



## Conseil de sécurité

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LETTRE DATÉE DU 2 JUILLET 1999, ADRESSÉE AU PRÉSIDENT  
DU CONSEIL DE SÉCURITÉ PAR LE SECRÉTAIRE GÉNÉRAL

### Additif

Le présent additif, qui complète le document S/1999/746 du 2 juillet 1999, contient une liste détaillée des pièces de rechange et du matériel nécessaires aux fins décrites au paragraphe 1 de la résolution 1175 (1998) du Conseil de sécurité\*.

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\* La liste est publiée dans la langue dans laquelle elle a été présentée uniquement.

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**Phase VI oil sector requirements - list of spare parts and equipment**

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: ALL NOC FIELDS**  
**ACTIVITY NO. (01): WELL DRILLING & COMPLETION (40 WELLS)**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                        | UNIT     | QTY    | COMMENT                                                                                      |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|----------------------------------------------------------------------------------------------|
| 08-06-01-001 | CASING & TUBING ( VARIOUS SIZES, GRADES & WEIGHTS)                                                                                                                                                                                                                                                                      | MTR.     | 300000 | Equipment and materials for drilling & completion of 125 wells throughout North Company area |
| 08-06-01-002 | CASING ACCESSORIES ( VARIOUS)                                                                                                                                                                                                                                                                                           | NOS.     | 7500   | "                                                                                            |
| 08-06-01-003 | CORE HEAD.                                                                                                                                                                                                                                                                                                              | NOS.     | 5      | "                                                                                            |
| 08-06-01-004 | ROCK BITS(VARIOUS)                                                                                                                                                                                                                                                                                                      | NOS.     | 600    | "                                                                                            |
| 08-06-01-005 | NOZZLES (VARIOUS)                                                                                                                                                                                                                                                                                                       | NOS.     | 1200   | "                                                                                            |
| 08-06-01-006 | SINGLE PACKER (VARIOUS)                                                                                                                                                                                                                                                                                                 | SET      | 40     | "                                                                                            |
| 08-06-01-007 | OIL WELL CEMENT & ADDITIVES.                                                                                                                                                                                                                                                                                            | TON      | 600    | "                                                                                            |
| 08-06-01-008 | MUD MATERIALS (BARYTES, BENTONITE, XC-POLYMER, CAUSTI SODA, SODA ASH, POLYMER CELLELOUSE, SODIUM BICARBONAT CMC-LV, CMC-HV, MICA FLAKES, F.C.LIGNOSULFONATES, STARCH ANTIFOAM, PRIMARY, EMULSIFIRE, SECONDARY EMULSIFIRE LIME, SODIUM DICROMATE, CELLOPHAN, GELTON, ATTAPULGITE STUCK BREAKER, FLOSAL, IRONITE SPONGE). | TON      | 12000  | "                                                                                            |
| 08-06-01-009 | WELL HEADS & X - MAS TREES ( VARIOUS) WITH ACCESSORIES AND SPARE PARTS COMPLETE                                                                                                                                                                                                                                         | ASSEMBLY | 40     | "                                                                                            |
| 08-06-01-010 | LINER HANGER & ACCESSORIES.                                                                                                                                                                                                                                                                                             | SET      | 25     | "                                                                                            |
| 08-06-01-011 | CROSSOVER SUBS.                                                                                                                                                                                                                                                                                                         | NOS.     | 120    | "                                                                                            |
| 08-06-01-012 | DRILLING SERVICES CONTRACTS / CONTRACTOR WILL B RESPONSIBLE FOR DRILLING THE WELLS EXCEPT MATERIAL WHICH WILL BE PROVIDED BY NOC CONTRACT WILL B ADMINISTERED BY IRAQI DRILLING COMPANY                                                                                                                                 | WELL     | 40     | "                                                                                            |

**MINISTRY OF OIL**

**ESTABLISHMENT NAME: NORTH OIL COMPANY**

**LOCATION: ALL NOC FIELDS**

**ACTIVITY NO. (02): WELL WORK OVER & COMPLETION**

| CODE         | ITEM DESCRIPTION                                                           | UNIT     | QTY   | COMMENT                               |
|--------------|----------------------------------------------------------------------------|----------|-------|---------------------------------------|
| 08-06-02-013 | X-MAS TREE& TUBING HANGER WITH ACCESSORIES AND SPARE PARTS (VARIOUS SIZES) | ASSEMBLY | 18    | Workover & completion of 37 new wells |
| 08-06-02-014 | DOUBLE STUDDED ADAPTERS & ACCESSORIES                                      | SET      | 55    | "                                     |
| 08-06-02-015 | CASING & TUBING (VARIOUS SIZES, GRADES & WEIGHTS).                         | MTR.     | 22000 | "                                     |
| 08-06-02-016 | SINGLE PACKERS WITH ALL ACCESSORIES                                        | SET      | 20    | "                                     |
| 08-06-02-017 | UNCEMENTED LINER HANGER                                                    | SET      | 3     | "                                     |
| 08-06-02-018 | DUAL PACKER WITH ALL EQUIPMENT & ACCESSORIES                               | SET      | 3     | "                                     |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: ALL AREAS**  
**ACTIVITY NO. (03): SUPPORTING MATERIALS AND EQUIPMENT**  
**FOR WELLS PRODUCTION MAINTENANCE**

| CODE         | ITEM DESCRIPTION                                                                                              | UNIT | QTY  | COMMENT                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------|------|------|---------------------------------------------------------|
| 08-06-03-019 | DRILLING SIMULATOR.                                                                                           | SET  | 1    | Materials and equipment for well production maintenance |
| 08-06-03-020 | SOFT WARE FOR DRILLING APPLICATION.                                                                           | SET  | 1    | "                                                       |
| 08-06-03-021 | EQUIPMENT WITH ALL ACCESSORIES FOR OIL WELL CEMENT SLURRY LAB TESTS.                                          | SET  | 3    | "                                                       |
| 08-06-03-022 | LAB. TESTING EQUIPMENT FOR OIL, GAS AND WATER WITH SPARE PARTS & ACCESSORIES.                                 | SET  | 113  | "                                                       |
| 08-06-03-023 | GEOLOGICAL LAB TESTING EQUIP. WITH SPARE PARTS & ACCESSORIES.                                                 | SET  | 17   | "                                                       |
| 08-06-03-024 | HYDROCHLORIC ACID.                                                                                            | TON  | 1500 | "                                                       |
| 08-06-03-025 | ACID CORROSION INHIBITOR.                                                                                     | GAL  | 2750 | "                                                       |
| 08-06-03-026 | WIRE LINE EQUIPMENT AND SPARES.                                                                               | ITEM | 200  | "                                                       |
| 08-06-03-027 | SPARES FOR AMERADA PRESSURE GAUGES.                                                                           | ITEM | 2800 | "                                                       |
| 08-06-03-028 | PRESSURE GAUGES.                                                                                              | NOS. | 70   | "                                                       |
| 08-06-03-029 | PERFORATION MATERIALS (HOLLOW CARRIER CHARGES, DETONATING CORD, DETONATING FUSES & ACCESSORIES TO ALL ABOVE). | ITEM | 5    | "                                                       |
| 08-06-03-030 | LOGGING SERVICES.                                                                                             | WELL | 50   | "                                                       |
| 08-06-03-031 | PROCESS AND MULTIPHASE FLOW SIMULATOR.                                                                        | SET  | 1    | "                                                       |
| 08-06-03-032 | SPARE PARTS FOR CEMENTING UNITS & TYRES.                                                                      | ITEM | 125  | "                                                       |
| 08-06-03-033 | SPARES FOR TESTING EQUIPMENT                                                                                  | ITEM | 200  | "                                                       |

**MINISTRY OF OIL**

**ESTABLISHMENT NAME: NORTH OIL COMPANY**

**LOCATION: (T/P/L, PROCESS P.ST., K3 ST., TI ST.)**

**MISC. SPARES & EQUIPMENT**

| CODE         | ITEM DESCRIPTION                                                               | UNIT | QTY | COMMENT                                                                |
|--------------|--------------------------------------------------------------------------------|------|-----|------------------------------------------------------------------------|
| 08-06-00-034 | FILTER ELEMENT FOR VOITH TURBO COUPLING TWIN<br>FILTER TYPE NW 50              | SET  | 8   | Spare parts and replacements for North<br>Oil company pumping stations |
| 08-06-00-035 | GEAR BOX COMPLETE UNIT                                                         | NOS. | 1   | "                                                                      |
| 08-06-00-036 | SPARE PARTS FOR MEDIVANE CENT. PUMP:-                                          |      |     | "                                                                      |
| 08-06-00-037 | A- THRUST PAD R.H. NO.(4 ER)                                                   | SET  | 7   | "                                                                      |
| 08-06-00-038 | B- THRUST PAD L.H. PART NO.(4 ER)                                              | SET  | 7   | "                                                                      |
| 08-06-00-039 | C- GLAND PACKING SIZE 14.5 mm2                                                 | NOS. | 56  | "                                                                      |
| 08-06-00-040 | SPARE PARTS FOR ELECTRIC MOTOR DRIVEN PUMP<br>(EACH SET CONSISTS OF TWO PARTS) | SET  | 6   | "                                                                      |
| 08-06-00-041 | MULTI STAGE CENTRIFUGAL PUMP DRIVEN BY SUITABLE<br>DIESEL ENG.                 | NOS. | 2   | "                                                                      |
| 08-06-00-042 | CRUDE OIL FLOW COUNTERS (3" x 3 "),1000 L/M                                    | NOS. | 10  | "                                                                      |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: ALL NOC FIELDS**  
**MISC. EQUIPMENT & ACCESSORIES FOR FIRE**  
**FIGHTING & SAFETY**

| CODE         | ITEM DESCRIPTION                                                            | UNIT         | QTY       | COMMENT                                                        |
|--------------|-----------------------------------------------------------------------------|--------------|-----------|----------------------------------------------------------------|
| 08-06-00-043 | FIRE FIGHTING TRUCK (WITH HYDRAULIC BOOM & CAP. WATER 4000 L, FOAM 4000 L   | NOS.         | 1         | Safety & fire-fighting equipment for all North Area operations |
| 08-06-00-044 | FLUOR – PROTEIN FOAM                                                        | LIT          | 50000     | "                                                              |
| 08-06-00-045 | HYDRANT VALVE                                                               | NOS.         | 80        | "                                                              |
| 08-06-00-046 | FIXED MONITOR (WATER)                                                       | NOS.         | 40        | "                                                              |
| 08-06-00-047 | DELIVERY HOSE<br>A- 30 M LENGTH, SIZE 2 3/4"<br>B- 30 M LENGTH, SIZE 1 1/2" | NOS.<br>NOS. | 100<br>50 | "                                                              |
| 08-06-00-048 | COMPRESSED AIR BREATHING APPARATUS                                          | NOS.         | 20        | "                                                              |
| 08-06-00-049 | OXYGEN BREATHING APPARATUS                                                  | NOS.         | 10        | "                                                              |
| 08-06-00-050 | MINI GAS INDICATOR                                                          | NOS.         | 5         | "                                                              |
| 08-06-00-051 | FLAMMABLE GASES & VAPOR INDICATOR                                           | NOS.         | 15        | "                                                              |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: SUFAYA OIL FIELD**  
**MISC. SPARES & EQUIPMENT**

| CODE         | ITEM DESCRIPTION                                                                                                                                                    | UNIT                         | QTY              | COMMENT                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|---------------------------------------------------------------------------------------|
| 08-06-00-052 | SPARE PARTS FOR SOFTENED WATER PUMPS:-<br>205A/B TYPE WK 40/4N<br>A- PUMP SHAFT DRW. NO. (1751.21M/3)<br>B- BALL BEARING<br>C- CYL. BEARING<br>D- TRANSMISSION UNIT | NOS.<br>NOS.<br>NOS.<br>NOS. | 2<br>2<br>2<br>2 | Repair and maintenance of equipment<br>at the Sufaya field, near the Syrian<br>border |
| 08-06-00-053 | SPARE PARTS FOR INDUSTRIAL WATER PUMPS<br>(TRANSMISSION UNIT)                                                                                                       | NOS.                         | 2                | "                                                                                     |
| 08-06-00-054 | SPARE PARTS FOR FLARE K.O. DRUM DISC. PUMPS:-<br>A- MEMBRANE UNIT (2711-291M/4)<br>B- BALL BEARING                                                                  | NOS.<br>NOS.                 | 2<br>4           | "                                                                                     |
| 08-06-00-055 | SPARE PARTS FOR RECOVERY OIL PUMPS:-<br>A- BALL BEARING<br>B- MEMBRANE UNIT<br>C- MECH. SEAL                                                                        | NOS.<br>NOS.<br>NOS.         | 2<br>2<br>2      | "                                                                                     |
| 08-06-00-056 | SPARE PARTS FOR DEOILED WATER PUMPS 304A/B TYPE<br>WK 80/4 :-<br>A- IMPELLER<br>B- TRANSMISSION UNIT<br>C- MECH. SEAL                                               | NOS.<br>NOS.<br>NOS.         | 3<br>2<br>2      | "                                                                                     |
| 08-06-00-057 | TRANSMISSION UNIT FOR TANK DRAIN PUMPS                                                                                                                              | NOS.                         | 2                | "                                                                                     |
| 08-06-00-058 | MEMBRANE UNIT FOR MANIFOLD PITS PUMPS                                                                                                                               | NOS.                         | 2                | "                                                                                     |
| 08-06-00-059 | BALL BEARING FOR OILY WATER PUMPS                                                                                                                                   | NOS.                         | 4                | "                                                                                     |
| 08-06-00-060 | MECH. SEAL COMPLETE UNITS FOR CRUDE OIL TRANSFER<br>PUMPS.                                                                                                          | NOS.                         | 4                | "                                                                                     |
| 08-06-00-061 | SPARE PARTS FOR SUCKER ROD PUMPS:-<br>A- ROD VALVE<br>B- SHOE UPPER HALF<br>C- CAGE TOP PLUNGER<br>D- BARREL TUBE HARDENED                                          | NOS.<br>NOS.<br>NOS.<br>NOS. | 8<br>8<br>8<br>8 | "                                                                                     |

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**MINISTRY OF OIL**

**ESTABLISHMENT NAME: NORTH OIL COMPANY**

**LOCATION: BAI HASSAN SOUTH, NORTH  
& DAWOOD DEGASSING STATIONS  
MISC. SPARES & EQUIPMENT**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                                                                                                    | UNIT             | QTY        | COMMENT                                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08-06-00-062 | GAS COMPRESSION TRAIN                                                                                                                                                                                                                                               | SET              | 3          | To increase gas extraction capability from increased crude production                                                                                                                 |
| 08-06-04-063 | ACTIVITY NO.(04) :-<br>PRODUCTION FACILITIES IN BAI HASSAN SOUTH INCLUDING THE FOLLOWING MAJOR ITEMS:<br>1st- THREE PHASE 1 <sup>ST</sup> . STAGE SEPARATOR 3*35000 BOPD. OPERATING AT 150 psig.<br>2nd-THREE PHASE TEST SEPARATOR 10000 BOPD OPERATING AT 60 psig. | NOS.<br><br>NOS. | 3<br><br>1 | Three phase separators required to de-water wet crude resulting from increased production. Crude can contain up to 10% water therefore increased separation is important requirement. |
| 08-06-05-064 | ACTIVITY NO.(05) :-<br>PRODUCTION FACILITIES IN BAI HASSAN NORTH INCLUDING THE FOLLOWING MAJOR ITEMS:<br>1st- THREE PHASE 1 <sup>ST</sup> . STAGE SEPARATOR 2*35000 BOPD. OPERATING AT 150 psig.<br>2nd-THREE PHASE TEST SEPARATOR 10000 BOPD OPERATING AT 60 psig. | NOS.<br><br>NOS. | 2<br><br>1 | "                                                                                                                                                                                     |
| 08-06-06-065 | ACTIVITY NO.(06) :-<br>PRODUCTION FACILITIES IN BAI HASSAN DAWOOD INCLUDING THE FOLLOWING ITEMS :<br>1st- THREE PHASE 1 <sup>ST</sup> . STAGE SEPARATORS 2*35000 BOPD. OPERATING AT 150 psig.<br>2nd-THREE PHASE TEST SEPARATOR 10000 BOPD OPERATING AT 60 psig .   | NOS.<br><br>NOS. | 2<br><br>1 | "                                                                                                                                                                                     |
| 08-06-00-066 | DIESEL OPERATED MOBILE HEAVY OIL PUMP (ALL AREAS)                                                                                                                                                                                                                   | NOS.             | 2          | To cover all North Area operations                                                                                                                                                    |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: ALL NOC FIELDS**  
**TRUCKS & VEHICLES**

| CODE         | ITEM DESCRIPTION                                                                                          | UNIT | QTY | COMMENT                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------------------------------------------------------------|
| 08-06-00-067 | REFRIGERATOR TRUCK. CHASSIS 4x2, WITH DIESEL ENGINE. H.P (300).                                           | NOS. | 2   | General transportation requirement of trucks and vehicles for staff movement to cover repairs and maintenance |
| 08-06-00-068 | CESSPIT EMPTIER TRUCK. CHASSIS 4x2 DIESEL ENGINE H.P (200-250). TANK CAPACITY 8000 LIT.                   | NOS. | 3   | "                                                                                                             |
| 08-06-00-069 | OIL TANK TRUCK. CHASSIS 4x2. DIESEL ENGINE H.P (250-300). TANK CAPACITY 12000 LIT                         | NOS. | 5   | "                                                                                                             |
| 08-06-00-070 | WATER TANK TRUCK. CHASSIS 6x4 WITH DIESEL ENGINE. H.P (300-350), TANK CAPACITY 12000 LIT                  | NOS. | 5   | "                                                                                                             |
| 08-06-00-071 | BUS (45) SEATER . 4x2. WITH A/C, DIESEL ENGINE, H.P (250-300).                                            | NOS. | 40  | "                                                                                                             |
| 08-06-00-072 | BUS (30) SEATER .4x2 .WITH A/C, DIESEL ENGINE, H.P (150).                                                 | NOS. | 10  | "                                                                                                             |
| 08-06-00-073 | BUS (12) SEATER WITH A/C, PETROL ENGINE, H.P (8-100).                                                     | NOS. | 10  | "                                                                                                             |
| 08-06-00-074 | STATION WAGON 4 X 4, 7 SEATER PETROL ENGINE, H.P. (120) MANUAL TRANSMISSION .                             | NOS. | 20  | "                                                                                                             |
| 08-06-00-075 | PICK-UP DOUBLE CABIN, 4 x 2 , 5 SEATERS, 4 DOORS , PETROL ENGINE, H.P. (100 - 120 ), MANUAL TRANSMISSION, | NOS. | 30  | "                                                                                                             |
| 08-06-00-076 | LORRY 12 TON, DIESEL ENGINE, H.P (300-350), 6 x 4 WITH CRANE MAX CAPACITY (6) TON.                        | NOS. | 10  | "                                                                                                             |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: ALL NOC FIELDS**  
**HEAVY & MOBILE PLANT EQUIPMENT**

| CODE         | ITEM DESCRIPTION                                                                                                                           | UNIT | QTY | COMMENT                                                                    |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----------------------------------------------------------------------------|
| 08-06-00-077 | TIP TRUCK. CHASSIS 6x4 DIESEL ENGINE, H.P (300 - 350) . DUMP CAPACITY (12) M3..                                                            | NOS. | 10  | Excavators and heavy equipment for digging and land grading for North area |
| 08-06-00-078 | TURNABLE TRUCK SUITABLE FOR PIN SIZE 3.5"x 4.5" LO FOR 70 TONS MINIMUM. SEMI - TRAILER (LOW LOADER), 6x4 DIESEL ENGINE, H.P. (350 - 400) . | NOS. | 3   | "                                                                          |
| 08-06-00-079 | TURNABLE TRUCK SUITABLE FOR PIN SIZE 3.5" x 4.5" LONG , 6x4, DIESEL ENGINE, H.P.(350 - 400) .                                              | NOS. | 7   | "                                                                          |
| 08-06-00-080 | CEMENT MIXTURE FITTED ON CHASSIS 6x4, DIESEL ENGINE, H.P (300) , SEPARATE ENGINE FOR MIXTURE , MIXTURE CAPACITY (8) M3 ..                  | NOS. | 4   | "                                                                          |
| 08-06-00-081 | BULL DOZER CRAWLER TYPE, WITH DIESEL ENGINE, H.P. (350 - 400) , BLADE BUCKET CAPACITY (10 - 12) M3 , WITH A SINGLE SHANK .                 | NOS. | 4   | "                                                                          |
| 08-06-00-082 | EXCAVATOR WHEEL TYPE, H.P. (160 - 180) , BUCKET CAPACITY 0.5 - 1 M3.                                                                       | NOS. | 2   | "                                                                          |
| 08-06-00-083 | EXCAVATOR CRAWLER TYPE, H.P. (220 - 260) . BUCKET CAP. 1-2M3.                                                                              | NOS. | 2   | "                                                                          |
| 08-06-00-084 | MOTOR GRADER, WITH DIESEL ENGINE . H.P. (200 - 250) . BLADE CAPACITY (2) M3 ..                                                             | NOS. | 5   | "                                                                          |
| 08-06-00-085 | MOBILE HYDRAULIC CRANE. 6 x 4, WITH DIESEL ENGINE, H.P. (250 - 300) , LIFTING CAPACITY 20 TON WITH FLYJIB .                                | NOS. | 5   | "                                                                          |
| 08-06-00-086 | MOBILE HYDRAULIC CRANE. 6 x 4, WITH DIESEL ENGINE, H.P. (250 - 300) , LIFTING CAPACITY 50 TON WITH FLYJIB.                                 | NOS. | 1   | "                                                                          |
| 08-06-00-087 | MOBILE HYDRAULIC CRANE. 6 x 4, WITH DIESEL ENGINE, H.P. (250 - 300) , LIFTING CAPACITY 30 TON WITH FLYJIB.                                 | NOS. | 2   | "                                                                          |
| 08-06-00-088 | HYDRAULIC WHEEL LOADER, WITH DIESEL ENGINE, H.P. (220) , BUCKET CAPACITY (3) M3.                                                           | NOS. | 4   | "                                                                          |
| 08-06-00-089 | GENERATOR 75 K VA, 50 HZ, 3PH, DIESEL ENGINE                                                                                               | NOS. | 4   | "                                                                          |

# MINISTRY OF OIL

ESTABLISHMENT NAME: NORTH OIL COMPANY

LOCATION: ALL NOC FIELDS

## HEAVY & MOBILE PLANT EQUIPMENT

| CODE         | ITEM DESCRIPTION                                                                                        | UNIT | QTY | COMMENT                                                               |
|--------------|---------------------------------------------------------------------------------------------------------|------|-----|-----------------------------------------------------------------------|
| 08-06-00-090 | GENERATOR 1000 K VA, 50 HZ, 3PH, DIESEL ENGINE                                                          | NOS. | 2   | Stand-by generation equipment, heavy lifting equipment for North area |
| 08-06-00-091 | GENERATOR 500 K VA, 50 HZ, 3PH, DIESEL ENGINE                                                           | NOS. | 3   | "                                                                     |
| 08-06-00-092 | GENERATOR 250 K VA, 50 HZ, 3PH, DIESEL ENGINE                                                           | NOS. | 3   | "                                                                     |
| 08-06-00-093 | GENERATOR 30 K VA, 50 HZ, 3PH, DIESEL ENGINE, ON FOUR WHEEL TRAILER                                     | NOS. | 2   | "                                                                     |
| 08-06-00-094 | GENERATOR 10 K VA, 50 HZ, SINGLE PHASE, DIESEL ENGINE, ON FOUR WHEEL TRAILER                            | NOS. | 4   | "                                                                     |
| 08-06-00-095 | LIGHTING SET, DIESEL ENGINE AIR COOL, 12 K VA / FITTED ON TWO WHEEL TRAILER.                            | NOS. | 4   | "                                                                     |
| 08-06-00-096 | LIFTING TRUCK (5) TON, DIESEL ENGINE, H.P. (100 - 120) . MAX LIFTING HEIGHT (5) M.                      | NOS. | 10  | "                                                                     |
| 08-06-00-097 | LIFTING TRUCK (10) TON, DIESEL ENGINE, H. P (150 - 180), LIFTING MAX HEIGHT (7 - 8) M.                  | NOS. | 5   | "                                                                     |
| 08-06-00-098 | DUMPER, DIESEL ENGINE AIR-COOLED , H. P (12) . BUCKET CAPACITY (1.5) M3 ..                              | NOS. | 10  | "                                                                     |
| 08-06-00-099 | VIBRATING ROLLER, DIESEL ENGINE H.P 30 - 50, HYDROSTATIC TRANSMISSION. STEERING SYSTEM: HYDRAULIC.      | NOS. | 2   | "                                                                     |
| 08-06-00-100 | DIESEL LUBRICATING UNIT, 4 X 2 CHASSIS, SINGLE CABIN, H.P. 250-300 MANUAL TRANSMISSION EACH SIDE.       | NOS. | 2   | "                                                                     |
| 08-06-00-101 | MOBILE WORKSHOP FOR ELECTRIC USAGE WITH A/C, CHASSIS 4 X 4, H.P. 250-300, MANUAL TRANSMISSION ASSEMBLY. | NOS. | 2   | "                                                                     |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: ALL NOC FIELDS**  
**MAJOR SPARES FOR REHABILITATION OF VEHICLES**

| CODE         | ITEM DESCRIPTION                                                                                                                  | UNIT | QTY | COMMENT                                                                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08-06-00-102 | SCANIA TRANSMISSION ASSEMBLY WITH PLANETARY TRANSMISSION ASSEMBLY.                                                                | NOS. | 20  | Workshop equipment and heavy spares for vehicle repair and maintenance workshop. All items in this section required simultaneously for effective utilization |
| 08-06-00-103 | mitsubishi pajero 4WD TRANSMISSION WITH TRANSFER ASSEMBLY.                                                                        | NOS. | 6   | "                                                                                                                                                            |
| 08-06-00-104 | mitsubishi, L 200, W - CAB, 4WD TRANSMISSION WITH TRANSFER ASSEMBLY.                                                              | NOS. | 2   | "                                                                                                                                                            |
| 08-06-00-105 | ENGINE ASSEMBLY WITH ALL ACCESSORIES ENGINE TYPE. MITSUBISHI 4 G 54 MODEL VEHICLE : LO 47 G . S / NO. JO 4704 - GA 7319.YEAR 1985 | NOS. | 10  | "                                                                                                                                                            |
| 08-06-00-106 | ENGINE ASSEMBLY TOYOTA WITH ALL ACCESSORIES TYPE : 2F.                                                                            | NOS. | 10  | "                                                                                                                                                            |
| 08-06-00-107 | ENGINE ASSEMBLY TOYOTA WITH ALL ACCESSORIES TYPE : 3F.                                                                            | NOS. | 5   | "                                                                                                                                                            |
| 08-06-00-108 | ENGINE ASSEMBLY WITH CLUTCH NISSAN VEHICLE.                                                                                       | NOS. | 10  | "                                                                                                                                                            |
| 08-06-00-109 | SHAFT REAR AXLE HINO TIP TRUCK VEHICLE.                                                                                           | NOS. | 20  | "                                                                                                                                                            |
| 08-06-00-110 | TRANSMISSION ASSEMBLY FITTED TO SHOVEL KAWASAKI KSS 70B .                                                                         | NOS. | 2   | "                                                                                                                                                            |
| 08-06-00-111 | TRANSMISSION ASSEMBLY FITTED TO LIFTING TRUCK KOMATSU FD 50(5) TON.                                                               | NOS. | 2   | "                                                                                                                                                            |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: ALL NOC FIELDS**  
**MAJOR SPARES FOR REHABILITATION OF VEHICLES**

| CODE         | ITEM DESCRIPTION                                                                                              | UNIT | QTY | COMMENT |
|--------------|---------------------------------------------------------------------------------------------------------------|------|-----|---------|
| 08-06-00-112 | TRANSMISSION ASSEMBLY FITTED TO LIFTING TRUCK KOMATSU FD 30 - (3) TON.                                        | NOS. | 2   | "       |
| 08-06-00-113 | ENGINE ASSEMBLY WITH ALL ACCESSORIES FITTED TO ROLLER SAKAI.                                                  | NOS. | 1   | "       |
| 08-06-00-114 | ENGINE ASSEMBLY WITH ALL ACCESSORIES MITSUBISHI 8V 8D DIESEL WATER COOL FITTED TO CRANE KATO CAPACITY 120 TON | NOS. | 1   | "       |
| 08-06-00-115 | ENGINE ASSEMBLY WITH ALL ACCESSORIES CATERPILLAR TYPE 3406 FITTED TO CRANE GROVE 75 TON ,                     | NOS. | 1   | "       |
| 08-06-00-116 | ENGINE ASSEMBLY WITH ALL ACCESSORIES CATERPILLAR TYPE D 3208 FITTED TO CRANE GROVE 75 TON                     | NOS. | 1   | "       |
| 08-06-00-117 | PETROL FILLING PUMPS TO BE INSTALLED IN EXISTING FILLING STATION .                                            | NOS. | 3   | "       |
| 08-06-00-118 | GAS OIL FILLING PUMP . TO BE INSTALLED IN EXISTING FILLING STATION.                                           | NOS. | 2   | "       |

