FLOW DETECTOR</u>	1	SET
04-01-00882	<u>TRANSFORMER LAMINATION</u> CUT – TO – LENGTH LINE LENGTH 500 – 1000 MM WIDTH 100 – 1050 MM	1	SET
04-01-00883	<u>MACHINE FOR POWER</u> TRANSFORMERS RINGS INSULATING RING OUT DIA = 300 MM OUTER DIA OF PAPER ROLLER = $\varnothing$ 280 PAPER WINDING SPEED MAX. 250 RPM	1	SET
04-01-00884	<u>OIL TREATMENT STAND</u> ADJUSTABLE FLOW 1500 – 4000 L / MIN	1	SET
04-01-00885	TEST EQUIPMENT FOR POWER TRANSFORMERS	LOT	LOT

04-01-00886	VACUUM PUMPS 3000 LITER/MIN UP TO 0.05 TORR WITH MECHACNICAL BOOSTER AND VACUUM HOSE	6	NO
04-01-00887	DRYING OVEN 110 ± 100 C SIZE 9L × 4W × 5H METER	1	NO
04-01-00888	OIL JACK (20) TON	10	NOS
04-01-00889	OIL PURIFIRE 1500 LITER/H	5	NO
04-01-00890	DRY AIR GENERATOR 2-3 M3/MIN	2	NO
04-01-00891	DEW POINT METER / RANGE LESS THAN – 30OC	2	NO
04-01-00892	OXYGEN DENSITY METER	2	NO
04-01-00893	MOISTURE TESTER	2	NO
04-01-00894	OIL TESTER	2	NO
04-01-00895	GAS MEASURING DEVICE	2	NO
04-01-00896	PARTIAL DISCHARGE TEST EQUIPMENT	2	NO
04-01-00897	TOOLS AND TORQUE SPANNER	2	NO
04-01-00898	VERTICAL AND HORIZONTAL WINDING MACHINE FOR LV AND HV COILS OF POWER TRANSFORMERS AND ACCESSARIES	4	SET
04-01-00899	INSULATING PRESS BOARD , PAPER AND CRAPE TAPE OF DIFFERENT SIZES	1000	TON
04-01-00900	TOOLS , MATERIALS AND ACCESSARIES FOR MAINTENANEE AND REPAIR OF POWER TRANSFORMAR	3	SET
04-01-00901	HIGH VOLTAGE TEST EQUIPMENT FOR POWER TRANSFORMAR	3	SET
04-01-00902	INSULATING	1000	TON

**SECTION F 40- MISSELLENOUS EQUIPMENT**

CODE.	ITEM	UNIT	QTY.
04-01-00903	WALKIE TALKIE EQUIPMENT FOR SITE WORKS	SET	300
04-01-00904	WINDMILL POWER GENERATION UNITS 100KW – 5MW	SET	100
04-01-00905	PHOTO VOLTAIC SOLAR PANEL WITH BATTERY CHARGING CONTROL UNIT 100-2000 WATT	SET	1000
04-01-00906	TRAILERS 40-70 TON	NO	50
04-01-00907	LOW LOADER 50-150 TON	NO	10
04-01-00908	TBA	TBA	TBA
<a href="#">04-01-00909*</a>	small diesel electric generators of 5, 10, 15 KVA with spare parts and equipment for assembly and repair		500
04-01-00910	TBA	TBA	TBA
04-01-00911	TBA	TBA	TBA
04-01-00912*	new 400 KV substation Al-Ameen , unit substation		1
04-01-00913*	new 400 KV substation Baghdad Centre, unit substation		1
04-01-00914	steel plates (diff.sizes)	MT	1723
04-01-00915	steel angles, steel 52	MT	1200
04-01-00916	steel shackle, bolts, nuts, washers and bolts	Pieces	769550
	This table added 27 August 2000		
04-01-00917	Preserssing steel inforcement	425	Ton
04-01-00918	Wedges	5000	Pec
04-01-00919	Pneumatic impact hammer	2	No
04-01-00920	Single wire stressing jacks	2	No
04-01-00921	Mould (forged steel) for producing concrete poles	8	No
04-01-00922	Stressing cylinders	2	No
04-01-00923	Water Treatment Plant for Al-Shemal Thermal Power Station	1	lot

[\\* amended 31 May 2000](#)  
[ril and 16 September 2000](#)

[\\* amended 9 May 2000](#)

[\\*\\* amended 31 May 2000](#)

[\\* amended 31 May 2000](#)

[\\* amended 12 July 2000](#)

[mber and 13 October 2000](#)

[\\* amended 11 July 2000](#)

[\\*\\* amended 12 July 2000](#)

[\\* amended 12 July 2000](#)

[l amended 17 August 2000](#)

[\\*\\*\\* amended 10 June 2000](#)

[l amended 22 August 2000](#)

[\\* amended 5 May 2000](#)

[\\*\\* amended 9 May 2000](#)

[\\* amended 26 June 2000](#)

[\\*\\* amended 12 July 2000](#)

[l amended 22 August 2000](#)

[4 amended 21 August 2000](#)

[\\*\\* amended 10 June 2000](#)

[3 amended 17 August 2000](#)

[\\* amended 31 May, 8 June and 17 August 2000](#)

[\\* amended 18 August 2000](#)

[2 amended 12 September 2000](#)

[\\* amended 1 September 2000](#)

[\\* amended 9 May 2000](#)