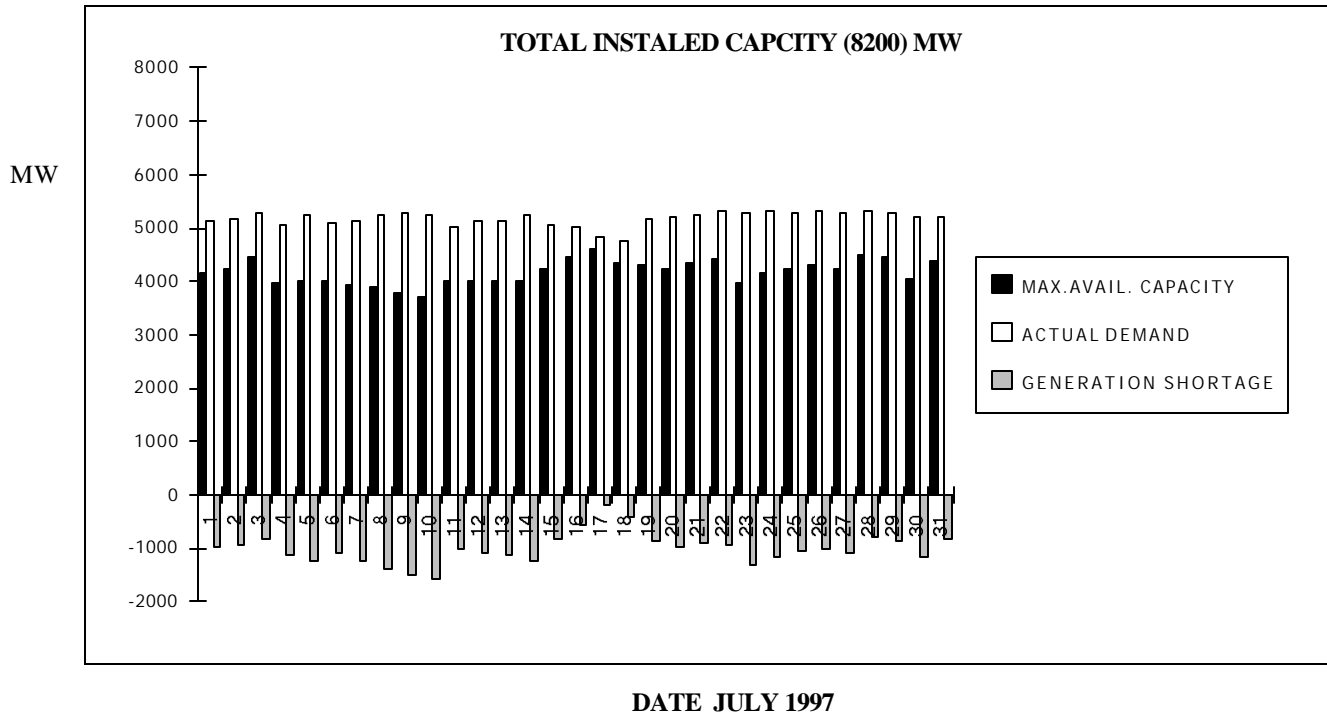


# - Annex Elec. / 1

## AVAILABLE CAPACITY , DEMAND , GENERATION SHORTAGE AND TOTAL INSTALLED CAPACITY OF THE SYSTEM DURING JULY 1997



**AVAILABLE CAPACITY, DEMAND, GENERATION SHORTAGE AND TOTAL  
INSTALLED CAPACITY OF THE SYSTEM DURING JULY 1997**

<b>GENERATION SHORTAGE ( MW)</b>	<b>ACTUAL DEMAND (MW)</b>	<b>MAX. AVAIL.CAPACITY (MW)</b>	<b>Day</b>
-992	5139	4147	1
-935	5169	4234	2
-830	5275	4445	3
-1116	5076	3960	4
-1236	5253	4017	5
-1090	5090	4000	6
-1226	5144	3918	7
-1384	5264	3880	8
-1507	5299	3792	9
-1557	5250	3693	10
-1020	5032	4012	11
-1095	5120	4025	12
-1112	5137	4025	13
-1241	5262	4021	14
-812	5055	4243	15
-555	5005	4450	16
-207	4822	4615	17
-412	4755	4309	18
-876	5185	4309	19
-971	5212	4241	20
-905	5255	4350	21
-921	5326	4405	22
-1315	5284	3969	23
-1158	5334	4176	24
-1035	5268	4233	25
-1027	5335	4308	26
-1037	5296	4223	27
-801	5303	4502	28
-853	5293	4440	29
-1160	5217	4057	30
-837	5217	4380	31

Installed Capacity = 8229 MW

**Annex ( 2 )**

**Phase V  
( Electricity Sector )**

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

<b>CODE</b>	<b>NETWORK POWER STATIONS /</b>
SECTION A 01	MUSSAIB POWER STATION
SECTION A 02	BAJI POWER STATION
SECTION A 03	NASSIRIYA POWER STATION
SECTION A 04	HARTHA POWER STATION
SECTION A 05	DAURA POWER STATION
SECTION A 06	NAJIBIA POWER STATION
SECTION A 07	BAGHDAD SOUTH POWER STATION
SECTION A 08	DIBIS POWER STATION
SECTION A 09	ZAFARANIA DIESEL POWER STATION
SECTION A 10	SADDAM HYDRO – ELECTRIC POWER STATION
SECTION A 11	QADISSIA HYDRO - ELECTRIC POWER STATION
SECTION A 12	SAMARRA HYDRO - ELECTRIC POWER STATION
SECTION A 13	HIMREEN HYDRO - ELECTRIC POWER STATION
SECTION A 14	BADOUSH 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	YOUSIFIYA POWER STATION
SECTION A 27	AL-ANBAR POWER STATION
SECTION A 28	NORTH POWER STATION
SECTION B 29	TRANSMISSION NETWORK
SECTION B 30	TRANSPRTATION LIFTING AND HANDLING
SECTION C 31	DISTRIBUTION NETWORK