**LOCATION: ALL FIELDS**  
**ACTIVITY NO. (07): FLOW LINES , FITTING FOR WELLHEAD CONNECTIONS**

**FOR (53) WELLS**

| CODE         | ITEM DESCRIPTION                     | UNIT | QTY  | COMMENT                 |
|--------------|--------------------------------------|------|------|-------------------------|
| 08-06-07-119 | PIPES, DIFFERENT SIZES               | KM   | 190  | Flow lines for 53 wells |
| 08-06-07-120 | VALVES, DIFFERENT TYPES              | NOS. | 150  | "                       |
| 08-06-07-121 | FITTING (ELBOWS, REDUCERS & FLANGES) | NOS. | 1600 | "                       |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: PROCESS PLANTS KIRKUK AREA**  
**SPARES & EQUIPMENT**  
**A.-ELECTRICAL**

| CODE         | ITEM DESCRIPTION                                                                                                                    | UNIT    | QTY | COMMENT                              |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|---------|-----|--------------------------------------|
| 08-06-00-122 | 33KV PACKAGE SUBSTATION FOR PROCESS PLANT WITH ALL ACCESSORIES.                                                                     | PACKAGE | 1   | Electrical spares for process plants |
| 08-06-00-123 | SPARE PARTS FOR 110 V SYSTEM ( RECTIFIER+ INVERTER) AT PROCESS PLANT ( PRINTED CARDS , THYRISTOR , DIODES...ETC ) TYPE SAB - NIFE   | ITEM    | 20  | "                                    |
| 08-06-00-124 | SPARE PARTS FOR O/H CRANE 3 TON & 5 TON TYPE STAHL AT ABI, 2,3 ( MANUAL OPERATION SW. & CABLE , RELAYS, TIMERS, LIMIT SWITCH. ETC ) | NOS.    | 30  | "                                    |

**B. INSTRUMENT**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                  | UNIT | QTY | COMMENT                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------------------------------------------|
| 08-06-00-125 | REPLACEMENT OF THE EXISTING AUTOMATIC GAS FIRING SYSTEM & MODIFICATION OF SOME OBSOLETE MAIN INSTRUMENTS BY NEW UP TO DATE FULLY - AUTOMATIC GAS FIRING CONTROL SYSTEM FOR BOILER | UNIT | 9   | Automatic control systems for boiler operation |

**C.MECHANICAL**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                             | UNIT            | QTY             | COMMENT                                                         |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------------------------------------------------------|
| 08-06-00-126 | REPLACEMENT OF EXISTING GROUND FLARE AND REHABILITATION OF TOWER FLARE SYSTEM AT PROCESS PLANT                                                                                               | LOT             | 1               | Replacement of non-functioning flare system                     |
| 08-06-00-127 | PREMIXED CONCRETE READY TO USE FOR LINING REPAIR & PROTECTION OF OIL HEATER & CHIMNEY STEEL SHELL AGAINST HEAT, H2S & SO2 GASES STAINLESS STEEL ANCHORS Y TYPE OR V TYPE (LENGHT 10-50 CM) . | TON<br><br>NOS. | 700<br><br>7000 | Construction equipment, and anchors, for chimney reconstruction |
| 08-06-00-128 | SPARES FOR REBOIL PUMP TYPE ZM1 750/06 AT NEW PROCESS                                                                                                                                        | NOS.            | 175             | Spare parts for pump                                            |
| 08-06-00-129 | TUBES FOR STEAM BOILER 3 " OD X 11 F ASTM A-53 GASKET FOR STEAM BOILER 320 X 220 X 25 X 10 MM                                                                                                | NOS.<br>NOS.    | 100<br>75       | Replacement tubing for boiler                                   |
| 08-06-00-130 | SPARES FOR AIR COMP. TYPE K.S.B. TYPE TV 12 / TV 5                                                                                                                                           | ITEM            | 15              | Air compressor spares                                           |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: DEGASSING & COMPRESSOR STATIONS**  
**MATERIALS & SPARES**  
**A-ELECTRICAL**

| CODE         | ITEM DESCRIPTION                                                                                                               | UNIT | QTY | COMMENT                                      |
|--------------|--------------------------------------------------------------------------------------------------------------------------------|------|-----|----------------------------------------------|
| 08-06-00-131 | LOW VOLTAGE MOTORS FOR GAS COMP. STN. (ABI TO AB8)                                                                             | NOS. | 40  | Spares for degassing and compressor stations |
| 08-06-00-132 | SPARE PARTS FOR CENTRILIFT CRUDE SUBMERSIBLE PUMPS AT JABAL BUR                                                                | ITEM | 8   | "                                            |
| 08-06-00-133 | OIL IMMERSION HEATERS FOR GAS COMP. LUB OIL SYSTEM.                                                                            | NOS. | 8   | "                                            |
| 08-06-00-134 | SPARE PARTS FOR 110 V. SYSTEM( RECTIFIER+ INVERTER) AT KHABAZ OIL FIELD (PRINTED CARDS , RECTIFIER , BRIDGE, THYRISTOR...ETC ) | NOS. | 50  | "                                            |
| 08-06-00-135 | BEARING FOR H.P & L.P COMP. MOTOR TYPE T.P.C B 800 B4                                                                          | NOS. | 6   | Engine spare parts                           |
| 08-06-00-136 | SPARE PARTS FOR 400 V EMERGENCY DIESEL GENERATOR TYPE CATERPILLAR IN KHABAZ OIL FIELD                                          | SET  | 8   | Generator spare parts                        |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: DEGASSING & COMPRESSOR STATIONS, ALL AREAS**  
**MATERIAL & SPARES**  
**B-INSTRUMENTS**

| CODE         | ITEM DESCRIPTION                                                                                                                                | UNIT | QTY | COMMENT                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------------------------------------------------------------------------------|
| 08-06-00-137 | REPLACEMENT OF OBSOLETE SOLAR TURBINE & COMP. TURBINE SYSTEM CONTROL SYSTEM TYPE CS4000                                                         | SET  | 3   | Instrumentation spare parts and replacements for degassing and compressor stations |
| 08-06-00-138 | SPARES FOR SOLAR TURBINES (PRESSURE & TEMP SWITCH, GAS FUEL CONTROL ASSEMBLY, SOLENOID VALVE...etc.                                             | LOT  | 1   | "                                                                                  |
| 08-06-00-139 | REPLACEMENT OF OBSOLETE CONTROL SYSTEM OF GHG GAS COMPRESSOR AT AB/II                                                                           | SET  | 2   | "                                                                                  |
| 08-06-00-140 | ANTI SURGE CONTROL VALVE AT AB/8 COMPLETE WITH ALL ACCESSORIES                                                                                  | NOS. | 1   | "                                                                                  |
| 08-06-00-141 | TEMP. RECORDERS FOR GAS COMPRESSOR REPLACEMENT FOR OBSOLETE 6 CHANNEL MEASURING RANGE 0-200 C. POWER SUPPLY 115 VAC 50 HZ, DIMENSION 280X280 MM | NOS. | 15  | "                                                                                  |
| 08-06-00-142 | OVER HAUL SPARE KIT FOR SHUTDOWN VALVE                                                                                                          | ITEM | 23  | "                                                                                  |
| 08-06-00-143 | CONTROL & MEASURING INSTRUMENT FOR ALL DEGASSING & COMPRESSOR STATION.                                                                          | NOS. | 250 | "                                                                                  |
| 08-06-00-144 | SPARE PARTS FOR KHABAZ PLC CONTROLLERS                                                                                                          | ITEM | 18  | "                                                                                  |
| 08-06-00-145 | AUTOMATIC TANK GAUGE FOR MEASUREMENT OF LIQUID ( OIL, WATER ) LEVEL IN FIXED CONE ROOF TANKS AT KHABAZ FIELD.                                   | NOS. | 6   | "                                                                                  |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: DEGASSING & COMP. STATION**  
**MATERIAL & SPARES**  
**C-MECHANICAL**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                      | UNIT            | QTY         | COMMENT                                                                                                                          |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|
| 08-06-00-146 | SPARE PARTS FOR SOLAR TURBINES                                                                                                                                                        | ITEM            | 25          | Spare parts and replacements for degassing and compressor stations; some items need replacing as spare parts no longer available |
| 08-06-00-147 | SPARE PARTS MECHANICAL FOR HITACHI TURBINE                                                                                                                                            | ITEM            | 25          | "                                                                                                                                |
| 08-06-00-148 | SEAL OIL PUMP FOR GAS COMP. STATION                                                                                                                                                   | NOS.            | 8           | "                                                                                                                                |
| 08-06-00-149 | REPLACEMENT OF HIGH & LOW PRESSURE TURBINE ROTOR FOR L.P. HP HITACHI M3142 AT AB8.                                                                                                    | SET             | 1           | "                                                                                                                                |
| 08-06-00-150 | REHABILITATION/REBUILDING OF HITACHI GAS TURBINE TRAIN B OF AB2.                                                                                                                      | SET             | 1           | "                                                                                                                                |
| 08-06-00-151 | REPAIR OF GAS TURBINE ROTORS & NOZZELS FOR HITACHI M3142 (SERVICE CONTRACT IN SPECIALIZED WORKSHOPS ABROAD) FOR AB3 TRAIN(C)                                                          | SET             | 8           | "                                                                                                                                |
| 08-06-00-152 | REPAIR OF GAS PRODUCER TURBINE ROTOR (SOLAR) AT AB4 CS 4000 (SERVICE CONTRACT AT SOLAR WORKSHOPS)                                                                                     | SET             | 1           | "                                                                                                                                |
| 08-06-00-153 | REPLACEMENT OF COPPUS STARTING TURBINE HITACHI AT AB1,2,3                                                                                                                             | SET             | 3           | "                                                                                                                                |
| 08-06-00-154 | MECHANICAL PARTS FOR KHABAZ COMPRESSORS                                                                                                                                               | NOS.            | 20          | "                                                                                                                                |
| 08-06-00-155 | CONNECTION OF SHURAU DEGASSING TO PROCESS PLANT<br>- LINE PIPE 20 " ERW BEVELED ENDS, L X 52<br>- LINE PIPE 16 " ERW BEVELED ENDS, L X 52<br>- FITTINGS & ACCESSORIES FOR ABOVE PIPES | KM<br>KM<br>LOT | 5<br>4<br>2 | Well connection equipment for Shurau field                                                                                       |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: POWER GENERATION PLANTS**  
**SPARES & MATERIALS**

| CODE         | ITEM DESCRIPTION                                                                                                         | UNIT       | QTY  | COMMENT                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------|------------|------|-----------------------------------------------------------------------------------------------------|
| 08-06-00-156 | SPARE PARTS FOR GT-35 GAS TURBINE GENERATOR ELECTRICAL (50 ITEMS), MECHANICAL (2 KITS + 20 ITEMS), INSTRUMENT (50 ITEMS) | ITEM & KIT | 122  | Spares and materials for power generation plants.                                                   |
| 08-06-00-157 | SPARE PARTS FOR STEAM TURBINE GENERATOR (ROTATING BLADES, SHROUD, BEARINGS .... etc)                                     | ITEM       | 12   | "                                                                                                   |
| 08-06-00-158 | SPARE PARTS FOR WATER PUMP & FOR STEAM TURBINE GENERATOR                                                                 | LOT        | 1    | "                                                                                                   |
| 08-06-00-159 | BOILER TUBE & SUPER HEATER TUBES WITH ALL ACC.                                                                           | NOS.       | 3500 | "                                                                                                   |
| 08-06-00-160 | ALUMINIUM FOIL FOR COOLING TOWER                                                                                         | TON        | 20   | NOTE THIS ITEM STILL "ON HOLD" FROM PHASE 4. Plant remains non-operational until foil is delivered. |
| 08-06-00-161 | FIRE BRICKS FOR BOILERS & CHIMNEYS                                                                                       | NOS.       | 4000 | "                                                                                                   |
| 08-06-00-162 | BOILER MOUNTINGS, COMPLETE WITH SPARES                                                                                   | ITEM       | 4    | "                                                                                                   |

**LOCATION: WORKSHOPS**  
**A-ELECTRICAL**

| CODE         | ITEM DESCRIPTION                                                                                     | UNIT | QTY | COMMENT                                                       |
|--------------|------------------------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------------|
| 08-06-00-163 | EQUIPMENT FOR MOTOR REWINDING (MACHINES FOR COIL WINDING & ELECTRICAL OVEN, TESTING DEVICES ... ETC) | ITEM | 10  | Electrical equipment required for North area workshop complex |
| 08-06-00-164 | MATERIALS FOR MOTOR REWINDING (INSULATORS)                                                           | ITEM | 10  | "                                                             |
| 08-06-00-165 | ELECTRICAL MEASURING EQUIPMENT (MAGGNET 0-10000 V, PRESSURE TEST, D.C CLAMP METERS... ETC)           | ITEM | 10  | "                                                             |
| 08-06-00-166 | STEAM BOILER MOBILE (25 LT/MIN. , TEMP. 150 C , PRESSURE 160 BAR)                                    | NOS. | 6   | "                                                             |
| 08-06-00-167 | EQUIPMENT FOR CABLE AND OVER HEAD LINES CONSTRUCTION                                                 | NOS. | 20  | "                                                             |
| 08-06-00-168 | HYDRAULIC BENDING MACHINE FOR CARBON STEEL A53 PIPE UP TO 6"                                         | NOS. | 1   | "                                                             |
| 08-06-00-169 | SET OF PNEUMATIC TOOLS                                                                               | SET  | 1   | "                                                             |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: WORKSHOPS**  
**B-MECHANICAL**

| CODE         | ITEM DESCRIPTION                                                                                                                    | UNIT     | QTY | COMMENT                         |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|-----|---------------------------------|
| 08-06-00-170 | HOT TAPPING MACHINE                                                                                                                 | NOS.     | 2   | Mechanical spares for workshops |
| 08-06-00-171 | PIPE CUTTER DIFFERENT SIZE (PNEUMATIC)TYPE SIZE 24" - 32 " & 40" - 46 "                                                             | NOS.     | 4   | "                               |
| 08-06-00-172 | PIPE CUTTER DIFFERENT SIZE (MANUAL) SIZE UP TO 20 "                                                                                 | SET      | 5   | "                               |
| 08-06-00-173 | LATHE MACHINE                                                                                                                       | NOS.     | 4   | "                               |
| 08-06-00-174 | MILLING MACHINE                                                                                                                     | NOS.     | 1   | "                               |
| 08-06-00-175 | SHEARING MACHINE                                                                                                                    | NOS.     | 1   | "                               |
| 08-06-00-176 | FLANGE SPREADER<br>FOR FLANGE SIZE ABOVE 10 " AND DIFF. CLASS                                                                       | NOS.     | 4   | "                               |
| 08-06-00-177 | HYDRAULIC PULLER WITH ACC. 50 TON                                                                                                   | NOS.     | 4   | "                               |
| 08-06-00-178 | TUBE EXPANDED DIFFERENT SIZE(PNEUMATIC)<br>FOR EXPANDED HEATER TUBE AND BOILER TUBE AT OLD<br>AND NEW PROCESS PLANT SIZE 3 " TO 6 " | SET      | 4   | "                               |
| 08-06-00-179 | TUBE EXTRACTOR FOR HEAT EXCHANGER UP TO 1.5 "<br>( PNEUMATIC )                                                                      | SET      | 4   | "                               |
| 08-06-00-180 | GROOVING TOOL SET FOR HEAT EXCHANGER SEATS SIZE<br>UP TO 1.5 "                                                                      | NOS.     | 3   | "                               |
| 08-06-00-181 | DRILLING BITS BIG SIZES FROM 1 " - 4 " FOR MECHANICAL<br>WORKSHOP                                                                   | NOS.     | 6   | "                               |
| 08-06-00-182 | CYLINDER BLOCK REAMING MACHINE (ELEC.) WITH ALL<br>ACCESSORIES & SPARES                                                             | SET      | 2   | "                               |
| 08-06-00-183 | VALVE CUTTER (ELEC.) WITH ACCESSORIES & SPARES                                                                                      | SET      | 1   | "                               |
| 08-06-00-184 | VALVE GRINDER( ELEC.) WITH ACCESSORIES & SPARES                                                                                     | SET      | 1   | "                               |
| 08-06-00-185 | SPECIAL HYDRAULIC PULLERS WITH (ACC.) FOR<br>THERMODYN GAS COMP. ( KHABAZ TO REMOVE THE<br>COMPRESSOR HUBS                          | SET      | 4   | "                               |
| 08-06-00-186 | COMPLETION OF SOLAR GAS TURBINE WORKSHOP<br>(SERVICE & SUPPLY CONTRACT)                                                             | CONTRACT | 1   | "                               |
| 08-06-00-187 | VIBRATION ANALYZER FOR ROTATING MACHINES                                                                                            | NOS.     | 1   | "                               |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: WORKSHOPS**  
**C-INSTRUMENTS**

| CODE                             | ITEM DESCRIPTION                                                                                      | UNIT | QTY | COMMENT                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------|------|-----|---------------------------|
| 08-06-00-188                     | INSTRUMENT TEST EQUIPMENT (DIGITAL HAND TEST) PUMPS (30 NOS.) , CURRENT & VOLTAGE GENERATOR (10 NOS.) | NOS. | 40  | Electrical test equipment |
| <b>D-MECHANICAL + ELECTRICAL</b> |                                                                                                       |      |     |                           |
| 08-06-00-189                     | WORKSHOP RAW MATERIAL ( OIL,BRONZE ,BRASS, BARS ...ETC).                                              | NOS. | 200 | Materials for workshop    |

**LOCATION: ZAB AREA**  
**SPARES FOR WATER INJECTION**  
**& PUMPING STATION**

| CODE         | ITEM DESCRIPTION                                                                         | UNIT | QTY | COMMENT                                              |
|--------------|------------------------------------------------------------------------------------------|------|-----|------------------------------------------------------|
| 08-06-00-190 | REPLACEMENT OF COMPLETE ACTUATORS (20 NOS.) & ONE LOT OF SPARE PARTS FOR OTHER ACTUATORS | LOT  | 2   | Replacement parts for water injection station at ZAB |
| 08-06-00-191 | CLORINATOR                                                                               | NOS. | 14  | "                                                    |

**LOCATION: POWER HOUSE**  
**REPAIR OF ROTATING EXCITER (ELECTRICAL)**

| CODE         | ITEM DESCRIPTION                                                            | UNIT     | QTY | COMMENT                                        |
|--------------|-----------------------------------------------------------------------------|----------|-----|------------------------------------------------|
| 08-06-00-192 | REPAIR OF 18 MW , 11 KV ROTATING EXCITER FOR POWER HOUSE (SERVICE CONTRACT) | CONTRACT | 1   | Contract for repair to power station equipment |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: ALL AREAS**  
**A-ELECTRICAL MATERIALS**

| CODE         | ITEM DESCRIPTION                                                                                                                                                     | UNIT | QTY  | COMMENT                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--------------------------------------------------------------|
| 08-06-00-193 | REPLACEMENT OF FAULTY ELECTRICAL PROTECTION SYSTEM AT JABAL BAUR SUBSTATION                                                                                          | SET  | 1    | Replacement and spares for electrical items in all NOC areas |
| 08-06-00-194 | REPLACEMENT OF FAULTY & DAMAGED ELECTRICAL PROTECTION SYSTEM IN DIFFERENT ELECTRICAL SUBSTATION                                                                      | SET  | 40   | "                                                            |
| 08-06-00-195 | REPLACEMENT OF NIDCD BATTERIES IN DIFFERENT LOCATION & SUBSTATION (BABA & ARAPHA & K1 SUB-LOOP, DEGASSING SUBSTATION & GAS COMP. STN, PUMPING K.K., K3 STN).         | SET  | 10   | "                                                            |
| 08-06-00-196 | REPLACEMENT OF DAMAGED & OBSOLETE CHARGERS & U.P.S. SYSTEM IN SUBSTATIONS (BABA & ARAPHA & K1 SUB-LOOP, DEGASSING SUBSTATION & GAS COMP. STN, PUMPING K.K., K3 STN). | SET  | 50   | "                                                            |
| 08-06-00-197 | H.T. & L.T. POWER CABLES FOR REPAIR OF ELECTRICAL NETWORK                                                                                                            | KM   | 60   | "                                                            |
| 08-06-00-198 | ALUMINUM STRANDED CONDUCTORS STEEL REINFORCED (ACSR) CONDUCTORS (FOR THE MAINTENANCE AND REPLACEMENT FOR NOC OVERHEAD LINE NET WORK).                                | KM   | 60   | "                                                            |
| 08-06-00-199 | TERMINATION KITS & JOINTS (FOR THE MAINTENANCE & REPL. FOR NOC OVERHEAD LINE & CABLE NET WORK).                                                                      | NOS. | 3000 | "                                                            |
| 08-06-00-200 | HIGH POWER (2000 W) LIGHTING FITTING COMPLETE WITH LAMPS                                                                                                             | NOS. | 150  | "                                                            |
| 08-06-00-201 | SODIUM & MERCURY LAMPS.                                                                                                                                              | NOS. | 8000 | "                                                            |
| 08-06-00-202 | CONTACTORS & THERMAL OVER LOAD & TIMERS & AUX'S                                                                                                                      | NOS. | 200  | "                                                            |
| 08-06-00-203 | PIN INSULATOR 33 KV COMPLETE WITH SPINDLE                                                                                                                            | NOS. | 200  | "                                                            |
| 08-06-00-204 | 33 KV OUT DOOR LINE ISOLATER                                                                                                                                         | NOS. | 6    | "                                                            |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: ALL NOC AREAS**  
**B-PLANT SURVEY EQUIPMENT**

| CODE         | ITEM DESCRIPTION                                                                                                                                      | UNIT                         | QTY               | COMMENT               |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|-----------------------|
| 08-06-00-205 | DENSITOMETER                                                                                                                                          | NOS.                         | 1                 | NDT testing equipment |
| 08-06-00-206 | POCKET RATEMETER                                                                                                                                      | NOS.                         | 6                 | "                     |
| 08-06-00-207 | STANDARD FILM                                                                                                                                         | SET                          | 2                 | "                     |
| 08-06-00-208 | INFRARED THERMOMETER                                                                                                                                  | NOS.                         | 1                 | "                     |
| 08-06-00-209 | INFRARED IMAGE CAMERA                                                                                                                                 | NOS.                         | 1                 | "                     |
| 08-06-00-210 | POCKET RADIATION MONITOR                                                                                                                              | NOS.                         | 2                 | "                     |
| 08-06-00-211 | SPARE FOR KRAUTKRAMER EQUIPMENT<br>1st- DM2 ULTRA SONC THICKNESS METER<br>2nd-DM3 ULTRA SONC THICKNESS METER<br>3rd- USK 7D FLOW DETECTOR             | NOS.<br>NOS.<br>NOS.<br>TUBE | 4<br>6<br>11<br>4 | "                     |
| 08-06-00-212 | - CATHODIC PROTECTION MONITORING SET / INCLUDING<br>PC+NOTEBOOK+PRINTER+PLOTTER+SOFTWARE+ALL<br>ACCESSORIES<br>- CURRENT INTERRUPTER+ ALL ACCESSORIES | SET                          | 2                 | "                     |
| 08-06-00-213 | THICKNESS METER ULTRASONIC                                                                                                                            | SET                          | 2                 | "                     |
| 08-06-00-214 | DYE PENITRANT (FLOURESCENT) FOR CRACK DETECTION                                                                                                       | NOS.                         | 2                 | "                     |
| 08-06-00-215 | MAGNETIC PARTICLE (FLOURESCENT) FLUID FOR CRACK<br>DETECACTION                                                                                        | CAN                          | 24                | "                     |
| 08-06-00-216 | SPARES FOR VACUUM TESTING SET (VACUUM BOX WITH<br>CONNECTING HOSE FOR OIL TANK WELDING TESTING).                                                      | CAN                          | 24                | "                     |
| 08-06-00-217 | X - RAY UNIT ( MOBILE ) (PEAK HI VOLTAGE 200 KV ,<br>NOMINAL TUBE CURRENT 5/8 MA , BEAM ANGLE 60 .                                                    | NOS.                         | 1                 | "                     |
|              |                                                                                                                                                       | SET                          | 1                 | "                     |

**MINISTRY OF OIL**

**ESTABLISHMENT NAME: NORTH OIL COMPANY**

**LOCATION: IRAQI - TURKISH PIPE LINE**

| CODE         | ITEM DESCRIPTION                                                       | UNIT | QTY | COMMENT                                                                        |
|--------------|------------------------------------------------------------------------|------|-----|--------------------------------------------------------------------------------|
| 08-06-00-218 | SPARE PARTS FOR IT1A & IT2A ELECTRICAL SWITCH GEAR (ELECTRICAL)        | NOS. | 200 | Electrical spare parts for ITP pipeline pumping stations                       |
| 08-06-00-219 | INTELLIGENT PIGGING OF THE 32" PIPE LINE WITH PIG LAUNCHER & RECEIVERS | LOT  | 1   | Re-application for intelligent pigging contract for 32" line from K1 to ITP/K3 |
| 08-06-00-220 | PLIDCO SLEEVES FOR P/L REPAIRS 32" & 40"                               | NOS. | 8   | Electrical spare parts                                                         |
| 08-06-00-221 | AIR BLOWER 100M3 & ELECTRIC HUMIDIFIER FOR K3 STATION                  | NOS. | 4   | Electrical spare parts                                                         |

