

**MINISTRY OF OIL**
**SHEET NO.: 1 OF 27**
**ESTABLISHMENT NAME : NORTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 01-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-01-0001	SPARE PARTS FOR HITACHI TURBINE (MECHANICAL)	26	ITEM	Kirkuk, Bai Hassan & Jambur compressor stations	
08-10-01-01-0002	REPAIR OF HP ROTOR OF HITACH TURBINE-ABROAD.	1	ITEM	Overseas repair to rotor	
08-10-01-01-0003	RETROFIT OF OBSOLETE HITACHI G.T & STATION CONTROL SYSTEMS OF AB-8 GAS COMPRESSOR STATION .	1	SET	Retrofit required as turbines over recommended service intervals and unobtainable	
08-10-01-01-0004	SPARE PART FOR HITACHI GAS TURBINE (INSTRUMENTATION).	70	ITEM	As above	
08-10-01-01-0005	REPAIR OF M.H.I. GAS COMPRESSOR ROTOR-ABROAD.	2	ITEM	As above	
08-10-01-01-0006	SPARE PARTS FOR SULZER S7 TURBINE AT K3 STATION.	23	ITEM	Parts for K3 turbine installations	
08-10-01-01-0007	REPAIR OF HP ROTOR FOR SULZER TURBINE-ABROAD	2	ITEM	Overseas repair to rotor	
08-10-01-01-0008	REPLACEMENT OF EXISTING OBSOLETE CONTROL SYSTEMS GAS TURBINE CONTROL PANEL OF SULZER TURBINE AT K3.	3	SET	Retrofit required as turbines over recommended service intervals and unobtainable	
08-10-01-01-0009	SPARE PARTS FOR G.E.C TURBINE. TYPE (EM85)	32	ITEM	Water injection system at ZAB	
08-10-01-01-0010	SPARE PARTS FOR RUSTON TURBINE. TYPE (TA1750)	15	ITEM	Avannah pumping station	
08-10-01-01-0011	REPLACEMENT OF THE OBSOLETE & INOPERATIVE CONTROL SYSTEM ( PANELS) FOR GEC EM 85 (6 UNITS) & RUSTON TA 1750 GAS TURBINES (3 UNITS) COMPLETE WITH INSTALLATION SUPERVISION	10	UNIT	Avannah pumping station in ZAB area	
08-10-01-01-0012	RETROFIT CONTROL SYSTEM FOR SULZER GAS TURBINE AT K3 AND T1 PUMPING STATIONS	7	SET	Requirements for pumping stations	
08-10-01-01-0013	REPAIR OF ROTOR OF MAN-GHH SCREW GAS COMPRESSOR. TYPE SKULL. 408	2	ITEM	Compressor at AB-11	
08-10-01-01-0014	REPAIR OF COMPLETE ASSY., SOLAR GAS TURBINE TYPE CS4000	1	ITEM	AB stations	
08-10-01-01-0015	SPARES FOR SOLAR TURBINE (MECHANICAL)	22	ITEM	AB stations	
08-10-01-01-0016	SPARE FOR SOLAR TURBINE (INSTRUMENTATION).	150	ITEM	AB stations	

**10RFN**



**MINISTRY OF OIL**
**SHEET NO.: 2 OF 27**
**ESTABLISHMENT NAME : NORTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 01-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-01-0017	VALVES AND FITTING FOR OLD PROCESS PLANTS	6	ITEM	General maintenance and spare parts	
08-10-01-01-0018	GENERAL PARTS FOR HEAT. EXCHANGER	8	SET	As above	
08-10-01-01-0019	SPARE PARTS FOR BROOM AND WADE . AIR COMPRESSORS	1	ITEM	As above, for degassing stations	
08-10-01-01-0020	SUPPLY OF THREADED PIPE 4" WITH FITTINGS	250 8703	KM NOS	General maintenance	
08-10-01-01-0021	VARIOUS MACHINES FOR WORKSHOPS WITH RECOMMENDED SPARE PARTS	1	ITEM	Lathes for workshops	
08-10-01-01-0022	VARIOUS TOOLS	13	ITEM	Workshop tools	
08-10-01-01-0023	VARIOUS CONSUMABLES	23	ITEM	Workshop grinding bits, gloves	
08-10-01-01-0024	FERROUS MATERIALS	4	ITEM	Angle iron plates, tank plates	
08-10-01-01-0025	WELDING ELECTRODES	8	ITEM	For repair and maintenance	
08-10-01-01-0026	ELECTRIC SUBMERSIBLE WATER PUMPS.	30	SET	For back up water injection supply	
08-10-01-01-0027	SUPPLY OF VARIOUS REFRIGERATION EQUIPMENT.	21	ITEM	Central A/C systems	
08-10-01-01-0028	VARIOUS TURNING MACHINERY AND EQUIPMENT WITH ACCESSORIES AND SPARE PARTS	9	ITEM	Lathes for workshops	
08-10-01-01-0029	VARIOUS WELDING MACHINES AND EQUIPMENT	9	ITEM	Repair and maintenance	
08-10-01-01-0030	SUPPLY OF VARIOUS PIPES	10	ITEM	15 kms from 10 to 24"	
08-10-01-01-0031	SUPPLY OF PIPE-LINE REPAIR SPLIT SLEEVES	4	ITEM	For above	
08-10-01-01-0032	SUPPLY OF PIPE LINE SIZE 32 INCH WITH ACCESSORIES	50	KM.	Distribution requirements	
08-10-01-01-0033	BORE HOLE PUMPS WITH SPARES	10	SET	As above	
08-10-01-01-0034	VARIOUS GASKETS	53	ITEM	As above	
08-10-01-01-0035	SUPPLY OF 48 INCHES PIPELINE & ACCESSORIES	65	KM.	Repair of pipeline network to T1 station, to connect to ITP line.	
		1	SET	As above	

**MINISTRY OF OIL**
**SHEET NO.: 3 OF 27**
**ESTABLISHMENT NAME : NORTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 01-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-01-0036	ELECTRICAL SPARE PARTS FOR GAS COMPRESSOR STATIONS & DEGASSING STATIONS, PUMPS STATION	150	ITEM	Repair to compressor and degassing stations	
08-10-01-01-0037	SPARE PARTS FOR 2X20MW GAS TURBINE	100	ITEM	Spares for Kirkuk power station	
08-10-01-01-0038	SPARES FOR ALL NEW STATIONS OF WET CRUDE OIL PLANT	100	ITEM	Avanah/Bai hassan wet crude units	
08-10-01-01-0039	OVER GROUND PASSIVELY COOLED SHELTERS .	2	ITEM	Convection units in drilling sites	
08-10-01-01-0040	DUPLICATED SETS OF SOLAR POWER SYSTEM .	11	SET	Power for drilling sites	
08-10-01-01-0041	FREE MAINTENANCE RECHARGEABLE BATTERIES .	14	SET	As above	
08-10-01-01-0042	TWO CHANNEL DIGITAL RADIO LINKS WITH SPARE PARTS FOR TWO YEARS OF OPERATION	10	LINK	Comms for drilling sites	
08-10-01-01-0043	HEAVY DUTY TELESCOPIC TRAILER MAST .	10	SET	Comms for drilling sites	
08-10-01-01-0044	11-6-1 DIGITAL SELECTIVE LEVEL METER (200Hz. . . 1.06 MHz)	1	NO.	Maintenance of telecoms and control systems in degassing and compressor stations	
	1.TUNABLE(VHF-UHF) DIGITAL LEVEL GENERATOR(200Hz...1.06MHz)	1	NO.	As above	
	11-6-3 FREQUENCY COUNTER (UP TO 1 GH <sub>2</sub> )	1	NO.	As above	
	11-6-4 RF POWER METER + PROBE (SENSOR) (DOWN TO 1 MICRO WATT)	1	NO.	As above	
	RF SIGNAL GENERATOR (FM / AM / PM) (UP TO 1 GH <sub>2</sub> )	1	NO.	As above	
	TO BE USED IN THE MAINTENANCE OF DEGASSING AND COMPRESSOR STATIONS.				

**MINISTRY OF OIL**
**SHEET NO.: 4 OF 27**
**ESTABLISHMENT NAME : NORTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 01-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-01-01-0045</b>	<b>- UNDERGROUND ARMoured PETROLEUM JELLY FILLED (0.8 ) MM COPPER CONDUCTOR . - SELF SUPPORTING PLASTIC – INSULATED CABLE. - CABLE HEAD TERMINALS. - SPLICE CLOSURE HEAT SHRINKABLE FOR UNDER GROUND CABLES. - DISTRIBUTION CABINET BOXES .</b>	<b>50</b>	<b>KM.</b>	Repairs to control systems	
				As above	
		<b>30</b>	<b>KM.</b>	As above	
		<b>200</b>	<b>NOS.</b>	As above	
		<b>350</b>	<b>NOS.</b>	As above	
		<b>120</b>	<b>NOS.</b>	As above	
<b>08-10-01-01-0046</b>	<b>FLAMEPROOF TELEPHONE SETS FOR HAZARDOUS AREAS</b>	<b>50</b>	<b>NOS.</b>	Comms for hazardous areas	
<b>08-10-01-01-0047</b>	<b>FIELD INSTRUMENTATION FOR AB-11 GAS COMP.</b>	<b>35</b>	<b>ITEM</b>	Control instrumentation	
<b>08-10-01-01-0048</b>	<b>FIELD CONTROL &amp; MEASURING INSTRUMENTS FOR PROCESS PLANT</b>	<b>9</b>	<b>ITEM</b>	North Gas process plant	
<b>08-10-01-01-0049</b>	<b>SPARES FOR CONTROL &amp; MEASURING INSTRUMENTS OF KHABAZ DEGASSING COMPRESSOR STATION.</b>	<b>50</b>	<b>ITEM</b>	Maintenance and repair	
<b>08-10-01-01-0050</b>	<b>CONTROL &amp; MEASURING INSTRUMENTS ERECTION MATERIALS FOR ALL N.O.C LOCATIONS (PROCESS TUBES, FITTINGS, CONDUITS, ...etc)</b>	<b>50</b>	<b>ITEM</b>	Requirements to repair control system in NOC area	
<b>08-10-01-01-0051</b>	<b>CHLORINATOR FOR ALL LOCATIONS.</b>	<b>30</b>	<b>ITEM</b>	For provision of drinking water on sites	
<b>08-10-01-01-0052</b>	<b>SPARE PARTS FOR EAST BAGHDAD FIELD (INSTRUMENTATION).</b>	<b>30</b>	<b>ITEM</b>	Replacement instrumentation	

**MINISTRY OF OIL**
**SHEET NO.: 5 OF 27**
**ESTABLISHMENT NAME : NORTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 01-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-01-0053	STEAM BOILER TRAILER MOUNTED WITH VEHICLE AND RECOMMENDED SPARE PARTS: - CAPACITY 3 TON / HOUR - CAPACITY 5 TON / HOUR	1	SET	Steam generation for general repairs	
		1	SET	"	
				"	
08-10-01-01-0054	AUTOMATIC SAFETY VALVES WITH PILOT FOR OIL & GAS WELL FLOW LINES WITH RECOMMENDED SPARE PARTS	60	SET	Equipment especially required to deal with the high well pressures in Saddam field	
08-10-01-01-0055	CONTROL VALVE FOR AVANA WET CRUDE TREATMENT PLANT, WITH RECOMMENDED SPARE PARTS: - (12") DIAMETER, EMERGENCY SHUT DOWN VALVE - (12") DIAMETER PRESSURE CONTROL VALVE - (8") DIAMETER PRESSURE CONTROL VALVE	1	SET	Control equipment for the Avannah Dome area	
		1	SET	As above	
		1	SET	As above	
		3	SET	As above	
08-10-01-01-0056	COMPLETE OIL STORAGE TANK FOR OFF SPECIFICATION PRODUCT OIL AT NAFTKHANA OIL FIELD CAPACITY:5000 BBL. WITH AUXILIARY SYSTEMS (FLARE, FIREFIGHTING, INSTRUMENTATION ...ETC), WITH RECOMMENDED SPARE PARTS	25	ITEM	Tanks to deal with high volume of "off-spec" oil with very high water and gas contents	

**MINISTRY OF OIL****SHEET NO.: 6 OF 27****ESTABLISHMENT NAME : NORTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 01-01 : MAINTENANCE & OPERATION**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-01-01-0057</b>	<b>VARIOUS EQUIPMENT (FLANGES, STUD BOLTS, GASKET &amp; ELBOWS ...ETC) FOR GENERAL MAINTENANCE IN ALL NOC FIELDS</b>	<b>300</b>	<b>ITEM</b>	General maintenance requirements	
<b>08-10-01-01-0058</b>	<b>SAFETY VALVES FOR VESSELS AT GAS COMPRESSOR STATIONS &amp; IT PIPELINE, WITH RECOMMENDED SPARE PARTS.</b>	<b>100</b>	<b>ITEM</b>	Spares for safety valves	
<b>08-10-01-01-0059</b>	<b>COMPLETE GEAR BOX FOR MAIN PUMP VALVES, WITH RECOMMENDED SPARE PARTS</b>	<b>14</b>	<b>ITEM</b>	Repairs Ain Zalah gear boxes	
<b>08-10-01-01-0060</b>	<b>SPARES FOR NUOVOPIGNONI BOOSTER &amp; TRANSFER PUMPS.</b>	<b>4</b>	<b>ITEM</b>	Spares for ITP pumps	
<b>08-10-01-01-0061</b>	<b>STEEL PIPE 8" DIAMETER FOR T/1</b>	<b>27</b>	<b>KM.</b>	Spares for pipelines	
<b>08-10-01-01-0062</b>	<b>SPARE PARTS FOR GATE VALVE</b>	<b>15</b>	<b>ITEM</b>	K1 tank farm valve spares	
<b>08-10-01-01-0063</b>	<b>WATER TREATMENT UNIT WITH CHLORINE UNIT FOR AIN ZALAH OIL FIELD WITH RECOMMENDED SPARE PARTS</b>	<b>25</b>	<b>ITEM</b>	Water treatment for Ain Zalah field	

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : ALL AREAS

PROJECT 01-01 : MAINTENANCE &amp; OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-01-0064	OIL SKIMMER & OIL SPILLAGE CONTROL EQUIPMENT, WITH RECOMMENDED SPARE PARTS:			For pollution control at pipeline river crossings	
	- COMPLETE DISC SKIMMER SYSTEM WITH ALL ACCESSORIES	2	SET	"	
	- OIL SKIMMER FOR OIL SPILLAGE	2	SET	"	
	- BOOM	1	SET	"	
	- ZODIAC BOAT	2	SET	"	
08-10-01-01-0065	VARIOUS PUMPS FOR PRODUCTION FACILITIES WITH RECOMMENDED SPARE PARTS:			Equipment for pumps maintenance	
	- WET CRUDE OIL PUMP FOR NAFTKHANA OIL FIELDS.	3	SET	"	
	- SLOP PUMP FOR AVANA WET CRUDE TREATMENT PLANT.	2	SET	"	
	- WET CRUDE OIL PUMP FOR JABAL BUR OIL FIELDS.	2	SET	"	
	- WASTE OIL PUMP FOR K/1 STATION.	2	SET	"	
	- OIL PUMP FOR AIN ZALAH.	2	SET	"	
	- RAW WATER PUMP FOR AIN ZALAH.	2	SET	"	

**MINISTRY OF OIL**
**SHEET NO.: 8 OF 27**
**ESTABLISHMENT NAME : NORTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 01-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-01-01-0066</b>	<b>CHEMICALS FOR OIL FIELD PRODUCTION:</b>			Chemicals for dehydration and dewatering	
	- TRI ETHELYNE GLYCOL FOR GAS COMPRESSOR STATIONS	<b>500</b>	<b>TON</b>	As above	
	- CHEMICALS FOR TEG TREATMENT	<b>100</b>	<b>DRUM</b>	As above	
	- RELITE (CF) STRONG ACID ION EXCHANGE LEWTIT (S 100).	<b>9</b>	<b>TON</b>	As above	
	- RELITE (2AS) STRONG BASE ION EXCHANGE LEWTIT (MP 600).	<b>9</b>	<b>TON</b>	As above	
	- DEMULSIFIER FOR WET CRUDE TREATMENT	<b>6000</b>	<b>DRUM</b>	As above	
<b>08-10-01-01-0067</b>	INSULATION MATERIALS FOR HEATERS & CHIMNEYS	<b>19</b>	<b>ITEM</b>	Linings for chimneys	
<b>08-10-01-01-0068</b>	SUPPLY OF ELECTRICAL MATERIALS, EQUIPMENT & SPARE PARTS FOR GENERAL MAINTENANCE	<b>33207</b>	<b>NOS</b>	Maintenance requirements	

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : ALL AREAS

PROJECT 01-01 : MAINTENANCE &amp; OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-01-0069	SUPPLY & SUPERVISION OF (3MW) ERECTION OF ELECTRIC POWER GENERATOR IN K3, POWERED BY GAS TURBINE GTES-6 COMPLETE WITH ALL RELATED SWITCH GEAR, CONTROL & INSTRUMENTATION & ALL OTHER ACCESSORIES WITH SUFFICIENT RECOMMENDED SPARE PARTS.	1	CONTRACT	3 MW stand-by generating plant for K3 tank farm	