**SECTION A 01- - AL - MUSSAIB POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
212** PC+ 200 SET	TURBINE SYSTEM EQUIPMENT	04-01-00001
100000 PCS	BOILER TUBES	04-01-00002
2000 PCS+200 KG.	BOILER AUXILIARY SYSTEM	04-01-00003
4 SETS	AIR HEATERS	04-01-00004
150000 PCS.	CONDENSER TUBES	04-01-00005
100 NOS + 50 SET.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00006
120 NOS+ 60 SET.	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00007
2 UNITS	POWER TRANSFORMERS	04-01-00008
1000 NOS.	VALVES OF VARIOUS SIZES	04-01-00009
1000 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00010
2000 PCS+200 SET.	WATER TREATMENT EQUIPMENT	04-01-00011
2,000* TONS	CORTEN STEEL	04-01-00012
1000 PCS+100 SET.	CONTROL , PROTECTION AND MEASURING SYSTEM	04-01-00013
120 UNITS+200 NOS	DC POWER SUPPLY EQUIPMENT	04-01-00014
15 SETS +200 NOS	GENERATOR , SYSTEM EQUIPMENT	04-01-00015
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00016
4 UNIT	*GAS TURBINE UNIT 123 MW WITH ACCESSORIES	04-01-00017

**\* Not to be funded from MOU budget**

**SECTION A 02 -BALJI POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
2000 PCS + 200 SET.	TURBINE SYSTEM EQUIPMENT	04-01-00018
100000 PCS.	BOILER TUBES	04-01-00019
500 PCS + 200 KG	BOILER AUXILIARY SYSTEM	04-01-00020
6 SETS	AIR HEATERS	04-01-00021
50000 PCS.	CONDENSER TUBES	04-01-00022
30 NOS.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00023
10 SET + 200 PCS	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00024
2 UNITS	POWER TRANSFORMERS	04-01-00025
2000 NOS.	VALVES OF VARIOUS SIZES	04-01-00026
100 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00027
1000 PCS + 100 SET.	WATER TREATMENT EQUIPMENT	04-01-00028
2,000* TONS	CORTEN STEEL	04-01-00029
2000 PCS + 200 SET.	CONTROL , PROTECTION AND MEASURING SYSTEM	04-01-00030
250 UNITS + 100 PCS	DC POWER SUPPLY EQUIPMENT	04-01-00031
200 SETS + 100 PCS	GENERATOR , SYSTEM EQUIPMENT	04-01-00032
6 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00033
6 UNITS	GAS TURBINE UNITS AND ACCESSORIES	04-01-00034

\*\* amended 17 September 99

\* amended 25 June 99

**SECTION A 03 - NASSIRIYAH POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
20000 PCS+2000 SET.	TURBINE SYSTEM EQUIPMENT	04-01-00035
100000 TUBES.	BOILER TUBES	04-01-00036
4000 PCS +100 SET.	BOILER AUXILIARY SYSTEM	04-01-00037
8 SETS	AIR HEATERS	04-01-00038
200000 PCS.	CONDENSER TUBES	04-01-00039
463** NOS + 60 SET.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00040
100 SET + 50 NOS.	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00041
2 UNITS	POWER TRANSFORMERS	04-01-00042
3000 NOS.	VALVES OF DIFFERENT TYPES	04-01-00043
100 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00044
7500 PCS.	WATER TREATMENT EQUIPMENT	04-01-00045
2,000* TONS	CORTEN STEEL	04-01-00046
10000 PCS.	CONTROL , PROTECTION AND MEASURING SYSTEM	04-01-00047
4500 UNITS+450 NOS	DC POWER SUPPLY EQUIPMENT	04-01-00048
500 SETS + 500 NOS.	GENERATOR , SYSTEM EQUIPMENT	04-01-00049
2 UNITS	SUPPLY OF NEW UNITSWITH ALL AUXILIARY UNITS AND SERVICES	04-01-00050

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\*\* amended 15 November 99

\* amended 25 June 99

**SECTION A 04 - HARTHA POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
5000 PCS + 50 SET.	TURBINE SYSTEM EQUIPMENT	04-01-00051
50000 TUBES.	BOILER TUBES	04-01-00052
50 SET + 1000 PCS.	BOILER AUXILIARY SYSTEM	04-01-00053
4 SETS	AIR HEATERS	04-01-00054
25000 PCS.	CONDENSER TUBES	04-01-00055
2000 NOS.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00056
100 SET + 1000 PCS.	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00057
2 UNITS	POWER TRANSFORMERS	04-01-00058
500 NOS.	VALVES OF DIFFERENT TYPES	04-01-00059
50 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00060
3000 PCS + 50 SET.	WATER TREATMENT EQUIPMENT	04-01-00061
<b>2,000*</b> TONS	CORTEN STEEL	04-01-00062
5000 PCS + 500 SET.	CONTROL , PROTECTION AND MEASURING SYSTEM	04-01-00063
250 UNITS+2500 PCS	DC POWER SUPPLY EQUIPMENT	04-01-00064
500 SETS + 50 PCS	GENERATOR , SYSTEM EQUIPMENT	04-01-00065
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00066
2 UNITS	BOILERS WITH ACCESSORIES	04-01-00067