**LOCATION: K2W & K3 PUMPING STATIONS**

| CODE         | ITEM DESCRIPTION                                                                                                         | UNIT | QTY | COMMENT                                                     |
|--------------|--------------------------------------------------------------------------------------------------------------------------|------|-----|-------------------------------------------------------------|
| 08-06-00-222 | ELECTRICAL SPARE PARTS FOR RUSTON TURBINE AT K2W & K3 PUMPING STN.                                                       | NOS. | 50  | Replacements and spare parts for K2 and K3 pumping stations |
| 08-06-00-223 | REPLACEMENT OF EXISTING OBSOLETE CONTROL SYSTEM GAS TURBINE CONTROL PANEL OF SULZER TURBINE                              | SET  | 3   | "                                                           |
| 08-06-00-224 | REPAIR OF HIGH & LOW PRESSURE ROTOR FOR SULZER GAS TURBINE (MECHANICAL) SERVICE CONTRACT IN SPECIALIZED WORKSHOP ABROAD. | SET  | 2   | "                                                           |
| 08-06-00-225 | REPAIR OF CHARGING TURBINE ROTOR GEC TURBINE (MECHANICAL) (SERVICE CONTRACT IN SPECIALIZED WORKSHOP ABROAD)              | SET  | 1   | "                                                           |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: KIRKUK, JAMBUR, BAI HASSAN, SUFAYA & IT2 AREAS**  
**REPLACEMENT OF DAMAGED COMMUNICATION(EQUIPMENT & EXCHANGE)**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                                  | UNIT | QTY | COMMENT                                                                            |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------------------------------------------------------------------------------|
| 08-06-00-226 | ONE DIGITAL PABX FOR CONNECTION WITH PTT (CITY) EXCHANGE WITH ALL ACCESSORIES & SPARES TO BE USED IN BABA TELECOM CENTER                                                                          | SET  | 1   | General communications equipment for control of production and export of crude oil |
| 08-06-00-227 | TWO ELECTRONIC PABX WITH ALL ACCESSORIES: ONE FOR AIN-ZALAH & ONE FOR JUMBUR SOUTH, WITH 200 EXTENSION LINES & 36 EXTERNAL LINES, WITH SPARES & ACCESSORIES.                                      | SET  | 2   | "                                                                                  |
| 08-06-00-228 | 5 DIGITAL RADIO LINKS, 2.6 GHZ BAND<br>-BAI HASSAN SOUTH - BAI HASSAN DAWOOD.<br>-BAI HASSAN SOUTH - BAI HASSAN NORTH.<br>-BABA - JAMBUR NORTH<br>-BABA - JAMBUR SOUTH<br>-ZAB - BAI HASSAN SOUTH | LINK | 5   | "                                                                                  |
| 08-06-00-229 | (2-4) CHANNEL UHF RADIO LINK & ACCESSORIES FOR DRILLING LOCATIONS.                                                                                                                                | LINK | 10  | "                                                                                  |
| 08-06-00-230 | FOUR DIGITAL RADIO LINKS 2.6 /1.5 GHZ WITH SPARES<br>- JAMBUR SOUTH - ENJANA<br>- ENJANA - DAROSHKA<br>- DAROSHKA - NAFTKHANA<br>- JAMBUR SOUTH - ANFAL                                           | LINK | 4   | "                                                                                  |

**MINISTRY OF OIL  
ESTABLISHMENT NAME: NORTH OIL COMPANY  
LOCATION: BABA & ARAPHA AREAS  
MECHANICAL EQUIPMENT & SPARES**

| CODE         | ITEM DESCRIPTION                                                                            | UNIT | QTY | COMMENT                                                                                            |
|--------------|---------------------------------------------------------------------------------------------|------|-----|----------------------------------------------------------------------------------------------------|
| 08-06-00-231 | REPLACEMENT OF INDUSTRIAL AIR CONDITIONING CENTRAL PLANTS                                   |      |     |                                                                                                    |
|              | A- NOC. HOSPITAL AT K1                                                                      | UNIT | 2   | Industrial air conditioning spare parts and replacements for plant and hospital in production area |
|              | B - BABA PLANT INDUSTRIAL AREA                                                              | UNIT | 2   |                                                                                                    |
|              | C - PROCESS PLANT CONTROL ROOM & SUBSTATION                                                 | UNIT | 2   |                                                                                                    |
|              | D - ARAPHA PLANT                                                                            | UNIT | 1   |                                                                                                    |
| 08-06-00-232 | E - BABA PLANT LOW AND HIGH LIFT PUMP WITH RECOMMENDED SPARE PARTS                          | UNIT | 2   | Pump for control of drainage                                                                       |
|              |                                                                                             | SET  | 12  |                                                                                                    |
| 08-06-00-233 | SPARE FOR DIESEL ENGINES FOR MAINTENANCE OF CATERPILLER DIESEL ENG., ROLLS ROYCE & DETROIT. | ITEM | 20  | General maintenance requirement                                                                    |

**LOCATION: K1 AREA  
ACTIVITY NO.(08):K1 TANK FARM REHABILITATION**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                                                                       | UNIT   | QTY | COMMENT                                  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|------------------------------------------|
| 08-06-08-234 | K1 TANK FARM REHABILITATION( REPLACING 175 VALVE ACTUATORS & SWITCH BOARD, UP TO DATE DCS CONTROL SYSTEM, CRUDE OIL METERING , TANK GAUGING, INSTRUMENT CABLES , PRESSURE & TEMP. TRANSMITTER, PRESSURE/TEMPERATURE SWITCHES & GAUGES) | SYSTEM | 1   | Control equipment to increase efficiency |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH OIL COMPANY**  
**LOCATION: AIN ZALA FIELD**

| CODE         | ITEM DESCRIPTION                                                                                    | UNIT | QTY | COMMENT                 |
|--------------|-----------------------------------------------------------------------------------------------------|------|-----|-------------------------|
| 08-06-00-235 | GENERATOR SET 3.3 KV 2 X 2 MW (CRUDE OIL ENGINE WITH ALL ACC. , SWITCHGEAR & MODERN CONTROL SYSTEM) | SET  | 2   | Complete generation set |

**LOCATION: SADDAM FIELD**  
**ACTIVITY NO.(09): COMPLETION / REHABILITATION**  
**FOR SADDAM OIL FIELD**

| CODE         | ITEM DESCRIPTION                        | UNIT | QTY  | COMMENT                                                                                                                                            |
|--------------|-----------------------------------------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 08-06-09-236 | MOTOR / PUMP SETS, DIFFERENT CAPACITIES | NOS. | 40   | Complete project to rehabilitate Saddam Oil Field to produce 45,000 bpd crude for export. ALL ITEMS REQUIRED SIMULTANEOUSLY FOR PROJECT COMPLETION |
| 08-06-09-237 | TANKS, CAPACITIES (50-2000) LITRES      | NOS. | 4    | "                                                                                                                                                  |
| 08-06-09-238 | SAFETY VALVES                           | NOS. | 26   | "                                                                                                                                                  |
| 08-06-09-239 | PROGRAMMABLE CONTROL SYSTEM             | NOS. | 1    | "                                                                                                                                                  |
| 08-06-09-240 | LEAD TUBES                              | MTR. | 3500 | "                                                                                                                                                  |
| 08-06-09-241 | FIELD INSTRUMENTS( VARIOUS)             | ITEM | 7000 | "                                                                                                                                                  |

**LOCATION: BABA & ARAPHA AREA**  
**GENERAL**

| CODE         | ITEM DESCRIPTION                                                                                                             | UNIT | QTY | COMMENT                                                                                           |
|--------------|------------------------------------------------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------------------------------------------------|
| 08-06-00-242 | MEDICAL EQUIPMENT FOR NOC HOSPITAL                                                                                           | SET  | 18  | Medical requirements for NOC hospital including ECG, Endoscopy, Laparoscopy, X-ray equipment etc. |
| 08-06-00-243 | ARCHIVING SYSTEM COMPLETE WITH A SMALL LAN, ARABIZED SOFTWARE, A0+A3 SCANNERS, A0 PLOTTER, CD R/W ,CD-ROM & ALL ACCESSORIES. | SET  | 2   | Design office software                                                                            |

MINISTRY OF OIL  
ESTABLISHMENT NAME: SOUTH OIL COMPANY

LOCATION: ALL FIELDS

ACTIVITY NO. (10) :DRILLING , COMPLETION

AND WORKOVER OPERATIONS

| CODE         | ITEM DESCRIPTION                                                                                      | UNIT  | QTY    | COMMENT                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------|-------|--------|--------------------------------------------------------------------------------------------------------------------------|
| 08-06-10-244 | - CASING & TUBING                                                                                     | MTR.  | 120000 | Complete project for completion of 25 wells including equipment for logging, perforation charges, and relevant contracts |
| 08-06-10-245 | - DRILLING BITS                                                                                       | NOS.  | 250    | "                                                                                                                        |
| 08-06-10-246 | - FISHING TOOLS                                                                                       | ITEM  | 150    | "                                                                                                                        |
| 08-06-10-247 | - CASING ACCESSORIES                                                                                  | NOS.  | 1500   | "                                                                                                                        |
| 08-06-10-248 | - CHEMICALS FOR DRILLING & COMPLETION FLUIDS                                                          | TON   | 15000  | "                                                                                                                        |
| 08-06-10-249 | - HYDROCHLORIC ACID & CHEMICAL ADDITIVES FOR ACID                                                     | TON   | 1150   | "                                                                                                                        |
| 08-06-10-250 | - OIL WELL CEMENT & CHEMICAL ADDITIVES                                                                | TON   | 1500   | "                                                                                                                        |
| 08-06-10-251 | - PUMPING TRUCK FOR CEMENTING & ACIDIZING WITH SPARES & ACCESSORIES, EACH SET CONSIST OF (100) ITEMS. | SET   | 4      | "                                                                                                                        |
| 08-06-10-252 | - ELECTRICAL SUBMERSIBLE PUMPS WITH RECOMMENDED SPARES & ACCESSORIES                                  | SET   | 50     | "                                                                                                                        |
| 08-06-10-253 | - ACID STORAGE PLANT WITH ALL ACCESSORIES CONSISTING OF (100) ITEMS.                                  | PLANT | 1      | "                                                                                                                        |
| 08-06-10-254 | - MUD LOGGING UNIT WITH ACCESSORIES (10 FOR EACH UNIT)                                                | SET   | 2      | "                                                                                                                        |
| 08-06-10-255 | - GEOLOGICAL EQUIPMENT WITH SPARE PARTS & SOFTWARE                                                    | ITEM  | 500    | "                                                                                                                        |
| 08-06-10-256 | - MOBILE WELL TESTING UNITS & ACCESSORIES (10 ITEMS FOR EACH SET)                                     | SET   | 2      | "                                                                                                                        |
| 08-06-10-257 | - EQUIPMENT FOR CENTRAL LABORATORY & ACCESSORIES                                                      | NOS.  | 1000   | "                                                                                                                        |
| 08-06-10-258 | - MEMORY PRESSURE RECORDERS & ACCESSORIES (10 FOR EACH RECORDER)                                      | ITEM  | 5      | "                                                                                                                        |
| 08-06-10-259 | - MAST-TRUCK WITH SPARES & ACCESSORIES (10 FOR EACH MAST TRUCK)                                       | NOS.  | 4      | "                                                                                                                        |
| 08-06-10-260 | - DRILLING FLUID TANKER WITH TRACTOR & SPARES                                                         | NOS.  | 6      | "                                                                                                                        |
| 08-06-10-261 | - WELLHEADS AND X-MAS TREES                                                                           | SET   | 10     | "                                                                                                                        |
| 08-06-10-262 | - CEMENTING HEAD WITH ACCESSORIES                                                                     | ITEM  | 50     | "                                                                                                                        |

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**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: ALL FIELDS**  
**ACTIVITY NO. (10) :DRILLING , COMPLETION**  
**AND WORKOVER OPERATIONS**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                             | UNIT     | QTY   | COMMENT |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------|
| 08-06-10-263 | - PERFORATION CHARGES                                                                                                                                                                        | NOS.     | 50000 | "       |
| 08-06-10-264 | - PRIMCORD                                                                                                                                                                                   | MTR.     | 1000  | "       |
| 08-06-10-265 | - PERFORATION ACCESSORIES                                                                                                                                                                    | ITEM     | 60    | "       |
| 08-06-10-266 | - DATA-BASE SOFTWARE                                                                                                                                                                         | ITEM     | 20    | "       |
| 08-06-10-267 | - OPEN-HOLE LOGGING SERVICE CONTRACT                                                                                                                                                         | CONTRACT | 1     | "       |
| 08-06-10-268 | - PRODUCTION LOGGING & PERFORATION SERVICE CONTRACT                                                                                                                                          | CONTRACT | 1     | "       |
| 08-06-10-269 | - COILED TUBING SERVICE CONTRACT WITH MATERIALS                                                                                                                                              | CONTRACT | 1     | "       |
| 08-06-10-270 | - MAINTENANCE CONTRACT FOR ELECTRICAL SUBMERSIBLE PUMPS                                                                                                                                      | CONTRACT | 1     | "       |
| 08-06-10-271 | - RE-ENTRY DRILLING TO IMPROVE WELL PRODUCTIVITY (SERVICE CONTRACT)                                                                                                                          | CONTRACT | 1     | "       |
| 08-06-10-272 | - PREPARATION OF WATER INJECTION WELLS WITH MATERIALS NEEDED (SERVICE CONTRACT)                                                                                                              | WELLS    | 50    | "       |
| 08-06-10-273 | - SEALING MATERIALS FOR OIL WELL TREATMENT                                                                                                                                                   | TON      | 500   | "       |
| 08-06-10-274 | - FILTRATION MOBILE UNIT FOR WATER INJECTION WITH FILTRATION CARTRIDGES & RECOMMENDED SPARES & ACCESSORIES                                                                                   | SET      | 2     | "       |
| 08-06-10-275 | - WIRELINE TOOLS, CALIBRATION INSTRUMENTS, DEAD WEIGHT TESTERS                                                                                                                               | ITEM     | 250   | "       |
| 08-06-10-276 | - DRILLING SERVICES CONTRACTS / CONTRACTOR WILL BE RESPONSIBLE FOR DRILLING THE WELLS EXCEPT MATERIALS WHICH WILL BE PROVIDED BY SOC CONTRACT WILL BE ADMINISTERED BY IRAQI DRILLING COMPANY | ITEM     | 25    | "       |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: ALL FIELDS**  
**CHEMICALS & SPARE PARTS**  
**FOR MAINTAINING OPERATIONS**

| CODE         | ITEM DESCRIPTION                            | UNIT | QTY | COMMENT                     |
|--------------|---------------------------------------------|------|-----|-----------------------------|
| 08-06-00-277 | - CHEMICALS FOR LABORATORY ANALYSIS         | ITEM | 200 | General analytical reagents |
| 08-06-00-278 | - SPARE PARTS FOR LABORATORY APPARATUS      | ITEM | 250 | Crude Oil and water testing |
| 08-06-00-279 | - SPARE PARTS FOR DRILL STEM TEST EQUIPMENT | ITEM | 200 | Repair and maintenance      |
| 08-06-00-280 | - SPARE PARTS FOR LOGGING TRUCKS & TOOLS    | ITEM | 250 | "                           |
| 08-06-00-281 | - SPARE PARTS FOR SUBMERSIBLE PUMPS         | ITEM | 50  | "                           |
| 08-06-00-282 | - SPARE PARTS FOR TEST SEPARATOR            | ITEM | 50  | "                           |
| 08-06-00-283 | - SPARE PARTS FOR CHEMICAL FIELD LAB.       | ITEM | 50  | "                           |
| 08-06-00-284 | - PRESSURE GAUGES                           | ITEM | 500 | "                           |
| 08-06-00-285 | - SPARE PARTS FOR WIRELINE TRUCK            | ITEM | 100 | "                           |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: WEST QURNA .**  
**ACTIVITY NO. (11) :DEVELOPMENT OF DG6 / WEST**  
**QURNA OIL FIELD**

| CODE         | ITEM DESCRIPTION                                                                                                                                | UNIT  | QTY | COMMENT                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-------------------------------------------------------------|
| 08-06-11-286 | - WELLS COMPLETION AND PERFORATION (SERVICE CONTRACT) EACH CONTRACT CONSISTS OF SERVICES & SUPPLY OF MATERIALS.                                 | WELLS | 100 | Complete project to drill, perforate and complete 100 wells |
| 08-06-11-287 | - FLOW LINES AND TRANSFER PIPES (VARIOUS SIZES)                                                                                                 | KM    | 500 | "                                                           |
| 08-06-11-288 | - VALVES, FITTINGS AND PIPE ACCESSORIES EACH SET CONSISTS OF 50 ITEMS.                                                                          | SET   | 40  | "                                                           |
| 08-06-11-289 | - FIELD OIL WELL PRODUCTION MANIFOLDS EACH PURCHASE CONSISTS OF 25 ITEM (EACH MANIFOLD SUITABLE FOR 25 WELLS)                                   | SET   | 20  | "                                                           |
| 08-06-11-290 | - PRODUCTION BANK 80000 BPD COMPLETE WITH ALL COMPLEMENTARY SYSTEMS AND STATION MANIFOLDS AND FLARE STACKS EACH PURCHASE CONSISTS OF 50 ITEM    | SET   | 15  | "                                                           |
| 08-06-11-291 | - TEST BANKS WITH FLOW METERS AND TEST TANKS . EACH SET CONSISTS OF 50 ITEMS.                                                                   | SET   | 6   | "                                                           |
| 08-06-11-292 | - CRUDE OIL PUMPING AND BOOSTER UNITS EACH PURCHASE CONSISTS OF 50 ITEM.                                                                        | SET   | 6   | "                                                           |
| 08-06-11-293 | - POWER SUPPLY AND DISTRIBUTION SYSTEM EACH SET CONSISTS OF 40 ITEMS.                                                                           | SET   | 10  | "                                                           |
| 08-06-11-294 | - EMERGENCY GENERATION SET                                                                                                                      | NOS.  | 6   | "                                                           |
| 08-06-11-295 | - UTILITIES ( FIREFIGHTING , COMPRESSED AIR , INDUSTRIAL WATER,TELECOM, CIVIL WORKS ..... ETC.) HANDLING EQUIPS. EACH SET CONSISTS OF 40 ITEMS. | SET   | 50  | "                                                           |
| 08-06-11-296 | -WELDING MACHINES                                                                                                                               | NOS.  | 10  | "                                                           |
| 08-06-11-297 | -WELDING RODS                                                                                                                                   | TON   | 20  | "                                                           |
| 08-06-11-298 | -GRINDING WHEELS                                                                                                                                | NOS.  | 200 | "                                                           |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: WEST QURNA**  
**ACTIVITY NO.(12) :DEVELOPMENT OF DG7 & DG8**  
**PHASE (1) / WEST QURNA OIL FIELD**

| CODE         | ITEM DESCRIPTION                                                                            | UNIT | QTY | COMMENT                                                       |
|--------------|---------------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------------|
| 08-06-12-299 | - WELL COMPLETION AND PERFORATION EACH SET<br>CONSISTS OF (10) ITEM MATERIALS FOR 40 WELLS. | SET  | 40  | Complete project to drill, perforate and<br>complete 40 wells |
| 08-06-12-300 | - FIELD OIL WELL PRODUCTION MANIFOLDS EACH SET<br>CONSISTS OF (25) ITEMS.                   | SET  | 12  | "                                                             |
| 08-06-12-301 | - PIPING , FITTING AND VALVES EACH SET CONSISTS<br>OF (100) ITEMS .                         | SET  | 10  | "                                                             |
| 08-06-12-302 | - POWER SUPPLY AND DISTRIBUTION                                                             | SET  | 40  | "                                                             |
| 08-06-12-303 | - FIRE FIGHTING SYSTEM AUXILIARIES                                                          | SET  | 40  | "                                                             |
| 08-06-12-304 | - EMERGENCY GENERATION SET                                                                  | SET  | 12  | "                                                             |
| 08-06-12-305 | - INSTRUMENT AND CONTROL PACKAGES                                                           | SET  | 80  | "                                                             |
| 08-06-12-306 | - CRUDE OIL PUMPING UNITS AND ACCESSORIES                                                   | SET  | 20  | "                                                             |
| 08-06-12-307 | - CATHODIC PROTECTION                                                                       | SET  | 20  | "                                                             |
| 08-06-12-308 | - UTILITIES AND HANDLING EQUIPMENT                                                          | SET  | 80  | "                                                             |
| 08-06-12-309 | - WELDING MACHINES                                                                          | NOS. | 10  | "                                                             |
| 08-06-12-310 | - WELDING RODS                                                                              | TON  | 20  | "                                                             |
| 08-06-12-311 | - GRINDING WHEELS                                                                           | NOS. | 200 | "                                                             |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: NORTH RUMAILA FIELD .**  
**ACTIVITY NO. (13) : DEVELOPMENT OF NORTH**  
**RUMAILA OIL FIELD .**

| CODE         | ITEM DESCRIPTION                                                                                                                                              | UNIT  | QTY | COMMENT                                                    |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|------------------------------------------------------------|
| 08-06-13-312 | - PRODUCTION WELLS COMPLETION AND PERFORATION SERVICE CONTRACT EACH SET CONSISTS OF ( 10 ) ITEMS FOR 80 WELLS                                                 | WELL  | 80  | Complete project to drill, perforate and complete 80 wells |
| 08-06-13-313 | - INJECTION WELLS COMPLETION AND PERFORATION EACH SET CONSISTS OF (10) ITEM MATERIALS (60) WELLS                                                              | SET   | 60  | "                                                          |
| 08-06-13-314 | - FLOW LINES                                                                                                                                                  | KM    | 300 | "                                                          |
| 08-06-13-315 | - VALVES, FITTING AND PIPELINE ACCESSORIES EACH SET CONSISTS OF ( 100 ) ITEMS .                                                                               | SET   | 20  | "                                                          |
| 08-06-13-316 | - FIELD AND STATION MANIFOLDS (EACH MANIFOLD SUITABLE FOR 25 WELLS)                                                                                           | SET   | 30  | "                                                          |
| 08-06-13-317 | - WATER INJECTION PUMP/IG UNITS EACH SET CONSISTS OF ( 50 ) ITEMS .                                                                                           | SET   | 10  | "                                                          |
| 08-06-13-318 | - WATER INJECTION INTAKE , TREATMENT AND PUMPING PLANT AT NORTH RUMAILA CAPACITY OF 35X10 <sup>6</sup> CU METER PER YEAR THE PLANT CONSISTS OF ( 100 ) ITEMS. | PLANT | 1   | "                                                          |
| 08-06-13-319 | -WELDING MACHINES                                                                                                                                             | NOS.  | 10  | "                                                          |
| 08-06-13-320 | -WELDING RODS                                                                                                                                                 | TON   | 20  | "                                                          |
| 08-06-13-321 | -GRINDING WHEELS                                                                                                                                              | NOS.  | 200 | "                                                          |

**MINISTRY OF OIL**

**ESTABLISHMENT NAME: SOUTH OIL COMPANY**

**LOCATION: FAO TANK FARM**

**ACTIVITY NO. (14): REHABILITATION OF FAO TANK FARM.**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT    | QTY | COMMENT                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|---------------------------------------------------------------------------------------|
| 08-06-14-322 | <ul style="list-style-type: none"> <li>- ALL MATERIALS, EQUIPMENT &amp; ACCESSORIES REQUIRED TO CONSTRUCT 8 FLOATING ROOF TANKS, 58000 CU METER EACH AND SUPPORTING SYSTEM INCLUDING:-</li> <li>- PRESSURE REDUCTION STATION</li> <li>- SURGE SYSTEM</li> <li>- INTERNAL PIPING WITH VALVES, FITTINGS ACCESSORIES AND CONSUMABLES</li> <li>- MAIN CRUDE OIL TRANSFER PUMPS AND BOOSTER PUMPS WITH ACCESSORIES.</li> <li>- POWER SUPPLY AND ELECTRIC DISTRIB SYSTEM.</li> <li>- EMERGENCY GENERATING SETS 8MW , WITH SUPPLEMENTARY SYSTEM.</li> <li>- FIRE FIGHTING AND INDUSTRIAL WATER SYST.</li> <li>- STATION CONTROL</li> <li>- UTILITIES, TELECOM, CATHODIC PROTECT ... ETC.</li> </ul> | PROJECT | 1   | Complete project to erect 8 floating roof storage tanks, with all ancillary equipment |

**LOCATION: SOUTH AND NORTH RUMAILA**

**AND ZUBAIR FIELD & GARMAT ALI**

**ACTIVITY NO. (15): UPGRADEING OF INDUSTRIAL WATER SYSTEM**

| CODE         | ITEM DESCRIPTION                                                                                                                                    | UNIT | QTY | COMMENT                                                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|--------------------------------------------------------------------------------------------------------------|
|              | - INDUSTRIAL WATER FACILITIES FOR THE UPGRADING OF EXISTING SYSTEM TO MEET DEMAND FOR DESALTING & DEHYDRATION , FIRE FIGHTING AND DOMESTIC PURPOSES |      |     | Complete contract to upgrade the industrial water system for N & S Rumailah, Zubair & Garmat Ali field areas |
| 08-06-15-323 | - FIRST LIFT & MAIN PUMPS AT GARMAT-ALI                                                                                                             | SET  | 4   | "                                                                                                            |
| 08-06-15-324 | - ACCESSORIES FOR PUMPS                                                                                                                             | SET  | 20  | "                                                                                                            |
| 08-06-15-325 | - PIPE LINES FOR DISTRIBUTION SYSTEM                                                                                                                | KM   | 50  | "                                                                                                            |
| 08-06-15-326 | - 12 STORAGE TANKS AND SYSTEMS                                                                                                                      | SET  | 12  | "                                                                                                            |
| 08-06-15-327 | - PUMP SET FOR DISTRIBUTION WITH MOTOR CONTROL CENTRES AND ACCESSORIES                                                                              | SET  | 40  | "                                                                                                            |