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : ALL AREAS

PROJECT 01-01 : MAINTENANCE &amp; OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-01-0070	SUPPLY & SUPERVISION & ERECTION OF CONTROL & INSTRUMENTATION FOR THE OPERATION OF THE K3 STATION (4 OIL TANKS+1) WATER TANK FROM K3 CONTROL ROOM .	3	CONTRACT	Contract for K3 instrumentation and control systems	
08-10-01-01-0071	SPARE PARTS FOR Khabaz PLC CONTROLLERS .	18	ITEM	Parts for control system	
08-10-01-01-0072	SUPPLY & SUPERVISION OF INSTALLATION OF A NEW CENTRAL TELEPHONE EXCHANGE & RECOMMENDED SPARE PARTS BY A MAIN CENTER BABA WITH A REMOTE UNIT IN ARRAFA CONNECTED BY A MINI LINK .	1	CONTRACT	New Sector code	
08-10-01-01-0073	OXYGEN PLANT WITH OUTPUT CAPACITY OF 50 KG/HR OF LIQUID OXYGEN COMPLETE WITH FILLING RING (ONE PLANT) WITH SPARES	1	PLANT	Oxygen plant for Baba industrial area	
08-10-01-01-0074	MOBILE WORKSHOP INCLUDING ALL ACCESSORIES, EQUIPMENT, TOOLS, MEASURING TOOLS, DIESEL GENERATOR... ETC. (ON TRUCK) WITH RECOMMENDED SPARE PARTS .	2	ITEM	Equipment for tele-communications department	

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : ALL AREAS

PROJECT 01-01 : MAINTENANCE &amp; OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-01-0075	MOBILE WORK SHOP FOR ELECTRIC USAGE WITH A/C, CHASSIS 4x4, H.P. 250-300, MANUAL TRANSMISSION ASSEMBLY WITH RECOMMENDED SPARE PARTS .	2	ITEM	Electrical workshop	
08-10-01-01-0076	MOBILE WORKSHOP CUSTOMIZED FOR PLANT SURVEYOR CONTAINING X-RAY UNIT, DEVELOPING UNIT, DIESEL GENERATOR & ACCESSORIES (1 TRUCK) WITH THE RECOMMENDED SPARE PARTS	1	ITEM	Plant survey department with NDT capability	
08-10-01-01-0077	SUPPLY & SUPERVISION OF A NEW ITP TELECOMMUNICATION SYSTEM INCLUDING ALL RADIO & MULTIPLEX EQUIPMENT, PABX & ALL ACCESSORIES COMPLETE WITH A NEW SOLAR POWER SYSTEM FOR THE REPEATERS .	1	ITEM	Communication and control requirement	
08-10-01-01-0078	MAINTENANCE & RENOVATION OF PROCESS PLANT INSTRUMENTATION	10	ITEM	Process plant instrumentation maintenance and renovation	

**MINISTRY OF OIL****SHEET NO.: 12 OF 27****ESTABLISHMENT NAME : NORTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 01-01 : MAINTENANCE & OPERATION**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-01-01-0079</b>	REPLACEMENT OF OBSOLETE CONTROL INSTRUMENTS FOR ITP LINE	<b>10</b>	<b>ITEM</b>	Operational control instrumentation for ITP pipeline	
<b>08-10-01-01-0080</b>	PLANT SURVEY EQUIPMENT AND ACCESSORIES	<b>14</b>	<b>ITEM</b>	NBT and QC requirements	
<b>08-10-01-01-0081</b>	CONTROL & MEASURING INSTRUMENTS & REPLACEMENT OF PRODUCTION & SEQUENCING CONTROL SYSTEM FOR K3 PUMPING STATION.	<b>13</b>	<b>ITEM</b>	K3 control system repair and maintenance	
<b>08-10-01-01-0082</b>	ELECTRONIC PABX 200 EXTENSION WITH RECOMMENDED SPARE PARTS	<b>3</b>	<b>SET</b>	Communications requirements for Ain Zalah, K2 and Jambur regions	
<b>08-10-01-01-0083</b>	VARIOUS APPARATUS & EQUIPMENT SUCH AS: LEAK DETECT., CHARGING TOOLS, VACUUM PUMPS, ACID PUMPS... ETC. WITH RECOMMENDED SPARE PARTS FOR CARRYING OUT MECHANICAL MAINTENANCE OF AIR CONDITIONING SYSTEMS OF CRUDE & GAS PROCESSING FACILITIES IN ALL NOC AREAS	<b>40</b>	<b>NOS.</b>	Safety equipment and air conditioning requirements	
<b>08-10-01-01-0084</b>	SUPPLY OF SPARE PARTS FOR REHABILITATION OF AB-6 COMPRESSOR STATION (MECHANICAL & INSTRUMENTS)	<b>5</b>	<b>ITEM</b>	Maintenance at AB-6 compressor station	
<b>08-10-01-01-0085</b>	SPARES & AIR BLOWER FOR SEWAGE PLANT	<b>2</b>	<b>ITEM</b>	New sector code	

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : ALL AREAS

PROJECT 01-02 : REHABILITATION /REVAMPING OF EXISTING  
INSTALLATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-02-0095	SUPPLY OF EQUIPMENT & TOOLS FOR GAS TURBINE MAINTENANCE	30	ITEM	Repair and maintenance of compressor stations and water injection sites in ZAB area	
08-10-01-02-0096	REHABILITATION, MAINTENANCE SERVICE CONTRACT AS WELL AS THE PROVISION OF SPARE PARTS FOR 10 MW STALL LAVAL GAS TURBINE AT BABA & ZAB	30 1	ITEM CONTRACT	As above	
08-10-01-02-0097	SUPPLY OF STEEL TUBES & HEADERS FOR PROCESS PLANTS	6	ITEM	As above	
08-10-01-02-0098	SUPPLY OF SPARE PARTS FOR COOLING. TOWERS	4	ITEM	As above	
08-10-01-02-0099	SUPPLY OF SPARE PARTS FOR PUMPS (VARIOUS)	15	ITEM	As above	
08-10-01-02-0100	MOBILE PIPE CONNECTING/DISCONNECTING MACHINE	2	NOS.	As above	
08-10-01-02-0101	SUPPLY OF ASPHALT PLANT WITH SPARE PARTS	1	PLANT	As above	
08-10-01-02-0102	SUPPLY OF CONCRETE PLANT WITH SPARE PARTS	1	PLANT	As above	

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : ALL AREAS

PROJECT 01-02 : REHABILITATION /REVAMPING OF EXISTING  
INSTALLATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-02-0103	SUPPLY OF INSULATION TAPE AND PRIMER AND PIGS	12	ITEM	Repair and maintenance requirements	
08-10-01-02-0104	SUPPLY OF WELDING. TRACTORS WITH RECOMMENDED SPARE PARTS	2	ITEM	"	
08-10-01-02-0105	MOBILE DIESEL DRIVEN WELDING MACHINE. WITH RECOMMENDED SPARE PARTS	10	ITEM	"	
08-10-01-02-0106	SUPPLY OF MOBILE BOILER & AIR COMPRESSORS WITH RECOMMENDED SPARE PARTS	3	ITEM	"	
08-10-01-02-0107	SUPPLY OF PLASMA AUTOMATIC CUTTING MACHINE WITH RECOMMENDED SPARE PARTS	1	ITEM	"	
08-10-01-02-0108	REHABILITATION OF TRAIN (A) & TRAIN (B) OF AB-2 COMPRESSOR STATION.	2	CONTRACT	Contracts for production related surface installation repair	
08-10-01-02-0109	REHABILITATION OF TRAIN (B) OF AB-3 COMPRESSING STATION.	1	CONTRACT	"	
08-10-01-02-0110	REHABILITATION OF COMPRESSING AND SWEETENING SYSTEMS OF EASTERN BAGHDAD OIL FIELDS.	4	CONTRACT	"	
08-10-01-02-0111	SUPPLY OF MATERIALS & EQUIPMENT FOR REHABILITATION & UPGRADING OF CATHODIC PROTECTION STATIONS.	100	ITEM	Maintenance of cathodic protection systems	

**MINISTRY OF OIL**
**SHEET NO.: 15 OF 27**
**ESTABLISHMENT NAME : NORTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 01-02 : REHABILITATION /REVAMPING OF EXISTING  
INSTALLATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-02-0112	REPLACEMENT OF INDUSTRIAL AREA ELECTRICAL SUB STATIONS (11,3.3,0.4) KV WITH SPARE PARTS	20	ITEM	Electrical requirements for Baba industrial area	
	REPAIR OF EXISTING STEAM TURBINES WITH SPARE PARTS	4	ITEM		
08-10-01-02-0113	REPLACEMENT OF ALL OBSOLETE ELECTRICAL NET WORK AT K1 TANK FARM .	50	ITEM	K1 electrical requirements	
08-10-01-02-0114	REPLACEMENT OF OBSOLETE CONTROL SYSTEM & SEQUENCING AT (IT1 & IT1A PUMP STATION, K3 PUMP STATION) : - CONTROL SYSTEM FOR MAIN/BOOSTER PUMPS & STATION - TANK GAUGING SYSTEM - INSTRUMENTS - INSTRUMENTS & SUCKER ROD PUMPS ELECTRICALLY DRIVEN WITH ALL ACCESSORIES & RECOMMENDED SPARE PARTS FOR SUFAYA FIELD - INSTRUMENTATION FOR K3	204	ITEM	Control and sequencing replacements for ITP export line	
08-10-01-02-0115	REPLACEMENT OF CONTROL & MEASURING INSTRUMENTS FOR: BAI HASSAN DEGASSING STATIONS & POWERHOUSE.	50	ITEM	Replacement of control instrumentation at Bai Hassan	
08-10-01-02-0116	FLOW METER COMPLETE WITH ACCESSORIES FOR LPG UNDER GROUND STORAGE.	20	SET	Metering and control system for proposed Baba LPG storage	
08-10-01-02-0117	VIBRATION MONITORING SYSTEM FOR GAS COMPRESSOR STATIONS.	50	ITEM	NDT requirements for gas compressor stations	
08-10-01-02-0118	SUPPLY OF TERRY STEAM TURBINES FOR THE CRUDE PROCESS PLANTS	8	ITEM	new sector code	

**MINISTRY OF OIL****SHEET NO.: 16 OF 27****ESTABLISHMENT NAME : NORTH OIL COMPANY****LOCATION : ALL AREAS / DRILLING****PROJECT 01-03 : SUSTAINING AND ENHANCING PRODUCTION  
CAPABILITIES**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-01-03-0125</b>	LOGGING SERVICES CONTRACT TO SURVEY 50 WELLS.	<b>5</b>	<b>CONTRACT</b>	Contract for logging services	
<b>08-10-01-03-0126</b>	SERVICES CONTRACT FOR UNDER GROUND STORAGE CAVITIES FOR LPG ( FEASIBLE STUDY AND WORK EXECUTION TO CREATE THREE CAVITIES WITH ALL EQUIPMENT, MATERIALS AND SOFTWARE REQUIREMENT)	<b>3</b>	<b>CONTRACT</b>	Contract to establish 3 new LPG underground storage cavities in salt domes	
<b>08-10-01-03-0127</b>	WELL HEADS & X-MAS TREES WITH ACCESSORIES & SPARE PARTS.	<b>25</b>	<b>SET</b>	Requirements for sustaining production in NOC region	
<b>08-10-01-03-0128</b>	CASING ACCESSORIES (VARIOUS)	<b>5000</b>	<b>NOS.</b>	As above	
<b>08-10-01-03-0129</b>	CASING AND TUBING (B135 SIZES, GRADES AND WEIGHTS).	<b>100000</b>	<b>MTR.</b>	As above	
<b>08-10-01-03-0130</b>	TRAILER MOUNTED CEMENTING UNITS WITH TRACTIVE UNIT, ALL ACCESSORIES & SPARE PARTS FOR 2 YEARS OPERATION.	<b>2</b>	<b>UNIT</b>	As above	
<b>08-10-01-03-0131</b>	MEASURING INSTRUMENTS FOR ENVIRONMENTAL PROTECTION, COMPLETE WITH ALL ACCESSORIES SPARE PARTS	<b>10</b>	<b>SET</b>	Environmental measuring equipment	
<b>08-10-01-03-0132</b>	SPARES (RUBBER LINED, VALVES AND FITTINGS) FOR HYDROCHLORIC ACID STORAGE PLANT .	<b>1</b>	<b>SET</b>	Spares required for well workover	
<b>08-10-01-03-0133</b>	SERVICE CONTRACT FOR PRODUCTION LOGGING OF WELLS .	<b>2</b>	<b>CONTRACT</b>	Well logging contracts	

**MINISTRY OF OIL**
**SHEET NO.: 17 OF 27**
**ESTABLISHMENT NAME : NORTH OIL COMPANY**
**LOCATION : ALL AREAS / DRILLING**
**PROJECT 01-03 : SUSTAINING AND ENHANCING PRODUCTION**
**CAPABILITIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-03-0134	CEMENT TRANSPORT SILOES WITH TRACTIVE UNITS EQUIPPED WITH AIR COMPRESSORS AND ALL NECESSARY ACCESSORIES AND SPARE PARTS .	3 1	UNIT LOT	NOC requirements for well-workovers throughout region	
08-10-01-03-0135	AIR COMPRESSORS FOR CEMENTING UNITS WITH SPARE PARTS	8 1	UNIT LOT	As above	
08-10-01-03-0136	CEMENT SILOES SKID MOUNTED WITH ALL NECESSARY ACCESSORIES AND SPARE PARTS .	8 1	UNIT LOT	As above	
08-10-01-03-0137	DST TOOLS COMPLETE SETS WITH ALL ACCESSORIES & SPARE PARTS	1 1	SET LOT	As above	
08-10-01-03-0138	SURGE TANK FOR CEMENTING OPERATIONS	10	NOS.	As above	
08-10-01-03-0139	TRUCK MOUNTED WIRE LINE UNITS WITH SPARE PARTS	2	UNIT	As above	
08-10-01-03-0140	MOBILE WELL TESTING SEPARATORS	1	UNIT	As above	
08-10-01-03-0141	MUD MATERIALS	15000	TON	As above	
08-10-01-03-0142	CEMENT AND ADDITIVES	5000	TON	As above	
08-10-01-03-0143	ACID CORROSION INHIBITOR .	150	DRUM	As above	
08-10-01-03-0144	SPARE PARTS FOR FIELD MEASUREMENT & TESTING EQUIPMENT	100	ITEM	As above	
08-10-01-03-0145	SPARE PARTS FOR CEMENTING UNITS & TYRES.	250	ITEM	As above	

**MINISTRY OF OIL****SHEET NO.: 18 OF 27****ESTABLISHMENT NAME : NORTH OIL COMPANY****LOCATION : ALL AREAS / DRILLING****PROJECT 01-03 : SUSTAINING AND ENHANCING PRODUCTION****CAPABILITIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-03-0146	TUBING HEAD SPOOL, X-MAS TREE, DSA's & ACCESSORIES	25	SET	Head valves, flow line, etc for 25 wells	
08-10-01-03-0147	TUBING (VARIOUS SIZES, GRADES & WEIGHTS) .	60000	MTR	As above	
08-10-01-03-0148	SURFACE CONTROL LINE FOR S.S. VALVES WITH CONTROL PANEL.	60	SET	As above	
08-10-01-03-0149	WIRE LINE EQUIPMENT & SPARES FOR FIELD MEASUREMENT & EQUIPMENT FOR WELL COMPLETION .	1	SET	Well workover requirements	
08-10-01-03-0150	COILED TUBING UNIT & NITROGEN UNIT TRAILER TYPE .	1	SET	Well workover requirements	
08-10-01-03-0151	CUSTODY TRANSFER METER & PROVERS FOR CRUDE OIL INCLUDING: P.D. METERS TURBINE METERS, MOBILE BI- DIRECTIONAL PROVER & MOBILE MASTER METER PROVER	30	ITEM	Metering systems for internal distribution control	
08-10-01-03-0152	DRILLING SERVICE CONTRACT FOR DRILLING (100) WELLS IN DIFFERENT FIELDS	2	CONTRACT	New sector code	

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : ALL AREAS

PROJECT 01-04 : SAFETY AND ENVIRONMENTAL PROTECTION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-04-0160	VARIOUS TYPES OF DIESEL PUMPS FOR ALL NOC FIELDS : - SLUDGE DIESEL PUMP, WITH RECOMMENDED SPARE PARTS. - FIRE FIGHTING DIESEL PUMP WITH RECOMMENDED SPARES. - INJECTION PUMP DRIVEN BY DIESEL ENGINE, TRAILER MOUNTED WITH VEHICLE, WITH RECOMMENDED SPARE PARTS.	3	ITEM	Diesel pump equipment for firefighting	
		1	ITEM	As above	
		2	ITEM	As above	
				As above	
08-10-01-04-0161	- BREATHING AIR COMPRESSOR WITH TWO YEARS RECOMMENDED SPARE PARTS	1	ITEM	Compressor for air cylinders as below	
08-10-01-04-0162	UNIVERSAL (WATER, FOAM, POWDER) F.F. TRUCK, WITH RECOMMENDED SPARE PARTS	3	ITEM	Fire fighting equipment	
08-10-01-04-0163	GULLY EMPTYING TRUCK, WITH RECOMMENDED SPARE PARTS	1	ITEM	Pollution control	
08-10-01-04-0164	COMPRESSED AIR BEATHING APPARATUS WITH RECOMMENDED SPARE PARTS	150	NOS.	BA Sets for safety	
08-10-01-04-0165	OXYGEN BRATHING APPARATUS, COMPLETE, WITH SPARE PARTS & TECHNICAL CATALOGUES	80	UNIT	02 breathing sets	