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\* amended 25 June 99

### **SECTION A 05 - DAURA POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
1000 PCS + 100 SET.	TURBINE SYSTEM EQUIPMENT	04-01-00068
20000 TUBES.	BOILER TUBES	04-01-00069
100 SET + 2000 PCS.	BOILER AUXILIARY SYSTEM	04-01-00070
4 SETS	AIR HEATERS	04-01-00071
25000 PCS.	CONDENSER TUBES	04-01-00072
<b>300 NOS + 100 SET.*</b>	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00073
1000 SET + 500 NOS	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00074
2 UNITS	POWER TRANSFORMERS	04-01-00075
1500 NOS.	VALVES OF DIFFERENT TYPES	04-01-00076
100 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00077
5000 PCS.	WATER TREATMENT EQUIPMENT	04-01-00078
<b>2,000** TONS</b>	CORTEN STEEL	04-01-00079
1000 PCS + 100 SET.	CONTROL , PROTECTION AND MEASURING SYSTEM	04-01-00080
4500 UNITS+100 NOS	DC POWER SUPPLY EQUIPMENT	04-01-00081
500 SETS + 100 NOS	GENERATOR , SYSTEM EQUIPMENT	04-01-00082
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00083

### **SECTION A 06 -NAJIBIA POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
1000 PCS + 100 SET.	TURBINE SYSTEM EQUIPMENT	04-01-00084
100000 TUBES.	BOILER TUBES	04-01-00085
1000 PCS.	BOILER AUXILIARY SYSTEM	04-01-00086
4 SETS	AIR HEATERS	04-01-00087
80000 PCS.	CONDENSER TUBES	04-01-00088
200 NOS.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00089
100 SET + 50 NOS.	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00090
2 UNITS	POWER TRANSFORMERS	04-01-00091
1000 NOS.	VALVES OF DIFFERENT TYPES	04-01-00092
50 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00093
5000 PCS.	WATER TREATMENT EQUIPMENT	04-01-00094
<b>2,000** TONS</b>	CORTEN STEEL	04-01-00095
5000 PCS + 100 SET.	CONTROL , PROTECTION AND MEASURING SYSTEM	04-01-00096
2500 UNITS+100 PCS	DC POWER SUPPLY EQUIPMENT	04-01-00097
500 SETS + 100 NOS	GENERATOR , SYSTEM EQUIPMENT	04-01-00098
2 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00099

\* amended 16 June 99

\*\* amended 25 June 99

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
200 PCS + 100 SET.+ <b>340 barrel of Turbine lubricating oil**</b>	TURBINE SYSTEM EQUIPMENT	04-01-00100
60000 TUBES.	BOILER TUBES	04-01-00101
1000 PCS.	BOILER AUXILIARY SYSTEM	04-01-00102
6 SETS	AIR HEATERS	04-01-00103
50000 PCS.	CONDENSER TUBES	04-01-00104
200 NOS + 100 SET.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00105
200 SET + 100 NOS	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00106
2 UNITS	POWER TRANSFORMERS	04-01-00107
1000 NOS.	VALVES OF DIFFERENT TYPES	04-01-00108
75 TONS	CHEMICALS FOR WATER TREATMENT	04-01-00109
2000 PCS + 100 SET.	WATER TREATMENT EQUIPMENT	04-01-00110
<b>2,000*</b> TONS	CORTEN STEEL	04-01-00111
5000 PCS.	CONTROL , PROTECTION AND MEASURING SYSTEM	04-01-00112
2500 UNITS+100 PCS	DC POWER SUPPLY EQUIPMENT	01-01-00113
200 SETS	GENERATOR , SYSTEM EQUIPMENT	04-01-00114
2 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00115

**SECTION A 08 - DIBIS POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
100 PCS.	TURBINE SYSTEM EQUIPMENT	04-01-00116
10000 TUBES.	BOILER TUBES	04-01-00117
200 PCS + 100 SET.	BOILER AUXILIARY SYSTEM	04-01-00118
40000 TUBES.	CONDENSER TUBES	04-01-00119
100 NOS + 50 SET.	PUMPS , COMPRESSORS AND ROTARY MACHINES	04-01-00120
300 SET + 100 NOS.	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00121
2 UNITS	POWER TRANSFORMERS	04-01-00122
200 NOS.	VALVES OF DIFFERENT TYPES	04-01-00123
2000 PCS + 100 SET.	CONTROL , PROTECTION AND MEASURING SYSTEM	04-01-00124
1250 UNITS+100 PCS	DC POWER SUPPLY EQUIPMENT	04-01-00125
100 SETS + 50 PCS	GENERATOR , SYSTEM EQUIPMENT	04-01-00126

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
4 UNITS.	REHABILITATION AND ENGINEERING SERVICES	04-01-00127

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\*\* amended 9 August 99

\* amended 25 June 99

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
40 SETS	TURBINE SYSTEM EQUIPMRNT	04-01-00128
200 PCS	GENERATOR SYSTEM EQUIPMENT	04-01-00129
600 PCS	CONTROL , MEASURING AND PROTECTION SYSTEM	04-01-00130
200 SETS	SWITCHYARD EQUIPMENT	04-01-00131
1200 UNITS	DC POWER SUPPLY EQUIPMENT	04-01-00132
200 UNITS	GATES AND VALVES	04-01-00133
60 UNITS	AIR COMPRESSORS AND ACCESSORIES	04-01-00134