## MINISTRY OF OIL

## ESTABLISHMENT NAME: SOUTH OIL COMPANY

## LOCATION: SOUTH AND NORTH RUMAILA AND ZUBAIR FIELD.

| CODE         | ITEM DESCRIPTION                                                                                      | UNIT | QTY  | COMMENT                                    |
|--------------|-------------------------------------------------------------------------------------------------------|------|------|--------------------------------------------|
| 08-06-00-328 | - MATERIALS AND CONSUMABLES FOR RUMAILA - HADITHA PIPE LINE REFURBISHMENT                             | SET  | 100  | Line refurbishment to stabilize the system |
| 08-06-00-329 | - EXCESS OIL AND CONDENSATE GATHERING SYSTEMS IN SOUTH RUMAILA FIELD DEGASSING STATIONS               | SET  | 20   | Water injection parts and replacements     |
| 08-06-00-330 | - BAD OIL TANKS AND PUMPING FACILITIES FOR NORTH RUMAILA FIELD                                        | SET  | 18   | "                                          |
| 08-06-00-331 | - NEW TEST BANKS WITH FLOW METERS AND TEST TANKS IN SOUTH AND NORTH RUMAILA FIELD                     | SET  | 20   | "                                          |
| 08-06-00-332 | - EFFLUENT WATER TREATMENT FOR REINJECTION PURPOSES, MEASUREMENT AND TEST EQUIPMENTS AND REQUIREMENTS | SET  | 20   | "                                          |
| 08-06-00-333 | - DEHYDRATION AND DESALTING COMPLENTRY SYSTEM ( MECH., CONTROL., ELECT. AND PIPING )                  | SET  | 40   | "                                          |
| 08-06-00-334 | - FIRE FIGHTING VEHICLES WITH RECOMMENDED SPARES                                                      | NOS. | 2    | Safety item                                |
| 08-06-00-335 | - SAFETY EQUIPMENT & SPARES                                                                           | NOS. | 2000 | "                                          |
| 08-06-00-336 | - PERSONNEL'S SAFETY ACCESSORIES.                                                                     | SET  | 3000 | "                                          |
| 08-06-00-337 | - INSTRUMENTS FOR ENVIRONMENTAL PROTECTION                                                            | NOS. | 100  | "                                          |
| 08-06-00-338 | - LABORATORY DEVICES, ACC. & SPARES                                                                   | SET  | 500  | Environmental testing                      |

## LOCATION: ALL SITES

| CODE         | ITEM DESCRIPTION                                                                                             | UNIT | QTY | COMMENT                                      |
|--------------|--------------------------------------------------------------------------------------------------------------|------|-----|----------------------------------------------|
| 08-06-00-339 | - GENERAL EQUIPMENT FOR THE IMPLEMENTATION OF PROJECT AND STATIONS UPKEEP.                                   | ITEM | 50  | General equipment for operational activities |
| 08-06-00-340 | - SERVICE EQUIPMENT , GENERATORS , COMPRESSORS PUMPS ... ETC.                                                | NOS. | 60  | "                                            |
| 08-06-00-341 | - WORKSHOP EQUIPMENT                                                                                         | SET  | 10  | "                                            |
| 08-06-00-342 | - CONSTRUCTION EQUIPMENT, SIDEROOMS , DITCHERS , PIPELINE COATING AND WELDING MACHINE.                       | ITEM | 50  | "                                            |
| 08-06-00-343 | - SURVEY EQUIPMENT , MICROFILM EQUIPMENT, DATA ACQUISITION , RETRIEVAL AND ENGINEERING INSPECTION EQUIPMENT. | ITEM | 30  | "                                            |

# MINISTRY OF OIL

ESTABLISHMENT NAME: SOUTH OIL COMPANY

LOCATION: MESSAN FIELDS

DEGASSING STATIONS, OIL STORAGE DEPOTS, TANK  
FARMS & PUMPING STATIONS

| CODE         | ITEM DESCRIPTION                                          | UNIT | QTY  | COMMENT                      |
|--------------|-----------------------------------------------------------|------|------|------------------------------|
| 08-06-00-344 | - ONE COMPLETE TURBO PUMP WITH RECOMMENDED SPARES         | NOS. | 1    | Replacement of obsolete pump |
| 08-06-00-345 | - SPARES FOR PUMPS                                        | ITEM | 200  | Spare parts for above        |
| 08-06-00-346 | - OIL HEATERS WITH SPARE PIPES & ACCESSORIES              | SET  | 20   | Oil Heaters and spares       |
| 08-06-00-347 | - ELECTRICAL, MECHANICAL & INSTRUMENTATIONS SPARE PARTS   | ITEM | 300  | General spares for sites     |
| 08-06-00-348 | - PERSONNEL SAFETY EQUIPMENT                              | ITEM | 100  | Safety equipment             |
| 08-06-00-349 | - OIL GAS SEPARATOR SYSTEM WITH TANKS, PUMPS, ELECTRICAL. | ITEM | 1000 | Separator system             |
| 08-06-00-350 | - ROAD BORING MACHINE WITH RECOMMENDED SPARES             | NOS. | 50   | Road repairing units         |

LOCATION: DEEP SEA TERMINALS

| CODE         | ITEM DESCRIPTION                                                                                                       | UNIT | QTY | COMMENTS                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------|------|-----|--------------------------------------------------|
| 08-06-00-351 | - ELECTRICAL INSTALLATIONS: MCC, SWITCH GEAR, ACCESSORIES                                                              | ITEM | 220 | Repairing and upgrading of loading installations |
| 08-06-00-352 | - MECHANICAL EQUIPMENTS: PUMPS(40), VALVES, GENERATORS(4 SETS), ACC. TELESCOPIC GANGWAY COMPLETE WITH ALL ACCESSORIES. | ITEM | 140 | "                                                |
| 08-06-00-353 | - EQUIPMENT FOR REPAIR & COMPLETION OF EMCOWHEATON LOADING ARMS.                                                       | ITEM | 70  | "                                                |
| 08-06-00-354 | - CONTROL INSTRUMENTS                                                                                                  | ITEM | 60  | "                                                |
| 08-06-00-355 | - MISC. FITTINGS AND ACCESSORIES & FENDERS                                                                             | ITEM | 100 | "                                                |

**MINISTRY OF OIL**

**ESTABLISHMENT NAME: SOUTH OIL COMPANY**

**LOCATION: ALL SITES**

**SPECIALIZED TRUCKS, EQUIP., TOOLS & WORKSHOPS EQUIP.**

| CODE         | ITEM DESCRIPTION                                                                | UNIT | QTY | COMMENT                                                                 |
|--------------|---------------------------------------------------------------------------------|------|-----|-------------------------------------------------------------------------|
| 08-06-00-356 | - WATER TANKER CAP. 22 m <sup>3</sup> TRACTION HEAD AND TANK TRAILER & SPARES   | NOS. | 8   | General application for vehicles, spares and replacements for field use |
| 08-06-00-357 | - WATER TANKER CAP. 15 m <sup>3</sup> & SPARES                                  | NOS. | 7   | "                                                                       |
| 08-06-00-358 | - FUEL TANKER CAP. 22 m <sup>3</sup> TRACTION HEAD AND TANK TRAILER & SPARES    | NOS. | 4   | "                                                                       |
| 08-06-00-359 | - FUEL TANKER CAP. 15 m <sup>3</sup> & SPARES                                   | NOS. | 3   | "                                                                       |
| 08-06-00-360 | - TRUCK TRACTOR WITH LOW - LOADER PAY LOAD 100 TON & SPARES.                    | NOS. | 2   | "                                                                       |
| 08-06-00-361 | - TRACTION HEADS WITH PIPES CARRIER & SPARES .                                  | NOS. | 6   | "                                                                       |
| 08-06-00-362 | - LUB. OIL TANKER CAP 22 m <sup>3</sup> TRACTION HEAD AND TANK TRAILER & SPARES | NOS. | 2   | "                                                                       |
| 08-06-00-363 | - H <sub>2</sub> SO <sub>4</sub> TANKER CAPC. 15 m <sup>3</sup> & SPARES.       | NOS. | 1   | "                                                                       |
| 08-06-00-364 | - MAINTENANCE MOBILE WORKSHOPS FOR VEHICLE & SPARES.                            | NOS. | 2   | "                                                                       |
| 08-06-00-365 | - MOBILE WORKSHOPS FOR REPAIRING & SPARES.                                      | NOS. | 4   | "                                                                       |
| 08-06-00-366 | - TRUCK TRACTOR WITH SMI - TRAILER & SPARES .                                   | NOS. | 10  | "                                                                       |
| 08-06-00-367 | - CRANE HWD CAP. 30 TON & SPARES .                                              | NOS. | 2   | "                                                                       |
| 08-06-00-368 | - RECOVERY TRUCK FOR HEAVY VEHICLE & SPARES .                                   | NOS. | 4   | "                                                                       |
| 08-06-00-369 | - LORRY PAY LOAD 2.5 TON & SPARES .                                             | NOS. | 10  | "                                                                       |
| 08-06-00-370 | - MOBILE COLD STORE & SPARES .                                                  | NOS. | 2   | "                                                                       |
| 08-06-00-371 | - REFUSE COLLECTOR & SPARES .                                                   | NOS. | 2   | "                                                                       |
| 08-06-00-372 | - WHEEL LOADER EXCAVATOR & SPARES .                                             | NOS. | 3   | "                                                                       |
| 08-06-00-373 | - PICK UP DOUBLE CABIN & SPARES .                                               | NOS. | 55  | "                                                                       |
| 08-06-00-374 | - STATION WAGON & SPARES .                                                      | NOS. | 55  | "                                                                       |
| 08-06-00-375 | CONCRETE TRUCK MIXER, 5M <sup>3</sup> WITH SPARES                               | NOS. | 2   | "                                                                       |
| 08-06-00-376 | - BUS 45 SEATERS & SPARES.                                                      | NOS. | 45  | "                                                                       |
| 08-06-00-377 | - RECOVERY TRUCK FOR LIGHT VEHICLE & SPARES.                                    | NOS. | 2   | "                                                                       |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: ALL SITES**  
**SPECIALIZED TRUCKS, EQUIP., TOOLS & WORKSHOPS EQUIP.**

| CODE         | ITEM DESCRIPTION                                                                                | UNIT | QTY | COMMENT |
|--------------|-------------------------------------------------------------------------------------------------|------|-----|---------|
| 08-06-00-378 | - SPARE PARTS FOR HEAVY EQUIPMENTS & VEHICLE PURCHASED IN MOU-4 AND MOU-5 STAGE .               | NOS. | 500 | "       |
| 08-06-00-379 | - SPARE PARTS FOR LIGHT EQUIPMENTS & VEHICLE PURCHASED IN MOU-4 AND MOU-5 STAGE .               | NOS. | 500 | "       |
| 08-06-00-380 | - REQUIREMENTS FOR LUB OIL SUPPLY AT N. RUMAILA                                                 | ITEM | 150 | "       |
| 08-06-00-381 | - FUEL STATIONS IN SOUTH RUMAILAH COMPLETE WITH GALVANIZED CORRUGATED SHEETS FOR STATION SHADES | SET  | 5   | "       |
| 08-06-00-382 | - BULLDOZER & SPARES.                                                                           | NOS. | 2   | "       |
| 08-06-00-383 | - GRADER & SPARES.                                                                              | NOS. | 2   | "       |
| 08-06-00-384 | - SEPRAY WATER TANKER CAPC. 15 m3 & SPARES.                                                     | NOS. | 2   | "       |
| 08-06-00-385 | - CRANE CAP. 30 TON & SPARES.                                                                   | NOS. | 3   | "       |
| 08-06-00-386 | - LORRY WITH LIFT CRANE FROM 8 - 12 TON & SPARES.                                               | NOS. | 4   | "       |
| 08-06-00-387 | - MOBILE ELECTRICAL LIFTER & SPARES.                                                            | NOS. | 1   | "       |
| 08-06-00-388 | - BUS 24 SEATERS & SPARES.                                                                      | NOS. | 5   | "       |
| 08-06-00-389 | - AMBULANCE & SPARES.                                                                           | NOS. | 1   | "       |
| 08-06-00-390 | - LORRY PAY LOAD 10 - 15 TON & SPARES.                                                          | NOS. | 2   | "       |
| 08-06-00-391 | - FORK LIFT 3 - 10 TON & SPARES.                                                                | NOS. | 9   | "       |
| 08-06-00-392 | - DUMPER : HP= 7-12 POCKET CAPACITY (0.75-1) TON                                                | NOS. | 4   | "       |
| 08-06-00-393 | - CONCRETE MIXER H.P. = 7-12 POCKET CAPACITY = 400 KG ENGIN (1-2) CYLINDER                      | NOS. | 4   | "       |
| 08-06-00-394 | - CONCRETE MIXER H.P. = 10 POCKET CAPACITY = 400 KG                                             | NOS. | 2   | "       |
| 08-06-00-395 | - TRACTOR : H.P. = 30-45 ENGINE 4 CYLINDER                                                      | NOS. | 4   | "       |
| 08-06-00-396 | - AIR COMPRESSOR : TYPE : AIRMAN PDR 250                                                        | NOS. | 4   | "       |
| 08-06-00-397 | - SMALL SHOVEL WITH POCLAIN H.P. = 15                                                           | NOS. | 3   | "       |
| 08-06-00-398 | - JACK HAMMER DIAMETER 1 1/4 INCH                                                               | NOS. | 4   | "       |

**MINISTRY OF OIL****ESTABLISHMENT NAME: SOUTH OIL COMPANY****LOCATION: ALL FIELDS****OPERATION - MAINTENANCE MATERIALS**

| CODE         | ITEM DESCRIPTION                                       | UNIT | QTY    | COMMENT                                                    |
|--------------|--------------------------------------------------------|------|--------|------------------------------------------------------------|
| 08-06-00-399 | VALVES WITH SPARE PARTS FOR WELL CONNECTION            | NOS. | 1000   | General maintenance equipment for connection of well sites |
| 08-06-00-400 | PIPE FITTINGS, ACCESSORIES.                            | NOS. | 200000 | "                                                          |
| 08-06-00-401 | PIPE LINES MAINTENANCE EQUIPMENT                       | NOS. | 5000   | "                                                          |
| 08-06-00-402 | PIPE & VALVE TESTING EQUIPMENT                         | NOS. | 150    | "                                                          |
| 08-06-00-403 | AIR COMPRESSOR                                         | NOS. | 6      | "                                                          |
| 08-06-00-404 | PIPE CUTTING EQUIPMENT WITH CONSUMABLES                | NOS. | 500    | "                                                          |
| 08-06-00-405 | WELL POTENTIAL TESTING SKID                            | SET  | 6      | "                                                          |
| 08-06-00-406 | RECYCLE PUMPS FOR OIL TREATMENT UNITS WITH SPARE PARTS | NOS. | 40     | "                                                          |
| 08-06-00-407 | SAND REMOVAL SEPERATORS                                | NOS. | 4      | "                                                          |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: ALL FIELDS**  
**OPERATION- MAINTENANCE MATERIALS**

| CODE         | ITEM DESCRIPTION                                                | UNIT | QTY  | COMMENT                                        |
|--------------|-----------------------------------------------------------------|------|------|------------------------------------------------|
| 08-06-00-408 | DEMULSIFIER                                                     | DRUM | 7000 | Spares, equipment and solvents for field usage |
| 08-06-00-409 | SODIUM DICHROMATE                                               | TON  | 300  | "                                              |
| 08-06-00-410 | LAB CHEMICALS                                                   | LIT  | 7000 | "                                              |
| 08-06-00-411 | LAB APPARATUS                                                   | ITEM | 200  | "                                              |
| 08-06-00-412 | COULTER COUNTER                                                 | NOS. | 30   | "                                              |
| 08-06-00-413 | FIRE FIGHTING EQUIPMENT                                         | NOS. | 150  | "                                              |
| 08-06-00-414 | CO2 GENERATORS & FILLING EQUIPMENT EACH SET 20 ITEMS            | SET  | 4    | "                                              |
| 08-06-00-415 | NITROGEN GENERATION PACKAGE WITH SPARE PARTS                    | ITEM | 100  | "                                              |
| 08-06-00-416 | FIRE FIGHTING TANKER & TRUCK                                    | NOS. | 14   | "                                              |
| 08-06-00-417 | FIRE BRIDGE SERVICE GROUP MOBILE                                | NOS. | 3    | "                                              |
| 08-06-00-418 | SPARE PARTS FOR GAS TURBINE                                     | NOS. | 4000 | "                                              |
| 08-06-00-419 | DRAINAGE PUMPS                                                  | NOS. | 6    | "                                              |
| 08-06-00-420 | SPARE PARTS FOR VALVES AND ACTUATORS                            | NOS. | 1000 | "                                              |
| 08-06-00-421 | MATERIALS FOR MAJOR OVER HAUL OF ONE SOLAR TURBO GENERATOR SET. | ITEM | 250  | "                                              |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: BASRAH / NORTH AND SOUTH RUMAILA**  
**DEGASSING AND COMPRESSION STATIONS**  
**ELECTRICAL MATERIALS**

| CODE         | ITEM DESCRIPTION                                                                                           | UNIT | QTY    | COMMENT                                                                                                          |
|--------------|------------------------------------------------------------------------------------------------------------|------|--------|------------------------------------------------------------------------------------------------------------------|
| 08-06-00-422 | ELECTRICAL TRANSMISSION LINE (50KM) AND ACC.                                                               | ITEM | 100000 | Electrical materials and equipment for repair and maintenance of degassing and compressor stations in SOC region |
| 08-06-00-423 | BATTERY CHARGER AND SPARES FOR ALL AREAS.                                                                  | ITEM | 130    | "                                                                                                                |
| 08-06-00-424 | REPLACEMENT OF OLD BATTERIES FOR ALL AREAS                                                                 | NOS. | 5000   | "                                                                                                                |
| 08-06-00-425 | CONTACTOR, CIRCUIT BREAKER, OVER LOAD AND ACC.                                                             | ITEM | 150    | "                                                                                                                |
| 08-06-00-426 | POWER TRANSFORMER, DESALTER / DEHYDRATOR TRANSFORMER AND REPLACEMENT OF REACTORES, FOR DEGASSING STATIONS. | NOS. | 15     | "                                                                                                                |
| 08-06-00-427 | ELECTRICAL LAMP, LAMP FITTING WITH SPARES AND ACCESSFOR ALL AREAS.                                         | NOS. | 20000  | "                                                                                                                |
| 08-06-00-428 | CABLE LOW, HIGH VOLTAGE ACSR BARE WIRE FOR ALL AREAS.                                                      | KM   | 150    | "                                                                                                                |
| 08-06-00-429 | CABLE JOINT AND ACCESSORIES FOR ALL AREAS                                                                  | NOS. | 2000   | "                                                                                                                |
| 08-06-00-430 | COMPLETE MEDIUM VOLTAGE SWITCHGEAR UNIT, SPARES AND ACCESSORIES                                            | ITEM | 50     | "                                                                                                                |
| 08-06-00-431 | ELECTRIC MOTOR AND SPARE PARTS FOR ALL AREAS.                                                              | ITEM | 140    | "                                                                                                                |
| 08-06-00-432 | LOW VOLTAGE SWITCHGEAR, SPARE PARTS AND ACC.                                                               | ITEM | 100    | "                                                                                                                |
| 08-06-00-433 | ELECTRICAL VALVE ACTUATOR AND SPARE PARTS.                                                                 | ITEM | 125    | "                                                                                                                |
| 08-06-00-434 | SPARE PARTS FOR MAIN MEDIUM VOLTAGE MOTOR                                                                  | ITEM | 125    | "                                                                                                                |
| 08-06-00-435 | SPARE PARTS FOR NUOVO PIGNONE GAS TURBINE TYPE 95SP-1                                                      | ITEM | 125    | "                                                                                                                |
| 08-06-00-436 | SPARE PARTS FOR DIESEL ENGINE AT ALL AREAS                                                                 | ITEM | 135    | "                                                                                                                |
| 08-06-00-437 | 10 DIESEL GENERATORS AND SPARE PARTS                                                                       | ITEM | 25     | "                                                                                                                |
| 08-06-00-438 | SPARES FOR DIESEL ENGINE FIREFIGHTING                                                                      | ITEM | 140    | "                                                                                                                |
| 08-06-00-439 | MATERIALS FOR CATHODIC PROTECTION FOR ALL AREAS                                                            | ITEM | 1000   | "                                                                                                                |
| 08-06-00-440 | SPARE PARTS FOR U.P.S. AND BATTERY CHARGER                                                                 | ITEM | 250    | "                                                                                                                |
| 08-06-00-441 | WORK SHOP EQUIPMENT FOR ALL AREAS.                                                                         | ITEM | 130    | "                                                                                                                |

**MINISTRY OF OIL**

**ESTABLISHMENT NAME: SOUTH OIL COMPANY**

**LOCATION: AL - BAKER TERMINAL / BASRAH**

**A.ELECTRICAL MATERIALS**

| CODE         | ITEM DESCRIPTION                                                           | UNIT | QTY | COMMENT                                             |
|--------------|----------------------------------------------------------------------------|------|-----|-----------------------------------------------------|
| 08-06-00-442 | MARINE LANTERN NAVIGATION AND SPARE PARTS                                  | ITEM | 135 | Equipment and spare parts for Mina al-Bakr terminal |
| 08-06-00-443 | SPARE PARTS FOR LOADING ARM                                                | ITEM | 150 | "                                                   |
| 08-06-00-444 | SPARE PARTS FOR DIESEL ENGINE                                              | ITEM | 125 | "                                                   |
| 08-06-00-445 | MOTOR CONTROL CENTRE SWITCH GEAR, SPARE PARTS, ACCESSORIES & ROTORK VALVES | ITEM | 150 | "                                                   |

**LOCATION: AL - BAKER TERMINAL / BASRAH**

**B.INSTRUMENT & CONTROL MATERIALS**

| CODE         | ITEM DESCRIPTION                   | UNIT | QTY | COMMENT                                                 |
|--------------|------------------------------------|------|-----|---------------------------------------------------------|
| 08-06-00-446 | METERING SYSTEM EQUIPMENT & SPARES | ITEM | 50  | Metering system and spares                              |
| 08-06-00-447 | CONTROL EQUIPMENT & SPARES         | ITEM | 50  | Control equipment                                       |
| 08-06-00-448 | INLINE SAMPLING APPARATUS SETS     | SET  | 4   | Equipment for drawing flow proportional loading samples |

**LOCATION: ZUBAIR / BASRAH**

**MAINTENANCE OF PRODUCTION STATIONS (DEGASSING)**

| CODE         | ITEM DESCRIPTION                                       | UNIT | QTY | COMMENT                                              |
|--------------|--------------------------------------------------------|------|-----|------------------------------------------------------|
| 08-06-00-449 | CONTROL INSTRUMENTS & SPARES                           | ITEM | 200 | Control instruments for degassing stations at Zubair |
| 08-06-00-450 | FIELD INSTRUMENTS & SPARES                             | ITEM | 350 | "                                                    |
| 08-06-00-451 | CLUSTER STATIONS & SPARES                              | ITEM | 20  | "                                                    |
| 08-06-00-452 | CONTROL & MONITORING INSTRUMENTS FOR CLUSTER MANIFOLDS | SET  | 30  | "                                                    |

**MINISTRY OF OIL**

**ESTABLISHMENT NAME: SOUTH OIL COMPANY**

**LOCATION: NORTH & SOUTH RUMAILA**

**MAINTENANCE & REFURBISHMENT  
OF DEGASSING / DESALTING**

| CODE         | ITEM DESCRIPTION            | UNIT | QTY | COMMENT                                |
|--------------|-----------------------------|------|-----|----------------------------------------|
| 08-06-00-453 | CONTROL INSTRUMENT & SPARES | ITEM | 100 | Control & instrumentation requirements |
| 08-06-00-454 | FIELD INSTRUMENT & SPARES   | ITEM | 500 | "                                      |

**LOCATION: SOUTH RUMAILA**

**GAS COMPRESSION STATIONS**

| CODE         | ITEM DESCRIPTION                                | UNIT | QTY | COMMENT                                  |
|--------------|-------------------------------------------------|------|-----|------------------------------------------|
| 08-06-00-455 | CONTROL INSTRUMENTS & SPARES                    | ITEM | 300 | Control and instrumentation requirements |
| 08-06-00-456 | TURBINE CONTROL SYSTEM & ASSOCIATED INSTRUMENTS | ITEM | 250 | "                                        |

# MINISTRY OF OIL

ESTABLISHMENT NAME: SOUTH OIL COMPANY

LOCATION: NORTH & SOUTH RUMAILA, GARMA  
WATER INJECTION SYSTEM

| CODE         | ITEM DESCRIPTION                                         | UNIT | QTY | COMMENT                                            |
|--------------|----------------------------------------------------------|------|-----|----------------------------------------------------|
| 08-06-00-457 | CLUSTER STATIONS CONTROL SYSTEM & ASSOCIATED INSTRUMENTS | ITEM | 100 | Control instrumentation for water injection system |
| 08-06-00-458 | FLOWMETERS & ASSOCIATED INSTRUMENTS & MONITORS           | ITEM | 20  | "                                                  |
| 08-06-00-459 | CONTROL INSTRUMENTS & SPARES                             | ITEM | 50  | "                                                  |