**MINISTRY OF OIL****SHEET NO.: 20 OF 27****ESTABLISHMENT NAME : NORTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 01-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-05-0170	SUPPLY OF CHILLED WATER COOLING COILS	25	ITEM	Requirements for drilling and maintenance in all NOC areas	
08-10-01-05-0171	SUPPLY OF WATER PUMPS FOR COOLING SYSTEM	2	ITEM	As above	
08-10-01-05-0172	COOLING EQUIPMENT FOR I.T.P. STATIONS WITH RECOMMENDED SPARE PARTS	8	ITEM	As above	
08-10-01-05-0173	HYDRAULIC CRANE (30) TONS CAPACITY, WITH RECOMMENDED SPARE PARTS .	3	SET	General maintenance requirement	
08-10-01-05-0174	PIPE CARRIER 6X4 KING PIN 3.5, 30 TON CAPACITY, WITH RECOMMENDED SPARE PARTS	5	ITEM	Requirements for drilling and maintenance in all NOC areas	
08-10-01-05-0175	TRACTOR UNITS WITH LOW BED-SEMITRAILER,(6x4) (70) TONS, WITH RECOMMENDED SPARE PARTS.	3	ITEM	As above	
08-10-01-05-0176	CRAWLER EXCAVATOR WITH AUXILIARY HAMMER WITH RECOMMENDED SPARE PARTS.	2	ITEM	As above	
08-10-01-05-0177	WHEEL LOADER (HYDRAULIC), WITH RECOMMENDED SPARES.	3	ITEM	As above	
08-10-01-05-0178	BUS (18-45) SEATERS, 4x2 WITH RECOMMENDED SPARE PARTS.	10	ITEM	As above	

**MINISTRY OF OIL****SHEET NO.: 21 OF 27****ESTABLISHMENT NAME : NORTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 01-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-05-0179	MOBILE HYDRAULIC CRANE WITH A JIB REACHING A HEIGHT OF UP TO 100 METRES, 10 x 8, DIESEL ENGINES, H.P (435) & (207) WITH RECOMMENDED SPARE PART .	1	SET	High reach cranes to maintain vessels/heat exchangers etc mounted in surface plants	
08-10-01-05-0180	LOADING TRUCKS BALANCE (FOR WEIGHING TRUCKS) CAPACITY: 100 TON, WITH TICKET PRINTER WITH TWO YEARS RECOMMENDED ITEMIZED AND PRICED SPARE PARTS & TWO COPIES OF OPERATION AND MAINTENANCE MANUALS IN ENGLISH TO BE SUPPLIED WITH EACH BALANCE.	3	SET	Balance for truck weighing regarding control of fuel distribution	

**MINISTRY OF OIL**
**SHEET NO.: 22 OF 27**
**ESTABLISHMENT NAME : NORTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 01-06 : TESTING, INSPECTION, STUDIES, SURVEYS &  
LABORATORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-06-0185	SURVEYING EQUIPMENT.	12	ITEM	Land survey equipment	
08-10-01-06-0186	ARTIFICIAL LIFT FEASIBILITY STUDY FOR KIRKUK OIL FIELD TERTIARY RESERVOIR ( DESIGN AND CONSULTATION) .	1	CONTRACT	Study to increase production from Kirkuk field	
08-10-01-06-0187	LAB. TESTING EQUIPMENT FOR OIL WATER & GAS	200	ITEM	Quality control purposes	
08-10-01-06-0188	CORE LAB. TESTING EQUIPMENT & THIN SECTION SLIDE MACHINE FOR ROCK & CORE WITH ALL ACCESSORIES & SPARE PARTS + SUPPORTING SOFTWARE .	3	SET	Equipment for core sample analyses	
08-10-01-06-0189	- 3D SEISMIC SERVICE CONTRACT FOR KIRKUK OIL FIELD	1	CONTRACT	Seismic survey requirements	
	- RESERVOIR STUDY FOR KIRKUK OIL FIELD/TERTIARY RESERVOIR	1	CONTRACT	Reservoir study to enhance overall yield	
08-10-01-06-0190	SOFTWARE AND HARDWARE PACKAGE FOR RESERVOIR ENGINEERING AND MANAGEMENT COVERING PRODUCTION WELL & FLOW LINES EVALUATION & ANALYSIS, LOGGING INTERPRETATION, DATABASE AND ARCHIVING SYSTEM, THE - RELEVANT UPDATEABLE SOFTWARE (SPECIALIZED & GENERAL) - LANS WITH SERVERS CONNECTED TO PCS & WORKSTATIONS, NETWORK MATERIALS AND ALL RELEVANT PERIPHERALS [SCANNERS (A0,A3,A4), PLOTTERS (A0,A3), PRINTERS, UPS, CDW & TAPE STORAGE MULTIMEDIA ...ETC] - SUPPORTING UNITS AND MATERIALS	3	SYSTEM	System for reservoir engineering and management to increase production	
08-10-01-06-0191	FIELD & ON LINE ANALYZER	12	ITEM		

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : JAMBUR FIELD

PROJECT 01-07 : DEVELOPMENT PROJECT (JAMBUR FIELD )

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-07-0195	<b>GAS PRODUCTION FROM JAMBUR FIELD CONSISTING OF:</b>  - PRESSURE REDUCTION SKID - SWEETENING PLANT - DEHYDRATION UNITS - HEATERS - SEPARATORS - TRANSFER PIPELINES - SET OF PUMPS AND MOTOR TO SUITE THE PLANT - CONTROL SYSTEM - CHEMICALS - ELECTRICAL SWITCH AND ACCESSORIES	5	CONTRACT	Requirements for initiating	
				gas production from Jambur	
				field for use in gas	
				fired power stations	
				"	
				"	
				"	
				"	
				"	
				"	

MINISTRY OF OIL

SHEET NO.: 24 OF 27

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : KIRKUK FIELD

PROJECT 01-08 : DEVELOPMENT PROJECT  
(KHURMALA DOME PROJECT )

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-08-0196	- LINES PIPES, DIFFERENT DIAMETERS CONSISTING OF FLOW LINES, TRUNK LINES, SERVICE LINES ( OIL, GAS & WATER ) INCLUDING LAUNCHERS & RECEIVERS TRAPS, WRAPPING MATERIALS, STRUCTURAL STEEL FOR SUPPORTS, LIGHTING & CATHODIC PROTECTION SYSTEM. - MATERIALS FOR WELL HEAD CONNECTIONS - CONSTRUCTION MATERIALS, CONSTRUCTION AIDS AND □ CONSUMABLES - DRAINAGE SYSTEM INCLUDING PIPING & DRAINAGE VESSELS - VALVES AND FITTINGS - SPERATION BANKS ( 2 X 25000 BPD ) PRODUCTION 3 PHASE SEPARATC - TEST BANK ( 1 X 10000 BPD ) 3 PHASE SEPARATOR - BALACE VESSELS ( 1 X 50000 BPD ) - PUMPS ( MAIN CRUDE PUMPS ) TO BE CONTINUED	500000	METER	Requirements for	
				100,000 barrels per day	
				development project	
				at the	
				Khurmala Dome.	
		65	SET	(Please note this is a	
		100	ITEM	provisional listing)	
				As above	
		3	SET	As above	
		3	SET	As above	
		3	SET	As above	
		3	SET	As above	
		2	NOS.	As above	
		3	SET	As above	

MINISTRY OF OIL

SHEET NO.: 25 OF 27

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : KIRKUK FIELD

PROJECT 01-08 : DEVELOPMENT PROJECT  
(KHURMALA DOME PROJECT )

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-08-0197	- FLOW TANKS ( 36000 BBL CAPACITY )	3	SET	Continuation of	
	- WET CRUDE TREATMENT (HEAT EXCHANGERS DEHYDRATORS, DESALTERS, PUMPS AND CHEMICALFEED SYSTEMS) (2 X 60000 BPD)	2	NOS.	Khurmala Dome	
				Project	
	- EFFLUENT WATER TREATMENT UNIT (CPI, FILTERS, PUMS) BLOWERS AND CHEMICALS ( 1 X 6000 )	1	SET	As above	
	- GAS COMPRESSION TRAIN ( 50 MMSCFD EACH )	3	SET	As above	
	- GAS DEHYDRATION ( 100 MMSCFD )	1	SET	As above	
	- FORMATION WATER TANKS 5000 BBL	2	NOS.	As above	
	- FRESH WATER TANKS ( 5000 BBL)	2	NOS.	As above	
	- FRESH WATER TANK ( 15000 BBL)	2	NOS.	As above	
	- UTILITIES (FIRE-FIGHTING, COMPRESSED AIR, DRAIN FUEL GAS...ETC)	20	ITEM	As above	
	- PIPES, VALVES AND FITTING...ETC	200	ITEM	As above	
	TO BE CONTINUED				

MINISTRY OF OIL

SHEET NO.: 26 OF 27

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : KIRKUK FIELD

PROJECT 01-08 : DEVELOPMENT PROJECT  
(KHURMALA DOME PROJECT )

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-06-0198	- ELECTRICAL ( POWER GENERATION, TURBO ELECTRIC GAS GENERATORS)	2	SET	Final listing of Khurmala Dome project	
	- ELECTRICAL SYSTEM FEEDING FROM NATIONAL GRID SUBSTATIONS TRANSFORMERS OVERHEAD, CABLING AND INTERNAL DISTRIBUTION AND LIGHTING SYSTEM.	30	ITEM	As above	
	- INSTRUMENTATION SYSTEMS			As above	
	- TELECOMMUNICATION SYSTEMS			As above	
	- WELDING RODS, CONSTRUCTION MATERIALS AND CONSUMABLES	80	ITEM	As above	

ESTABLISHMENT NAME : NORTH OIL COMPANY

LOCATION : SINJAR AREA

PROJECT 01-09 : DEVELOPMENT PROJECT  
(UNDER GROUND STORAGE )

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-01-09-0199	SERVICES CONTRACT FOR UNDER GROUND STORAGE IN SALT CAVITIES IN SINJAR AREA (AIN GHAZAL STRUCTURE ).	2	CONTRACT	Contract for underground storage facilities	
08-10-01-10-0200	(3) SETS GAS COMPRESSORS COMPLETE WITH ALL ACCESSORIES & RECOMMENDED SPARE PARTS, INCLUDING - GAS TURBINES - GAS COMPRESSORS - SUCTION SCRUBBER - DISCHARGE SCRUBBER - SOUR GAS AIR COOLER - FUEL GAS SYSTEM - CONTROL SYSTEM - AIR COMPRESSOR WITH DRYER - ELECTRIC GENERATOR STEP DOWN TRANSFORMER - POWER DISTRIBUTION & SWITCH GEAR - OTHER ACCESSORIES SUCH AS VALVES & FITTINGS	3	CONTRACT		

**MINISTRY OF OIL**
**SHEET NO.: 1 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 02-01 : MAINTENANCE & OPERATION**


CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0220	SPARE PARTS FOR ELECTRICAL SUBMERSIBLE PUMP	100	ITEM	Parts and equipment for drilling	
08-10-02-01-0221	SPARE PARTS FOR PUMPING UNITS	100	ITEM	and well completion	
08-10-02-01-0222	SPARE PARTS FOR X-MASS TREE AND WELL HEAD	100	ITEM	in SOC area	
08-10-02-01-0223	SPARE PARTS & ACCESSORIES FOR CEMENTING STORAGE TANKS	100	ITEM	As above	
08-10-02-01-0224	DEMULSIFIER FOR CRUDE OIL TREATMENT	25000	DRUM	Dewatering chemicals for wet crude oil	
08-10-02-01-0225	TRI ETHYLENE GLYCOL FOR GAS TREATMENT	750	TON	Consumable for gas drying	
08-10-02-01-0226	WATER TREATMENT CHEMICALS COMPRISED MAINLY OF ALUMINIUM SULPHATE, ZINC SULPHATE, POLY ACHRYMIDE & SODIUM DICHROMATE	4020	TON	Treatment chemicals for water injection and industrial water treatment	
08-10-02-01-0227	QUALITY CONTROL APPARATUS & CHEMICALS FOR OIL & GAS TREATMENT	1685 3420	NOS. LTR.	Apparatus and consumables for treatment	
08-10-02-01-0228	OVER HAUL FOR STRATEGIC PIPELINE GAS TURBINES (3 NOS.)	3	CONTRACT	Turbine repairs for strategic line	
08-10-02-01-0229	S/P FOR STRATEGIC PIPELINE GAS TURBINES	1200	NOS.	Spare parts for above	
08-10-02-01-0230	S/P FOR STRATEGIC PIPELINE GAS COMPRESSORS	1050	NOS.	"	
08-10-02-01-0231	SERVICE CONTRACT FOR LINING OF (3 NOS) CRUDE OIL STORAGE TANKS AT (Z1 & Z2)	1	CONTRACT	Epoxy resin lining for tanks	
08-10-02-01-0232	WELL HEAD MAINTENANCE MOBILE WORK SHOP AND TRUCK WITH LIFT CRANE	10	NOS.	Workshop and lifting equipment for well head maintenance	

**MINISTRY OF OIL****SHEET NO.: 2 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 02-01 : MAINTENANCE & OPERATIONS****RAW WATER & INDUSTRIAL WATER PIPE LINES &  
ACCESSORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0233	PIPE LINE API 5L GRADE X-42 & GR.B OF SIZES (12,14,16,20,24) INCH OF DIFFERENT THICKNESS.	100	KM.	Requirements for raw and	
08-10-02-01-0234	PIPE LINE FITTINGS INCLUDING ELBOWS, TEES, REDUCERS, FLANGES, GASKET & BOLTS OF DIFFERENT SIZES & THICKNESS.	100	ITEM	industrial water distribution	
08-10-02-01-0235	VALVES ( GATE, BALL, CHECK ) OF DIFFERENT SIZES FOR THE ABOVE PIPES AND DIFFERENT ANSI CLASS.	50	ITEM	throughout	
08-10-02-01-0236	WATER PUMPS ELECTRICAL DRIVEN & DIESEL DRIVEN COMPLETE WITH INTER CONNECTING PIPING & LOCAL MCC & CONTROL SYSTEM WITH SPARE PARTS.	20	SET	SOC	
08-10-02-01-0237	ELECTRICAL FEEDING TRANSFORMERS, SWITCHGEARS, CABLING, ACCESSORIES AND SPARE PARTS.	50	ITEM	area	

**MINISTRY OF OIL****SHEET NO.: 3 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 02-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0238	SPARE PARTS FOR DIESEL ENGINES	750	ITEM	General maintenance	
08-10-02-01-0239	LOW & MEDIUM VOLTAGE ELECTRICAL MOTORS & ACCESSORIES	200	ITEM	requirements	
08-10-02-01-0240	LOW & MEDIUM VOLTAGE SWITCH GEAR & ACCESSORIES	350	ITEM	throughout	
08-10-02-01-0241	ELECTRIC TRANSMISSION LINE POWER TRANSFORMER AND ACCESSORIES	150	ITEM	SOC	
08-10-02-01-0242	BALL AND ROLL BEARING DIFFERENT SIZE FOR MOTOR & PUMPS MAINTENANCE	200	ITEM	area	

**LOCATION : ALL AREAS****PROJECT 02-01 : MAINTENANCE & OPERATIONS****MATERIALS FOR W/S & WAREHOUSE**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0243	COLD STORES FOR FOOD	10	NOS.	Catering support items	
08-10-02-01-0244	DRINKING WATER COOLER (50-80) LTR CAP.	150	NOS.	for	
08-10-02-01-0245	BAKERY OVEN	30	NOS.	work shops & warehouses	
08-10-02-01-0246	ELECTRICAL COOKER WITH OVEN	25	NOS.	in SOC area	

**MINISTRY OF OIL****SHEET NO.: 4 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 02-01 : MAINTENANCE & OPERATIONS****CRUDE OIL FLOW LINES, VALVES & FITTINGS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0247	PIPE LINE API – 5LX GRADE X-60, X-42, B OF DIAMETERS ( 4”,6”,8”,10”,12”,14”) OF DIFFERENT THICKNESS COATED WITH POLYETHYLENE COATING AND HEAT SHRINKABLE SLEEVE .	900	KM.	Crude flow lines and associated equipment for all NOC areas	
08-10-02-01-0248	PIPE WRAPPING MATERIAL TO INCLUDE PRIMER, INNER AND OUTER WRAPPING TAPES .	50	ITEM	As above	
08-10-02-01-0249	VALVES (GATE, BALL, CHECK, NEEDLE) OF SIZES (1/2,3/4,4,6,8,10,12,14) INCH & OF ANSI RATING OF CLASS 600#, 900#, 1500# & 2500#	200	ITEM	As above	
08-10-02-01-0250	PIPE FITTINGS TO INCLUDE ELBOWS, TEES, WELDOLETS, REDUCERS, GASKETS, STUD BOLTS OF DIFFERENT SIZES AND	1000	ITEM	As above	