**SECTION A 11 - QADISSIA HYDRO - ELECTRIC POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
1000 PCS + 10 SET	TURBINE SYSTEM EQUIPMENT	04-01-00135
1000 PCS	GENERATOR SYSTEM EQUIPMENT	04-01-00136
1500 PCS	CONTROL , MEASURING AND PROTECTION SYSTEM	04-01-00137
400 SETS	SWITCHYARD EQUIPMENT	04-01-00138
1250 UNITS	DC POWER SUPPLY EQUIPMENT	04-01-00139
500 UNITS	GATES AND VALVES	04-01-00140
400 UNITS	AIR COMPRESSORS AND ACCESSORIES	04-01-00141
1000 M.	400 KV OIL FILLED CABLES	04-01-00142
140 UNITS	CABLE BOX TERMINATIONS	04-01-00143

**SECTION A 12 - SAMARA HYDRO - ELECTRIC POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
50 SETS	TURBINE SYSTEM EQUIPMENT	04-01-00144
100 SETS	GENERATOR SYSTEM EQUIPMENT	04-01-00145
30 SETS + 300 NOS	CONTROL , MEASURING AND PROTECTION SYSTEM	04-01-00146
1100 UNITS	DC POWER SUPPLY EQUIPMENT	04-01-00147
100 SETS	GATES AND VALVES	04-01-00148
60 SETS	AIR COMPRESSORS AND ACCESSORIES	04-01-00149

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
100 SETS	TURBINE SYSTEM EQUIPMENT	04-01-00150
200 PCS.	GENERATOR SYSTEM EQUIPMENT	04-01-00151
100 PCS.	CONTROL , MEASURING AND PROTECTION SYSTEM	04-01-00152
100 SETS	SWITCHYARD EQUIPMENT	04-01-00153
1200 UNITS	DC POWER SUPPLY EQUIPMENT	04-01-00154
100 SETS	GATES AND VALVES	04-01-00155
20 SETS	AIR COMPRESSORS AND ACCESSORIES	04-01-00156

**SECTION A 14 - BADOSH HYDRO - ELECTRIC POWER STATION ( 4 X 42.5) MW**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
4 UNITS	ENGINEERING AND ENBEDED PART AND STARTING MANUFACTURING FOR SUPPLING ( 4 X 42.5 )MW UNIT	04-01-00157
FOR COMPLETE 4 UNITS.	EQUIPMENT ( ELECTRO MECHANICAL) FOR SUPPLING (4X42.5 MW) HYDRO POWER UNITS	04-01-00158

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
2 UNITS	ENGINEERING AND ENBEDED PART AND STARTING MANUFACTURING FOR SUPPLING (2X 15 )MW UNIT	04-01-00159
FOR COMPLETE 2 UNITS.	EQUIPMENT ( ELECTRO MECHANICAL) FOR SUPPLING (2 X 15 MW) HYDRO POWER UNITS	04-01-00160

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
(2000) NOS. (40) SET	TURBINE AND COMPRESSOR BLADES , MOVING STATIONARY WITH ACCESSORIES	04-01-00161
(1000) NOS.	INNER CASING AND HOT PATH EQUIPMENT	04-01-00162
1000 NOS + 50 SET.	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00163
20 NOS.	GAS UNITS STARTING DEVICE	04-01-00164
1500 NOS.	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00165
300 NOS.	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00166
100 NOS.	PUMPS , MOTORS AND ROTARY MACHINES	04-01-00167
500 NOS + 5 ETS	BATTERIES , CHARGERS AND CONVERTERS	04-01-00168
100 NOS.	SWITCHYARD EQUIPMENT	04-01-00169
3 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00170

**SECTION A 17 - KHOR AL – ZUBAIR GAS TURBINE POWER STATION**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
3000 NOS. 50 SETS	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	04-01-00171
1500 NOS.	INNER CASING AND HOT PATH EQUIPMENT	04-01-00172
1000 NOS. 50 SETS	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00173
20 NOS.	GAS UNITS STARTING DEVICE	04-01-00174
1000 NOS.	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00175
150 NOS.	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00176
150 NOS.	PUMPS , MOTOR AND ROTARY MACHINES	04-01-00177
500 NOS. 10 SETS	BATTERIES , CHARGERS AND CONVERTERS	04-01-00178
100 SET	SWITCHYARD EQUIPMENT	04-01-00179
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00180
3 UNITS	* GAS TURBINE UNIT 156 MW WITH ACCESSORIES	04-01-00181

\* Not to be funded from the MOU budget

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
1000 NOS. 20 SET	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	04-01-00182
150 NOS.	INNER CASING AND HOT PATH EQUIPMENT	04-01-00183
2000 NOS + 20 SET.	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00184
150 NOS + 5 SET	GAS UNITS STARTING DEVICE	04-01-00185
500 NOS + 50 SET	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00186
2000 NOS+30 UNITS	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00187
250 NOS + 100 SET.	PUMPS , MOTOR AND ROTARY MACHINES	04-01-00188
1500 NOS + 9 SET	BATTERIES , CHARGERS AND CONVERTERS	04-01-00189
250 NOS.	SWITCHYARD EQUIPMENT	04-01-00190
10 UNITS.	SUPERVISION FOR REHABILITATION	04-01-00191
12 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00192
LOT	GENERAL SPARE PARTS FOR FRAME-5 GAS TURBINES	04-01-00193
2 UNITS	GAS TURBINE UNITS AND ACCESSORIES	04-01-00194