## LOCATION: ZUBAIR, NORTH & SOUTH RUMAILA MAINTENANCE OF PRODUCTION STATIONS (DEGASSING)

| CODE         | ITEM DESCRIPTION                                                                                                          | UNIT | QTY | COMMENT                                                                  |
|--------------|---------------------------------------------------------------------------------------------------------------------------|------|-----|--------------------------------------------------------------------------|
| 08-06-00-460 | PUMPS AND SPARE PARTS FOR PUMP - AIR BLOWER.<br>MODEL : AA D-5                                                            | ITEM | 30  | Spare parts & replacement equipment for degassing station N & S Rumailah |
| 08-06-00-461 | MECHANICAL SPARE PARTS FOR BROOM & WADE AIR COMPRESSORS TYPE : V200DA                                                     | ITEM | 101 | "                                                                        |
| 08-06-00-462 | PUMPS AND SPARE PARTS FOR CRUDE OIL PUMP TYPE : ROTARY GEAR PUMP (MAAG)                                                   | ITEM | 18  | "                                                                        |
| 08-06-00-463 | SPARE PARTS FOR VERTICAL BOOSTER PUMP TH INDUSTRIE AG MASCHINENBAU TYPE: VLT 200/12/328 X                                 | ITEM | 35  | "                                                                        |
| 08-06-00-464 | AIR COMPRESSOR AND SPARE PARTS FOR (POPPE) HIGH PRESSURE AIR COMPRESSORS AIR COOLED TYPE : WP8L-301                       | ITEM | 41  | "                                                                        |
| 08-06-00-465 | SPARE PARTS FOR CRUDE OIL BOOSTER PUMPS TYPE : VERTICAL , MULTI - STAGE, BARREL TYPE , NO. OF STAGE : 2 MODEL : TSM - VB2 | ITEM | 21  | "                                                                        |
| 08-06-00-466 | SPARE PARTS FOR FIRE FIGHTING PUMP ( WORTHINGTON ) TYPE: 6LN - 18                                                         | ITEM | 15  | "                                                                        |
| 08-06-00-467 | SPARE PARTS FOR FIRE FIGHTING DIESEL ENGINE ( MWM ) TYPE : D232 V12                                                       | ITEM | 129 | "                                                                        |
| 08-06-00-468 | AIR STARTING MOTOR AND SPARE PARTS FOR AIR - STARTING MOTOR MODEL:SS 350 GE 03 R 85-02H FOR FIRE FIGHTING DIESEL ENGINE   | ITEM | 2   | "                                                                        |
| 08-06-00-469 | SPARE PARTS FOR CRUDE OIL PUMP,MATHER&PLATT "TYPE : 3''' / 4''' - 10 STAGES - B - F.H."                                   | ITEM | 17  | "                                                                        |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: ZUBAIR, NORTH & SOUTH RUMAILA**  
**MAINTENANCE OF PRODUCTION**  
**STATIONS (DEGASSING)**

| CODE         | ITEM DESCRIPTION                                                                                                   | UNIT | QTY | COMMENT |
|--------------|--------------------------------------------------------------------------------------------------------------------|------|-----|---------|
| 08-06-00-470 | SPARE PARTS FOR BOOSTER PUMP MATHER & PLATT "TYPE : 8"<br>- 14" - 4 STAGE- A.T.C.B CAISSON"                        | ITEM | 17  | "       |
| 08-06-00-471 | SPARE PARTS FOR MAIN PUMPS, TYPE:N4 X 11 MSNDH 6 STAGE                                                             | ITEM | 45  | "       |
| 08-06-00-472 | SPARE PARTS FOR DRAINAGE PUMP TYPE : ZV 50 - 20 / 2 - 5.5<br>ET 3000 ZV 50 - 20 / 2 - 7.5                          | ITEM | 14  | "       |
| 08-06-00-473 | SPARE PARTS FOR MAIN HORIZONTAL CRUDE OIL PUMP<br>TYPE : ZMI 325 / 01.                                             | ITEM | 27  | "       |
| 08-06-00-474 | SPARE PARTS FOR ROLLS ROYCE DIESEL ENGINE DRIVE<br>ELECTRIC GENERATOR TYPE : SF 65 CT                              | ITEM | 61  | "       |
| 08-06-00-475 | SKID MOUNTED HEAVY DUTY OIL FREE AIR-COOLED AIR<br>COMPRESSOR.                                                     | ITEM | 1   | "       |
| 08-06-00-476 | COMPLETE AIR SCREEN FILTER FOR RUSTON GAS TURBINE<br>MULTI DUTY MODEL B                                            | ITEM | 2   | "       |
| 08-06-00-477 | COMPLETE ASSY WATER PUMP WITH ELECTRIC MOTOR<br>SKID MOUNTED SERVICE : PUMPING FRESH WATER FOR<br>DESALTING UNITS. | ITEM | 2   | "       |
| 08-06-00-478 | SPARE PARTS FOR JOCKY PUMP THYSSEN<br>MASCHINENBAU RUHRPUMPEN TYPE : 1 1/2 X 10 SVE                                | ITEM | 15  | "       |
| 08-06-00-479 | SPARE PARTS OF CATERPILLAR DIESEL ENGINE "TYPE :<br>3412 D1 ; HP : 456 ; R.P.M 1800 - 1500".                       | ITEM | 48  | "       |
| 08-06-00-480 | WASH WATER PUMPS RECYCLE PUMPS , RECOVERED OIL<br>VERTICAL PUMPS & SPARE PARTS                                     | ITEM | 93  | "       |
| 08-06-00-481 | SPARES FOR CENTRIFUGAL PUMP , FIREWATER PUMP<br>THYSSEN MASCHINENBAU GMBH. TYPE :- ZMII 530 / 02                   | ITEM | 19  | "       |

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**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: ALL DEPOT.**  
**OIL STORAGE DEPOTS, TANKS FARM & PUMP STATIONS**  
**A. INSTRUMENT & CONTROL**

| CODE         | ITEM DESCRIPTION                          | UNIT | QTY | COMMENT                                                 |
|--------------|-------------------------------------------|------|-----|---------------------------------------------------------|
| 08-06-00-482 | CONTROL INSTRUMENTS & SPARES AT PSI DEPOT | ITEM | 50  | Control instrumentation for depots and pumping stations |
| 08-06-00-483 | FIELD INSTRUMENTS AT PSI DEPOT            | ITEM | 50  | "                                                       |
| 08-06-00-484 | CONTROL INSTRUMENTS & SPARES AT ZR1 DEPOT | ITEM | 50  | "                                                       |
| 08-06-00-485 | FIELD INSTRUMENTS AT ZR1 DEPOT            | ITEM | 50  | "                                                       |
| 08-06-00-486 | FIELDS INSTRUMENTS AT ZR2 DEPOT           | ITEM | 30  | "                                                       |

**B.MECHANICAL**

| CODE         | ITEM DESCRIPTION                                                                              | UNIT | QTY | COMMENT                                                             |
|--------------|-----------------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------------------|
| 08-06-00-487 | SPARES FOR CENTRIFUGAL PUMP , FIREWATER PUMP THYSEN MASCHINENBAU GMBH. TYPE :- ZMII 630 / 05. | ITEM | 14  | Mechanical spare parts for tanks farms, depots and pumping stations |
| 08-06-00-488 | SPARE PARTS FOR DIESEL ENGINE MWM TYPE : TBD 604 - V8 , ENGINE NO. : 604.08 - 10042 , 3       | ITEM | 51  | "                                                                   |
| 08-06-00-489 | SPARE PARTS FOR DIESEL ENGINE CUMMINS TYPE : KT 2300G , SERIAL NO. 4158/02                    | ITEM | 47  | "                                                                   |
| 08-06-00-490 | SPARE PARTS FOR GAS TURBINE INGERSOLL-RAND MODEL GT - 53 .                                    | ITEM | 4   | "                                                                   |
| 08-06-00-491 | SPARE PARTS FOR AIR COMPRESSOR ( TECNIC GALLI ) TYPE :- VA30                                  | ITEM | 44  | "                                                                   |
| 08-06-00-492 | SPARE PARTS FOR OVERHEAD CRANE                                                                | ITEM | 6   | "                                                                   |
| 08-06-00-493 | SPARE PARTS FOR VERTICAL CENTRIFUGAL PUMP ( SLOP PUMP ) TYPE : PWZV 05 32 - 200               | ITEM | 13  | "                                                                   |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: NORTH & SOUTH RUMAILA**  
**GAS COMPRESSION STATION**

| CODE         | ITEM DESCRIPTION                                                                                                                               | UNIT  | QTY | COMMENT                                                 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|---------------------------------------------------------|
| 08-06-00-494 | SPARE PARTS FOR AIR COMPRESSORS BV1N1 CPACITY-200-300 NM3/H DISCHARGE PRESSURE - 9 ATM                                                         | ITEM  | 73  | Replacements and spare parts for gas compressor station |
| 08-06-00-495 | SPARE PARTS FOR 4TH STAGE SEPARATOR DRAIN PUMPS TYPE : RBS 32/20 MY11AND VERTICAL PUMPS TYPE : NOWA 32/20 VR AND PUMPS TYPE : M40 X 3TM - TOPF | ITEM  | 83  | "                                                       |
| 08-06-00-496 | AIR COOLED HEAT EXCHANGER COMPLETE WITH FAN & MOTOR TYPE :-INDUCED DRAFT                                                                       | ITEM  | 1   | "                                                       |
| 08-06-00-497 | SPARE PARTS FOR GAS TURBINE TYPE : MS - 1002 B                                                                                                 | ITEM  | 5   | "                                                       |
| 08-06-00-498 | COMPLETE FANS FOR GAS COOLERS AND AIR COOLED HEAT EXCHANGER                                                                                    | ITEM  | 5   | "                                                       |
| 08-06-00-499 | SPARE PARTS FOR FIREWATER PUMP TYPE :- 8 X 5DF - 4SG.                                                                                          | ITEM  | 9   | "                                                       |
| 08-06-00-500 | SPARE PARTS FOR PACIFIC HIRO PUMP FIRE PUMP. ( JOCKEY PUMP ) TYPE :- 1 1/2 X 10 SVE - P                                                        | ITEM  | 10  | "                                                       |
| 08-06-00-501 | COMPLET MITSUBISHI DIESEL ENGINE DRIVE FIRE PUMP.                                                                                              | ITEM  | 1   | "                                                       |
| 08-06-00-502 | SPARE PARTS FOR 1ST . STAGE GAS COOLERS                                                                                                        | ITEM  | 13  | "                                                       |
| 08-06-00-503 | SPARE PARTS FOR DIESEL ENGINE DRIVE FIRE WATER PUMP TYPE : DH24PA                                                                              | ITEM  | 112 | "                                                       |
| 08-06-00-504 | SPARE PARTS FOR GLYCOL PUMPS PUMP SIZE & TYPE : 1 - 5/8 X 2 - 1/4 TX-10                                                                        | ITEM  | 78  | "                                                       |
| 08-06-00-505 | SPARE PARTS FOR EMERGENCY DIESEL GENERATOR ENGINE TYPE ID 36SS6V                                                                               | ITEM  | 100 | "                                                       |
| 08-06-00-506 | SPARE PARTS FOR GLYCOL FILTERS SERIES - 55 SER. NO. : 23580-23581-21582-23583                                                                  | ITEM  | 3   | "                                                       |
| 08-06-00-507 | SERVICE CONTRACT FOR MAJOR OVERHAUL OF SOLAR CENTAURE GAS TURBINE SINGLE SHAFT - ( FAILED ENGINE ) MODEL : T - 4001                            | CONT. | 1   | Contract for overhaul of failed gas turbine unit        |

**MINISTRY OF OIL**  
**LOCATION: ALL AREAS**  
**UTILITY MATERIALS & EQUIPMENT**

| CODE         | ITEM DESCRIPTION                                                                                            | UNIT | QTY | COMMENT                                                 |
|--------------|-------------------------------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------|
| 08-06-00-508 | VERTICAL MULTI-STAGE PUMPS, Q:560 M3/H H:30 M FOR MUFTIA AREA.                                              | NOS. | 12  | General utility spare parts & replacements for SOC area |
| 08-06-00-509 | AIR HANDLING UNIT, DIFFERENT CAPACITY FROM 30-40 WITH DUCT HEATER FOR BAB-AL ZUBAIR AREA & NEHR EBIN AUMER. | NOS. | 30  | "                                                       |
| 08-06-00-510 | CHILLER AIR COOLED 120 TON & SPLIT A/C UNIT DIFFERENT CAPACITY ( FOR NEHR EBIN AUMER & NORTH RUMAILA )      | NOS. | 10  | "                                                       |
| 08-06-00-511 | CONTACTOR DIFFERENT TYPE (CAPACITY )(COIL) & CIRCUIT BREAKR                                                 | ITEM | 50  | "                                                       |
| 08-06-00-512 | SPARE PARTS FOR A/C (AIR CONDITION UNIT) DIFFERENT CAPACITY .                                               | ITEM | 30  | "                                                       |
| 08-06-00-513 | SPARE PARTS FOR SOLAR GENERATOR .                                                                           | ITEM | 30  | "                                                       |
| 08-06-00-514 | SPECIAL TOOLS & EQUIPMENT FOR A/C WORK SHOP & PLANT.                                                        | ITEM | 10  | "                                                       |
| 08-06-00-515 | COMPLETE WATER PUMP WITH ELECTRIC MOTOR FOR GARMA AREA                                                      | SET  | 6   | "                                                       |
| 08-06-00-516 | ELECTRIC TEST EQUIPMENT .                                                                                   | ITEM | 5   | "                                                       |
| 08-06-00-517 | AIR CONDITIONING UNIT DIFFERENT CAPACITY FOR WEST QURNA                                                     | NOS. | 30  | "                                                       |
| 08-06-00-518 | ELECTRIC MOTOR 110 KW , 3PH , 380 V , 50 HZ FOR WEST QURNA                                                  | NOS. | 1   | "                                                       |
| 08-06-00-519 | SPARE FOR A/C UNIT COMPRESSORS FOR DIFFERENT TONAGE FOR ALL DEGASSING STATIONS .                            | ITEM | 80  | "                                                       |
| 08-06-00-520 | SPARE PART FOR PASSENGER LIFT 380 VAC , 50 HZ.                                                              | ITEM | 100 | "                                                       |
| 08-06-00-521 | GENERATING SET WITH SPERES & ACCESSORIES                                                                    | SET  | 2   | "                                                       |
| 08-06-00-522 | EQUIPMENTS & TOOLS FOR MAINTENANCE WORKSHOPS                                                                | ITEM | 25  | "                                                       |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: ALL AREAS**  
**TELECONTROL SYSTEM**

| CODE         | ITEM DESCRIPTION                                                                                                                                                      | UNIT | QTY | COMMENT                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------------------------------------|
| 08-06-00-523 | OPTICAL FIBER SYSTEM BETWEEN PSI - ZUBAIR -<br>FAO FOR TELECONTROL SYSTEM FOR PUMPING OIL TO<br>AL-BAKER TERMINAL                                                     | ITEM | 70  | Telecommunications equipment and<br>spares for control systems<br>throughout SOC area |
| 08-06-00-524 | OPTICAL FIBER SYSTEM BETWEEN PSI FIELD & WEST<br>QURNA FIELD (PSI - CGS7 - CGS8 - INDUSTRIAL AREA)                                                                    | ITEM | 27  | "                                                                                     |
| 08-06-00-525 | WIRELESS MULTI - ACCESS SYSTEM FOR TELECONTROL<br>BETWEEN ALLSITES IN WEST QURNA FIELD.                                                                               | ITEM | 8   | "                                                                                     |
| 08-06-00-526 | WIRELESS MULTI - ACCESS SYSTEM / ZUBAIR FIELD.                                                                                                                        | ITEM | 8   | "                                                                                     |
| 08-06-00-527 | MICROWAVE RADIO SYSTEM 60 CHANNELS FOR<br>TELECONTROL SYSTEM BETWEEN PUMPING STATIONS<br>(PS2 - PS3 - PS4 - K3) TO REPLACE DAMAGE UHF LINK.                           | ITEM | 9   | "                                                                                     |
| 08-06-00-528 | MICROWAVE RADIO SYSTEM (1+1) PCM CAPACITY 300<br>CHANNELS 34 MB / S OPERATES AT 13 GHZ BAND TO<br>LINK MAKINA CENTER TO BAB AL- ZUBAIR HEAD<br>OFFICES (BASRAH CITY). | ITEM | 9   | "                                                                                     |
| 08-06-00-529 | PUBLIC ADDRESS SYSTEM ON AN OPEN PLATFORM. AL-<br>BAKER TERMINAL QTY 2                                                                                                | ITEM | 6   | "                                                                                     |
| 08-06-00-530 | HE - 70 WAVE-GUIDE FEEDER TO REPLACE THE DAMAGE<br>FEEDER AT NORTH RUMILA " WEST QURNA , NAHR -<br>UMR , ZUBAIR, BAB - " AL ZUBAIR .                                  | MTR. | 750 | "                                                                                     |
| 08-06-00-531 | STANDARD FACSIMILE ( FAX ) SET WITH SPAER PARTS .<br>QTY . 10 SET .                                                                                                   | SET  | 10  | "                                                                                     |
| 08-06-00-532 | MODERN ( VHF / UHF ) WALKIE-TALKIE SET . QTY . 10<br>PAIRS .                                                                                                          | PAIR | 10  | "                                                                                     |
| 08-06-00-533 | HF LINKS FOR REMOTE SITES QTY . 4 LINKS .                                                                                                                             | ITEM | 24  | "                                                                                     |
| 08-06-00-534 | REMOTE SUBSCRIBER SWITCHING UNIT ( R - S - S - U ) AT<br>WEST QURNA TO SERVE " ALL DEGASING GAS ,<br>COMPRESSION , WATER TREAT. AND PUMPING STS. "                    | ITEM | 5   | "                                                                                     |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH OIL COMPANY**  
**LOCATION: ALL AREAS**  
**TELECONTROL SYSTEM**

| CODE         | ITEM DESCRIPTION                                                                                                                                       | UNIT         | QTY    | COMMENT |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|---------|
| 08-06-00-535 | POINT TO POINT DIGITAL UHF SYSTEM TO LINK PUMPING STATION NO.3 TO NAJAF CITY (PSTN)                                                                    | ITEM         | 6      | "       |
| 08-06-00-536 | UHF LINK 2M(30CH) FOR AL-BAKER EMERGENCY TO REPLACE THE EXISTING OBSOLETE SYSTEM AT (BAB - ALZUBAIR - KHUR ALZUBAIR - FAO -ALBAKER TERMINAL)           | ITEM         | 6      | "       |
| 08-06-00-537 | POINT TO POINT LINKS TO SERVE FARAWAY AND MOVABLE SITES.<br>1- UHF SYSTEM (4 CHANNELS) QTY . 3 LINKS .<br>2- VHF SYSTEM (3 CHANNELS) . QTY . 3 LINKS . | LINK<br>LINK | 3<br>3 | "<br>"  |
| 08-06-00-538 | ACID BATTERY FOR NORTH RUMILA TELE-CONTROL SYSTEM (PSI STATION) TO REPLACE DAMAGE BATTERY QTY . 50 BATTERIES.                                          | ITEM         | 1      | "       |
| 08-06-00-539 | ACID BATTERY FOR WEST QURNA TELE-CONTROL SYSTEM (WEST QURNA STATION) TO REPLACE DAMAGE BATTERY . QTY . 50 BATTERIES.                                   | ITEM         | 1      | "       |
| 08-06-00-540 | CHARGE CONTROL REGULATOR FOR POWER FEEDING TO TELECONTROL SYSTEM IN PSI & WEST QURNA FIELD . QTY . 3 .                                                 | ITEM         | 1      | "       |
| 08-06-00-541 | MOBILE DIESEL ENGINE DRIVEN ELECTRIC GENERATORS USE FOR TELECONTROL SYSTEM IN WEST QURNA FIELD . QTY . 2 .                                             | ITEM         | 1      | "       |
| 08-06-00-542 | OPTICAL FIBER EQUIPMENT TO REPLACE OBSOLETE COMMUNICATION EQPT. BETWEEN PUMPING STATION - 3 AND K3 OF THE RUMAILA - HADITHA PIPELINE                   | ITEM         | 9      | "       |
| 08-06-00-543 | MOBILE DIESEL ENGINE DRIVEN ELECTRIC GENERATORS USE FOR TELECONTROL REPETAR STATION . QTY . 8 .                                                        | ITEM         | 1      | "       |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: IRAQ DRILLING CO.**  
**LOCATION: BASRAH AND KIRKUK**

| CODE         | ITEM DESCRIPTION                         | UNIT | QTY   | COMMENT                                                                                           |
|--------------|------------------------------------------|------|-------|---------------------------------------------------------------------------------------------------|
| 08-06-00-544 | SPARES FOR OIL WELL RIGS                 | NOS. | 20000 | Refurbishment and repair of 12 rigs for drilling and well workover in both North and South areas. |
| 08-06-00-545 | SPARES FOR CI31 RIG                      | NOS. | 6000  | "                                                                                                 |
| 08-06-00-546 | SPARES FOR EMSO RIG                      | NOS. | 6000  | "                                                                                                 |
| 08-06-00-547 | SPARES FOR P - 80 RIG                    | NOS. | 3000  | "                                                                                                 |
| 08-06-00-548 | SPARES FOR IDECO RIG                     | NOS. | 8000  | "                                                                                                 |
| 08-06-00-549 | SPARES FOR CARRIEA AND U.R.B. RIGS       | NOS. | 2000  | "                                                                                                 |
| 08-06-00-550 | SPARES FOR DGU4000 , CABOT, SKY-TOP RIGS | NOS. | 4000  | "                                                                                                 |

**LOCATION: BASRAH AND KIRKUK**

| CODE         | ITEM DESCRIPTION                | UNIT | QTY   | COMMENT                                                         |
|--------------|---------------------------------|------|-------|-----------------------------------------------------------------|
| 08-06-00-551 | BUSES 45 & 25 SEATS             | NOS. | 10    | Spares, equipment and safety items related to the 12 rigs above |
| 08-06-00-552 | LOW LOADERS / LORRIES / TANKERS | NOS. | 10    | "                                                               |
| 08-06-00-553 | CRANES                          | NOS. | 10    | "                                                               |
| 08-06-00-554 | FORKLIFTS                       | NOS. | 10    | "                                                               |
| 08-06-00-555 | MOBILE WORKSHOP                 | NOS. | 2     | "                                                               |
| 08-06-00-556 | WELDING MACHINE                 | NOS. | 15    | "                                                               |
| 08-06-00-557 | TYRES & TUBES FOR HEAVY LOADERS | NOS. | 1000  | "                                                               |
| 08-06-00-558 | AIR COMPRESSORS                 | NOS. | 10    | "                                                               |
| 08-06-00-559 | MUD PUMPS                       | NOS. | 4     | "                                                               |
| 08-06-00-560 | ENGINES FOR HEAVY VEHICLES      | NOS. | 35    | "                                                               |
| 08-06-00-561 | SPARES FOR HEAVY VEHICLES       | NOS. | 8000  | "                                                               |
| 08-06-00-562 | DRILLING PIPE & DRILL COLLARS   | NOS. | 3000  | "                                                               |
| 08-06-00-563 | SAFETY & FIRE EQUIPMENT         | NOS. | 10000 | "                                                               |
| 08-06-00-564 | HAND TOOLS & WORKSHOP EQUIPMENT | NOS. | 2000  | "                                                               |
| 08-06-00-565 | DRILLING CAMPS FOR 80 PERSONS   | NOS. | 2     | "                                                               |
| 08-06-00-566 | AIR DRILLING RIGS               | NOS. | 2     | "                                                               |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)**  
**LOCATION: ENGINEERING OFFICES**  
**DESIGN OFFICE REQUIREMENTS**

| CODE         | ITEM DESCRIPTION                                                                                                                  | UNIT | QTY | COMMENT                                                                    |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------|------|-----|----------------------------------------------------------------------------|
| 08-06-00-567 | - LATEST ENGINEERING STANDARDS ON C.D. ROMS (API,ASTM,ASME,ANSI,NFPA,ACI,IEC,ASHERE, AASHO,AWWA,CCITT,ETC).                       | SET. | 2   | Office equipment and software for quality control and engineering projects |
| 08-06-00-568 | - ENGINEERING DESIGN SOFTWARE (PROCESS,EQUIPMENT,PIPING,INSTRUMENTATION, ELECTRICAL,CIVIL WORK & ARCHIVE SOFTWARE).               | SET. | 1   | "                                                                          |
| 08-06-00-569 | - PROJECT MANAGEMENT SOFTWARE (COSTING,SCHEDULING,QUALITY,ENVIRONMENTAL & CONTRACT)                                               | SET. | 1   | "                                                                          |
| 08-06-00-570 | - PHOTOCOPYING MACHINE FOR DRAWING UP TO (A0) SIZE.                                                                               | NOS. | 1   | "                                                                          |
| 08-06-00-571 | - PHOTOCOPYING MACHINE (OFFICE)                                                                                                   | NOS. | 10  | Very large photocopier for engineering drawings                            |
| 08-06-00-572 | - SCANNER SIZE (A0) COMPATIBLE TO PC. RESOLUTION MIN 1200x1200 AND RASTER TO VECTOR SOFTWARE ,ANALYSIS WITH AutoCAD FILE FORMAT.  | NOS. | 1   | Very large scanner for engineering drawings                                |
| 08-06-00-573 | - PORTABLE TEST EQUIPMENT AND INSTRUMENTS (AVOS, CLAMP AMMETERS, AIR FLOW METERS, VIBRATION METERS, EARTH RESISTANCE METER, ETC.) | NOS. | 10  | Electrical test equipment                                                  |
| 08-06-00-574 | - MULTI FUNCTION TEST INSTRUMENT FOR CATHODIC PROTECTION SYSTEM.                                                                  | NOS. | 1   | "                                                                          |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)**  
**LOCATION: ENGINEERING OFFICES**  
**DESIGN OFFICE REQUIREMENTS**

| CODE         | ITEM DESCRIPTION                                                                  | UNIT  | QTY  | COMMENT                                   |
|--------------|-----------------------------------------------------------------------------------|-------|------|-------------------------------------------|
| 08-06-00-575 | - COMPUTER PENTIUM II 450MHz WITH FULL OPTION                                     | NOS.  | 50   | Design equipment for engineering projects |
| 08-06-00-576 | - SCIENTIFIC CALCULATORS.                                                         | NOS.  | 100  | "                                         |
| 08-06-00-577 | - FILM SCANNER FOR 35mm POSITIVE /NEGATIVE                                        | NOS.  | 1    | "                                         |
| 08-06-00-578 | - PROJECTOR FOR IMAGE PROJECTION FROM PC. ONTO SCREENS.                           | NOS.  | 1    | "                                         |
| 08-06-00-579 | - OFFICE STATIONARY                                                               |       |      | Paper supplies not available in Iraq      |
|              | A4 WRITING PAPER (OF 500 PAPERS PACKS)                                            | PACKS | 1000 |                                           |
|              | A3 WRITING PAPER (OF 500 PAPERS PACKS)                                            | PACKS | 200  |                                           |
|              | DRAWING TRACE PAPER (100 SQ. M ROLLS)                                             | ROLLS | 100  |                                           |
|              | COMPUTER PRINTERS PAPER A3 CONTINUOUS CARBUNCLE 2 COPIES ( OF 1500 PAPERS IN BOX) | BOX   | 180  |                                           |

**MINISTRY OF OIL**

**ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)**

**LOCATION: ALL SITES**

**FITTINGS AND CONSUMABLE**

| CODE         | ITEM DESCRIPTION                                                                                                                 | UNIT | QTY | COMMENT                                 |
|--------------|----------------------------------------------------------------------------------------------------------------------------------|------|-----|-----------------------------------------|
| 08-06-00-580 | - CABLES AND ACCESSORIES<br>POWER & CONTROL CABLES OF VARIOUS SIZES                                                              | ITEM | 50  | Construction sites and engineering work |
| 08-06-00-581 | - PIPING FITTINGS<br>VALVES, FLANGES, ELBOWS, TEES,.....etc                                                                      | ITEM | 200 | "                                       |
| 08-06-00-582 | - WELDING ELECTRODES<br>WELDING ELECTRODES FOR LINE PIPES & STORAGE<br>TANKS TYPE 70.18, 6010, WITH DIAMETERS<br>2.5mm → 4.5 mm. | TONS | 100 | "                                       |

**LOCATION: ALL SITES**

**CONSTRUCTION CONSUMABLES**

| CODE         | ITEM DESCRIPTION                              | UNIT | QTY | COMMENT                                                      |
|--------------|-----------------------------------------------|------|-----|--------------------------------------------------------------|
| 08-06-00-583 | - PIPELINE LAYING ACCESSORIES AND CONSUMABLES | ITEM | 30  | Construction materials for pipe laying and tank construction |
| 08-06-00-584 | - TANK ERECTION ACCESSORIES AND CONSUMABLES   | ITEM | 40  | "                                                            |
| 08-06-00-585 | - WORKSHOP TOOLS & EQUIPMENT                  | ITEM | 50  | "                                                            |