**MINISTRY OF OIL****SHEET NO.: 5 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 02-01 : MAINTENANCE & OPERATIONS****CRUDE OIL TRANSFER PIPE LINES, VALVES &  
FITTINGS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0251	PIPE LINES API 5L GRADE X-60 , X-52 , X-42 OF SIZES (18,20,24,26,32,42,48) INCH , COMPLETE WITH COATING	100	KM.	Crude Transfer Lines and associated equipment	
08-10-02-01-0252	VALVES OF DIFFERENT TYPES, SIZES AND PRESSURE RATING	50	ITEM	As above	
08-10-02-01-0253	PIPE FITTINGS TO INCLUDE ELBOWS, TEES, REDUCERS, FLANGES, GASKETS & BOLTS .	200	ITEM	As above	

ESTABLISHMENT NAME : SOUTH OIL COMPANY

LOCATION : MISSAN FIELDS

PROJECT 02-01 : MAINTENANCE &amp; OPERATIONS

DEGASSING STATIONS, OIL STORAGE DEPOTS,  
TANK FARMS & PUMPING STATION FOR MAINTENANCE  
AND OPERATIONS

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0254	PUMPS OF DEFERENT TYPES WITH SPARES & ACCESSORIES	300	ITEM	Maintenance requirements	
08-10-02-01-0255	SPARES FOR LISTER, DEUTZ AND CATERPILLAR ENGINES	1050	ITEM	As above	
08-10-02-01-0256	SPARES FOR INDIRECT CRUDE OIL HEATERS	150	ITEM	As above	
08-10-02-01-0257	INSTRUMENTATION- GENERAL MECHANICAL & ELECTRICAL MATERIALS	600	ITEM	As above	
08-10-02-01-0258	LINE PIPE CARBON STEEL OF DEFERENT SIZES	100	KM.	As above	
08-10-02-01-0259	CONTROL PANEL FOR SOLAR TURBINE / OR RETROFIT	50	ITEM	Retrofit control panel for turbine in Missan field	
08-10-02-01-0260	VALVES & PIPE FITTINGS	31,620	NOS.	Maintenance requirements	
08-10-02-01-0261	CRUDE OIL TANK MAINTENANCE EQUIPMENT	3	ITEM	De-sludgers	
08-10-02-01-0262	FLARE SYSTEMS FOR DEGASSING STATIONS	2	SET	Flare equipment	

**MINISTRY OF OIL****SHEET NO.: 7 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : MISSAN FIELDS****PROJECT 02-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0263	FRESH WATER NET WORK	50	ITEM	Plant & drinking water requirements	
08-10-02-01-0264	EMERGENCY GENERATORS WITH SPARE AND ACCESSORIES (11) GENERATORS	300	ITEM	Stand-by power	
08-10-02-01-0265	SKID MOUNTED ELECTRIC SUBSTATION (132/33) KV CAPACITY 15MW	100	ITEM	Electrical Sub-station	
08-10-02-01-0266	TOOLS & EQUIPMENT FOR MAINTENANCE OF FIELD DEVICES	100	ITEM	Maintenance requirements	
08-10-02-01-0267	COMMUNICATION EQUIPMENT NEEDED FOR ALL DEG. STATIONS WITH SPARES & ACCESSORIES	150	ITEM	Replacement control equipment	

**MINISTRY OF OIL****SHEET NO.: 8 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : AL BAKER TERMINAL****PROJECT 02-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0268	WORK SHOP MOUNTED ON FLOATING PONTOON WITH CRANE 250 TONS (L.CAPACITY)	50	ITEM	Repair requirements for Mina al-Bakr terminal	
08-10-02-01-0269	FIELD DEVICES & EQUIPMENT & SPARE PARTS FOR TELESCOPIC GANG WAY & HYDRAULIC UNITS	200	ITEM	As above	

**LOCATION : ZUBAIR, NORTH & SOUTH RUMAILA****PROJECT 02-01 : MAINTENANCE & OPERATIONS****DEGASSING STATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0270	SPARE PARTS FOR RUSTON TA-1750 GAS TURBINES .	180	ITEM	Maintenance requirements for de-gassing stations	
08-10-02-01-0271	SPARE PARTS FOR BYRON JACKSON & UNITED PUMPS .	100	ITEM	As above	
08-10-02-01-0272	SPARE PARTS FOR FRESH & SALTY WATER PUMPS .	165	ITEM	As above	

**MINISTRY OF OIL****SHEET NO.: 9 OF 44**

**ESTABLISHMENT NAME : SOUTH OIL COMPANY**  
**LOCATION : NORTH & SOUTH RUMAILA**  
**PROJECT 02-01 : MAINTENANCE & OPERATIONS**  
**GAS COMPRESSION STATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0273	SPARE PARTS FOR HITACHI GAS COMPRESSORS .	150	ITEM	Gas compression station	
08-10-02-01-0274	SPARE PARTS FOR NOUVO PIGNONE GAS TURBINES .	50	ITEM	turbine and	
08-10-02-01-0275	SPARE PARTS FOR BROOM & WADE AIR COMPRESSORS .	200	ITEM	compressor	
08-10-02-01-0276	SPARE PARTS FOR TURBO COMPRESSORS & TURBO GENERATORS .	150	ITEM	maintenance	
08-10-02-01-0277	SPARE PARTS FOR NATURAL GAS REFRIGERATION UNIT & GLYCOL REGENERATOR	120	ITEM	requirements in	
08-10-02-01-0278	UNITS & SPARES FOR GAS COMPRESSION STATIONS	30	ITEM	SOC area	

**LOCATION : NORTH, SOUTH RUMAILA & GARMA**  
**PROJECT 02-01 : MAINTENANCE & OPERATIONS**  
**WATER TREATMENT & INJECTION SYSTEM**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0279	PUMPS & SPARE PARTS FOR WATER TREATMENT & WATER INJECTION STATIONS .	500	ITEM	maintenance requirements for Gharmat Ali water intake and treatment plant for SOC treated water systems	

MINISTRY OF OIL

SHEET NO.: 10 OF 44


ESTABLISHMENT NAME : SOUTH OIL COMPANY

LOCATION : OIL STORAGE DEPOTS, TANKFARMS & PUMP  
STATIONS

PROJECT 02-01 : MAINTENANCE & OPERATIONS

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-01-0280	SPARE PARTS FOR A.A.F MULTI DUTY AIR FILTERS TYPE : DD PANEL & OVERHEAD CRANES	40	ITEM	General maintenance requirements	
08-10-02-01-0281	SPARE PARTS FOR VERTICAL BOOSTER PUMPS & VERTICAL CENTRIFUGAL PUMPS .	70	ITEM	As above	
08-10-02-01-0282	SPARE PARTS FOR INGERSOLL RAND GAS TURBINES GT / 53	10	ITEM	As above	
08-10-02-01-0283	UNITS & SPARES FOR OIL DEPOTS TANK FARMS & PUMP STATIONS	200	ITEM	As above	

**MINISTRY OF OIL****SHEET NO.: 11 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL FIELDS****PROJECT 02-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-02-01-0284</b>	INTELLIGENT PIGGING OF PIPELINES	4	CONTRACT	Contracts to establish condition of SOC pipelines	
		500	ITEM		
<b>08-10-02-01-0285</b>	PIPELINES COATING INSPECTION & CATHODIC PROTECTION ASSESSMENT	500	ITEM	NDT inspection and assessment	
<b>08-10-02-01-0286</b>	EQUIPMENT & MATERIALS FOR ENGINEERING INSPECTION ACTIVITIES	600	ITEM	Pipeline NDT requirements	
<b>08-10-02-01-0287</b>	EQUIPMENT & MATERIALS FOR WELDING TRAINING CENTER	600	ITEM	Training equipment	
<b>08-10-02-01-0288</b>	EQUIPMENT & MATERIALS FOR CATHODIC PROTECTION SYSTEMS	600	ITEM	Pipeline protection requirements	
<b>08-10-02-01-0289</b>	COMPUTER FORM GREEN OR BLUE BARLINE CONTINUOUS ONE AND TWO PLY SIZE 14.5" X 11" 2000 SHEET PER BOX	5000	BOX	NON OIP new sector code	

**LOCATION : ZUBAIR, NORTH & SOUTH RUMAILA****PROJECT 02-02 : REHABILITATION / REVAMPING OF EXISTING  
INSTALLATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-02-02-0299</b>	SERVICE CONTRACT TO REFURBISH GOVERNOR'S ACTUATORS, LIMITERS & GAS VALVES .	10	CONTRACT	Contracts to maintain pipeline operations	
<b>08-10-02-02-0300</b>	SERVICE CONTRACT ENGINEERING INSPECTION OF ROTATING MACHINERIES & ASSOCIATED EQUIPMENT	15	CONTRACT	Contracts to ascertain condition of machinery	

MINISTRY OF OIL

SHEET NO.: 12 OF 44

ESTABLISHMENT NAME : SOUTH OIL COMPANY

LOCATION :TUBA TANK FARM CONTINUATION OF  
THE REHABILITATION OF TUBA TANK FARM

PROJECT 02-02 : REHABILITATION / REVAMPING OF EXISTING  
INSTALLATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-02-0301	- STORAGE TANKS CAPACITY (66) THOUSAND M <sup>3</sup> WITH ALL ANCILARY SYSTEMS ( FIRE FIGHTING, CATHODIC PROTECTION, LEVEL MEASUREMENT AND INSTRUMENTATION , MIXERS, SEALS, PAINTS EXTERNAL LIGHTING SYSTEMS) AND CONSTRUCTION MATERIALS AND CONSUMABLE - VERITCAL ELECTRICAL BOOSTER PUMPS WITH ACCESSORIES - BULK MATERIALS FOR ABOVE (PIPING AND FITTINGS, WRAPPING MATERIALS, ELECTRICAL CABLES AND ACCESSORIES AND INSTRUMENTATION	4	SET	Requirements to construct	
				4 x 66,000M3 floating	
				roof crude oil	
				storage tanks	
				at Tuba tank farm	
		3 20	SET ITEM		

**MINISTRY OF OIL**
**SHEET NO.: 13 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : ZUBAIR - 2 TANK FARM**
**PROJECT 02-02 : REHABILITATION / REVAMPING OF EXISTING  
INSTALLATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-02-0302	- STORAGE TANKS CAPACITY (58) THOUSAND M <sup>3</sup> WITH ALL ANCILARY SYSTEMS FIRE FIGHTING, CATHODIC PROTECTION, LEVEL MEASUREMENT AND INSTRUMENTATION , MIXERS, SEALS, EXTERNAL LIGHTING SYSTEMS, PAINTS, CONSTRUCTION MATERIALS AND CONSUMABLE	5	SET	Requirements to construct	
				5 x 58,000M3 floating	
				roof storage tanks	
				for crude storage	
				at Zubair - 2	
				tank farm	
	- BULK MATERIALS FOR ABOVE (PIPING AND FITTINGS, WRAPPING MATERIALS, ELECTRICAL CABLES AND ACCESSORIES AND INSTRUMENTATION	25	ITEM		
	- VALVES, FITTINGS,.... ETC	14	ITEM		

**MINISTRY OF OIL**
**SHEET NO.: 14 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : ZUBAIR-1 TANK FARM**
**PROJECT 02-02 : REHABILITATION / REVAMPING OF EXISTING  
INSTALLATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-02-0303	- STORAGE TANKS CAPACITY (33) THOUSAND M <sup>3</sup> WITH ALL ANCILLARY SYSTEMS (FIRE FIGHTING, CATHODIC PROTECTION, LEVEL MEASUREMENT & INSTRUMENTATION, SEALS, MIXERS EXTERNAL LIGHTING SYSTEM, PAINTS, CONSTRUCTION MATERIALS & CONSUMABLES - BULK MATERIALS FOR ABOVE (PIPING & FITTINGS, WRAPPING MATERIALS, ELECTRICAL CABLES & ACCESSORIES & INSTRUMENTATION - VALVES, FITTINGS... ETC.	1	SET	Requirements to construct	
				1 x 33,000M3 crude oil	
				floating roof storage	
				tank at	
				Zubair - 1 Tank Farm	
		5	ITEM		
		4	ITEM		

**MINISTRY OF OIL****SHEET NO.: 15 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 02-02 : REHABILITATION / REVAMPING OF EXISTING  
INSTALLATION**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-02-0304</b>	<b>REFURBISHMENT OF VARIOUS TURBINE UNITS &amp; ASSOCIATED PARTS &amp; EQUIPMENT / SERVICE CONTRACTS</b>	<b>50</b>	<b>ITEM</b>	Repair and maintenance requirements	
<b>08-10-02-02-0305</b>	<b>REHABILITATION OF ELECTRICAL SYSTEMS &amp; SPARES</b>	<b>1185</b>	<b>NOS</b>	Repair and maintenance requirements	
<b>08-10-02-02-0306</b>	<b>REHABILITATION OF MECHANICAL EQUIPMENT &amp; SPARES</b>	<b>800</b>	<b>ITEM</b>	Repair and maintenance requirements	
<b>08-10-02-02-0307</b>	<b>REHABILITATION OF INSTRUMENTATION EQUIPMENT &amp; SPARES</b>	<b>900</b>	<b>ITEM</b>	Repair and maintenance requirements	
<b>08-10-02-02-0308</b>	<b>REHABILITATION OF WORKSHOPS &amp; ENGINEERING SERVICES UNITS &amp; SPARES</b>	<b>900</b>	<b>ITEM</b>	Repair and maintenance requirements	

MINISTRY OF OIL

SHEET NO.: 16 OF 44

ESTABLISHMENT NAME : SOUTH OIL COMPANY

LOCATION : PUMPING STATION-1 AT RUMAILA NORTH

PROJECT 02-03 : SUSTAINING & ENHANCING PRODUCTION

CAPABILITIES

CONTINUATION OF THE SUSTAINING & ENHANCING

PRODUCTION CAPABILITIES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-03-0314	- STORAGE TANKS CAPACITY (82) THOUSAND M <sup>3</sup> WITH ALL	1	SET	Requirements to construct	
	ANCILLARY SYSTEMS (FIRE FIGHTING, CATHODIC PROTECTION,			1 x 82,000M3	
	LEVEL MEASUREMENT & INSTRUMENTATION, MIXERS, SEALS,			storage tank	
	PAINTS, EXTERNAL LIGHTING SYSTEMS, & CONSTRUCTION			at	
	MATERIALS & CONSUMABLES			Rumailah North	
	- BULK MATERIALS FOR ABOVE (PIPING & FITTINGS, WRAPPING	5	ITEM	pumping station	
	MATERIALS, ELECTRICAL CABLES & ACCESSORIES &				
	INSTRUMENTATION				
	- VALVES, FITTINGS... ETC.	4	ITEM		

**MINISTRY OF OIL**
**SHEET NO.: 17 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 02-03 : SUSTAINING & ENHANCING PRODUCTION**
**CAPABILITIES**
**DRILLING, COMPLETION & WORK OVER OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-03-0315	CASING	200	KM.	Requirements for	
08-10-02-03-0316	CASING ACCESSORIES	250	ITEM	drilling	
08-10-02-03-0317	TUBING	295	KM		
	X-OVER SUBS	295	PIECES		
08-10-02-03-0318	TUBING ACCESSORIES	100	ITEM	and completion	
08-10-02-03-0319	WELL HEAD AND X-MASS TREE	100	ITEM	in	
08-10-02-03-0320	VALVES AND FITTINGS	500	ITEM	SOC areas	
08-10-02-03-0321	DRILLING BITS & NOZZLES AND ACCESSORIES	200	ITEM	"	
08-10-02-03-0322	CEMENT & CEMENT ADDITIVES	50	ITEM	"	
08-10-02-03-0323	DRILLING FLUID CHEMICALS	20	ITEM	"	
08-10-02-03-0324	ACID ADDITIVES CHEMICALS	20	ITEM	"	
08-10-02-03-0325	CEMENT AND ACID PUMPING UNITS WITH ACCESSORIES AND SPARE PARTS	200	ITEM	"	
08-10-02-03-0326	AIR COMPRESSOR WITH SPARE PARTS AND ACCESSORIES	100	ITEM	"	
08-10-02-03-0327	MOBILE WORKSHOP WITH CRANE	6	NOS.	"	
08-10-02-03-0328	WELL HEAD WITH ACCESSORIES FOR ESP	100	ITEM	"	
08-10-02-03-0329	ELECTRICAL SUBMERSIBLE PUMP WITH ACCESSORIES & SPARE PARTS	167	ITEM	"	