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
1000 NOS. 4 SETS	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	04-01-00195
1000 NOS. 40 SETS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00196
10000 NOS. 40 SETS	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00197
15000 NOS. 100 SETS	GAS UNITS STARTING DEVICE	04-01-00198
1500 NOS.	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00199
1000 NOS.	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00200
150 NOS.	PUMPS , MOTOR AND ROTARY MACHINES	04-01-00201
100 NOS.	BATTERIES , CHARGERS AND CONVERTERS	04-01-00202
100 NOS.	SWITCHYARD EQUIPMENT	04-01-00203
7 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00204
22 UNITS	REHABILITATION AND ENGINEERING SERVICES FOR MOBILE G.T. UNITS ( IHI & GEC )	04-01-00205
1 UNITS	GAS TURBINE UNITS AND ACCESSORIES	04-01-00206

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
15000 NOS. 40 SETS	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	04-01-00207
1500 NOS. 40 SETS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00208
1000 NOS. 40 SETS	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00209
500 NOS. 25 SETS	GAS UNITS STARTING DEVICE	04-01-00210
1800 NOS+100 SET	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00211
200 NOS + 10 SET.	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00212
1200 NOS + 10 SET.	PUMPS , MOTOR AND ROTARY MACHINES	04-01-00213
500 NOS+200 SETS	BATTERIES , CHARGERS AND CONVERTERS	04-01-00214
1000 NOS + 50 SET.	SWITCHYARD EQUIPMENT	04-01-00215
10 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00216
12 UNITS	GAS TURBINE UNITS AND ACCESSORIES	04-01-00217

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
5000 NOS. 100 SET	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	04-01-00218
40 SETS + 100 NOS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00219
2500 NOS 100 SETS	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00220
2000 NOS+60 SETS	GAS UNITS STARTING DEVICE	04-01-00221
150 NOS.	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00222
1000 NOS.	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00223
550 NOS.	PUMPS , MOTOR AND ROTARY MACHINES	04-01-00224
100 NOS.	BATTERIES , CHARGERS AND CONVERTERS	04-01-00225
500 NOS + 50 SETS	SWITCHYARD EQUIPMENT	04-01-00226

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
3000 NOS. 40 SETS	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	04-01-00227
1000 NOS. 40 SETS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00228
10000 NOS. 4 SETS	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00229
150 NOS.	GAS UNITS STARTING DEVICE	04-01-00230
750 NOS.	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00231
500 NOS + 100 SET	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00232
100 NOS + 50 SET.	PUMPS , MOTOR AND ROTARY MACHINES	04-01-00233
50 NOS + 5 SETS	BATTERIES , CHARGERS AND CONVERTERS	04-01-00234
20 NOS + 100 SET.	SWITCHYARD EQUIPMENT	04-01-00235
2 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00236

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
6000 NOS 60 SETS.	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	04-01-00237
1000 NOS. 60 SETS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00238
4000 NOS. 250 SETS	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00239
1000 NOS.	GAS UNITS STARTING DEVICE	04-01-00240
2500 NOS.	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00241
1350 NOS+100 SET.	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00242
500 NOS.	PUMPS , MOTOR AND ROTARY MACHINES	04-01-00243
1750 NOS+ 100 SET	BATTERIES , CHARGERS AND CONVERTERS	04-01-00244
150 NOS + 100 SET.	SWITCHYARD EQUIPMENT	04-01-00245
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00246

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
3000 NOS. 40 SETS	TURBINE AND COMPRESSOR BLADES MOVING STATIONARY WITH ACCESSORIES	04-01-00247
100 NOS. 40 SETS	INNER CASING AND HOT PATH EQUIPMENT	04-01-00248
2000 NOS. 50 SETS	COMBUSTION EQUIPMENT AND ACCESSORIES	04-01-00249
1000 NOS. 50 SETS	GAS UNITS STARTING DEVICE	04-01-00250
250 NOS+ 100 SET	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00251
400 NOS+100 SET	GENERATOR , EXCITATION AND ACCESSORIES	04-01-00252
200 NOS + 100 SET	PUMPS , MOTOR AND ROTARY MACHINES	04-01-00253
200 NOS + 5 UNITS.	BATTERIES , CHARGERS AND CONVERTERS	04-01-00254
100 NOS.	SWITCHYARD EQUIPMENT	04-01-00255
3 UNTS	REHABILITATION AND ENGINEERING SERVICES	04-01-00256

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
4050* NOS. 4 SETS	TURBINE AND COMPRESSOR BLADES WITH ACCESSORIES	04-01-00257
500 NOS. 4 SETS	HOT PATH AND COMBUSTION EQUIPMENT AND ACCESORIES	04-01-00258
500 NOS+10 SETS	GAS UNITS STARTING DEVICE	04-01-00259
500 NOS.	CONTROL PROTECTION AND MEASURING SYSTEM	04-01-00260
750 NOS+ 5 UNITS	GENERATOR , EXCITATION AND ACCESSORIES, BATTERY CHARGERS AND CONVERTERS	04-01-00261
1500 NOS+5 SETS	PUMPS , MOTOR , ROTARY MACHINES, FILTERS	04-01-00262
4 UNITS	REHABILITATION AND ENGINEERING SERVICES	04-01-00263

**SECTION A 26 – YOUSIFIYA POWER STATION ( 6 X 210 ) MW**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
6 UNITS	COMPLETE POWER STATION WITH ALL AUXILIARY UNITS AND SERVICES	04-01-00264

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

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
6 UNITS	COMPLETE POWER STATION WITH ALL AUXILIARY UNITS AND SERVICES	04-01-00265