**LOCATION: ALL SITES**

**INSPECTION EQUIPMENT'S, MATERIALS AND TOOLS.**

| CODE         | ITEM DESCRIPTION                                                                             | UNIT | QTY | COMMENT               |
|--------------|----------------------------------------------------------------------------------------------|------|-----|-----------------------|
| 08-06-00-586 | - ULTRASONIC THICKNESS METER FLOW DETECTOR<br>WITH PROBES, TEST BLOCK AND OTHER ACCESSORIES. | ITEM | 4   | NDT testing equipment |
| 08-06-00-587 | - DYE PENETRATION MATERIALS.                                                                 | SET  | 100 | "                     |
| 08-06-00-588 | - COATING AND PAINTING INSPECTION UNITS (HOLIDAY<br>DETECTOR AND THICKNESS GAUGE.            | ITEM | 3   | "                     |
| 08-06-00-589 | - PORTABLE HARDNESS TESTER.                                                                  | NOS. | 1   | "                     |
| 08-06-00-590 | - WELD SEAM VACUUM TEST DEVICE.                                                              | NOS. | 10  | "                     |
| 08-06-00-591 | - ISOTOPE SOURCES IR 192 (40-100) CURIES.                                                    | NOS. | 4   | "                     |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)**  
**LOCATION: ALL SITES**  
**HEAVY CONSTRUCTION EQUIPMENT**

| CODE         | ITEM DESCRIPTION                                                                   | UNIT | QTY | COMMENT                                                                         |
|--------------|------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------------------------------|
| 08-06-00-592 | - CRANES HYDRAULIC TRUCK MOBILE 20-30 TONS WITH RECOMMENDED SPARE PARTS.           | NOS. | 2   | Heavy construction equipment for erection work of storage tanks and pipe laying |
| 08-06-00-593 | - CRANES HYDRAULIC TRUCK MOBILE 80 TONS WITH RECOMMENDED SPARE PARTS.              | NOS. | 1   | "                                                                               |
| 08-06-00-594 | - CRANE HYDRAULIC TRUCK MOBILE 45-50 TONS WITH RECOMMENDED SPARE PARTS.            | NOS. | 1   | "                                                                               |
| 08-06-00-595 | - SIDE BOOM 572 WITH RECOMMENDED SPARE PARTS.                                      | NOS. | 2   |                                                                                 |
| 08-06-00-596 | - GRADER WITH HYDRAULIC DRIVE (150) hp. AT(2200) rpm WITH RECOMMENDED SPARE PARTS. | NOS. | 2   |                                                                                 |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)**  
**LOCATION: ALL SITES**  
**LIGHT CONSTRUCTION MACHINERY AND ACCESSORIES.**

| CODE         | ITEM DESCRIPTION                                                                                                         | UNIT | QTY | COMMENT                                                     |
|--------------|--------------------------------------------------------------------------------------------------------------------------|------|-----|-------------------------------------------------------------|
| 08-06-00-597 | - GENERATORS / SKID 250-300 KVA WITH RECOMMENDED SPARE PARTS.                                                            | NOS. | 2   | Equipment for testing (hydraulic) and maintaining new pipes |
| 08-06-00-598 | - DEWATERING PUMP DIESEL DRIVEN ENGINE 50-80 cu. m./HR. 10-15 m. h. WITH RECOMMENDED SPARE PARTS                         | NOS. | 3   | "                                                           |
| 08-06-00-599 | - WELDING MACHINES DIESEL DRIVEN /450-500 Amp WITH RECOMMENDED SPARE PARTS.                                              | NOS. | 50  | "                                                           |
| 08-06-00-600 | - ELECTRICAL WELDING MACHINES WITH RECOMMENDED SPARE PARTS.                                                              | NOS. | 50  | "                                                           |
| 08-06-00-601 | - PIPELINE BORING MACHINE WITH RECOMMENDED SPARE PARTS.                                                                  | SET  | 3   | "                                                           |
| 08-06-00-602 | - CLAMPS INTERNAL VARIOUS SIZES WITH RECOMMENDED SPARE PARTS.                                                            | SET  | 4   | "                                                           |
| 08-06-00-603 | - FORK LIFTS 10 TONS WITH RECOMMENDED SPARE PARTS.                                                                       | NOS. | 2   | "                                                           |
| 08-06-00-604 | - PORTABLE ROTARY SCREW COMPRESSOR WITH WATER COOLED ENGINE MAX WORKING PRESSURE (20) BAR, WITH RECOMMENDED SPARE PARTS. | NOS. | 2   | "                                                           |

**MINISTRY OF OIL**

**ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)**

**LOCATION: ALL SITES**

**SPARE PARTS FOR CONSTRUCTION MACHINERY**

| CODE         | ITEM DESCRIPTION                                                       | UNIT  | QTY | COMMENT                                |
|--------------|------------------------------------------------------------------------|-------|-----|----------------------------------------|
| 08-06-00-605 | - SPARE PARTS FOR MAINTENANCE OF SIDE BOOM/CAT. 583,572,571            | ITEM. | 100 | Spare parts for construction equipment |
| 08-06-00-606 | - SPARE PARTS FOR MAINTENANCE OF BULLDOZERS/CAT. D9,D8,D7              | ITEM. | 50  | "                                      |
| 08-06-00-607 | - SPARE PARTS FOR MAINTENANCE OF SHOVELS/LIEBHERR                      | ITEM. | 100 | "                                      |
| 08-06-00-608 | - SPARE PARTS FOR MAINTENANCE OF GRADERS/CAT.                          | ITEM. | 30  | "                                      |
| 08-06-00-609 | - SPARE PARTS FOR MAINTENANCE OF EXCAVATORS LIEBHERR/CASE 9033         | ITEM  | 100 | "                                      |
| 08-06-00-610 | - SPARE PARTS FOR MAINTENANCE OF CRANES, TADANO/P&H LIEBHERR           | ITEM  | 200 | "                                      |
| 08-06-00-611 | - SPARE PARTS FOR MAINTENANCE OF CRC/EVANS EQUIPMENT.                  | ITEM  | 100 | "                                      |
| 08-06-00-612 | - SPARE PARTS FOR MAINTENANCE OF WELDING MACHINES LINCOLN.             | ITEM  | 100 | "                                      |
| 08-06-00-613 | - SPARE PARTS FOR MAINTENANCE OF GENERATORS MUNRADTECH/DETROIT.        | ITEM. | 100 | "                                      |
| 08-06-00-614 | - SPARE PARTS FOR MAINTENANCE OF WATER PUMPS KSB                       | ITEM. | 100 | "                                      |
| 08-06-00-615 | - SPARE PARTS FOR COMPRESSORS/ATLAS COPCO ,AIRMAN.                     | ITEM. | 60  | "                                      |
| 08-06-00-616 | - SPARE PARTS FOR FORK LIFT.S./KOMATSU/YALE                            | ITEM. | 60  | "                                      |
| 08-06-00-617 | - SPARE PARTS FOR HEAVY TRUCKS SCANIA 112H / RENAULT CBH/CLM 280, JE13 | ITEM. | 500 | "                                      |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)**  
**LOCATION: ALL SITES**  
**LIGHT FIELD VEHICLE**

| CODE         | ITEM DESCRIPTION                       | UNIT | QTY | COMMENT                                              |
|--------------|----------------------------------------|------|-----|------------------------------------------------------|
| 08-06-00-618 | DOUBLE CABIN PICK UP                   | NOS. | 40  | Transport for personnel, and small engineering items |
| 08-06-00-619 | STATION WAGON (LAND CRUISE OR SIMILAR) | NOS. | 20  | "                                                    |
| 08-06-00-620 | MINI BUSS 24 PASSENGERS                | NOS. | 10  | "                                                    |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL EXPLORATION COMPANY**  
**LOCATION: ALL AREAS**

| CODE         | ITEM DESCRIPTION                                                                                      | UNIT | QTY | COMMENT                                                                                                              |
|--------------|-------------------------------------------------------------------------------------------------------|------|-----|----------------------------------------------------------------------------------------------------------------------|
|              | 3D SEISMIC ACQUISITION FOR OIL FIELD PRODUCTION, ENHANCEMENT & OPTIMIZATION                           |      |     | Replacement portable seismic recording systems and associated equipment plus special vehicle for marsh land in South |
| 08-06-00-621 | 3D SEISMIC ACQUISITION RECORDING SYSTEM 1200 CHANNEL DUAL SOURCE                                      | NOS. | 2   | "                                                                                                                    |
| 08-06-00-622 | SEISMIC ENERGY SOURCE VIBRATOR PEAK FORCE 75000 LB (32-35.TON)                                        | NOS. | 5   | "                                                                                                                    |
| 08-06-00-623 | DRILLING RIG 150 M DEPTH ON MARSH BUGGY 4 x 4                                                         | NOS. | 2   | "                                                                                                                    |
| 08-06-00-624 | PORTABLE DRILLING RIG 50 M DEPTH                                                                      | NOS. | 2   | "                                                                                                                    |
| 08-06-00-625 | GLOBAL POSITIONING SYSTEM (GPS)                                                                       | NOS. | 1   | "                                                                                                                    |
| 08-06-00-626 | TANKER TRUCK 4 x 4 WITH WIDE MARSH BUGGY TYRE 67 x 34 x 25                                            | NOS. | 1   | "                                                                                                                    |
| 08-06-00-627 | UTILITY TRUCK BODY 4 x 4 WITH WIDE MARSH BUGGY TYRE 67 x 34 x 25 FOR GEOPHONE & CABLES TRANSPORTATION | NOS. | 1   | "                                                                                                                    |
| 08-06-00-628 | HEAVY TRUCK (6 x 6) WITH MOUNTED CRANE 6 TONS                                                         | NOS. | 1   | "                                                                                                                    |
| 08-06-00-629 | LIGHT TRUCK (4 x 4) WITH SMALL CARGO BODY 5 TONS                                                      | NOS. | 3   | "                                                                                                                    |
| 08-06-00-630 | LIGHT FIELD VEHICLE 9-SEATER (4x4)                                                                    | NOS. | 5   | "                                                                                                                    |
| 08-06-00-631 | VHF HAND HELD RADIO 5 WATT (146-174 MHz)                                                              | NOS. | 30  | "                                                                                                                    |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL EXPLORATION COMPANY**  
**LOCATION: BAGHDAD**

| CODE         | ITEM DESCRIPTION                                                                                       | UNIT | QTY | COMMENT                                     |
|--------------|--------------------------------------------------------------------------------------------------------|------|-----|---------------------------------------------|
| 08-06-00-632 | PROCESSING, INTERPRETAION AND GEOLOGICAL APPLICATIONS SOFTWARE PACKAGES                                | SET  | 1   | Specialized geological software             |
| 08-06-00-633 | INTERACTIVE WORK STATIONS WITH SPARES AND CONSUMABLES                                                  | NOS. | 4   | PC terminals                                |
| 08-06-00-634 | PHOTOCOPYING MACHINE A3                                                                                | NOS. | 1   | Replacement items for obsolete equipment    |
| 08-06-00-635 | MAP PHOTOCOPYING MACHINE A0                                                                            | NOS. | 1   | "                                           |
| 08-06-00-636 | REFLECTANCE AND FLOURESCENCE MICROSCOPE                                                                | NOS. | 1   | "                                           |
| 08-06-00-637 | VACUUM PUMP 30 PSI OR 2 KG/CM <sup>2</sup>                                                             | NOS. | 1   | "                                           |
| 08-06-00-638 | ATOMIC ABSORPTION SPECTROMETER FOR ROUTINE & RESEARCH STUDIES WITH DOUBLE BEAM & AUTOMATIC GAS CONTROL | NOS. | 1   | Equipment for physical examination of cores |
| 08-06-00-639 | BACTERIAL ANALYZER                                                                                     | NOS. | 1   | "                                           |
| 08-06-00-640 | RESISTIVITY METER FOR CORES AND WATER                                                                  | NOS. | 1   | "                                           |
| 08-06-00-641 | AUTOMATIC SULPHUR TESTER                                                                               | NOS. | 1   | "                                           |
| 08-06-00-642 | POLARIZING PETROGRAPHIC MICROSCOPE ATTACHED TO A P.C.                                                  | NOS. | 2   | "                                           |
| 08-06-00-643 | MICROFILM / MICROFICHE SCANNER WITH SOFTWARE                                                           | NOS. | 1   | "                                           |
| 08-06-00-644 | POUR POINT MEASURING INSTRUMENT FOR OIL OF RANGE +38 TO BELOW - 40                                     | NOS. | 1   | "                                           |

MINISTRY OF OIL  
ESTABLISHMENT NAME: OIL EXPLORATION COMPANY  
LOCATION: BAGHDAD

| CODE         | ITEM DESCRIPTION                                                                                               | UNIT | QTY | COMMENT                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------|------|-----|--------------------------------------------------------------------------------------------------|
| 08-06-00-645 | ELEMENTAL ANALYZER (C.H.N) WITH CONSUMABLE AND SPARE PARTS                                                     | NOS. | 1   | Replacement laboratory equipment for core analysis for obsolete items all originally from 1970's |
| 08-06-00-646 | CENTRIFUGAL EXTRACTOR FOR EXTRA RAPID EXTRACTION TWO SPEED HEATER                                              | NOS. | 2   | "                                                                                                |
| 08-06-00-647 | HELIUM COMPRESSION POROSIMETER WITH HASSLER CORE HOLDER, REFERENCE CELL                                        | NOS. | 1   | "                                                                                                |
| 08-06-00-648 | PERMEAMETER FOR HIGH AND LOW PERMEABILITIES ACCURACY 0.01 MILLIDARCY                                           | NOS. | 1   | "                                                                                                |
| 08-06-00-649 | PYROLYSIS LAB. MODULE WITH CONSUMABLES AND SPARE PARTS                                                         | NOS. | 1   | "                                                                                                |
| 08-06-00-650 | CAPILLARY PRESSURE MEASUREMENT INSTRUMENT BY MERCURY INJECTION TO HOLD SAMPLES 1½", DIA 3", LONG STANDARD HEAD | NOS. | 1   | "                                                                                                |
| 08-06-00-651 | FORK LIFT DIESEL ENGINE 3 TONS                                                                                 | NOS. | 2   | Replacement item                                                                                 |
| 08-06-00-652 | SEWAGE PUMP                                                                                                    | NOS. | 2   | Housing complex requirements for staff in Baghdad                                                |
| 08-06-00-653 | DRINKING WATER PUMP                                                                                            | NOS. | 2   | "                                                                                                |
| 08-06-00-654 | FIRE FIGHTING PUMP DRIVEN BY DIESEL ENGINE                                                                     | NOS. | 1   | "                                                                                                |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH REFINERIES COMPANY**  
**LOCATION: BAIJI**

| CODE         | ITEM DESCRIPTION                                                                                       | UNIT | QTY   | COMMENT                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------|------|-------|-------------------------------------------------------------------------------------------------------------------------------------|
|              | ACTIVITY NO. ( 16 ) , REPAIR OF A FAULTY BLOWN ASPHALT BAGGING UNIT CONSISTING OF THE FOLLOWING ITEMS: |      |       | Complete project to repair unit destroyed in 1991. Reduces pollution as excess asphalt/fuel oil/slops reinjected into Kirkuk fields |
| 08-06-16-655 | - INSTRUMENTATION AND CONTROL SYSTEM                                                                   | SET  | 250   | "                                                                                                                                   |
| 08-06-16-656 | - COLUMN INTERNALS                                                                                     | SET  | 200   | "                                                                                                                                   |
| 08-06-16-657 | - TUBES, PIPE FITTINGS                                                                                 | NOS. | 2000  | "                                                                                                                                   |
| 08-06-16-658 | - PIPES OF DIFFERENT MATERIALS & SIZES                                                                 | MTR  | 10000 | "                                                                                                                                   |
| 08-06-16-659 | - HEAT. EXCHANGER BUNDLES &- AIR COOLER FIN FAN BUNDLES                                                | SET  | 25    | "                                                                                                                                   |
| 08-06-16-660 | - ROTATING EQUIPMENT (PUMPS, COMPRESSORS, TURBINES) WITH RECOMMENDED SPARES                            | SET  | 100   | "                                                                                                                                   |
|              | ACTIVITY NO. (17) INSTALL ONE ISOMERIZATION UNIT CONSISTING OF THE FOLLOWING ITEMS:                    |      |       | Installation of one isomerisation unit to improve gasoline quality and reduce TEL requirements                                      |
| 08-06-17-661 | - HEAT. EXCHANGER BUNDLES &- AIR COOLER FIN FAN BUNDLES                                                | SET  | 80    | "                                                                                                                                   |
| 08-06-17-662 | - PUMPS WITH RECOMMENDED SPARES                                                                        | SET  | 100   | "                                                                                                                                   |
| 08-06-17-663 | - COMPRESSORS WITH RECOMMENDED SPARES                                                                  | SET  | 50    | "                                                                                                                                   |
|              | - INSTRUMENTATION:                                                                                     |      |       | "                                                                                                                                   |
| 08-06-17-664 | * FIELD INST.                                                                                          | SET  | 100   | "                                                                                                                                   |
| 08-06-17-665 | * CONTROL ROOM INST.                                                                                   | SET  | 200   | "                                                                                                                                   |
| 08-06-17-666 | * COMPUTER FOR PROCESS CONTROL & MONIT.                                                                | SET  | 15    | "                                                                                                                                   |
| 08-06-17-667 | * ANALYTICAL INST.                                                                                     | NOS. | 50    | "                                                                                                                                   |
| 08-06-17-668 | - VESSELS, COLUMNS & DRUMS                                                                             | NOS. | 100   | "                                                                                                                                   |
| 08-06-17-669 | - STEEL STRUCTURES                                                                                     | TON  | 250   | "                                                                                                                                   |
| 08-06-17-670 | - ELECTRICAL EQUIPMENT WITH RECOMMENDED SPARES                                                         | SET  | 150   | "                                                                                                                                   |
| 08-06-17-671 | - WELDING EQUIPMENT AND TOOLS                                                                          | SET  | 15    | "                                                                                                                                   |
| 08-06-17-672 | - WELDING CONSUMABLES                                                                                  | TON  | 25    | "                                                                                                                                   |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH REFINERIES COMPANY**  
**LOCATION: BALJI**

| CODE         | ITEM DESCRIPTION                                                                                                                                      | UNIT | QTY   | COMMENT                                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------------------------------------------------------------------------------------------------|
|              | ACTIVITY NO. ( 18 ) MATERIALS REQUIRED OF THE REVAMP OF THREE. HDS UNITS OF NORTH REFINERY, SAL1 & SAL2 REFINERIES CONSISTING OF THE FOLLOWING ITEMS: |      |       | Complete rebuild of three HDS units to improve middle distillate quality and production efficiency |
| 08-06-18-673 | - REVERSE OSMOSIS UNITS                                                                                                                               | SET  | 2     | "                                                                                                  |
| 08-06-18-674 | - DEMINERIZATION PLANTS REVAMP                                                                                                                        | SET  | 2     | "                                                                                                  |
| 08-06-18-675 | - BOILER SUPER HEATER BUNDLES & ANCILLARIES<br>BOILER OVERHAUL SPARES                                                                                 | SET  | 10    | "                                                                                                  |
| 08-06-18-676 | - COMPLETE ROTATING EQUIPMENT WITH<br>RECOMMENDED SPARES (PUMPS,<br>COMPRESSORS, TURBINE .... ETC)                                                    | SET  | 600   | "                                                                                                  |
| 08-06-18-677 | - CATALYST SUPPORT MEDIA                                                                                                                              | TON  | 50    | "                                                                                                  |
| 08-06-18-678 | - COOLING TOWER PACKING & ANCILLARIES                                                                                                                 | SET  | 10    | "                                                                                                  |
| 08-06-18-679 | - INSTRUMENTATION & CONTROL SYSTEMS                                                                                                                   | SET  | 1000  | "                                                                                                  |
| 08-06-18-680 | - ELECTRICAL EQUIPMENT WITH SPARES                                                                                                                    | SET  | 500   | "                                                                                                  |
| 08-06-18-681 | - CABLES                                                                                                                                              | MTR  | 10000 | "                                                                                                  |
| 08-06-18-682 | - TUBE BUNDLES & FIN - FAN AIR COOLERS                                                                                                                | SET  | 100   | "                                                                                                  |
|              | ACTIVITY NO. ( 19 ) REVAMP OF SULFUR RECOVERY UNIT<br>CONSISTING OF THE FOLLOWING ITEMS:                                                              |      |       | Complete rebuild of sulphur recovery unit removing H2S from gas flows.                             |
| 08-06-19-683 | - MAINTENANCE TOOLS                                                                                                                                   | SET  | 100   | "                                                                                                  |
| 08-06-19-684 | - AIR CONDITION SETS WITH RECOMMENDED SPARES                                                                                                          | SET  | 50    | "                                                                                                  |
| 08-06-19-685 | - BEARINGS                                                                                                                                            | SET  | 500   | "                                                                                                  |
| 08-06-19-686 | - ELECTRICAL EQUIPMENT WITH RECOMMENDED<br>SPARES                                                                                                     | SET  | 500   | "                                                                                                  |
| 08-06-19-687 | - GASKETS, VALVES, V- BELTS, BOLTS & NUTS                                                                                                             | SET  | 1000  | "                                                                                                  |
| 08-06-19-688 | - TUBES, PIPE FITTINGS                                                                                                                                | SET  | 500   | "                                                                                                  |
| 08-06-19-689 | - PIPES OF DIFFERENT MATERIALS & SIZES                                                                                                                | MTR  | 10000 | "                                                                                                  |
| 08-06-19-690 | - INSTRUMENTATION & CONTROL SYSTEMS                                                                                                                   | SET  | 500   | "                                                                                                  |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH REFINERIES COMPANY**  
**LOCATION: BALJI**

| CODE         | ITEM DESCRIPTION                                       | UNIT | QTY  | COMMENT                                       |
|--------------|--------------------------------------------------------|------|------|-----------------------------------------------|
|              | SAFETY, FIRE FIGHTING TRUCKS & EQUIPMENT:              |      |      | Fire fighting and safety equipment            |
| 08-06-00-691 | -FIRE FIGHTING VEHICLES WITH RECOMMENDED SPARES        | NOS. | 3    | "                                             |
| 08-06-00-692 | -OIL SLICK ABATEMENT EQUIPMENT WITH RECOMMENDED SPARES | SET  | 2    | "                                             |
| 08-06-00-693 | -PERSONNEL GARMENTS, FOOTWEAR & TOOLS                  | SET  | 1000 | "                                             |
|              | HEAVY EQUIPMENT WITH RECOMMENDED SPARES:               |      |      |                                               |
| 08-06-00-694 | -MOBILE AIR COMPRESSORS WITH RECOMMENDED SPARES        | NOS. | 6    | Equipment for use within the refinery complex |
| 08-06-00-695 | -CRANES                                                | NOS. | 2    | "                                             |
| 08-06-00-696 | -FORKLIFTS                                             | NOS. | 4    | "                                             |
| 08-06-00-697 | -TRUCKS                                                | NOS. | 6    | "                                             |
| 08-06-00-698 | -DUMP TRUCKS                                           | NOS. | 4    | "                                             |
| 08-06-00-699 | -LORRIES                                               | NOS. | 6    | "                                             |
| 08-06-00-700 | -VACUUM TRUCKS                                         | NOS. | 4    | "                                             |
| 08-06-00-701 | -AMBULANCES                                            | NOS. | 3    | "                                             |
| 08-06-00-702 | -40- SEATS BUSES, MINI BUSES & VANS                    | NOS. | 25   | "                                             |
| 08-06-00-703 | -SHOVELS                                               | NOS. | 2    | "                                             |
| 08-06-00-704 | -BULLDOZER                                             | NOS. | 1    | "                                             |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: NORTH REFINERIES COMPANY**  
**LOCATION: BAIJI**

| CODE         | ITEM DESCRIPTION                                                                                   | UNIT | QTY  | COMMENT                                                                                                                                                                             |
|--------------|----------------------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | CTIVITY NO. (20) LUBE OIL COMPLEX REVAMP<br>OMPRISING:                                             | LOT  | 1    | Complete rebuild of one lube oil plant<br>train (destroyed in 1991) by new parts<br>and cannibalization of second train to<br>produce 125,000 tons per annum of<br>quality lube oil |
| 08-06-20-705 | - COMPLETE CHILLERS WITH RECOMMENDED SPARES                                                        | SET  | 100  | "                                                                                                                                                                                   |
| 08-06-20-706 | - ELMCO FILTERS WITH RECOMMENDED SPARES                                                            | SET  | 500  | "                                                                                                                                                                                   |
| 08-06-20-707 | - ROTARY EQUIPMENT ( PUMPS, COMPRESSORS AND<br>TURBINES) WITH RECOMMENDED SPARES                   | SET  | 300  | "                                                                                                                                                                                   |
|              | - INSTRUMENTATION:                                                                                 |      |      | "                                                                                                                                                                                   |
| 08-06-20-708 | * FIELD INSTRUMENTS                                                                                | SET  | 500  | "                                                                                                                                                                                   |
| 08-06-20-709 | * CONTROL ROOM INSTRUMENTS                                                                         | SET  | 500  | "                                                                                                                                                                                   |
| 08-06-20-710 | * PROCESS CONTROL COMPUTER & MONITORS                                                              | SET  | 20   | "                                                                                                                                                                                   |
| 08-06-20-711 | * ANALYTICAL INSTRUMENTS                                                                           | SET  | 50   | "                                                                                                                                                                                   |
| 08-06-20-712 | - ELECTRICAL EQUIPMENT WITH RECOMMENDED<br>SPARES                                                  | SET  | 500  | "                                                                                                                                                                                   |
| 08-06-20-713 | - COOLING TOWER PACKINGS & ANCILLARIES                                                             | SET  | 4    | "                                                                                                                                                                                   |
| 08-06-20-714 | - TUBE BUNDLES & FIN - FAN AIR COOLERS                                                             | SET  | 100  | "                                                                                                                                                                                   |
| 08-06-20-715 | - COLUMNS & INTERNALS                                                                              | SET  | 10   | "                                                                                                                                                                                   |
| 08-06-20-716 | - HEATERS & ANCILLARIES                                                                            | SET  | 5    | "                                                                                                                                                                                   |
| 08-06-20-717 | - TOTAL UNITS INTEGRATED PIPING NETWORKS<br>OFFSITE EQUIPMENT & MATERIALS COMPRISING:              | SET  | 25   | "                                                                                                                                                                                   |
| 08-06-20-718 | - COMPLETE ROTATING EQUIPMENT WITH<br>RECOMMENDED SPARES ( PUMPS,<br>COMPRESSORS,TURBINE .... ETC) | SET  | 900  | Offsite equipment repairs                                                                                                                                                           |
|              | - INSTRUMENTATION:                                                                                 |      |      |                                                                                                                                                                                     |
| 08-06-20-719 | * MEASURING & CONTROL INSTRUMENTS WITH<br>RECOMMENDED SPARES                                       | SET  | 1000 | Process control equipment for<br>refinery operations                                                                                                                                |
| 08-06-20-720 | * THERMOCOUPLE & CONTROL CABLES                                                                    | MTR  | 7000 | "                                                                                                                                                                                   |
| 08-06-20-721 | - ELECTRICALS EQUIPMENT WITH RECOMMENDED<br>SPARES                                                 | SET  | 300  | "                                                                                                                                                                                   |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: MIDLAND REFINERIES**  
**LOCATION: DAURA REFINERY**