**MINISTRY OF OIL**
**SHEET NO.: 18 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 02-03 : SUSTAINING & ENHANCING PRODUCTION**
**CAPABILITIES**
**DRILLING, COMPLETION & WORK OVER OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-03-0330	NITROGEN UNIT WITH ACCESSORIES AND SPARE PARTS	1	SET	Drilling, well workover	
08-10-02-03-0331	TANKER FOR TRANSPORTATION OF DRILLING FLUIDS WITH ACCESSORIES AND SPARE PARTS	10	SET	and completion requirements	
08-10-02-03-0332	WIRLINE TOOLS AND ACCESSORIES	500	ITEM	throughout SOC areas	
08-10-02-03-0333	MOBILE MULTI-PHASE FLOWMETER AND ACCESSORIES	50	ITEM	"	
08-10-02-03-0334	PRODUCTION PACKER AND ACCESSORIES	250	ITEM	"	
08-10-02-03-0335	DST TOOLS AND ACCESSORIES	100	ITEM	"	
08-10-02-03-0336	WIRELINE TRUCK UNITS WITH CRANE & SPARE PARTS WITH ACCESSORIES	250	ITEM	"	
08-10-02-03-0337	EQUIPMENT FOR GEOLOGICAL LABS AND ACCESSORIES	50	ITEM	"	
08-10-02-03-0338	SOFTWARE FOR CEMENTING, STIMULATION AND DRILLING FLUIDS SELECTION	50	ITEM	"	
08-10-02-03-0339	PERMANENT RESERVOIR MONITERING AND CONTROL OF OIL PRODUCERS	2	SET	"	
08-10-02-03-0340	SOFTWARE FOR CASING DESIGN , BIT SELECTION AND PORE PRESSURE DETECTION	50	ITEM	"	
08-10-02-03-0341	PLAN-PRINTER	1	NO.	"	
08-10-02-03-0342	DIGITAL ZOOM COPIER	1	NO.	"	
08-10-02-03-0343	DRAWING BOARD COMPLETE	5	SET	"	
08-10-02-03-0344	CABINS FOR MAPS	10	NOS.	"	
08-10-02-03-0345	DATA BANK (SOFTWARE)	10	ITEM	"	
08-10-02-03-0346	ACCESSORIES FOR LOG ANALYSIS CENTER (SUPPLY & INSTALLATION)	100	ITEM	"	

**MINISTRY OF OIL****SHEET NO.: 19 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 02-03 : SUSTAINING & ENHANCING PRODUCTION****CAPABILITIES****DRILLING, COMPLETION & WORK OVER OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-03-0347	CASED-HOLE LOGGING (SERVICE CONTRACT)	1	CONTRACT	Well workover requirements	
08-10-02-03-0348	MUD-LOGGING SERVICES ( SERVICE CONTRACT)	1	CONTRACT	Well workover requirements	
08-10-02-03-0349	DRILLING & COMPLETION OF VERTICAL WELLS IN DIFFERENT OIL FIELDS	5	CONTRACT	Drilling requirements	
08-10-02-03-0350	DRILLING AND COMPLETION OF (TWO) HORIZONTAL WELLS (SERVICE CONTRACT-TURN-KEY)	1	CONTRACT	Drilling requirements	
08-10-02-03-0351	TECHNICAL ASSISTANCE IN DEEP AND HORIZONTAL DRILLING (SERVICE CONTRACT)	1	CONTRACT	Drilling requirements	
08-10-02-03-0352	TREATMENT OF LOSSE'S ZONES WHILE DRILLING (SERVICE CONTRACT)	1	CONTRACT	Contract for fluid recovery	
08-10-02-03-0353	REPAIRING OF DAMAGED VALVES & WELL HEAD (SERVICE CONTRACT)	1	CONTRACT	Repair contract	
08-10-02-03-0354	CORROSION MONITORING INCASING (SERVICE CONTRACT)	1	CONTRACT	Corrosion prevention	
08-10-02-03-0355	WELL HEAD VALVES AND FITTINGS	500	ITEM	Replacements	
08-10-02-03-0356	FLOW LINES & WELL HEAD DEVICES & EQUIPMENT	500	ITEM	Maintenance requirements	

**MINISTRY OF OIL****SHEET NO.: 20 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 02-03 : SUSTAINING & ENHANCING PRODUCTION****CAPABILITIES**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-03-0357</b>	TELECOMMUNICATION EQUIPMENT & ACCESSORIES	<b>100</b>	<b>ITEM</b>	Field communciations	
<b>08-10-02-03-0358</b>	INDUSTRIAL PORTABLE CARAVANS FOR REMOTE DESERT AREAS WITH FULL ACCOMMODATIONS (WINDOW TYPE AIR CONDITIONERS, FURNITURE, COOKING FACILITIES... etc) .	<b>25</b>	<b>SET</b>	Prefabricated structures for desert site accommodation	
<b>08-10-02-03-0359</b>	PREFABRICATED WORK SHOPS & WAREHOUSES INCLUDING STRUCTURAL STEEL, CLADDING MATERIALS, THERMAL INSULATION, OVERHEAD CRANES COMPLETE WITH OFFICES, ELECRICAL NETWORK WITH AIR CONDITIONERS & ACCESSORIES	<b>100</b>	<b>SET</b>	Prefabricated structures for desert site workshops and offices	

**LOCATION : LUHAIS****PROJECT 02-03 : SUSTAINING & ENHANCING PRODUCTION****CAPABILITIES****LUHAIS COMPLEMENTARY SYSTEMS**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-03-0360</b>	ELECTRICAL DISTRIBUTION SYSTEM TO INCLUDE O/H LINES, SWITCH GEARS, MCC'S, TRANSFORMER CABLING & ACCESSORIES.	<b>50</b>	<b>ITEM</b>	Electrical system for control of distribution	
<b>08-10-02-03-0361</b>	PIPE LINE 12",14" SIZE OF API 5LX-X52 FOR GAS TRANSMISSION COMPLETE WITH VALVES FITTINGS & ACCESSORIES.	<b>30</b>	<b>ITEM</b>	Requirements for gas distribution	
<b>08-10-02-03-0362</b>	CONTROL AND INSTRUMENTATION PACKAGES FOR 1ST STAGE GAS UTILIZATION SYSTEM AND FLOW TANKS.	<b>50</b>	<b>SET</b>	Requirements for gas distribution	

**MINISTRY OF OIL**
**SHEET NO.: 21 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : FAO TANK FARM**
**PROJECT 02-03 : SUSTAINING & ENHANCING PRODUCTION**
**CAPABILITIES**
**CONTINUATION OF THE SUSTAINING & ENHANCING**
**PRODUCTION CAPABILITIES OF FAO TANK FARM**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-03-0363	- STORAGE TANKS CAPACITY (58) THOUSAND M <sup>3</sup> COMPLETE	4	SET	Requirements to construct	
	WITH ALL ANCILLARY SYSTEMS (FIRE FIGHTING CATHODIC			4 x 58,000M3 crude oil	
	PROTECTION, LEVEL MEASUREMENT & INSTRUMENTATION,			floating roof tanks	
	SEALS, EXTERNAL LIGHTING SYSTEM, PAINTS, CONSTRUCTION			at Fao Tank farm	
	MATERIALS & CONSUMABLES			to sustain	
	- MAINPUMPS			export potential	
	- TURBINE DRIVEN PUMPS	5	ITEM	to Mina al-Bakr	
	- SMALL LOADING PUMPS (ELECTRICALLY DRIVEN)	2	ITEM	"	
	- BOOSTER PUMPS (ELECTRICALLY DRIVEN, VERTICAL CAN TYPE	4	ITEM	"	
	BOOSTERS)			"	
	- CABLES OF DIFFERENT SIZE transferred from 08-7-23-0493	6	ITEM		
	- MEDIUM VOLTAGE SWITCHGEAR, POWER TRANSFORMERS,	5	ITEM		
	CABLES AND ACCESSORIES transferred from 08-7-23-0497				
	- FIRE WATER TANK ('5000' M3) WITH ACCESSORIES transferred from	1	UNIT		
	08-7-23-0487				

**MINISTRY OF OIL****SHEET NO.: 22 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : SOUTH & NORTH RUMALIA OIL FIELD****PROJECT 02-03 : SUSTAINING & ENHANCING PRODUCTION  
CAPABILITIES**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-03-0364</b>	<b>GAS DEHYDRATION UNIT 130 MM SCFD COMPLETE WITH INSTRUMENTATION, PUMPS ELECTRICAL &amp; ACCESSORIES</b>	<b>5</b>	<b>CONTRACT</b>	Gas treatment unit	
<b>08-10-02-03-0365</b>	<b>GAS PRE-TREATMENT &amp; LIQUID REMOVAL WITH ACCESSORIES</b>	<b>500</b>	<b>ITEM</b>	Gas treatment unit	
<b>08-10-02-03-0366</b>	<b>STATION CONTROL SYSTEM</b>	<b>100</b>	<b>ITEM</b>	Replacement control system	
<b>08-10-02-03-0367</b>	<b>REHABILITATION OF THE FIRST STRATEGIC LINE INCLUDING INTELLIGENT PIGGING TO IDENTIFY FAILURE AS WELL AS MATERIALS &amp; EQUIPMENT FOR REPAIR</b>	<b>50</b>	<b>ITEM</b>	Pipeline pigging and repair requirements	
<b>08-10-02-03-0368</b>	<b>SPARE PARTS FOR MUFTIAH WATER TREATMENT STATION</b>	<b>70</b>	<b>ITEM</b>	Maintenance requirements	

**MINISTRY OF OIL****SHEET NO.: 23 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 02-04 : SAFETY & ENVIRONMENTAL PROTECTION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-04-0378	FIRE FIGHTING TRUCKS	10	NOS.	Fire fighting requirements	
08-10-02-04-0379	FIRE FIGHTING PACK & SUPPORT TRUCKS	4	NOS.	Fire fighting requirements	
08-10-02-04-0380	FIRE FIGHTING SNORKIL & WATER TANKERS	6	NOS.	Fire fighting requirements	
08-10-02-04-0381	FIRE FIGHTING MATERIALS & EQUIPMENT	4200	DRM.	Fire fighting consumables	
		30	ITEM		
08-10-02-04-0382	HEAVY & LIGHT FIRE FIGHTING TRUCKS FULLY EQUIPPED WITH SYSTEMS & WATER TANKERS WITH SPARES & ACCESSORIES	1343	NOS	Fire fighting requirements	
08-10-02-04-0383	FIRE FIGHTING SYSTEM	100	ITEM	Fire fighting requirements	

**MINISTRY OF OIL**
**SHEET NO.: 24 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 02-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-05-0389	DIESEL ENGINE DRIVEN WELDING MACHINES	30	SET	General maintenance requirements	
08-10-02-05-0390	ELECTRICAL WELDING MACHINE WITH ACCESSORIES	19,848	NOS	"	
08-10-02-05-0391	DIESEL DRIVEN AIR COMPRESSOR, WITH ACCESSORIES	20	SET	"	
08-10-02-05-0392	CENTRAL CONCRETE MIXING PLANT WITH ALL ACCESSORIES , INCLUDING TRUCK LONCKETE MIXER	4	SET	"	
08-10-02-05-0393	DUMPERS WITH SPARES	32	SET	"	
08-10-02-05-0394	CONCRETE VIBRATOR WITH ACCESSORIES, INCLUDING CONCKETE MIXER DIESEL DRIVEN	20	NOS.	"	
08-10-02-05-0395	MANUAL COMPACTOR	10	NOS.	"	
08-10-02-05-0396	JACKHAMMER WITH ACCESSORIES	20	ITEM	"	
08-10-02-05-0397	AIRLESS PAINTING SPRAY	20	ITEM	"	
08-10-02-05-0398	PIPE WRAPPING MACHINE	10	SET	"	
08-10-02-05-0399	WELDING ELECTRODES & ACCESSORIES	500	ITEM	"	
08-10-02-05-0400	CUP BRUSHES	5000	NOS.	"	
08-10-02-05-0401	GRINDING DISKS	5000	NOS.	"	
08-10-02-05-0402	ROTARY EXCAVATOR DIESEL DRIVEN	2	NOS.	"	
08-10-02-05-0403	GASKETS & BOLTS	100	ITEM	"	
08-10-02-05-0404	CUTTING MACHINE, INCLUDING SCAFFOLD STRUCTURE & ACCESSORIES	40	NOS.	"	
08-10-02-05-0405	PLASTIC TILES 1000 M <sup>2</sup>	2	ITEM	"	

**MINISTRY OF OIL**
**SHEET NO.: 25 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 02-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-05-0406	PORTABLE GRINDING M/C WITH ACCESSORIES	100	NOS		
08-10-02-05-0407	SAFE VALUTS DOORS	10	ITEM	"	
08-10-02-05-0408	BUS (18-45) & (10-12) SEAT WITH SPARE PARTS	40	NOS.	"	
08-10-02-05-0409	AMBULANCE WITH SPARES	6	NOS.	"	
08-10-02-05-0410	TRUCK TRACTOR WITH LOW BED-TRAILER WITH SPARES	20	NOS.	"	
08-10-02-05-0411	FUEL TANKER TRUCK CAP. 15M <sup>3</sup> WITH SPARES	10	NOS.	"	
08-10-02-05-0412	WATER TANKER TRUCK CAP. 15M <sup>3</sup> WITH SPARES	15	NOS.	"	
08-10-02-05-0413	CRAWLER EXCAVATOR CAP. 1M <sup>3</sup> WITH SPARES	7	NOS.	"	
08-10-02-05-0414	WHEEL EXCAVATOR CAP. 1M <sup>3</sup> WITH SPARES	5	NOS.	"	
08-10-02-05-0415	ROTARY EXCAVATOR WITH SPARES	1	NO.	"	
08-10-02-05-0416	LORRY WITH CRANE (3-8) TON CAPACITY WITH SPARE PARTS	50	NOS.	"	
08-10-02-05-0417	FULLY HYDRAULIC TRUCK CRANE CAP. 20 TON WITH SPARES	5	NOS.	"	
08-10-02-05-0418	FULLY HYDRAULIC TRUCK CRANE CAP. 30 TON WITH SPARES	5	NOS.	"	
08-10-02-05-0419	CRAWLER FULLY HYDRAULIC CRANE CAP. 280 TON WITH SPARES	1	NO.	For Mina al-Bakr	

**MINISTRY OF OIL**
**SHEET NO.: 26 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 02-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-05-0420	SPARE PARTS FOR CRANES AND HEAVY TRUCKS	1000	ITEM	Spare parts	
08-10-02-05-0421	SPARE PARTS FOR LIGHT TRUCKS AND BUSES	1000	ITEM	Spare parts	
08-10-02-05-0422	FORKLIFT (40) TON CAPACITY	2	NOS.	Maintenance requirements	
08-10-02-05-0423	MACADAM SPREADER (FINISHER) WITH SPARES	1	SET	Road building requirements	
08-10-02-05-0424	RECOVERY TRUCK (30) TON CAP WITH SPARES	2	SET	Maintenance requirements	
08-10-02-05-0425	RECOVERY TRUCK (10) TON CAP WITH SPARES	2	SET	Maintenance requirements	
08-10-02-05-0426	SPARE PARTS FOR COMPLETE HEAVY TRUCKS	2000	ITEM	Spare parts	
08-10-02-05-0427	WORKSHOP EQUIPMENT & TOOLS	6000	ITEM	Repair equipment	
08-10-02-05-0428	CLEANING & REFUSE COLLECTOR TRUCK WITH SPARES	3	SET	Refuse collection	

**LOCATION : BAB - AL ZUBAIR**
**PROJECT 02-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-05-0429	MACHINE SHOP EQUIPMENT WITH MEASURING EQUIPMENT & TOOLS	400	ITEM	Workshop requirements	
08-10-02-05-0430	FABRICATING, CUTTING & WELDING EQUIPMENT	150	ITEM	Workshop requirements	
08-10-02-05-0431	WHEEL LOADER 3 M3 CAPACITY WITH SPARE PARTS	20	NOS	NON OIP <b>new</b> sector code	
08-10-02-05-0432	MOTOR GRADER WITH SPARE PARTS	3	NOS	NON OIP <b>new</b> sector code	
08-10-02-05-0433	BATTERIES FOR HEAVY & LIGHT TRUCKS	6	ITEM	NON OIP <b>new</b> sector code	

**MINISTRY OF OIL****SHEET NO.: 27 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : ALL AREAS****PROJECT 02-06 : TESTING, INSPECTION, STUDIES, SURVEYS &  
LABORATORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-06-0440	EQUIPMENT FOR CENTRAL LABORATORY AND ACCESSORIES AND SPARE PARTS	50	ITEM	Quality control requirements	
08-10-02-06-0441	CHEMICALS FOR LABROTARY	100	ITEM	Consumables for above	
08-10-02-06-0442	CONTRACTS FOR THIRD PARTY INSPECTION OF CONTRACTED GOODS TO ENSURE COMPLIANCE TO SPECIFICATIONS. AT THE SUPPLIER'S WORKS ABROAD	2	CONTRACT	PSI inspection contract	
08-10-02-06-0443	CHEMICALS FOR OIL & WATER TREATMENT & LAB. TEST	300	ITEM	Consumables for oil & water treatment	

**LOCATION : NORTH & SOUTH RUMAILA FIELDS****PROJECT 02-06 : TESTING, INSPECTION, STUDIES, SURVEYS &  
LABORATORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-06-0444	3-D SURVEY & PROCESSING FOR RUMAILAH OIL FIELD TO EVALUTE TRAPPING OF OIL .	1	CONTRACT	Seismic surveying requirements	
08-10-02-06-0445	WIRELINE TRUCK FOR WELL MEASUREMENTS WITH MONITORING SYSTEM & SOFTWARE + SPARES & ACCESSORIES	300	ITEM	Wire line trucks for well logging	
08-10-02-06-0446	WELL HEAD SERVICE EQUIPMENTS TOGETHER WITH SURFACE & SUBSURFACE WIRELINE & FIELD MESURMENTS DEVICES WITH SPARES & ACCESSORIES	900	NOS	Well logging requirements	