\* amended 9 August 99

**SECTION A 28 - NORTH POWER STATION (2X 350 MW)**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
2 UNITS	COMPLETE BOILERS & ACCESSORIES	04-01-00266
2 UNITS	COMPLETE TURBINE & ACCESSORIES	04-01-00267
2 UNITS	COMPLETE GENERATOR & ACCESSORIES	04-01-00268
1 UNIT	WATER TREATMENT PLANT & ACCESSORIES	04-01-00269
LOT	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00270
2 UNITS	SUPPLY, ERRECTION AND FITTING EQUIPMENT AND ALL GENERAL SYSTEMS & SUPPLY OF GAS , HEAVY OIL AND LIGHT OIL SYSTEMS AND DISCHARGE SYSTEM , OIL CARRIER TRUCK AND ALL OTHER ACCESSORIES .	04-01-00271
2 UNITS	SUPPLY OF COOLING EQUIPMENT WITH ACCESSORY EQUIPMENT AND CIVIL ENGINEERING MATERIALS	04-01-00272
2 UNITS	SUPPLY OF HYDROGEN AND OXEGEN GENERATION EQUIPMENT AND COMPRESSORS WITH OTHER ACCESSORIES, FIRE FIGHTING EQUIPMENT	04-01-00273
2 UNIT	SUPPLY OF ALL TRANSFORMERS NEEDED FOR THE TWO UNITS	04-01-00274
2 UNIT	SUPPLY OF WATER INTAKE PUMPING FROM THE RIVER AND WATER TREATMENT PLANT, VALVES AND ALL ACCESSORIES	04-01-00275
2 UNIT	PROJECT CONSULTAION AND WORK COORDINATION AND INSPECTION	04-01-00276
2 UNIT	SUPPLY OF AUTOMATIC CONTROL AND ELECTRICAL EQUIPMENT	04-01-00277

**SECTION B 29 - TRANSMISSION NETWORK**

<b>QTY</b>	<b>ITEM</b>	<b>Code</b>
250 SETS	SWITCH GEARS	04-01-00278
25 UNITS+150 SET	TRANSFORMERS AND SPARE PARTS	04-01-00279
368* SETS	CIRCUIT BREAKERS AND SPARE PARTS	04-01-00280
100 SETS	DC POWER SUPPLY EQUIPMENT	04-01-00281
50 SETS	TESTING EQUIPMENT	04-01-00282
1000 PCS.	ELECTRICAL POWER SUPPLY CENTER SPARES	04-01-00283
100 SETS+1000 NO	TRANSMISSION LINES SPARES	04-01-00284
LOT	BAGHDAD EAST-BAGHDAD SOUTH 400KV LINE EQUIP. EQUIPMENT	04-01-00285
LOT	BAGHDAD EAST- DIYALA – TAMEEM 400KV LINES EQUIPMENT	04-01-00286
10 UNITS	MOBILE SUBSTATION 132/33KV 15MVA	04-01-00287

\* amended 16 July 99

10 UNITS	MOBILE SUBSTATION 132/11KV 10MVA OR 25MVA	04-01-00288
140 SET	POWER LINE CARRIER COMMUNIATION EQUIPMENT	04-01-00289
1000 PCS	WIRELESS EQUIPMENT FOR MOBILE COMMUNIATION	04-01-00290
80 SET	PILOT CABLE CARRIER COMMUNIATION EQUIPMENT	04-01-00291
80 SET	SWITCHING COMMUNIATION EQUIPMENT	04-01-00292
280 SET	VHF /MW COMMUNIATION EQUIPMENT	04-01-00293
11 SETs+ 129 PCs*	FIBER OPTICS COMMUNIATION EQUIPMENT	04-01-00294
3000 Km	FIBER OPTICS COMMUNIATION CABLES	04-01-00295
50 PCS	TEST EQUIPMENT FOR COMMUNICATION SYSTEMS	04-01-00296
500 NOS 100000 NOS 2000 KM 1000 PCS	TRANSMISSION AND DISTRBUTION NETWORK MATERIALS AND ACCESSORIES - TOWER - INSULATORS - WIRES - ACCESSORIES	04-01-00297 04-01-00298 04-01-00299 04-01-00300
100 SET	POWER TRANSFORMERS MATERIALS AND ACCESSORIES	04-01-00301
4 NOS	ELECTRICITY DISPATCH CENTERS ( REHABILITATION AND INSTALLATION OF NEW CENTERS )	04-01-00302
LOT	REHABILITATION AND INSTALLATION OF NEW TELECOMMUNICATION EQUIPMENT FOR VOICE, DATA COMMUNICATION AND POWER LINE PROTECTION	04-01-00303
2,700** TON	ALUMINUM INGOT FRO PRODUCTION OF ACSR ELECTRICAL POWER TRANSMISSION LINES	04-01-00304
100 TON	STEEL REINFORCEMENT CABLES FOR ELECTRICAL POWER TRANSMISSION LINES	04-01-00305
3 UNITS	NEW SUBSTATION 132/33/11 KV FOR (MOUSEL-MANSOUR) AND ( HADITHA) , ( GHAMMAS )	04-01-00306
3 UNITS	EXTENTION OF EXISTING SUBSTATION 132/33/11 KV FOR ( TAJI) ( BAB AL- ZUBAIR) ( HINDIYA BARRAGE)	04-01-00307
250 SET	TRANSDUCER AND METERING EQUIPMENT	04-01-00308
150 SET	SWITCH YARD EQUIPMENT AND ACCESSORIES	04-01-00309
150 SET	SUSTATION MAINTENANCE EQUIPMENT	04-01-00310
50 SET	OIL AND SF6 PURIFIRE EQUIPMENT	04-01-00311