| CODE         | ITEM DESCRIPTION                                                                                                                                                        | UNIT  | QTY   | COMMENT                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------------------------------------------------------------------------------------------------------|
|              | ACTIVITY NO. (21), INCREASING FURNACES AND BOILERS EFFICIENCY:                                                                                                          |       |       |                                                                                                          |
| 08-06-21-722 | -CONTRACT TO CARRY OUT SITE SURVEY TO DETERMINE THE PRESENT STATE OF BOILERS AND FURNACES EFFICIENCY, AND TO DETERMINE THE REQUIRED EQUIP. TO INCREASE THEIR EFFICIENCY | CONT. | 1     | External survey to investigate efficiency of 42 refinery boilers to advise and recommend a scope of work |
| 08-06-21-723 | -SUPPLY, THE REQUIRED EQUIP., TO INCREASE BOILERS AND FURNACES EFFICIENCY, INSTALL OPERATE.                                                                             | CONT. | 1     | Contract to carry out the scope of work as recommended above                                             |
| 08-06-00-724 | COMPLETE LIQUID WASTE INCINERATORS & ACCESSORIES WITH SUPERVISION AND INSTALLATION TO REDUCE ENVIRONMENTAL POLLUTION WITH RECOMMENDED SPARES.                           | SET   | 3     | Incinerator units to control liquid waste                                                                |
| 08-06-00-725 | CRUDE OIL DESALTERS & ACCESSORIES WITH RECOMMENDED SPARES                                                                                                               | SET   | 8     | Replacement desalter unit to treat incoming crude which is ten times over operational limits             |
|              | SAFETY, FIRE FIGHTING TRUCKS & EQUIPMENT :                                                                                                                              |       |       |                                                                                                          |
| 08-06-00-726 | - FIRE FIGHTING ACCESSORIES,GLOVES                                                                                                                                      | NOS.  | 2000  | Safety and fire fighting equipment                                                                       |
| 08-06-00-727 | - TOOLS, FIREMEN SUITS, FOOT WEARS                                                                                                                                      | SET   | 500   | "                                                                                                        |
| 08-06-00-728 | - HOSES                                                                                                                                                                 | MTR   | 4000  | "                                                                                                        |
| 08-06-00-729 | - FIRE FIGHTING VEHICLES WITH RECOM. SPARES                                                                                                                             | NOS.  | 3     | "                                                                                                        |
| 08-06-00-730 | - FIXED & MOBILE DIESEL DRIVEN FIRE FIGHTING PUMPS WITH RECOMMENDED SPARES                                                                                              | NOS.  | 4     | "                                                                                                        |
| 08-06-00-731 | - FIXED FIRE WATER PUMPS WITH MOTORS OR STEAM TURBINES WITH RECOMMENDED SPARES                                                                                          | NOS.  | 4     | "                                                                                                        |
|              | PIPES, FITTINGS, GASKETS .... ETC AS FOLLOWING:                                                                                                                         |       |       |                                                                                                          |
| 08-06-00-732 | - GALVANIZED PIPES                                                                                                                                                      | MTR   | 15000 | Repair and maintenance of machinery                                                                      |
| 08-06-00-733 | - FITTINGS, VALVES, GASKETS, FLARING FITTINGS                                                                                                                           | NOS.  | 50000 | "                                                                                                        |
| 08-06-00-734 | - WELDING ELECTRODES                                                                                                                                                    | TON   | 10    | "                                                                                                        |
| 08-06-00-735 | - GASKET SHEETS                                                                                                                                                         | SHEET | 1000  | "                                                                                                        |
| 08-06-00-736 | - HEAT EXCHANGER GASKETS                                                                                                                                                | SET   | 200   | "                                                                                                        |
| 08-06-00-737 | REPAIR OF STEAM TURBINE AND GAS COMPR. ROTOR, REPAIRING ACTIVITIES EITHER ON SITE OR ABROAD                                                                             | NOS.  | 2     | To repair two units which may require, after examination, out of country expertise                       |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: MIDLAND REFINERIES**  
**LOCATION: DAURA REFINERY**

| CODE         | ITEM DESCRIPTION                                                                                                                                                          | UNIT  | QTY   | COMMENT                                                                     |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-----------------------------------------------------------------------------|
|              | ROTATING MACHINES WITH SPARES:                                                                                                                                            |       |       |                                                                             |
| 08-06-00-738 | - PUMPS COMPLETE WITH MOTORS OR WITH STEAM TURBINE, FANS WITH MOTORS, WITH RECOMMENDED SPARES                                                                             | SET   | 50    | General refinery maintenance                                                |
| 08-06-00-739 | - SPARES FOR EXISTING EQUIPMENT                                                                                                                                           | NOS.  | 3000  | "                                                                           |
| 08-06-00-740 | - MECHANICAL SEALS, WITH RECOMMENDED SPARES                                                                                                                               | NOS.  | 200   | "                                                                           |
|              | MAINTENANCE MOBILE EQUIPMENT & TOOLS WITH RECOMMENDED SPARES :-                                                                                                           |       |       |                                                                             |
| 08-06-00-741 | - CRANE 50 TONS                                                                                                                                                           | NOS.  | 1     | General maintenance equipment for mobile machinery (cranes, fork lifts etc) |
| 08-06-00-742 | -DRUM SQUEEZERS                                                                                                                                                           | NOS.  | 5     | "                                                                           |
| 08-06-00-743 | - RELAMPING TRUCK                                                                                                                                                         | NOS.  | 1     | "                                                                           |
| 08-06-00-744 | - HOT TAPPING MACHINE                                                                                                                                                     | SET   | 1     | "                                                                           |
| 08-06-00-745 | - DESLUDGING TRUCK                                                                                                                                                        | NOS.  | 1     | "                                                                           |
| 08-06-00-746 | - INDUSTRIAL WATER TANKERS(VAC.)                                                                                                                                          | NOS.  | 2     | "                                                                           |
| 08-06-00-747 | - GENERAL MAINTENANCE TOOLS& EQUIPMENT                                                                                                                                    | NOS.  | 1000  | "                                                                           |
| 08-06-00-748 | -SPARES FOR EXISTING EQUIP.                                                                                                                                               | NOS.  | 5000  | "                                                                           |
|              | GENERAL ELECTRICAL MATERIALS:                                                                                                                                             |       |       |                                                                             |
| 08-06-00-749 | - CABLE JOINTING KITS                                                                                                                                                     | KIT   | 1200  | General repairs to electrical equipment                                     |
| 08-06-00-750 | - TAPES                                                                                                                                                                   | ROLLS | 2000  | "                                                                           |
| 08-06-00-751 | - MOTOR REWINDING WIRES                                                                                                                                                   | KG    | 12000 | "                                                                           |
| 08-06-00-752 | - MEASURING DEVICES FOR CATHODIC PROTEC.                                                                                                                                  | SET   | 50    | "                                                                           |
| 08-06-00-753 | SPARES FOR EXISTING INSTRUMENTS,COMPLETE CONTROLVALVES,TRANSMITTERS,RECPRESSURE SWITCHES, THERMOMETERS, PRESSURE GAUGES, TEMP.SWITCHES, LEVEL SWITCHES, LEVEL INDICATORS. | NOS.  | 3000  | Repairs to refinery instrumentation                                         |
| 08-06-00-754 | EMERGENCY GENERATOR (4 MW) CAPACITY COMPLETE WITH ACCESSORIES, SUPERVISION,AND INSTALLATION                                                                               | SET   | 1     | Back-up electricity supply                                                  |

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**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: MIDLAND REFINERIES**  
**LOCATION: DAURA REFINERY**

| CODE         | ITEM DESCRIPTION                                                                                    | UNIT | QTY   | COMMENT                                                       |
|--------------|-----------------------------------------------------------------------------------------------------|------|-------|---------------------------------------------------------------|
|              | WATER TREATMENT EQUIPMENT:                                                                          |      |       |                                                               |
| 08-06-00-755 | - CLARIFIERS WITH CAPACITY OF 1000 M <sup>3</sup> /H EACH WITH ALL ACCESSORIES & RECOMMENDED SPARES | SET  | 4     | Equipment to improve quality of run-off water from refinery   |
| 08-06-00-756 | - DUAL MEDIA FILTERS WITH ALL ACCESSORIES & RECOMMENDED SPARES                                      | SET  | 10    | "                                                             |
| 08-06-00-757 | - PIPES                                                                                             | MTR  | 20000 | "                                                             |
| 08-06-00-758 | - CABLES                                                                                            | MTR  | 10000 | "                                                             |
| 08-06-00-759 | COMPLETE HYDROGEN & PROPANE COMPRESSORS WITH RECOMMENDED SPARES                                     | SET  | 10    | Repair and maintenance                                        |
| 08-06-00-760 | SPARES FOR EXISTING WATER TREATMENT UNIT (IONICS-EDR).                                              | NOS. | 5000  | Further spares for Ionics unit not ordered in previous phases |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH REFINERIES CO.SC.**  
**LOCATION: BASRAH**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                                                                                                                          | UNIT | QTY | COMMENT                                                                                                                                                                |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08-06-00-761 | MATERIALS REQUIRED FOR THE REVAMPING OF L.G.O DESULFURIZATION UNIT TO ISOMERIZATION UNIT OR INSTALLING ANEW ISOMERIZATION UNIT. CONSISTING OF THE FOLLOWING ITEMS (CATALYST, PUMPS, COMPRESSORS, INSTRUMENTS, PIPES, TOWERS, ELECTRICALS, AND OTHER MISC. ITEMS), WITH RECOMMENDED SPARES | LOT  | 1   | Application to either convert LGO desulphurisation unit to an isomerisation unit, or if not feasible to install new isomerisation unit to increase quality of gasoline |
| 08-06-00-762 | STEAM BOILER CAPACITY 150 TON/HRS WITH RECOMMENDED SPARES                                                                                                                                                                                                                                 | SET  | 1   | Complete renewal of non-functioning unit                                                                                                                               |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME:NORTHERN GAS INDUSTRY**  
**LOCATION:KIRKUK**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                                                                   | UNIT | QTY  | COMMENT                                                                                              |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------------------------------------------------------------------------------------------------|
| 08-06-00-763 | AMINE UNIT PUMPS WITH SPARES                                                                                                                                                                                                       | SET  | 5    | Units to improve quality of fuel gas and reduce H2S in one train only                                |
| 08-06-00-764 | SPARES FOR THE EXISTING AMINE UNIT PUMPS                                                                                                                                                                                           | NOS. | 1500 | "                                                                                                    |
| 08-06-00-765 | MATERIALS REQUIRED FOR THE REPAIR OF FAULTY SULFUR PRODUCTION UNITS. (FOUR UNITS) CONSISTING OF THE FOLLOWING ITEMS (PUMPS, PIPES, INSTRUMENTS, ELECTRICALS, FITTINGS, BUNDLES , AND OTHER MISC. ITEMS.). WITH RECOMMENDED SPARES. | NOS. | 5000 | Repair of faulty sulphur units for environmental reasons                                             |
| 08-06-00-766 | MATERIALS REQUIRED FOR THE REPAIR OF FAULTY SULFUR CRUSHING UNITS. ( SIX UNITS) ) CONSISTING OF THE FOLLOWING ITEMS (PUMPS, PIPES, INSTRUMENTS, ELECTRICALS, FITTINGS AND OTHER MISC. ITEMS.). WITH RECOMMENDED SPARES.            | NOS. | 5000 | "                                                                                                    |
| 08-06-00-767 | SAFETY EQUIPMENT WITH RECOMMENDED SPARES                                                                                                                                                                                           | NOS. | 200  | Equipment and spares to monitor gases in the field, with spare parts for existing units              |
| 08-06-00-768 | EQUIPMENT FOR INDUSTRIAL WATER TREATMENT AND STEAM GENERATION WITH RECOMMENDED SPARES                                                                                                                                              | NOS. | 2500 | Equipment to increase efficiency of plants (clarifiers, ionic towers) plus necessary instrumentation |
| 08-06-00-769 | ROTARY MACHINES WITH RECOMMENDED SPARES (PUMPS, COMPRESSORS, FANS .... ETC)                                                                                                                                                        | SET  | 100  | Repair and maintenance, and new pumps and compressors                                                |
| 08-06-00-770 | SPARES FOR EXISTING ROTARY MACHINES                                                                                                                                                                                                | NOS. | 2500 | "                                                                                                    |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME:NORTHERN GAS INDUSTRY**  
**LOCATION:KIRKUK**

| CODE         | ITEM DESCRIPTION                                                                  | UNIT | QTY   | COMMENT                                                                     |
|--------------|-----------------------------------------------------------------------------------|------|-------|-----------------------------------------------------------------------------|
| 08-06-00-771 | GAS METERING & CONTROL INSTRUMENTS WITH RECOMMENDED SPARES                        | NOS. | 1000  | Gas metering and associated metering systems                                |
| 08-06-00-772 | PIPES & TUBES FOR HEAT EXCHANGER & BOILERS                                        | NOS. | 40000 | Repair and maintenance of existing boilers                                  |
| 08-06-00-773 | INSTRUMENTS FOR ENVIRONMENTAL PROTECTION ANALYTIC DEVICES WITH RECOMMENDED SPARES | SET  | 100   | Portable testing equipment (pH meters, chromatographs, AA's, BOD/COD tests) |
| 08-06-00-774 | MISC. ELECTRICAL EQUIPMENT WITH RECOMMENDED SPARES                                | NOS. | 300   | UPS, motors, circuit breakers etc                                           |
| 08-06-00-775 | ELECTRICAL CABLES VARIOUS SIZES                                                   | MTR  | 10000 | Cabling for repairs                                                         |
| 08-06-00-776 | ENGINEERING SURVEY & INSPECTION INSTRUMENTATION WITH RECOMMENDED SPARES           | SET  | 10    | Portable instruments for hardness and thickness testing                     |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH GAS CO.SC.**  
**LOCATION: BASRAH**

| <b>CODE</b>         | <b>ITEM DESCRIPTION</b>                                                                                                                                                                                                                                                                            | <b>UNIT</b> | <b>QTY</b> | <b>COMMENT</b>                                                                                             |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|------------------------------------------------------------------------------------------------------------|
| <b>08-06-00-777</b> | MATERIALS REQUIRED FOR THE REHABILITATION OF KHOR-ZUBAIR NGL PLANT. CONSISTING OF THE FOLLOWING ITEMS (ROTATING MACHINES, TURBINES, PUMPS, GEARS, FILTERS, FANS, COMPRESSORS, CABLES, PIPES, FITTINGS, INSTRUMENTS, ELECTRICALS AND OTHER MISC.ITEMS). WITH SPARES.                                | LOT         | 1          | Spares for NGL plant, which is currently partly cannibalized, to treat increased production the SOC region |
| <b>08-06-00-778</b> | MATERIALS REQUIRED FOR THE REHABILITATION OF KHOR-ZUBAIR LPG PLANT, CONSISTING OF THE FOLLOWING ITEMS (ROTATING MACHINES, TURBINES, PUMPS, GEARS, FILTERS, FANS, COMPRESSORS, CABLES, PIPES, FITTINGS, INSTRUMENTS, ELECTRICALS, AND OTHER MISC.ITEMS). WITH SPARES.                               | LOT         | 1          | Spares for PLG plant, which is currently partly cannibalized, to treat increased production the SOC region |
| <b>08-06-00-779</b> | MATERIALS REQUIRED FOR THE REHABILITATION OF NORTH - RUMAILA SOUR GASES TREATMENT UNITS, ONE UNIT CONSISTING OF THE FOLLOWING ITEMS (ROTATING MACHINES, TURBINES, PUMPS, GEARS, FILTERS, FANS, COMPRESSORS, CABLES, PIPES, FITTINGS, INSTRUMENTS, ELECTRICALS, AND OTHER MISC.ITEMS). WITH SPARES. | LOT         | 1          | Spares for repair of H2S extraction plant; gas is currently being burnt with serious pollution effects     |
| <b>08-06-00-780</b> | EQUIPMENT & SPARES FOR NORTH - RUMAILA NGL PLANT CONSISTING OF THE FOLLOWING ITEMS (ROTATING MACHINES, TURBINES, PUMPS, GEARS, FILTERS, FANS, COMPRESSORS, CABLES, PIPES, FITTINGS, INSTRUMENTS, ELECTRICALS, AND OTHER MISC.ITEMS). WITH SPARES.                                                  | LOT         | 1          | Spares for existing NGL train. This plant has not had any spare parts for 11 years                         |
| <b>08-06-00-781</b> | MAINTENANCE EQUIPMENT (WORKSHOP EQUIPMENT, VIBRATION BALANCE, TOOLS, AND OTHER MISC.ITEMS). WITH SPARES.                                                                                                                                                                                           | NOS.        | 60         | Equipment required for above works                                                                         |
| <b>08-06-00-782</b> | SPARES FOR GAS FLARES                                                                                                                                                                                                                                                                              | NOS.        | 20         | To replace damaged flare tips                                                                              |
| <b>08-06-00-783</b> | PIPES VARIOUS SIZES                                                                                                                                                                                                                                                                                | MTR         | 1000       | General repair requirements                                                                                |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: SOUTH GAS CO.S.C.**  
**LOCATION: BASRAH**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                | UNIT  | QTY  | COMMENT                                                  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------------------------------------------------------|
|              | SAFETY, FIRE FIGHTING TRUCKS & EQUIPMENT:                                                                                                                                       |       |      |                                                          |
| 08-06-00-784 | -PERSONAL'S SAFETY ACC. & TOOLS                                                                                                                                                 | SET   | 2000 | Safety and fire fighting equipment, and gas detection    |
| 08-06-00-785 | -SAFETY EQUIPMENT WITH RECOMMENDED SPARES                                                                                                                                       | NOS.  | 2000 | "                                                        |
| 08-06-00-786 | -FIRE FIGHTING VEHICLES WITH RECOMMENDED SPARES                                                                                                                                 | NOS.  | 2    | "                                                        |
| 08-06-00-787 | -FIRE ALARM SYSTEMS WITH RECOMMENDED SPARES                                                                                                                                     | NOS.  | 2    | "                                                        |
| 08-06-00-788 | WATER TREATMENT PLANT ( R.O) COMPLETE WITH RECOMMENDED SPARES.                                                                                                                  | UNIT  | 1    | To supply potable water to staff                         |
| 08-06-00-789 | NITROGEN PLANTS COMPLETE WITH SPARES. (TWO) UNITS                                                                                                                               | UNITS | 2    | For N2 purging                                           |
| 08-06-00-790 | WATER SUPPLY PROJECT, CONSISTING OF THE FOLLOWING ITEMS (PIPES, MOTORS, PUMPS, ELECTRICAL EQUIPMENT, INSTRUMENTS, WELDING RODS, AND OTHER MISC. ITEMS). WITH RECOMMENDED SPARES | LOT   | 1    | Fresh water distribution system for NGL/LPG plants.      |
|              | HEAVY EQUIPMENT WITH RECOMMENDED SPARES :                                                                                                                                       |       |      |                                                          |
| 08-06-00-791 | - CRANE CAPACITY 150 TONS                                                                                                                                                       | NOS.  | 1    | Heavy equipment requirements for local operations        |
| 08-06-00-792 | -LORRIES CAPACITY 12 TONS                                                                                                                                                       | NOS.  | 5    | "                                                        |
| 08-06-00-793 | -TRAILER CAPACITY 30 TONS                                                                                                                                                       | NOS.  | 1    | "                                                        |
| 08-06-00-794 | - FORKLIFTS CAPACITY 10,5,3,2. TONS                                                                                                                                             | NOS.  | 5    | "                                                        |
| 08-06-00-795 | GAS FILTERING SYSTEM WITH RECOMMENDED SPARES                                                                                                                                    | NOS.  | 1    | Filters to prevent damage to molecular sieves and valves |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: GAS FILLING CO.**  
**LOCATION: LPG FILLING PLANTS-VARIOUS LOCATIONS**

| CODE         | ITEM DESCRIPTION                                           | UNIT | QTY     | COMMENT                                                           |
|--------------|------------------------------------------------------------|------|---------|-------------------------------------------------------------------|
|              | LPG-Cylinders Valves & Their Spare Parts:                  |      |         |                                                                   |
| 08-06-00-796 | Complete Valve.                                            | NOS. | 700 000 | To replace damaged valves on old cylinders, and for new cylinders |
| 08-06-00-797 | Upper Parts.Of Valve                                       | NOS. | 200 000 | Replacements for leaking valves                                   |
|              | LPG Filling Heads & their Spare Parts:                     |      |         |                                                                   |
| 08-06-00-798 | Complete Filling Head                                      | NOS. | 800     | For filling and bottling plants                                   |
| 08-06-00-799 | Spare Parts for Filling Head.                              | NOS. | 20000   | "                                                                 |
|              | Steel Plate for LPG Cylinders:                             |      |         |                                                                   |
| 08-06-00-800 | Body.                                                      | TON  | 500     | For new cylinders                                                 |
| 08-06-00-801 | Base Ring.                                                 | TON  | 1000    | To repair old cylinders                                           |
| 08-06-00-802 | Guard Ring.                                                | TON  | 1000    | "                                                                 |
|              | Consumable Materials for the production of LPG Cylinders:  |      |         |                                                                   |
| 08-06-00-803 | Cut Steel Wire Shot.                                       | TON  | 75      | Items required for local maintenance of gas cylinders             |
| 08-06-00-804 | Welding Wire E6013                                         | TON  | 100     | "                                                                 |
| 08-06-00-805 | Greasing & Degreasing Agents.                              | TON  | 2       | "                                                                 |
| 08-06-00-806 | Dies for the maintenance of LPG Cylinders.                 | NOS. | 5       | "                                                                 |
| 08-06-00-807 | Spare Parts for Dies for the maintenance of LPG Cylinders. | NOS. | 40      | "                                                                 |
| 08-06-00-808 | Spare Parts for LPG Cylinders Manufacturing Plant.         | NOS. | 250     | "                                                                 |
| 08-06-00-809 | Strip Feeder for blank cutting machine.                    | NOS. | 1       | "                                                                 |
| 08-06-00-810 | Pneumatic chisels.                                         | NOS. | 10      | "                                                                 |
| 08-06-00-811 | Valve Screwing Machines                                    | NOS. | 6       | "                                                                 |
| 08-06-00-812 | Washing Plant for cleaning LPG Cylinders Components.       | NOS. | 1       | "                                                                 |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: GAS FILLING CO**  
**LOCATION: LPG FILLING PLANTS-VARIOUS LOCATIONS**

| CODE         | ITEM DESCRIPTION                                                                               | UNIT | QTY    |                                                          |
|--------------|------------------------------------------------------------------------------------------------|------|--------|----------------------------------------------------------|
| 08-06-00-813 | Production Lines for the manufacture of LPG Cylinders Base Rings & Guard Rings.                | SET  | 1      | "                                                        |
| 08-06-00-814 | Painting Units for LPG Cylinders .                                                             | NOS. | 5      | "                                                        |
| 08-06-00-815 | Shot Blasting machines for LPG Cylinders                                                       | NOS. | 5      | "                                                        |
| 08-06-00-816 | Mechanical & Pneumatic Manipulators for Welding of Base Rings & Guard Rings on LPG Cylinders . | NOS. | 30     | "                                                        |
| 08-06-00-817 | Mechanical Manipulators for Cutting Base Rings from damaged LPG Cylinders .                    | NOS. | 10     | "                                                        |
| 08-06-00-818 | Machines for Welding of LPG Cylinders Consisting of:<br>Cutting & Beading Machines.            | NOS. | 1      | Machinery and plate to manufacture 500 cylinders a day   |
| 08-06-00-819 | Valve neck Welding Machine                                                                     | NOS. | 1      | "                                                        |
| 08-06-00-820 | Middle Seam Welding Machine.                                                                   | NOS. | 1      | "                                                        |
| 08-06-00-821 | CO <sub>2</sub> Welding Machine.                                                               | NOS. | 3      | "                                                        |
| 08-06-00-822 | Plate for Manufacturing of LPG Tanks Cap. 50 Tons.                                             | TON  | 500    | "                                                        |
| 08-06-00-823 | Accessories For LPG Tanks                                                                      | NOS. | 200    | "                                                        |
| 08-06-00-824 | LPG Cylinder Evacuation Unit                                                                   | NOS. | 5      | "                                                        |
| 08-06-00-825 | LPG Cylinders With Valves                                                                      | NOS. | 500000 | New cylinders (local manufactured cannot support demand) |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: GAS FILLING CO.**  
**LOCATION: LPG FILLING PLANTS-VARIOUS LOCATIONS**

| CODE         | ITEM DESCRIPTION                                                                | UNIT        | QTY       | COMMENT                                                      |
|--------------|---------------------------------------------------------------------------------|-------------|-----------|--------------------------------------------------------------|
| 08-06-00-826 | Complete Automatic Filling Line for LPG Cylinder                                | NOS.        | 6         | Replacement machinery and equipment for local filling plants |
| 08-06-00-827 | Miscellaneous Spare Parts for Filling Plants                                    | NOS.        | 16000     | "                                                            |
| 08-06-00-828 | Chain Conveyors For Filling Plants                                              | MTR.        | 6000      | "                                                            |
| 08-06-00-829 | Pipes Size (1" - 8")                                                            | MTR.        | 18000     | "                                                            |
| 08-06-00-830 | Fittings Sizes (1" - 8)                                                         | NOS.        | 1100      | "                                                            |
| 08-06-00-831 | Valves Size (3" - 4")                                                           | NOS.        | 50        | "                                                            |
| 08-06-00-832 | Steam Trap                                                                      | NOS.        | 5         | "                                                            |
| 08-06-00-833 | Pneumatic Tools for Maintenance of Heat Exchangers for Filling Plants           | NOS.        | 650       | "                                                            |
|              | <b>Weighing Equipment:</b>                                                      |             |           |                                                              |
| 08-06-00-834 | Weighing Bridge Cap. 80000 Kg. For LPG Trucks                                   | NOS.        | 3         | Required to weigh lorries for road distribution              |
| 08-06-00-835 | Heavy Duty Mechanical weighing Scale Cap. 200 Kg Grading 50 g for LPG Cylinders | NOS.        | 50        | For cylinder check weightment                                |
| 08-06-00-836 | Instruments & Spares                                                            | NOS.<br>SET | 150<br>40 | Gauges and meters<br>Spares for same                         |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: GAS FILLING CO.**  
**LOCATION: LPG FILLING PLANTS-VARIOUS LOCATIONS**

| CODE         | ITEM DESCRIPTION                                               | UNIT     | QTY          | COMMENT                                                |
|--------------|----------------------------------------------------------------|----------|--------------|--------------------------------------------------------|
|              | <b>ROTATING MACHINERY, TRANSPORTATION &amp; ACCESSORIES:</b>   |          |              |                                                        |
| 08-06-00-837 | LPG Compressors                                                | NOS.     | 5            | Replacement of existing plant and additional equipment |
| 08-06-00-838 | Air compressors.                                               | NOS.     | 30           | "                                                      |
| 08-06-00-839 | Dryers.                                                        | NOS.     | 25           | "                                                      |
| 08-06-00-840 | LPG Pumps.                                                     | NOS.     | 10           | "                                                      |
| 08-06-00-841 | Fire Fighting Pumps ( Electrical & Diesel )                    | NOS.     | 20           | "                                                      |
| 08-06-00-842 | Hydrostatic Test Pump .                                        | NOS.     | 5            | "                                                      |
| 08-06-00-843 | Spare Parts for Rotating Machines.                             | NOS. SET | 8000<br>2000 | "                                                      |
| 08-06-00-844 | Alignment Tools for Pumps.                                     | SET      | 5            | "                                                      |
| 08-06-00-845 | Welding Machine (500 – 600 ) amp. & Spare parts.               | NOS.     | 40           | "                                                      |
| 08-06-00-846 | Long Cargo Truck Capacity (15 ) TON.                           | NOS.     | 4            | "                                                      |
| 08-06-00-847 | Truck – Mounted Aerial Lifts.                                  | NOS.     | 1            | "                                                      |
| 08-06-00-848 | Fire fighting Truck                                            | NOS.     | 6            | "                                                      |
| 08-06-00-849 | Aerial Platform Van Type                                       | NOS.     | 1            | "                                                      |
| 08-06-00-850 | Crane Cap. 50 TON                                              | NOS.     | 1            | "                                                      |
| 08-06-00-851 | Pick-up Double Cab. & Land Cruisers                            | NOS.     | 50           | "                                                      |
| 08-06-00-852 | Tank Truck (8000 – 10000 ) lit. For transporting sewage water. | NOS.     | 1            | "                                                      |
| 08-06-00-853 | Winch Crane ( 50 ) TON                                         | NOS.     | 1            | "                                                      |
| 08-06-00-854 | Mobile Workshop for fire equipment maintenance.                | NOS.     | 1            | "                                                      |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: GAS FILLING CO.**  
**LOCATION: LPG FILLING PLANTS-VARIOUS LOCATIONS**