**MINISTRY OF OIL**
**SHEET NO.: 28 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 02-06 : TESTING, INSPECTION, STUDIES, SURVEYS &  
LABORATORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-06-0447	ELECTRONIC ECHO SOUNDER	2	SET	Off-shore pipeline requirements	
08-10-02-06-0448	WATER PROOF HAVY DUTY BINOCULARS INSTRUMENTS	4	NOS.	For marine pipeline activities	
08-10-02-06-0449	INSTRUMENTS FOR LAND SURVEYING WITH ALL ACCESSORIES CONSISTING OF:- - DIGITAL LEVEL - ELECTRONIC TOTAL STATION - GPS SYSTEM			Land survey equipment for drilling accommodation	
		10	SET	"	
		10	SET	"	
		5	SET	"	
08-10-02-06-0450	DRAWING BOARD WITH STOOLS & CABINS & FULL ACCESSORIES	20	SET	Office equipment	
08-10-02-06-0451	DOCUMENTATION DRAWING SYSTEM	2	SET	"	
08-10-02-06-0452	DOCUMENTATION SYSTEM	2	SET	"	
08-10-02-06-0453	DISTILLATION APPARATUS 10 LITER/H	2	SET	Drinking water still	
08-10-02-06-0454	POCKET GPS.	6	SET	Survey equipment	
08-10-02-06-0455	COMPUTER SET INCLUDING PLOTTER & SCANNER WITH ALL ACCESSORIES.	20	SET	"	
08-10-02-06-0456	ENGINEERING INSPECTION SERVICES OF AL BAKR TERMINAL UNDERWATER STRUCTURE (SERVICE CONTRACT)	2	CONTRACT	NON OIP new sector code	

**MINISTRY OF OIL****SHEET NO.: 29 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : NAHAR BEN UMAR (ZUBAIR & YAMAMA FORMATION)****PROJECT 02-07 : DEVELOPMENT PROJECT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-07-0460	CRUDE OIL PROCESSING & TREATMENT PLANTS FOR THE PRODUCTION OF 50000 B/D WHICH INCLUDE DEGASSING BANKS (4) STAGES, DEHYDRATION / DESALTING, H2S TRIPPING, TEST SEPARATOR, CHEMICAL INJECTION, PACKAGES EFFLUENT WATER TREATMENT & DISPOSAL FACILITIES COMPLETE WITH ALL CONTROL & INSTRUMENTATION, INTERCONNECTING PIPING VALVES & FITTINGS, ELECTRICAL SYSTEM, PROCESS PUMPS & ACCESSORIES	400	ITEM	Initial stages of project for treatment plants at Zubair/Yamama to treat 50,000 barrels per day of crude production	
08-10-02-07-0461	DEHYDRATION, DESALTING TRAINS 50000 B/D CAPACITY INCLUDING VESSELS, PUMPS, ELECTRICAL, CONTROL & INSTRUMENT, PIPING, FITTINGS, VALVES, EFFLUENT WATER & DISPOSAL FACILITIES & ALL COMPLEMENTARY ACCESSORIES.	1	CONTRACT	As above	
08-10-02-07-0462	CRUDE OIL FLOW TANKS 5000 M3, TEST TANKS OF 700 M3 BAD OIL TANK OF 700M3, FIRE WATER TANKS OF 1600 M3 COMPLETE WITH PIPINGS, VALVES, INSTRUMENT AND CONTROL AND ACCESSORIES.	20	SET	Associatd crude flow tanks and other requirements	
08-10-02-07-0463	FIRE FIGHTING SYSTEM INCLUDING FOAM SYSTEM SENSING AND ACTUATING SYSTEM, PORTABLE EXTINGUISHER, PIPING, VALVES AND ACCESSORIES.	100	ITEM	Fire fighting systems for above	

**MINISTRY OF OIL****SHEET NO.: 30 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : NAHAR BEN UMAR****(ZUBAIR & YAMAMA FORMATION)****PROJECT 02-07 : DEVELOPMENT PROJECT**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-07-0464</b>	WELL INLET CRUDE OIL PRODUCTION MANIFOLD CONSISTING OF (4) HEADERS EACH OF 12 WELLS INLET OF CLASSES OF 2500#, 1500#, 900#, 600# & 300# COMPLETE WITH CRUSH VALVES & ACCESSORIES.	<b>4</b>	<b>SET</b>	Equipment and systems associated with previous page	
<b>08-10-02-07-0465</b>	FIELD MANIFOLDS, EACH TO HAVE (4) CONNECTION POINTS AND TWO HEADERS PRODUCTION 10" AND TEST 6".	<b>10</b>	<b>SET</b>	As above	
<b>08-10-02-07-0466</b>	FLOW LINES AND TRANSFER PIPE LINES OF API 5LX GR. X-60, GR-42 , COATED WITH POLYETHYLENE COATING OF 3 – 4 MM THICKNESS COMPLETE WITH HEAT SHRINKABLE SLEEVES OR BARE PIPES WITH P.E INNER AND OUTER TAPE AND PRIMER OF SIZES 4", 6", 8",10",12",16",18",20",24"	<b>300</b>	<b>KM.</b>	As above	
<b>08-10-02-07-0467</b>	PIPE FITTINGS , VALVES AND ACCESSORIES OF DIFFERENT PRESSURE RATING AND SIZES.	<b>500</b>	<b>ITEM</b>	As above	
<b>08-10-02-07-0468</b>	CRUDE OIL AND WATER PUMPS VARIOUS SIZES COMPLETE WITH ACCESSORIES AND CONTROL WITH SPARE PARTS.	<b>12</b>	<b>SET</b>	As above	
<b>08-10-02-07-0469</b>	ELECTRICAL SYSTEM TO INCLUDE 132 / 33/ 11/0.4 kV TRANSFORMERS AND SWITCH GEAR, O/H TRANSMISSION LINES WITH CONDUCTORS, MEDIUM AND LOW VOLTAGE DISTRIBUTION NETWORK COMPLETE WITH MCC'S CABLING, ACCESSORIES AND EMERGENCY GENERATORS WITH SPARE PARTS.	<b>100</b>	<b>ITEM</b>	As above	

**MINISTRY OF OIL**

**SHEET NO.: 31 OF 44**

**ESTABLISHMENT NAME : SOUTH OIL COMPANY**

**LOCATION : NAHAR BEN UMAR**

**(ZUBAIR & YAMAMA FORMATION)**

**PROJECT 02-07 : DEVELOPMENT PROJECT**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-07-0470</b>	SERVICE EQUIPMENT TO INCLUDE A/C UNITS, DRINKING WATER, CONSTRUCTION MATERIALS AND TOOLS.	<b>100</b>	<b>ITEM</b>	Equipment and systems associated with previous page	
<b>08-10-02-07-0471</b>	TELE COMMUNICATION SYSTEM COMPLETE WITH ALL ACCESSORIES	<b>50</b>	<b>ITEM</b>	As above	
<b>08-10-02-07-0472</b>	SPARE PARTS FOR ABOVE EQUIPMENT	<b>10</b>	<b>SET</b>	As above	

**MINISTRY OF OIL****SHEET NO.: 32 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : SOUTH RUMAILA OIL FIELD (MISHRIF FORMATION)****PROJECT 02-08 : DEVELOPMENT PROJECT****MISHRIF QURAINAT & MISHRIF SHAMIYA**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-08-0473</b>	<b>CRUDE OIL WELL INLET MANIFOLD CONSISTING OF THREE HEADERS OF DIFFERENT SIZES AND OF PRESSURE RATING OF ANSI CLASS 900# COMPLETE WITH CRUSH VALVES AND ACCESSORIES.</b>	<b>4</b>	<b>SET</b>	Development of new formation in S Rumailah for 50,000 barrels per day of crude output	
<b>08-10-02-08-0474</b>	<b>DEGASSING BANK 50000 B/D CAPACITY OF FOUR STAGES COMPLETE WITH VESSELS, INTERNAL &amp; EXTERNAL ACCESSORIES, INTERCONNECTING PIPING, INSTRUMENT &amp; CONTROL SYSTEM, WELL TESTING POTENTIAL FACILITIES .</b>	<b>50</b>	<b>SET</b>	As above	
<b>08-10-02-08-0475</b>	<b>ELECTRICAL FEEDING AND DISTRIBUTION SYSTEM TO INCLUDE, O/H LINES, TRANSFORMERS, SWITCH GEARS, MCC'S, CABLING, LIGHTING, BATTERY CHARGERS AND ACCESSORIES.</b>	<b>100</b>	<b>ITEM</b>	As above	
<b>08-10-02-08-0476</b>	<b>CRUDE OIL FLOW TANKS OF 5000 M3, TEST TANKS OF 700 M3, WATER TANKS, COMPLETE WITH NOZZLES, INSTRUMENT AND CONTROL, PIPING, LIGHTENING, LIGHTING, CATHODIC PROTECTION AND ACCESSORIES.</b>	<b>50</b>	<b>SET</b>	As above	
<b>08-10-02-08-0477</b>	<b>TRANSFER PIPE LINES, FLOW LINES WITH COATING MATERIAL OF DIFFERENT SIZES RANGING FROM 8" TO 28"</b>	<b>100</b>	<b>KM.</b>	As above	

**MINISTRY OF OIL**

**SHEET NO.: 33 OF 44**

**ESTABLISHMENT NAME : SOUTH OIL COMPANY**

**LOCATION : SOUTH RUMAILA OIL FIELD (MISHRIF FORMATION)**

**PROJECT 02-08 : DEVELOPMENT PROJECT**

**MISHRIF QURAINAT & MISHRIF SHAMIYA**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-08-0478</b>	<b>PIPE FITTING, VALVES OF DIFFERENT PRESSURE RATING &amp; SIZES &amp; ACCESSORIES</b>	<b>200</b>	<b>ITEM</b>	Development of new formation in S Rumailah for 50,000 barrels per day of crude output	
<b>08-10-02-08-0479</b>	<b>CRUDE OIL PUMPS, WATER PUMPS, CHEMICAL INJECTION PACKAGES COMPLETE WITH INTERCONNECTING PIPING, CONTROL SYSTEM AND ACCESSORIES.</b>	<b>10</b>	<b>SET</b>	As above	
<b>08-10-02-08-0480</b>	<b>AIR COMPRESSOR PACKAGE COMPLETE WITH AIR FILTER , DRYER , RECEIVERS AND ACCESSORIES.</b>	<b>10</b>	<b>SET</b>	As above	

ESTABLISHMENT NAME : SOUTH OIL COMPANY

LOCATION : RATAWI OIL FIELD

PROJECT 02-09 : DEVELOPMENT PROJECTS

CONTINUATION OF THE DEVELOPMENT OF  
RATAWI OIL FIELD

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-09-0481	CRUDE OIL PROCESSING AND TREATMENT BANK OF 50000 B/D CAPACITY WHICH INCLUDE FOUR DEGASSING STAGES, DEHY/ DESALTING, H2S STRIPPING, TEST SEPARATORS, EFFLUENT WATER TREATMENT AND DISPOSAL, COMPLETE WITH INTERCONNECTING PIPING, CONTROL, ELECTRICAL SYSTEM & ACCESSORIES, WELL TECHNICAL ENGINEERING CONSULTANCY	20	SET	Initial development of Ratawi field for 50,000 barrels per day of crude oil output	
08-10-02-09-0482	CRUDE OIL AND WATER PUMPS DIFFERENT SIZES COMPLETE WITH ACCESSORIES.	20	SET	As above	
08-10-02-09-0483	CRUDE OIL FLOW TANKS, TEST TANKS, BAD OIL TANKS AND WATER TANKS COMPLETE WITH INSTRUMENTATION AND CONTROL SYSTEM, PIPING SYSTEM AND ELECTRICAL SYSTEM.	20	SET	As above	
08-10-02-09-0484	COMPLEMENTARY EQUIPMENTS OF ELECTRICAL SYSTEM INCLUDING TRANSFORMERS, O/H LINES, SWITCH GEARS, MCC'S, CABLING AND ACCESSORIES	50	ITEM	As above	
08-10-02-09-0485	FIRE FIGHTING SYSTEM INCLUDING TANKS, PUMPS, FOAM GENERATORS, HYDRANTS, PORTABLE EXTINGUISHER AND ACCESSORIES.	70	ITEM	As above	
08-10-02-09-0486	PIPE FITTINGS, VALVES OF DIFFERENT RATING & SIZES AND ACCESSORIES.	200	ITEM	As above	
08-10-02-09-0487	TELE COMMUNICATION SYSTEM , COMPLETE WITH ALL ACCESSORIES.	30	SET	As above	
08-10-02-09-0488	SPARE PARTS FOR THE ABOVE EQUIPMENTS	10	SET	As above	

**MINISTRY OF OIL****SHEET NO.: 35 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : MAJNOON OIL FIELD****PROJECT 02-10 : DEVELOPMENT PROJECTS****CONTINUATION OF THE DEVELOPMENT OF  
MAJNOON OIL FIELD**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-10-0489</b>	<b>FIELD OIL WELL PRODUCTION MANIFOLDS EACH MANIFOLD SUITABLE FOR 8 WELLS.</b>	<b>20</b>	<b>SET</b>	Continuation of Phase 9 development at Majnoon to produce up to 100,000 barrels per day crude oil output	
<b>08-10-02-10-0490</b>	<b>CRUDE OIL PROCESSING AND TREATMENT BANK OF 100000 B/D CAPACITY WHICH INCLUDE FOUR DEGASSING STAGES, DEHY/ DESALTING, H2S STRIPPING, TEST SEPARATORS, EFFLUENT WATER TREATMENT AND DISPOSAL, COMPLETE WITH INTERCONNECTING PIPING, CONTROL, ELECTRICAL SYSTEM &amp; ACCESSORIES, WELL POTENTIAL TESTING FACILITIES, ASSISTANCE WITH TECHNICAL ENGINEERING CONSULTANCY</b>	<b>100</b>	<b>SET</b>	As above	
<b>08-10-02-10-0491</b>	<b>CRUDE OIL AND WATER PUMPS DIFFERENT SIZES COMPLETE WITH ACCESSORIES.</b>	<b>20</b>	<b>SET</b>	As above	
<b>08-10-02-10-0492</b>	<b>CRUDE OIL FLOW TANKS, TEST TANKS, BAD OIL TANKS AND WATER TANKS COMPLETE WITH INSTRUMENTATION AND CONTROL SYSTEM, PIPING SYSTEM AND ELECTRICAL SYSTEM.</b>	<b>20</b>	<b>SET</b>	As above	
<b>08-10-02-10-0493</b>	<b>COMPLEMENTARY EQUIPMENTS OF ELECTRICAL SYSTEM INCLUDING TRANSFORMERS, O/H LINES, SWITCH GEARS, MCC'S, CABLING AND ACCESSORIES.</b>	<b>50</b>	<b>ITEM</b>	As above	

**MINISTRY OF OIL****SHEET NO.: 36 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : MAJNOON OIL FIELD****PROJECT 02-10 : DEVELOPMENT PROJECTS****CONTINUATION OF THE DEVELOPMENT OF  
MAJNOON OIL FIELD**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-10-0494	FIRE FIGHTING SYSTEM INCLUDING TANKS, PUMPS, FOAM GENERATORS, HYDRANTS, PORTABLE EXTINGUISHER AND ACCESSORIES.	70	ITEM	Continuation of Phase 9 development at Majnoon to produce up to 100,000 barrels per day crude oil output	
08-10-02-10-0495	PIPE FITTINGS, VALVES OF DIFFERENT RATING & SIZES AND ACCESSORIES.	200	ITEM	As above	
08-10-02-10-0496	TELECOMMUNICATION SYSTEM COMPLETE WITH ALL ACCESSORIES	10	ITEM	As above	
08-10-02-10-0497	SPARE PARTS FOR THE ABOVE EQUIPMENTS	30	SET	As above	

**MINISTRY OF OIL****SHEET NO.: 37 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : MISSAN OIL FIELED****PROJECT 02-11 : DEVELOPMENT PROJECT****HALFAYA OIL FIELD**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-11-0498</b>	<b>CRUDE OIL PROCESSING &amp; TREATMENT PLANT FOR PRODUCTION OF 50000 BPD INCLUDING DEGASSING BANKS EACH OF FOUR STAGES, DEHYDRATION, DESALTING, TEST SEPARATOR, INLET MANIFOLDS, EFELVENT WATER TREATMENT</b>	<b>500</b>	<b>ITEM</b>	Initial development fo Halfaya field to produce 50,000 barrels per day crude oil output	
<b>08-10-02-11-0499</b>	<b>CRUDE OIL FLOW TANKS OF 5000 M3 EACH, BAD OIL TANKS &amp; FIRE WATER TANKS COMPLETE WITH ALL COMPLEMENTARY SYSTEM AND ACCESSORIES .</b>	<b>5</b>	<b>SET</b>	As above	
<b>08-10-02-11-0500</b>	<b>CRUDE OIL BOOSTER &amp; MAIN PUMPS, SMALL PUMPS OF VARIOUS SIZES COMPLETE WITH ACCESSORIES</b>	<b>50</b>	<b>ITEM</b>	As above	
<b>08-10-02-11-0501</b>	<b>FIRE FIGHTING SYSTEM INCLUDING, PUMPS FOAM SYSTEM, PIPING, VALVES &amp; ACCESSORIES .</b>	<b>100</b>	<b>ITEM</b>	As above	
<b>08-10-02-11-0502</b>	<b>ELECTRICAL SYSTEM INCLUDING 132/33/11/0.4 KV TRANSFORMERS &amp; SWITCH GEAR, O/H TRANSMISSION LINES, MEDIUM &amp; LOW VOLTAGE M.c.c. DISTRIBUTION NETWORK, CABLES &amp; EMERGENCY GENERATION</b>	<b>100</b>	<b>ITEM</b>	As above	
<b>08-10-02-11-0503</b>	<b>TRANSFER PIPES, FLOWLINES, INTERCONNECTING PIPING, STATION MANIFOLDS &amp; FLARE SYSTEMS WITH VALVES, FITTINGS, INSTRUMENT &amp; ACCESSORIES .</b>	<b>100</b>	<b>ITEM</b>	As above	
<b>08-10-02-11-0504</b>	<b>POTABLE WATER SYSTEM , SEWAGE SYSTEM WITH SERVICE EQUIPMENT TO INCLUDE AIR CONDITIONING UNITS, SERVICE &amp; HANDLING EQUIPMENTS.</b>	<b>100</b>	<b>ITEM</b>	As above	