\* Amended 15 October 1999

\*\* Amended 7 September 1999

## **SECTION B 30 – TRANSPORTATION LIFTING AND HANDLING VEHICLES**

QTY	ITEM	Code
370* NOS	CARS, PICKUPS, LORRIES AND SPARE PARTS**	04-01-00312
40 NOS	CRANES AND LIFTING DEVICES	04-01-00313
16 NOS	TANKERS FOR CHEMICAL TRANSPORTATION AND FOR WATER TREATMENT	04-01-00314
20 NOS	AMBULANCE CARS	04-01-00315
20 NOS	FIRE FIGHTING VEHICLES	04-01-00316

## **SECTION C 31 - DISTRIBUTION NETWORK**

QTY	UNIT	DESCRIPTION	CODE
50	KM	CABLE XLPE 3X150 11 KV	04-01-00317
50	KM	CABLE XLPE 3X150 33 kV	04-01-00318
2500	PCS	STRAIGHT JOINT 1X400MM2 33 kV	04-01-00319
1200	PCS	TERMINATION 1X400MM2 33 KV	04-01-00320
1000	PCS	STRAIGHT JOINT 3X150 MM2 33KV	04-01-00321
1000	PCS	TERMINATION JOINT 3X150 MM2 33KV	04-01-00322
1500	PCS	STRAIGHT JOINT 3X150MM2 11kV	04-01-00323
1000	PCS	TERMINATION JOINT 3X150 MM2 11KV	04-01-00324
100	PCS	STRAIGHT JOINT 400VOLT 3X120+70	04-01-00325
100	PCS	STRAIGHT JOINT 400VOLT 3X95+50	04-01-00326
100	PCS	STRAIGHT JOINT 400VOLT 3X70+35	04-01-00327
500	PCS	STRAIGHT JOINT 400VOLT 3X240+120	04-01-00328
500	PCS	STRAIGHT JOINT 400VOLT 3X50+70	04-01-00329
3000	SET	CUT -OUT FUSE 11KV & 33KV WITH THE FUSES	04-01-00330
32000	PCS	ELEMENT FUSE 20-40&60 AMP	04-01-00331
250	PCS	( ON -LOAD ) LINE ISOLATOR 11kV & 33KV	04-01-00332
70000	PCS	PORCELAIN PIN TYPE INSULATORS WITH GALVANIZED STEEL SPINDLE 11&33 KV LONG TYPE	04-01-00333
50000	PCS	DISC INSULATORS FOR 11KV :	04-01-00334
25000	PCS	DISC INSULATORS FOR 11KV : -SOCKET EYE	04-01-00335
20000	PCS	DISC INSULATORS FOR 11KV :-SUSPENSION CLAMP	04-01-00336
25000	PCS	DISC INSULATORS FOR 11KV :-TENSION CLAMP	04-01-00337
25000	PCS	DISC INSULATORS FOR 11KV : - BALL EYE	04-01-00338
50000	PCS	SHACKLE INSULATORS WITH D IRON & 2 BOLTS	04-01-00339
700	PCS	DOUBLE SECTION ROPE OPERATED LADDERS (FIBER GLASS ) 2X4.5 M & 2X6M	04-01-00340
4	PCS	CABLE TESTING VAN	04-01-00341
15000	PCS	L.T SWITCH BOARD FOR TR.250 KVA (OUTDOOR )	04-01-00342
4200	PCS	11/0.4KV DIST . TRANSFORMERS 100-250-400-630&1000 kVA	04-01-00343
40	PCS	33/0.4 KV DIST . TRANSFORMERS 250-400&630 kVA	04-01-00344
1600	KM	ASCR-BARE WIRE : 210/35 MM2	04-01-00345
2500	KM	ACSR-BARE WIRE : 120/20MM2	04-01-00346
500	KM	ACSR-BARE WIRE : 95/15MM2	04-01-00347
2000	KM	AAC-BARE WIRE : 95MM2	04-01-00348
2500	KM	AAC-BARE WIRE : 70MM2	04-01-00349