| CODE         | ITEM DESCRIPTION                                                                                                                 | UNIT | QTY   | COMMENT                                                                                                         |
|--------------|----------------------------------------------------------------------------------------------------------------------------------|------|-------|-----------------------------------------------------------------------------------------------------------------|
|              | Communication Systems:                                                                                                           |      |       |                                                                                                                 |
| 08-06-00-855 | Communication System Center Unit and Secondary Unit With their Spare Parts.                                                      | SET  | 10    | Further communication equipment required as the Gas Filling Co has now been given further geographical coverage |
| 08-06-00-856 | Explosion Proof Telephone Sets                                                                                                   | NOS. | 70    | "                                                                                                               |
| 08-06-00-857 | Spare Parts For Telephone & Wireless Communication Sets                                                                          | NOS. | 900   | "                                                                                                               |
| 08-06-00-858 | Electrical Equipment and Spare Parts for LPG Plants:                                                                             |      |       |                                                                                                                 |
|              | Electric Lighting and Fittings.                                                                                                  | NOS. | 8000  | Control equipment maintenance                                                                                   |
| 08-06-00-859 | Electric Generators with Spares.                                                                                                 | NOS. | 10    | "                                                                                                               |
| 08-06-00-860 | Explosion Proof Electric Equipment.                                                                                              | NOS. | 2000  | "                                                                                                               |
| 08-06-00-861 | Electric Controlling Equipment.                                                                                                  | NOS. | 300   | "                                                                                                               |
| 08-06-00-862 | Electric Testing Instruments.                                                                                                    | NOS. | 100   | "                                                                                                               |
|              | Fire, Safety and Inspection Equipment:                                                                                           |      |       |                                                                                                                 |
| 08-06-00-863 | Safety Equipment.                                                                                                                | NOS. | 60    | Safety equipment                                                                                                |
| 08-06-00-864 | Personal Safety Equipment & Accessories                                                                                          | NOS. | 12000 | "                                                                                                               |
| 08-06-00-865 | Inspection Equipment.                                                                                                            | NOS. | 6     | Various accessories for inspection of corrosion inhibition, fire fighting etc                                   |
| 08-06-00-866 | Laboratory Equipment.                                                                                                            | SET  | 8     | "                                                                                                               |
| 08-06-00-867 | Thiophene Odorizer, Corrosion Inhibitor, Dry Powder For fire Fighting & Other Chemicals Connected Specifically to filling Plants | TON  | 60    | "                                                                                                               |
| 08-06-00-868 | Gas Rubber Hoses, 6 m long                                                                                                       | NOS. | 40    | "                                                                                                               |
| 08-06-00-869 | Accessories for Gas Tankers, 20 TON Capacity.                                                                                    | NOS. | 3500  | Valves and gauges                                                                                               |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL PIPELINES COMPANY**  
**LOCATION: OIL DEPOTS/PUMPING STATIONS**  
**/PIPELINES NETWORK**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                            | UNIT | QTY    | COMMENT                                                                  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|--------------------------------------------------------------------------|
| 08-06-00-870 | FLOW METER, COMPLETE, FOR MEASURING QUANTITIES OF OIL PRODUCTS PUMPED IN PIPELINES (INCLUDING MECHANICAL PARTS) OF DIFFERENT SIZES (3-12) INCHES                                            | NOS. | 100    | New flow meters for control of product distribution                      |
| 08-06-00-871 | PUMPING SETS ELECTRIC MOTOR DRIVEN FOR LOADING AND OFF-LOADING OIL PRODUCTS OF DIFFERENT SIZES AND TYPES WITH TWO YEARS RECOMMENDED SPARE PARTS                                             | NOS. | 15     | Distribution and pumping equipment for transfer of products, plus spares |
| 08-06-00-872 | SPARE PARTS FOR EXISTING PUMP SETS OPERATIONAL IN DEPOTS AND PUMPING STATIONS INCLUDING MAIN AND BOOSTER PUMPS                                                                              | NOS. | 50000  | General spares for existing pumps                                        |
| 08-06-00-873 | SPARE PARTS FOR EXISTING METERS OPERATIONAL IN DEPOTS AND PUMPING STATIONS                                                                                                                  | NOS. | 100000 | General spares for meters                                                |
| 08-06-00-874 | FIRE FIGHTING TRUCKS 8000 LITRE WATER TANK AND 1000 LITRE FOAM TANK FOR OIL INDUSTRY COMPLETE WITH ALL RECOMMENDED SPECIALIZED EQUIPMENT WITH TWO YEARS SPARE PARTS                         | NOS. | 3      | Safety equipment                                                         |
| 08-06-00-875 | FIRE FIGHTING EQUIPMENT, GAS AND OXYGEN DETECTORS, 2 1/2 INCHES BALL VALVES FOR HYDRANTS, F.M.B. PIPES, IN LINE INDICATORS, FIRE HOSES, PORTABLE FIRE EXTINGUISHERS, SUITS FOR T.E.L. TANKS | NOS. | 1600   | Safety equipment                                                         |
| 08-06-00-876 | FOAM FLUOROPROTEIN                                                                                                                                                                          | LIT  | 10000  | Fire fighting requirement                                                |
| 08-06-00-877 | DRY CHEMICAL POWDER FOR THREE TYPES OF FIRE (ABC)                                                                                                                                           | KG.  | 5000   | "                                                                        |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL PIPELINES COMPANY**  
**LOCATION: OIL DEPOTS/PUMPING STATIONS**  
**/PIPELINES NETWORK**

| CODE         | ITEM DESCRIPTION                                                                                                                                                                      | UNIT  | QTY   | COMMENT                                                                |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------------------------------------------------------------------------|
| 08-06-00-878 | PETROLEUM TESTING EQUIPMENT (LABORATORY) OF DIFFERENT TYPES TO CHECK SPECIFICATIONS OF OIL PRODUCTS IN OIL DEPOTS AND OIL PUMPING STATIONS WITH RECOMMENDED SPARE PARTS FOR TWO YEARS | NOS.  | 5     | Testing equipment for central laboratory for "spot testing" of quality |
| 08-06-00-879 | LINE PIPE OF DIFFERENT SIZES, SCHEDULES AND TYPES                                                                                                                                     | KM.   | 20    | Replacement and repair of old pipe                                     |
| 08-06-00-880 | HYDRAULIC PIPE CUTTER COMPLETE WITH HYDRAULIC DIESEL POWER PACK                                                                                                                       | NOS.  | 2     | Replacement of worn equipment                                          |
| 08-06-00-881 | ACCESSORIES FOR HYDRAULIC PIPE CUTTER                                                                                                                                                 | NOS.  | 100   | "                                                                      |
| 08-06-00-882 | WELDING ELECTRODES OF DIFFERENT SIZES AND TYPES                                                                                                                                       | TON   | 15    | Material for maintenance of pipe                                       |
| 08-06-00-883 | GASKETS OF DIFFERENT SIZES AND CLASSES                                                                                                                                                | NOS.  | 20000 | "                                                                      |
| 08-06-00-884 | STUD BOLTS WITH TWO NUTS OF DIFFERENT DIAMETERS AND LENGTHS                                                                                                                           | NOS.  | 30000 | "                                                                      |
| 08-06-00-885 | PIPE FITTINGS OF DIFFERENT SIZES, CLASSES AND SCHEDULES FROM 3 INCHES UP TO 30 INCHES                                                                                                 | NOS.  | 5000  | "                                                                      |
| 08-06-00-886 | VALVES OF DIFFERENT SIZES, TYPES AND CLASSES TO CONTROL FLOW OF OIL PRODUCTS IN PIPE LINES, OIL DEPOTS AND PUMPING STATIONS                                                           | NOS.  | 200   | "                                                                      |
| 08-06-00-887 | SPLIT. SLEEVE OF DIFFERENT LENGTHS TO REPAIR PIPE LINE LEAKS                                                                                                                          | NOS.  | 50    | "                                                                      |
| 08-06-00-888 | POLYETHYLENE WRAPPING TAPE, INNER AND OUTER                                                                                                                                           | SQ.M. | 20000 | "                                                                      |
| 08-06-00-889 | RUBBER BUTYL SOLUTION (PRIMER)                                                                                                                                                        | LIT.  | 2000  | "                                                                      |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL PIPELINES COMPANY**  
**LOCATION: OIL DEPOTS/PUMPING STATIONS**  
**/PIPELINES NETWORK**

| CODE         | ITEM DESCRIPTION                                                                                              | UNIT | QTY  | COMMENT                        |
|--------------|---------------------------------------------------------------------------------------------------------------|------|------|--------------------------------|
| 08-06-00-890 | 760A TAPPING MACHINE COMPLETE WITH HYDRAULIC SKID AND HYDRAULIC PETROL POWER PACK.                            | NOS. | 1    | Repeat order from Phase 5      |
| 08-06-00-891 | 660A TAPPING MACHINE COMPLETE WITH HYDRAULIC SKID AND HYDRAULIC PETROL POWER PACK.                            | NOS. | 1    | "                              |
| 08-06-00-892 | ACCESSORIES FOR 760A & 660A TAPPING MACHINES                                                                  | NOS. | 70   | "                              |
| 08-06-00-893 | LATCH FRAME 4-WHEEL MANUAL PIPE CUTTER (4-6) INCHES AND (8-12) INCHES WITH 300 EXTRA CUTTER WHEELS            | NOS. | 4    | Equipment for pipe maintenance |
| 08-06-00-894 | EXTERNAL PIPE CLAMP OF DIFFERENT SIZES                                                                        | NOS. | 20   | "                              |
| 08-06-00-895 | HYDROSTATIC TEST PUMP, UP TO 150 BARS, DIESEL DRIVEN COMPLETE WITH ALL ACCESSORIES, CAPACITY 20 LITERS/MINUTE | NOS. | 2    | Replacement of old equipment   |
| 08-06-00-896 | ELECTRICAL POWER TRANSFORMERS OF DIFFERENT CAPACITIES (1600-4000 KVA) AND VOLTAGES (33/6.6-3.3 KV)            | NOS. | 5    | "                              |
| 08-06-00-897 | ELECTRICAL LOW-VOLTAGE SWITCH GEAR OF VARIOUS RATINGS AND SIZES                                               | NOS. | 1000 | "                              |
| 08-06-00-898 | ELECTRICAL MEDIUM-VOLTAGE FLAME PROOF MOTOR, DIFFERENT RATINGS                                                | NOS. | 3    | "                              |
| 08-06-00-899 | ELECTRICAL LOW-VOLTAGE FLAME PROOF MOTOR, DIFFERENT RATINGS                                                   | NOS. | 3    | "                              |
| 08-06-00-900 | MEDIUM-VOLTAGE (33 KV) DISTRIBUTION PANEL                                                                     | NOS. | 1    | "                              |

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|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------------------------------------------------------------------|
| 08-06-00-901 | MEDIUM-VOLTAGE CABLE ACCESSORIES; DIFFERENT VOLTAGES AND SIZES                                                                                                                            | NOS. | 160  | Maintenance and replacement of general items                        |
| 08-06-00-902 | CABLE-DRUM CARRYING, WHEEL MOUNTED, TRAILER WITH CABLE-LAYING EQUIPMENT                                                                                                                   | NOS. | 5    | "                                                                   |
| 08-06-00-903 | SPARE PARTS FOR BALI PUMPING STATION (ELECTRICAL SPARES)                                                                                                                                  | NOS. | 5000 | "                                                                   |
| 08-06-00-904 | LPG CONTROL AND METERING EQUIPMENT CONSISTING OF THE FOLLOWING:<br>TURBINE METER                                                                                                          | NOS. | 3    | Equipment for control and safety of gas supplied to bottling plants |
| 08-06-00-905 | STRAINER                                                                                                                                                                                  | NOS. | 3    | "                                                                   |
| 08-06-00-906 | FLOW CALCULATOR                                                                                                                                                                           | NOS. | 3    | "                                                                   |
| 08-06-00-907 | TEMPERATURE TRANSMITTER                                                                                                                                                                   | NOS. | 3    | "                                                                   |
| 08-06-00-908 | PRESSURE TRANSMITTER                                                                                                                                                                      | NOS. | 3    | "                                                                   |
| 08-06-00-909 | GAUGES                                                                                                                                                                                    | NOS. | 10   | "                                                                   |
| 08-06-00-910 | PIPE FITTINGS                                                                                                                                                                             | NOS. | 100  | "                                                                   |
| 08-06-00-911 | STUDS AND BOLTS                                                                                                                                                                           | NOS. | 600  | "                                                                   |
| 08-06-00-912 | PNEUMATIC CONTROL VALVE                                                                                                                                                                   | NOS. | 22   | "                                                                   |
| 08-06-00-913 | TUBING                                                                                                                                                                                    | MTR  | 200  | "                                                                   |
| 08-06-00-914 | SAFETY VALVE                                                                                                                                                                              | NOS. | 11   | "                                                                   |
| 08-06-00-915 | VALVES OF DIFFERENT SIZES                                                                                                                                                                 | NOS. | 80   | "                                                                   |
| 08-06-00-916 | SMALL DRY AIR COMPRESSOR                                                                                                                                                                  | NOS. | 10   | "                                                                   |
| 08-06-00-917 | DENSITY METER COMPLETE UNIT FOR CONTROL OF MULTI-OIL PRODUCTS IN PIPE LINES WITH ACCESSORIES TRANSDUCERS, ZENER BARRIER, GLANDS, DENSITY SENSOR, VALVES, CABLES, TEMPERATURE SENSOR .ETC. | SET  | 10   | "                                                                   |

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| CODE         | ITEM DESCRIPTION                                                                                                                                                                 | UNIT | QTY    | COMMENT                                                  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|----------------------------------------------------------|
| 08-06-00-918 | SPARES FOR AUTOMATIC CONTROL AND SUPERVISION EQUIPMENT IN PUMPING STATIONS TO CONTROL STORAGE AND PUMPING OF OIL PRODUCTS INCLUDING SPARES FOR PANELS AND TANK LEVEL MEASUREMENT | NOS. | 100000 | Equipment for the safety and measurement of oil products |
| 08-06-00-919 | PORTABLE METER PROVING UNIT, WHEEL MOUNTED FOR POSITIVE DISPLACEMENT METERS OF OIL PRODUCTS IN EXISTING PUMPING STATIONS AND RECEIVING DEPOTS.                                   | SET  | 3      | Equipment for flow measurement and calibration           |
| 08-06-00-920 | PRESSURE TRANSMITTERS AND PRESSURE SWITCHES OF DIFFERENT TYPES AND SIZES WITH SPARE PARTS FOR TWO YEARS OPERATION                                                                | NOS. | 50     | Safety and maintenance equipment                         |
| 08-06-00-921 | ULTRASONIC, DIGITAL THICKNESS METER, COMPLETE WITH 10 NOS. PROBES OF 5 MHZ                                                                                                       | NOS. | 5      | NDT equipment                                            |
| 08-06-00-922 | HARDNESS METER (PIEZOELECTRIC CRYSTAL)                                                                                                                                           | NOS. | 5      | "                                                        |
| 08-06-00-923 | HOLIDAY DETECTOR                                                                                                                                                                 | NOS. | 5      | Equipment for checking pipe wrapping                     |
| 08-06-00-924 | WELD GAUGE (THE WELDING INSTITUTE CAMBRIDGE-UK)                                                                                                                                  | NOS. | 10     | Testing equipment                                        |
| 08-06-00-925 | FIXED, MOBILE AND REPEATERS VHF STATIONS FREQUENCY RANGE (145-170) MHZ, ANTENNA, POWER SUPPLY WITH ACCESSORIES                                                                   | SET  | 35     | Communication requirements                               |
| 08-06-00-926 | DIGITAL MICROWAVE LINK, COMPLETE UNIT INCLUDING:<br>- RF CHANNEL 2W AND 4W<br>- POWER SUPPLY AND BATTERIES<br>- SPARE PARTS FOR TWO YEARS                                        | SET  | 4      | "                                                        |

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| CODE         | ITEM DESCRIPTION                                                                                                                                             | UNIT | QTY  | COMMENT                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------------------------------------------------------------------------------------------------------------------|
| 08-06-00-927 | DIGITAL WIRELESS MULTI-ACCESS SYSTEM, COMPLETE UNIT INCLUDING:<br>- BASE STATION WITH ANTENNA<br>- FIXED REMOTE USER TERMINAL<br>- SPARE PARTS FOR TWO YEARS | SET  | 2    | Communication equipment to improve efficiency and safety of operations, and to minimize risk of environmental damage |
| 08-06-00-928 | DIGITAL AUTOMATIC TELEPHONE EXCHANGE, COMPLETE WITH ALL ACCESSORIES OF DIFFERENT SIZES WITH SPARE PARTS FOR THREE YEARS                                      | SET  | 2    | "                                                                                                                    |
| 08-06-00-929 | DISPATCHER TELEPHONE SYSTEM, COMPLETE UNIT INCLUDING<br>- TELEPHONE DESK<br>- POWER SUPPLY AND BATTERIES<br>- SPARE PARTS FOR TWO YEARS                      | SET  | 2    | "                                                                                                                    |
| 08-06-00-930 | TESTING EQUIPMENT FOR TELECOMMUNICATION SYSTEM                                                                                                               | NOS. | 5    | "                                                                                                                    |
| 08-06-00-931 | JOINTING KIT OF DIFFERENT TYPES AND SIZES FOR TELECOMMUNICATION CABLES                                                                                       | KIT  | 5000 | "                                                                                                                    |

**MINISTRY OF OIL**  
**ESTABLISHMENT NAME: OIL PRODUCTS DISTRIBUTION CO**  
**LOCATION: ALL AREAS**

| CODE         | ITEM DESCRIPTION                  | UNIT | QTY | COMMENT                         |
|--------------|-----------------------------------|------|-----|---------------------------------|
| 08-06-00-932 | WHEEL LOADER(SHOVELES)            | NOS. | 7   | Heavy equipment for maintenance |
| 08-06-00-933 | WHEEL EXCAVATOR                   | NOS. | 3   | "                               |
| 08-06-00-934 | LIFTING CRANE CAP. 20 TONS        | NOS. | 7   | "                               |
| 08-06-00-935 | LOW LOADER                        | NOS. | 7   | "                               |
| 08-06-00-936 | FORKLIFT(5) TONS                  | NOS. | 10  | "                               |
| 08-06-00-937 | FORKLIFT(2) TONS                  | NOS. | 10  | "                               |
| 08-06-00-938 | HYDRAULIC CARGO CRANE CAP.5 TONS  | NOS. | 8   | "                               |
| 08-06-00-939 | WELDING MACHINES DIESEL           | NOS. | 10  | "                               |
| 08-06-00-940 | ELECT. DRIVEN WELDING MACHINES    | NOS. | 20  | "                               |
| 08-06-00-941 | DUMP TRUCK 10 M3 - 12 M3 ( TILT ) | NOS. | 10  | "                               |
| 08-06-00-942 | DIESEL AIR COMPRESSORS            | NOS. | 10  | "                               |
| 08-06-00-943 | 50 KVA DIESEL ELECTRIC GENERATOR  | SET  | 20  | Emergency generation equipment  |
| 08-06-00-944 | 100 KVA DIESEL ELECTRIC GENERATOR | SET  | 10  | "                               |
| 08-06-00-945 | 250 KVA DIESEL ELECTRIC GENERATOR | SET  | 10  | "                               |

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| CODE         | ITEM DESCRIPTION                                                   | UNIT | QTY    | COMMENT                                           |
|--------------|--------------------------------------------------------------------|------|--------|---------------------------------------------------|
|              | PETROL STATIONS:                                                   |      |        | Equipment for fuel stations and depots            |
| 08-06-00-946 | FUEL DISPENSERS WITH RECOMMENDED SPARE PARTS                       | NOS. | 700    | "                                                 |
| 08-06-00-947 | SUBMERSIBLE PUMPS                                                  | NOS. | 150    | "                                                 |
| 08-06-00-948 | NOZZLES & HOSES FOR FUEL DISPENSERS 3/4" TO 1 1/2" SIZE            | NOS. | 1200   | "                                                 |
| 08-06-00-949 | METERS 1 1/2" WITH RECOMMENDED SPARE PARTS                         | NOS. | 50     |                                                   |
|              | FUEL LOADING AND UNLOADING PUMPS:                                  |      |        |                                                   |
| 08-06-00-950 | ELECTRIC DRIVEN GEAR TYPE                                          | NOS. | 100    | Pumps for distribution depots                     |
| 08-06-00-951 | DESEL DRIVEN GEAR TYPE                                             | NOS. | 25     | "                                                 |
| 08-06-00-952 | STEEL PLATES TO MANUFACTURE 50 M3 STORAGE TANKS THICKNESS 8- 10 MM | TON  | 1200   | Materials to construct 50 underground depot tanks |
| 08-06-00-953 | WELDING ELECTRODES 4MM, 3.25MM                                     | TON  | 40     | "                                                 |
| 08-06-00-954 | PIPES SIZES 2" - 6"                                                | MTR. | 20000  | "                                                 |
| 08-06-00-955 | FITTINGS SIZE 2" - 6"                                              | NOS  | 5000   | "                                                 |
| 08-06-00-956 | LIGHTING FITTINGS                                                  | NOS. | 25000' | "                                                 |
| 08-06-00-957 | ELECTRIC MOTORS WINDING WIRES                                      | TON  | 15'    | "                                                 |
| 08-06-00-958 | ELECTRIC CABLES                                                    | MTR. | 5000'0 | "                                                 |

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| CODE         | ITEM DESCRIPTION                                                                                                                                                             | UNIT | QTY   | COMMENT                                               |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------------------------------------------------------|
| 08-06-00-959 | INSTRUMENTS FOR MEASURING HYDROCARBON GASES & INSPECTION TESTING, C.W. ACCESSORIES                                                                                           | SET  | 100   | MSA & gas detectors and ultrasonic & thickness gauges |
| 08-06-00-960 | LABORATORY TESTING EQUIPMENT, C.W. ACCESSORIES                                                                                                                               | SET  | 10    | Spot testing analytical equipment                     |
| 08-06-00-961 | FIRE FIGHTING EQUIPMENT: EXTINGUISHERS, HOSES, NOZZLES, FOAM GENERATORS, FITTING, BRANCHES & WATER MONITORS                                                                  | SET  | 500   | Fire fighting reagents and equipment                  |
| 08-06-00-962 | SAFETY EQUIPMENT : FIRE FIGHTING SUITS, OVER ALLS & SAFETY HELMETS.                                                                                                          | NOS. | 2000  | "                                                     |
| 08-06-00-963 | DRY POWDER FOR ABC FIRE EXTINGUISHER                                                                                                                                         | TON  | 10    | "                                                     |
| 08-06-00-964 | FOAM                                                                                                                                                                         | LIT. | 50000 | "                                                     |
| 08-06-00-965 | LEVEL CONTROL EQUIPMENT FOR SERVICE STATIONS & DEPOTS EACH SET SERVES 8 TANKS                                                                                                | SET  | 30    | Materials for tank level control systems in depots    |
| 08-06-00-966 | ELECTRONIC EXCHANGES, VHF & HAND HELD RADIO COMMUNICATION SETS WITH ACCESSORIES                                                                                              | SET  | 78    | Communications equipment                              |
| 08-06-00-967 | TELEPHONES & TOOLS FOR MAINTAINING COMMUNICATION SYSTEM : DESK TELEPHONES SURFACE MOUNTED DEVICES FOR SOLDERING & DESOLDERING, P.C.B. PRODUCTION LINE & TOOLS & INSTRUMENTS. | NOS. | 250   | Communications maintenance equipment for above        |
| 08-06-00-968 | LIGHT TRUCKS ( PICK UP) WITH RECOMMENDED SPARES                                                                                                                              | NOS. | 75    | Transportation for maintenance crews                  |
| 08-06-00-969 | LAND CRUISERS WITH RECOMMENDED SPARE PARTS                                                                                                                                   | NOS. | 20    | "                                                     |
| 08-06-00-970 | TANKS CLEANING APPARATUS                                                                                                                                                     | SET  | 6     | Sludge removing equipment                             |
| 08-06-00-971 | TRUCK TRACTORS 6X4 (STANDARD) WITH RECOMMENDED SPARE PARTS                                                                                                                   | NOS. | 120   | Tractors for towing units                             |

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|--------------|-------------------------------------------------------------------------------|------|------|----------------------------------------|
| 08-06-00-972 | WEIGH BRIDGES UP TO 100 TON ( FOR TRUCKS )                                    | UNIT | 5    | To ascertain and control truck weights |
| 08-06-00-973 | LPG TRUCKS(10 TONS ) WITH RECOMMENDED SPARE PARTS                             | NOS. | 10   | For LPG distribution to hospitals      |
| 08-06-00-974 | DESKTOP COMPUTERS WITH PRINTERS & ACCESSORIES                                 | SET  | 100  | For control of product distribution    |
| 08-06-00-975 | TRUCK CHASSIS FOR TANKS ( 36 TONS )                                           | NOS. | 50   | Chassis for tractors                   |
| 08-06-00-976 | COMPLETE LOADING ARMS 3" & 4" WITH RECOMMENDED SPARES                         | NOS. | 50   | Loading gantry materials               |
| 08-06-00-977 | TYRES SIZE 1200X20X18( RADIAL ) WITH TUBE AND FLOP FOR TRUCK TRACTORS         | NOS. | 5000 | Tyres                                  |
| 08-06-00-978 | TYRES OF VARIOUS TYPES AND SIZES                                              | NOS. | 1000 | "                                      |
| 08-06-00-979 | BATTERIES 135A , 12VOLTS FOR TRUCK TRACTORS                                   | NOS. | 3000 | Batteries                              |
| 08-06-00-980 | TOOLS AND INSTRUMENTS FOR TESTING AND MAINTENANCE                             | SET  | 1000 | Jacks etc for depots                   |
| 08-06-00-981 | COMPLETE ENGINES TO REPLACE DAMAGED ONES ON EXISTING TRUCKS OF VARIOUS TYPES. | NOS. | 100  | Replacement for existing truck engines |