**MINISTRY OF OIL****SHEET NO.: 38 OF 44****ESTABLISHMENT NAME : SOUTH OIL COMPANY****LOCATION : MISSAN OIL FIELED****PROJECT 02-12 : DEVELOPMENT PROJECT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-12-0505	SUSTAINING PRODUCTION OF UMARA OIL FIELED AT 10000 BPD :			Equipment to deal with the current 5 - 10% water content in current production of crude oil	
	- FLOW TANKS & WATER TANKS COMPLETE WITH ACCESSORIES	10	SET	As above	
	- DEHYDRATION / DESALTING BANK OF 40000 BPD CAPACITY	20	SET	As above	

MINISTRY OF OIL

SHEET NO.: 39 OF 44

ESTABLISHMENT NAME : SOUTH OIL COMPANY

LOCATION : WEST QURNA

PROJECT 02-13 : DEVELOPMENT PROJECT

COTINUATION OF OIL FIELD UPGRADING, WATER  
INJECTION (SURFACE INSTALLTION)

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-13-0506	COMPLETION & REHABILITATION OF PERMENANT 132/KV SUBSTATION WITH SUPPLY OF SPARES	6	SET		
08-10-02-13-0507	SUPPLY OF EQUIPMENT FOR 132KV H.T LINES INCLUDING (TOWERS, CONDUCTERS) FITTING & ACCESSORIES...ETC.	200	ITEM	As above	
08-10-02-13-0508	SUPPLY OF 11KV OVERHEAD LINE MATERIAL, EARTHING MATERIALS CATHODIC PROTECTION MATERIALS...ETC.	4	LOT	As above	
08-10-02-13-0509	LOW VOLTAGE SWICHGEARS	40	NOS.	As above	
08-10-02-13-0510	PIPES, VALVES & FITTINGS	100	ITEM	As above	
08-10-02-13-0511	COATING MATERIAL	3	LOT	As above	
08-10-02-13-0512	CHEMICAL FEED SYSTEM FOR WATER TREAMENT FACILITIES	6	SET	As above	
08-10-02-13-0513	AIR BLOWERS FOR FILTERS WITH ACCESSORIES & SPARES	6	SET	As above	
08-10-02-13-0514	VARIOUS PUMPS WITH DRIVERS & SPARES	2	LOT	As above	
08-10-02-13-0515	REHABILITATION OF MAIN WATER INJECTION PUMPS & MOTORS WITH SUPPLY OF SPARES	6	SET	As above	

**MINISTRY OF OIL**

**SHEET NO.: 40 OF 44**

**ESTABLISHMENT NAME : SOUTH OIL COMPANY**

**LOCATION : WEST QURNA**

**PROJECT 02-13 : DEVELOPMENT PROJECT**

**COTINUATION OF OIL FIELD UPGRADING, WATER  
INJECTION (SURFACE INSTALLTION)**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-13-0516</b>	<b>VESSELS &amp; ACCESSORIES</b>	<b>2</b>	<b>LOT</b>	Complete water injection system (repeat of phase 9) for West Qurna	
<b>08-10-02-13-0517</b>	<b>INSTRUMENTATION, CONTROL &amp; TELECOMMUNCATION EQUIPMENT WITH SPARES</b>	<b>6</b>	<b>LOT</b>	As above	
<b>08-10-02-13-0518</b>	<b>SUPPLY OF OVERHEAD CRANNES WITH ACCESSORIES &amp; SPARES</b>	<b>30</b>	<b>SET</b>	As above	
<b>08-10-02-13-0519</b>	<b>DIESEL GENERATOR WITH ACCESSORIES &amp; SPARES</b>	<b>4</b>	<b>SET</b>	As above	
<b>08-10-02-13-0520</b>	<b>AIR COMPRESSORS WITH ACCESSORIES &amp; SPARES</b>	<b>4</b>	<b>PACKAGE</b>	As above	
<b>08-10-02-13-0521</b>	<b>CHLORINATION UNIT WITH ACCESSORIES &amp; SPARES</b>	<b>6</b>	<b>PACKAGE</b>	As above	
<b>08-10-02-13-0522</b>	<b>TECHNCAL ASSISTANCE / ENGINEERING CONSULTANCY</b>	<b>1</b>	<b>CONTRACT</b>	As above	

**MINISTRY OF OIL**

**SHEET NO.: 41 OF 44**

**ESTABLISHMENT NAME : SOUTH OIL COMPANY**

**LOCATION : WEST QURNA**

**PROJECT 02-14 : DEVELOPMENT PROJECT**

**(COMPLETION OF GAS UTILIZATION)**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-14-0523</b>	<b>FIRE FIGHTING SYSTEM FOR GAS COMPRESSION TRAINS WITH SPARES</b>	<b>3</b>	<b>PACKAGE</b>	Completion of gas development project in West Qurna	
<b>08-10-02-14-0524</b>	<b>TECHNICAL ASSISTANCE / ENGINEERING CONSULTANCY</b>	<b>1</b>	<b>CONTRACT</b>	Consultancy for above	

**MINISTRY OF OIL**
**SHEET NO.: 42 OF 44**
**ESTABLISHMENT NAME : SOUTH OIL COMPANY**
**LOCATION : WEST QURNA**
**PROJECT 02-15 : DEVELOPMENT PROJECT / CONTINUATION OF THE  
DEVELOPMENT OF DS6/WEST QURNA OIL FIELD**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-15-0525	FLOW LINES AND TRANSFER PIPES (VARIOUS SIZES) HEAT SHRINKABLE SLEEVES	200 21000	KM. NOS	Repeat of Phase 9,	
08-10-02-15-0526	VALVES, FITTINGS AND PIPE ACCESSORIES	137	ITEM	but upgraded to handle	
08-10-02-15-0527	FIELD OIL WELL PRODUCTION MANIFOLDS (EACH MANIFOLD SUITABLE FOR 25 WELLS)	80	ITEM	up to 100,000 barrels per day	
	FIELD OIL WELL PRODUCTION MANIFOLDS (EACH MANIFOLD SUITABLE FOR 4 WELLS)	20	UNIT	NON OIP new item Comm 1030377	
08-10-02-15-0528	UTILITIES (FIRE FIGHTING, COMPRESSED AIR, INDUSTRIAL WATER, TELECOM, INSTRUMENTATION, CIVIL WORKS, ...)	20	ITEM	As above	
08-10-02-15-0529	FLOW TANKS	1	NO.	As above	
08-10-02-15-0530	WATER INJECTION FILTERS	4	SET	As above	
08-10-02-15-0531	WATER INJECTION PUMPS	4	SET	As above	
08-10-02-15-0532	TREATMENT FOR WASTE WATER	1	SET	As above	
08-10-02-15-0533	GAS COMPRESSION UNITS	3	SET	As above	
08-10-02-15-0534	GAS DEHYDRATION UNIT	1	SET	As above	
08-10-02-15-0535	WELDING MACHINES	10	NOS.	As above	
08-10-02-15-0536	WELDING RODS GENERAL USE	20	TON	As above	
08-10-02-15-0537	ELECTRICAL (TRANSFORMER, CABLES, L.V.SWITCHGEARS, ...)	50	ITEM	As above	
08-10-02-15-0538	INSTRUMENTATION (CONTROL VALVE, SAFETY VALVE, PRESSURE INST. LEVEL INST. FLOW INST. TEMP. INST. DCS. PRIMARY & SECONDARY MATERIAL, ...)	100	ITEM	As above	

**MINISTRY OF OIL**

**SHEET NO.: 43 OF 44**

**ESTABLISHMENT NAME : SOUTH OIL COMPANY**

**LOCATION : ZUBAIR FIELD**

**PROJECT 02-16 : DEVELOPMENT PROJECT**

**UTILIZATION OF ZUBAIR FIELD ASSOCIATED  
GAS (PHASE 2)**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-02-16-0539</b>	<b>ENGINEERING, SUPPLY OF MATERIALS, ERECTION OF MAIN EQUIPMENT, SUPERVISION OF CONSTRUCTION &amp; COMMISSIONING FOR UTILIZATION OF GAS FROM 7 DEGASSING STATIONS</b>	<b>6</b>	<b>CONTRACT</b>	Contracts to utilize flared gas (mainly compressors and associated equipment)	

MINISTRY OF OIL

SHEET NO.: 44 OF 44


ESTABLISHMENT NAME : SOUTH OIL COMPANY

LOCATION : NORTH RUMAILAH

**CONTINUATION OF ADDITIONAL DEVELOPMENT OF  
NORTH RUMAILAH OIL FIELD  
PROJECT 02-17 : DEVELOPMENT PROJECT  
INDUSTRIAL WATER REQUIREMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-02-17-0540	TANKS	3	SET	Requirements to	
08-10-02-17-0541	PUMPS	6	UNIT	further develop	
08-10-02-17-0542	FLOW PIPES	10	ITEM	industrial water	
08-10-02-17-0543	ELECTRICAL SYSTEM L.T. & H.T.	20	ITEM	requirements commenced	
08-10-02-17-0544	VALVES, FITTINGS & ACCESSORIES	20	ITEM	in phase 9	
08-10-02-17-0545	PIPES & INTERCONNECTING MATERIAL & ACCESSORIES WITH COATING MATERIAL	20	ITEM	As above	
08-10-02-17-0546	CATHODIC PROTECTION SYSTEMS	10	ITEM	As above	
08-10-02-17-0547	INSTRUMENTATION, COMPLETE PACKAGES	20	ITEM	As above	
08-10-02-17-0548	POWER, INSTRUMENT & CONTROL CABLES	20	ITEM	As above	
08-10-02-17-0549	TELECONTROL SYSTEM	10	ITEM	As above	
08-10-02-17-0550	FILTRATION SYSTEM	5	ITEM	As above	
08-10-02-18-0551	FLOW LINES & TRANSFER PIPES, VALVES, FITTINGS & PIPE ACCESSORIES, FIELD OIL MANIFOLDS, TANKS, SEPARATION BANKS, GAS COMPRESSION & TREATMENT UNITS, ELECTRICALS (TRANSFORMERS, CABLES, HV & LV, SWITCH GEAR ...) UTILITIES (FIRE FIGHTING, COMPRESSED AIR, INDUSTRIAL WATER...), INSTRUMENTATION CONTROL & TELECOM SYSTEM	3	CONTRACT		

**MINISTRY OF OIL****SHEET NO.: 1 OF 3****ESTABLISHMENT NAME : IRAQ DRILLING CO.****LOCATION : BASRAH AND KIRKUK****PROJECT 03-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-03-01-0570	SPARE PARTS FOR DRILLING & WORK OVER RIGS	130000	NOS.	Requirements for maintenance	
08-10-03-01-0571	EQUIPMENTS-FOR DRILLING AND WORK OVER RIGS	100000 15	NOS. KM	!"	
08-10-03-01-0572	WORK SHOP EQUIPMENT & HAND TOOLS	2000	NOS.	"	
08-10-03-01-0573	MUD PUMPS FOR RIGS WITH SPARES	4	NOS.	Rig maintenance	
08-10-03-01-0574	DRILLING CAMPS & CAMPS EQUIPMENT & ACCESSORIES	2100	NOS.	Accommodation	
08-10-03-01-0575	OIL FIELD TRUCK - KENWORTH & SPARE PARTS	3	NOS.	Transport & spares	
08-10-03-01-0576	TRACTIVE UNIT WITH LOW BED LOADER SUTABLE FOR RIGS MOVMENT	10	NOS.	Transportation	
08-10-03-01-0577	MOBILE WORK SHOP WITH ACCESSORIES & SPARES	5	NOS.	Maintenance	

**MINISTRY OF OIL****SHEET NO.: 2 OF 3****ESTABLISHMENT NAME : IRAQ DRILLING CO.****LOCATION : BASRAH AND KIRKUK****PROJECT 03-03 : SUSTAINING & ENHANCING PRODUCTION  
CAPABILITIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-03-03-0582	DRILLING RIG COMPLETE WITH ALL ACCESSORIES AND SPARE PARTS	6	NOS.	Drilling and workover	
08-10-03-03-0583	WORK OVER RIG COMPLETE WITH ALL ACCESSORIES	2	NOS.	requirements for NOC work	

**MINISTRY OF OIL****SHEET NO.: 3 OF 3****ESTABLISHMENT NAME : IRAQ DRILLING CO.****LOCATION : BASRAH AND KIRKUK****PROJECT 03-04 : SAFETY & ENVIRONMENTAL PROTECTION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-03-04-0586	SAFTY AND INSPECTION EQUIPMENT	15000	NOS.	Personnel safety	
08-10-03-04-0587	PERSONNEL SAFETY WEAR ( BOOTS, SUITS, GOGGLES, HELMETS, ... ETC) (CONSUM ITEMS)	80000	NOS.	"	
08-10-03-04-0588	FIRE EXTINGUISHERS, GAS DETECTOR, & FIRE HOSES	1000	NOS.	"	

**LOCATION : BASRAH AND KIRKUK****PROJECT 03-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-03-05-0591	SPARE PARTS FOR HEAVY VEHICLE & EQUIPMENT .	50000	NOS.	Spares	
08-10-03-05-0592	LORIES WITH LIFT CRANE .	10	NOS.	Maintenance requirement	
08-10-03-05-0593	SPECIAL FIELD TRUCKS .	50	NOS.	Transport requirement	
08-10-03-05-0594	HYDRULIC TRUCK CRANE (20-30T) & SPARES.	20	NOS.	As above	
08-10-03-05-0595	BARREL LIFT (2 TONS) TRUCK WITH SPARES	4	NOS.	As above	
08-10-03-05-0596	MOBILE HYDRULIC PLATFORM FOR STREET LIGHT CHANGE WITH SPARES	2	NOS.	Lighting maintenance	

**MINISTRY OF OIL**
**SHEET NO.: 1 OF 13**
**ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS**
**LOCATION : ALL AREAS/MATERIAL WAREHOUSES**
**PROJECT 04-01 : MAINTANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-01-0600	VALVES & FITTINGS	150	ITEM	Maintenance requirements for all SCOP operations	
08-10-04-01-0601	LINE PIPE (DIFFERENT SIZES & WALLTHICKNESS) WITH SHRINKABLE SLEEVES	225 13360 1	KM NOS LOT	As above	
08-10-04-01-0602	WELDING ELECTRODES	100	TON	As above	
08-10-04-01-0603	CABLES & ACCESSORIES	100 1000	KM NOS	As above	
08-10-04-01-0604	STEEL PLATES, CORUGATED PLATES AND SECTION	1000	TON	As above	
08-10-04-01-0605	CABLE JOINTS & TERMINATION KITS	30	ITEM	As above	
08-10-04-01-0606	OVER HEAD LINES SWITCH FUES & ISOLATIONS	10	ITEM	As above	
08-10-04-01-0607	EXPLOSION PROOF EQUIPMENT (LIGHTINING & INSTALLATION ACCESSORIES)	50	ITEM	As above	
08-10-04-01-0608	ELECTRICAL TESTING EQUIPMENTS/INSTRUMENT	20	ITEM	As above	
08-10-04-01-0609	INSULLATING KITS	50	ITEM	As above	
08-10-04-01-0610	DESIGN & ENGINEERING SOFTWARE	50	ITEM	As above	
08-10-04-01-0611	CONTROL CABLES, COMMUNICATION CABLES, CABLE TRAYS AND ACCESSORIES	100	ITEM	As above	
08-10-04-01-0612	INSTRUMENTS GUAGES AND FITTING	200	ITEM	As above	

**MINISTRY OF OIL****SHEET NO.: 2 OF 13****ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS****LOCATION : ALL AREAS/MATERIAL WAREHOUSES****PROJECT 04-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-01-0613	INSTRUMENT CALIBRATION LABORTARY	10	ITEM	Equipment for topography surveys	
08-10-04-01-0614	SURVEY EQUIPMENTS (DIGITAL LEVELS & TOTAL STATIONS)	10	ITEM	As above	
08-10-04-01-0615	PHOTO COPIES MACHINES	20	NOS.	Office equipment to support surveys	
08-10-04-01-0616	FAX MACHINES	5	NOS.	As above	