\* amended 20 May 99

\*\* amended 7 July 99

QTY	UNIT	DESCRIPTION	CODE
2300	KM	ACC-BARE WIRE : 50MM2	04-01-00350
300	KM	ACC-BARE WIRE : 35MM2	04-01-00351
270	PCS	RING MAIN UNIT 11KV	04-01-00352
100	PCS	SWITCHES (ISOLATORS &FUSES )	04-01-00353
160	PCS	CIRCUIT BREAKER 11 KV WITH SPARE PARTS	04-01-00354
10	PCS	METERING PANEL 11KV	04-01-00355
66000	PCS	KWH -METERS (1Ph ) 40 AMP	04-01-00356
73000	PCS	KWH- METERS (3Ph) 3(20-60)AMP	04-01-00357
200	KM	400 VOLT TWISTED CABLES 3X95+50+16 & 3X50+50+16	04-01-00358
28	PCS	DIESEL GENERATORS (300-1000)KVA WITHOUT ENCLURE WITH RECOMMENDED SPARE PARTS	04-01-00359
17	PCS	DIESEL GENERATORS (300-1000)KVA WITH ENCLURE AND RECOMMENDED SPARE PARTS	04-01-00360
3,000,000	PCS	SAVING ENERGY LAMPS ( LOW POWER LAMPS)( 5-54) WATT	04-01-00361
334400	PCS	-LAMPS -125W -160W-250W&400W MERCURY	04-01-00362
88400	PCS	-LAMPS 250 & 400 W SODIUM	04-01-00363
63000	PCS	-LANTERNS FOR LAMPS -125W -160W-250W&400W MERCURY	04-01-00364
24000	PCS	-LANTERNS FOR LAMPS 250 & 400 W SODIUM	04-01-00365
22000	PCS	-CHOKES FOR LANTERNS FOR LAMPS 125 & 400W MERCURY	04-01-00366
4800	PCS	-CHOKES FOR LANTERNS FOR LAMPS 400 W SODIUM	04-01-00367
35000	PCS	- IGNITOR FOR LAMPS 400W SODIUM	04-01-00368
3000	PCS	- PHOTO ELECTRICAL CELL	04-01-00369
5000	PCS	- COMPLETE OUTDOOR CABINET FOR LIGHTING CONTROL POLE MOUNTED : SINGLE PHASE 230V , 80 AMP & THREE PHASE 400V , 100AMP.	04-01-00370
		<b>SPARE PARTS FOR S/S:</b>	
100	PCS	-CIRCUIT BREAKER 12KV, 630A, 25K, FG2, SF6	04-01-00371
250	PCS	-POLE OF C.B 12KV, 630A, 25K, FG2, SF6	04-01-00372
90	PCS	-11 KV CURRENT TRANSFORMER 150-300/5/5 TCF 200A	04-01-00373
50	PCS	-11 KV CURRENT TRANSFORMER 300-600/5/5 TCF 200A	04-01-00374
100	PCS	-11 KV V.T 11000/3/110/3 TYPE RTF 200F	04-01-00375
50	PCS	-RELAY IN VERSE INSTANTINYNSE ITG 7291	04-01-00376
50	PCS	-BATTERY CHARGER 110V	04-01-00377
100	PCS	-ELECTRONIC CARDSOF CORO DEL CHARGER TYPE SCE 270A	04-01-00378
50	PCS	- ELECTRONIC CARDSOF CORO DEL CHARGER TYPE SCE 270C	04-01-00379
60	PCS	-BATTERY110 V NICLE-CADIMUM 110AH CHLORIDE OR SAFTALKLINE	04-01-00380
30	PCS	(SET)	
320	PCS	- SOCAPEX, SCOKET REF 709551F (630A),759551A 91250A), 769620(2000A)	04-01-00381
		-FUSE FOR VOLTAGE TRANSFORMER 0.5A	
600	PCS	-FLAC RELAY110V D.C (FIR) DROP OUT	04-01-00382
300	PCS	- FLAC RELAY110V D.C (FIR) PIK UP	04-01-00383
150	PCS		04-01-00384
18	PCS	33/11KV SUB STATION (2X31.5 ,3X16,2X10,2X16) MVA WITH TRANSFORMERS AND SPARE PARTS	04-01-00385
12	PCS	33/11KV MOBILE SUB STATION (1X10, 1X16) MVA	04-01-00386
4000	PCS	KWH METER WITH M.D. 3X30-90A,400V - 3X50-150 A,400V -3X400/5C.T.,400V - 3X600/5,400 V-3X1000/5,400V - 3X1600/5,400V & 3X250/5C.T. & V.T.	04-01-00387

QTY	UNIT	DESCRIPTION	CODE
10	PCS	-TRANSFORMER OIL PURIFIER 2500 L/H WITH TRAILER AND WITH TWO TRAILER FLEXIBLE HOSES 25, 10 M LONG WITH FILTER SETS FOR EACH	04-01-00388
370	PCS	-VHF COMMUNIATION EQUIPMENT (FIXED AND MOBILE )	04-01-00389
3000	M	-COAXIAL CABLE	04-01-00390
10	PCS	-SWITCHING EQUIPMENT	04-01-00391
10	SETS	- PILOT CABLE CARRIER COMMUNIATION EQUIPMENT	04-01-00392
5	PCS	- VHF COMMUNIATION EQUIPMENT	04-01-00393
10	PCS	- TEST EQUIPMENT FOR COMMUNICATION SYSTEMS	04-01-00394
100	SET	- POWER LINE CARRIER COMMUNIATION EQUIPMENT	04-01-00395
100000	PCS	MINIATURE CIRCUIT BREAKER 20A, 40A, 60A	04-01-00396
10	PCS	CRANE 30-60 TONS	04-01-00397
30	PCS	TRUCK WITH LIFTER FOR TRANS FORMERS.	04-01-00398
20	PCS	EXCAVATION EQUIPMENT	04-01-00399
24	PCS	33/11KV POWER TRANSFORMERS 5,10,16&31.5MVA	04-01-00400
60	PCS	11/0.4 KIOSK SUBSTATION 400-1000KVA WITHOUT TRANSFORMERS	04-01-00401
5000	PCS	LATICE STEEL POLES 9, 11M	04-01-00402
20000	PCS	TUBLER STEEL POLES 9, 11M	04-01-00403
3640	PCS	TOWERS TYPE IC, IC+3 1C2,1E,1E+3,1EC,1H,1H+3,1HC,1L	04-01-00404
<b>2,200**</b>	SET	LIGHTNING ARRESTERS 11KV, 33KV	04-01-00405
500	PCS	MOVING CONTACT FIXED CONTACT OIL TYPE SWITCH GEAR	04-01-00406
10,500	PCS	SPARE PARTS FOR SIEMENS NETWORK	04-01-00407
<b>5000*</b>	PCS	HRC 11KV 20A, 40A, 63A, 80A, 160A	04-01-00408
	LOT	REHABILITATION& INSTALLATION OF NEW TELECOMMUNICATION EQUIPMENT FOR VOICE, DATA AND PROTECTION OF POWER LINES	04-01-00409
20	NOS	ELECTRICITY DESPATCH CENTERS (REHABILITATION & INSTALLATION OF NEW CENTERS)	04-01-00410
20	PCS	BEAMLIFER TRUCKS 15M , 22M , & 30M	04-01-00411
30	PCS	COMPUTERS AND PRINTERS	04-01-00412

\*\* amended 24 May, 1999

\* amended 30 March, 99