**MINISTRY OF OIL****SHEET NO.: 3 OF 13****ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS****LOCATION : ALL AREAS/MATERIAL WAREHOUSES****PROJECT 04-01 : MAINTANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-01-0617	ELECTRIC MOTORS THREE PHASE,STAR-DELTA DIFFERENT H.P	150	NOS.	Electrical equipment for upgrading materials wharhouses E1531	
08-10-04-01-0618	ELECTRIC MOTORS FOR MANN ELEVATORS	20	NOS.	As above	
08-10-04-01-0619	CENTRIFUGAL PUMP WITH ELECTRIC MOTOR (KSB)	12	NOS.	As above	
08-10-04-01-0620	SUBMERGED PUMP FOR HEAVY WATER (SEWAGE)	12	NOS.	As above	

**MINISTRY OF OIL**
**SHEET NO.: 4 OF 13**
**ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS**
**LOCATION : ALL AREAS/MATERIAL WAREHOUSES**
**PROJECT 04-05 : SERVICE AND PLANT EQUIPMENT**
**CONSTRUCTION EQUIPMENT WITH S.P**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-05-0625	MOBILE CRANE 40 TON WITH RECOMMENDED SPARES	5	NOS.	Construction and site equipment	
08-10-04-05-0626	MOBILE CRANE 80 TON	4	NOS.	"	
08-10-04-05-0627	WHEEL LOADER 3 M3	5	NOS.	"	
08-10-04-05-0628	WELDING TRACTOR WITH RECOMMENDED SPARES	18	NOS.	"	
08-10-04-05-0629	HYDRAULIC EXCAVATOR 1M3 WITH RECOMMENDED SPARES	10	NOS.	"	
08-10-04-05-0630	DUMP TRUCK 16 M3 WITH RECOMMENDED SPARES	10	NOS.	"	
08-10-04-05-0631	CARGO TRUCK MOUNTED CRANE, 8 TON CAP., WITH RECOMMENDED SPARES	12	NOS.		
08-10-04-05-0632	LORRY 16 TON WITH RECOMMENDED SPARES	5	NOS.	"	
08-10-04-05-0633	FORK LIFT 5 TON WITH RECOMMENDED SPARES	10	NOS.	"	
08-10-04-05-0634	FORK LIFT 3 TON	10	NOS.	"	
08-10-04-05-0635	MANUAL TEST PUMP 50 KG/CM2	10	NOS.	"	
08-10-04-05-0636	BORING MACHINE	1	SET	"	
08-10-04-05-0637	DRINKING WATER TANKER 15 M3 WITH RECOMMENDED SPARES	5	NOS.	"	
08-10-04-05-0638	FUEL TANKER 15 M3 WITH RECOMMENDED SPARES	5	NOS.	"	
08-10-04-05-0639	ELECTRIC GENERATOR 250 KVA WITH SPARE PARTS	10	NOS.	"	
08-10-04-05-0640	TRUCK TRACTOR 80 TON WITH RECOMMENDED SPARES	10	SET	"	
08-10-04-05-0641	DEWATERING PUMP DIESEL WITH RECOMMENDED SPARES	5	NOS.	"	
08-10-04-05-0642	RECOVERY TRUCK 3 TON WITH RECOMMENDED SPARES	5	NOS.	"	
08-10-04-05-0643	MOBILE STREET LIGHTING & LIFTING TRUCK	4	NOS.	"	
08-10-04-05-0644	FLAT BED SEMITRAILER 80 T	5	NOS.	"	
08-10-04-05-0645	LOW BED SEMI TRAILER 80 TON WITH RECOMMENDED SPARES	5	NOS.	"	

MINISTRY OF OIL

SHEET NO.: 5 OF 13


ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS

LOCATION : ALL AREAS/MATERIAL WAREHOUSES

PROJECT 04-05 : SERVICE AND PLANT EQUIPMENT

SPARE PART FOR CONSTRUCTION EQUIPMENTS

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-05-0646	S.P FOR MOBILE CRANE 25 T.	500	ITEM	Assorted spare parts for construction equipment	
08-10-04-05-0647	S.P FOR MOBILE CRANE 50 TON	500	ITEM	"	
08-10-04-05-0648	S.P FOR LIBHER MOBILE CRANE 50 T.	598	ITEM	"	
08-10-04-05-0649	S.P FOR TRUCK TRACTOR SCANIA	400	ITEM	"	
08-10-04-05-0650	S.P FOR BULLDOZER	350	ITEM	"	
08-10-04-05-0651	S.P FOR CASE 9033 EXCUVATOR	300	ITEM	"	
08-10-04-05-0652	S.P FOR (LINCOLN) WELDING MACHINE (DIESEL& ELECT.)	300	ITEM	"	
08-10-04-05-0653	S.P FOR (HOBERT) ELECTRICAL WELDING MACHINE	100	ITEM	"	
08-10-04-05-0654	S.P FOR (ESAB) WELDING MACHINE (DIESEL)	200	ITEM	"	
08-10-04-05-0655	S.P FOR (KIA) BUSS 25 PASSENGERS	350	ITEM	"	
08-10-04-05-0656	S.P FOR WHEEL LOADER	500	ITEM	"	
08-10-04-05-0657	S.P FOR LIGHT VIHECLE NISSAN, GALLOPER, TOYOTA LAND CRUSER	800	ITEM	"	
08-10-04-05-0658	S.P FOR FORK LIFT 10 & 5 TON	300	ITEM	"	
08-10-04-05-0659	SPARE PARTS FOR RENAULT TRUCKS	646	ITEM	"	
08-10-04-05-0660	S.P FOR LIBHER WHEEL LOADER 551 & 541	400	ITEM	"	
08-10-04-05-0661	S.P FOR WATER PUMPS	400	ITEM	"	
08-10-04-05-0662	S.P FOR WELDING TRACTOR ARCOTRA-IV-VI	200	ITEM	"	
08-10-04-05-0663	S.P FOR DAMP TRUCK (FAW)	250	ITEM	"	

**MINISTRY OF OIL****SHEET NO.: 6 OF 13****ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS****LOCATION : ALL AREAS/MATERIAL WAREHOUSES****PROJECT 04-05 : SERVICE AND PLANT EQUIPMENT****SPARE PART FOR CONSTRUTION EQUIPMENTS**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-04-05-0664</b>	S.P FOR TANKERS (FAW)	<b>250</b>	<b>ITEM</b>	Spare parts	
<b>08-10-04-05-0665</b>	S.P GAMAZ TRUCK	<b>350</b>	<b>ITEM</b>	"	
<b>08-10-04-05-0666</b>	S.P FOR LORRY WITH CRANE (DAWOO)	<b>300</b>	<b>ITEM</b>	"	
<b>08-10-04-05-0667</b>	S.P FOR (BELARUSS) TRACTOR	<b>300</b>	<b>ITEM</b>	"	
<b>08-10-04-05-0668</b>	S.P FOR GENERATOR 250 KVA(GADDAR)	<b>100</b>	<b>ITEM</b>	"	
<b>08-10-04-05-0669</b>	S.P FOR MANN ELEVATOR	<b>100</b>	<b>ITEM</b>	"	
<b>08-10-04-05-0670</b>	S.P FOR CARRIER CENTRAL AIR CONDITION SYSTEM 1000 TON CAPACITY	<b>150</b>	<b>ITEM</b>	Spares for A/C in new Oil Ministry building	
<b>08-10-04-05-0671</b>	S.P FOR ELECTRICAL SYSTEM	<b>100</b>	<b>ITEM</b>	Spare parts	

**MINISTRY OF OIL**
**SHEET NO.: 7 OF 13**
**ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS**
**LOCATION : ALL AREAS**
**PROJECT 04-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-05-0672	FLANGING MACHINE TO MANUFACTURE SHALLOW & DEEP DISH ENDS	1	NO.	Workshop machinery	
08-10-04-05-0673	DISHING PRESS	1	NO.	"	
08-10-04-05-0674	VERTICAL TURRET LATHE WITH CUTTING DIA 2500 MM (BORING M/C)	1	NO.	"	
08-10-04-05-0675	VERTICAL MILLING M/C WITH WORKING SPINDLE DIA 130MM (NC)	2	NOS.	"	
08-10-04-05-0676	X-RAY EQUIPMENT FOR MAX. THICKNESS 50MM	1	NO.	NDT requirement	
08-10-04-05-0677	MOTORIZED ROLLER FOR SUBMERGED ARC WELDING (UP TO 20) TONS	6	NOS.	Workshop machinery	
08-10-04-05-0678	HYDROSTATIC TESTING SET UP TO 100 BAR	2	NOS.	"	
08-10-04-05-0679	AUTOMATIC WELDING MACHINE FOR SUBMERRGED ARE WELDING	3	NOS.	"	
08-10-04-05-0680	TRACTOR-TYPE AUTOMATIC WELDING MACHINE	5	NOS.	"	
08-10-04-05-0681	FLAME CUTTING MACHINE	1	NO.	"	
08-10-04-05-0682	HAND GAS PLASMA CUTTING MACHINE	2	NOS.	"	
08-10-04-05-0683	AUTOMATIC WELDING RECTIFIER	6	NOS.	"	
08-10-04-05-0684	HEATING FURNACE	1	NO.	"	
08-10-04-05-0685	ROLLING & BENDING MACHINE	2	NOS.	"	
08-10-04-05-0686	FINNED TUBES MACHINES	1	NO.	"	

**MINISTRY OF OIL****SHEET NO.: 8 OF 13**

**ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS**  
**LOCATION : BAGHDAD WORK SHOP FABRICATION &**  
**MAINTENANCE FOR OIL EQUIPMENT'S**  
**PROJECT 04-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-05-0687	LATHE MACHINE WITH SUITABLE ACCESSORIES & RECOMMENDED SPARE PARTS	1 5	NOS. ITEM	Maintenance workshop requirements	
08-10-04-05-0688	COORDINATE MEASURING MACHINE WITH RECOMMENDED SPARE PARTS	1	NOS.	"	
08-10-04-05-0689	ELECTRIC WIRE CUT MACHINE WITH RECOMMENDED SPARES	1	NOS.	"	
08-10-04-05-0690	ELECTRICAL DISCHARGE MACHINE EDM WITH RECOMMENDED SPARE PARTS	1	NOS.	"	
08-10-04-05-0691	GRINDING MACHINE FOR CYLINDRICAL SURFACES WITH RECOMMENDED SPARE PARTS	1	NOS.	"	

**MINISTRY OF OIL**
**SHEET NO.: 9 OF 13**
**ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS**
**LOCATION : ALL AREAS/MATERIAL WAREHOUSES**
**PROJECT 04-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-05-0692	TUBE BUNDLE PULLING M/C	1	NO.	Maintenance workshop requirements	
08-10-04-05-0693	BORING BAR TOOLS	1	SET	"	
08-10-04-05-0694	EXPANDARS RANGE TOOLS	1	SET	"	
08-10-04-05-0695	MANDRIL SPECIAL TOOLS	1	SET	"	
08-10-04-05-0696	RADIAL DRILLING M/C	1	NO.	"	
08-10-04-05-0697	SIDE BOOM CRAWLER 43 TON CAP	10	NOS	NON OIP <sup>new</sup> sector code Comm 1030449	

**MINISTRY OF OIL**
**SHEET NO.: 10 OF 13**
**ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS**
**LOCATION : ALL AREAS/ ENGINEERING INSPECTION**
**PROJECT 04-06 : TESTING, INSPECTION , STUDIES, SURVEYS &  
LABORATORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-06-0710	X-RAY EQUIPMENT	4	Set	NDT and radiography equipment	
08-10-04-06-0711	X-RAY FILMS:□□□ - AGFA D4 OR EQUIV. - AGFA D7 OR EQUIV.	50 50	ROLL ROLL	Radiography consumables	
				"	
				"	
08-10-04-06-0712	PROCESSING CHEMICALS:□□ - DEVELOPER - FIXER	250 250	PCS PCS	"	
				"	
				"	
08-10-04-06-0713	ISOTOPE SOURCE IR 192(40 CURIES) FOR WELDING & NDT INSPECTION	4	NOS.	Isotope source for welding inspection	
08-10-04-06-0714	POCKET RADIATION MONITOR	10	NOS.	Portable NDT for site work	
08-10-04-06-0715	ULTRASONIC THICKNESS GAUGE WITH ACCESSORIES	24	NOS.	"	
08-10-04-06-0716	PORTABLE HARDNESS TESTER	2	NOS.	"	
08-10-04-06-0717	DYE PENETRANT AEROSOL KIT	50	NOS.	"	
08-10-04-06-0718	WELD SEAM VACUUM TESTING DEVICE (180, 90, 90v, 120, 135)	12	NOS	NON OIP additional items Comm. 1030258	
08-10-04-06-0719	PORTABLE COATING THICKNESS GAUGE	4	NOS.	"	
08-10-04-06-0720	POCKET DOSIMETER	33	NOS.	Safety	
08-10-04-06-0721	DOSE RATE MEASURING DEVICE	4	Set	Safety	
08-10-04-06-0722	DIAL-DEPTH GAUGE	20	NOS.	NDT	
08-10-04-06-0723	SURFACE PROFILE COMPARATOR	20 NOS		NON OIP new items Comm. 1030258	
	KEAN-TATOR SAND BLASTING REFERENCE	20 NOS			
	KEAN-TATOR GRIT BLASTING REFERENCE	20 NOS			
	KEAN-TATOR SHOT BLASTING REFERENCE	20 NOS			

**MINISTRY OF OIL**
**SHEET NO.: 11 OF 13**
**ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS**
**LOCATION : ALL AREAS/ ENGINEERING INSPECTION**
**PROJECT 04-06 : TESTING, INSPECTION , STUDIES, SURVEYS &  
LABORATORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-04-06-0724</b>	<b>TECHNICAL RADIOGRAPHIC ACCESSORIES:□□□</b>			Radiographic requirements	
	- SET OF EXPOSURE MARKERS/NUMBERS	20	SET	"	
	- BLACK ADHESIVE TAPE	100	ROLL	"	
	- PENETRAMETER(EF 10/16,EF 6/12)	40	SET	"	
<b>08-10-04-06-0725</b>	<b>MULTI-CHECK WELD GAUGE</b>	20	NOS.	"	
<b>08-10-04-06-0726</b>	<b>DYNAMOMETER TENSION GAUGE.</b>	20	NOS.	"	
<b>08-10-04-06-0727</b>	<b>MAGNIFYING GLASS INSPECTION MIRROR</b>	20	NOS.	"	
<b>08-10-04-06-0728</b>	<b>CONTRACTS FOR THIRD PARTY INSPECTION OFCONTRACTED GOODS TO ENSURE COMPLIANCE TO SPECIFICATIONS AT THE SUPPLIER'S WORKS ABROAD</b>	2	CONTRACT	PSI contract	
<b>08-10-04-06-0729</b>	<b>ECHO SOUNDER FOR WATER DEPTH MEASUREMENT COMPLETE SYSTEM WITH HARDWARE, SOFTWARE &amp; RECOMMENDED SPARE PARTS AND CONSUMABLES(SH) FOR REVER CROSSING</b>	4	SET	Depth meter for river crossing sites repairs	
<b>08-10-04-06-0730</b>	<b>RANGE FINDER FOR (GIS) APPLICATIONS (GEOGRAPHICAL INFORMATION SYSTEM) COMPLETE WITH RECOMMENDED SPARE PARTS(SH)</b>	2	SET	Site survey range finder	
<b>08-10-04-06-0731</b>	<b>MODERN (GIS) STATION FOR (20) USERS,COMPLETE WITH ALL HARDWARE , SOFTWARE &amp;RECOMMENDED SPARE PARTS AND CONSUMABLES(SH) FOR SURVEY WORKS</b>	1	SET	For topographic surveys	

ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS

LOCATION : BAGHDAD

PROJECT 04-06 : TESTING, INSPECTION , STUDIES, SURVEYS &  
LABORATORIES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-06-0732	TRAINING OF TECHNICAL PERSONNEL ON TECHNOLOGIES, PROCESSES , SYSTEMS AND EQUIPMENT RELATED TO THE VARIOUS SECTORS OF THE INDUSTRY (UPSTREAM, DOWNSTREAM , DISTRIBUTION)COVERING VARIOUS ASPECTS SUCH US STUDIES , EVALUATION , DESIGN , TESTING OPERATION , TROUBLESHOOTING AND PROBLEM SOLVING.. THE TRAINING TO BE CARRIED (INSIDE AND OUTSIDE IRAQ) ACCORDING TO PRE-AGREED PROGRAMS OUTLINED IN CONTRACTS TO BE SIGNED WITH SPECIALIZED INSTITUTES AND TRAINING ESTABLISHMENTS (MOO)	6	CONTRACT	Training contracts carried forward from Phase 9	
08-10-04-06-0733	TECHNICAL ASSISTANCE CONTRACTS TO CARRY OUT EVALUATION & APPRAISAL STUDIES/ TECHNICAL ASSISTANCE / CONSULTANCIES FOR THE PURPOSE OF IDENTIFYING SOLUTIONS / REMEDIES TO SOME MAJOR PROBLEMS FACING THE OIL INDUSTRY AND / OR SELECTING NEW PROCESSES AND TECHNOLOGIES TO IMPROVE PERFORMANCE , ENHANCE PRODUCTION AND TO IMPROVE QUALITY – IN ALL ASPECTS OF THE OIL INDUSTRY (MOO)	6	CONTRACT	Technical assistance contracts carried forward from Phase 9	
08-10-04-06-0734	VARIOUS MATERIAL , EQUIPMENT & ACCESSORIES FOR PRODUCTION OF TENDER DOCUMENT , DESIGN DRAWINGS , TECHNICAL CATALOGUES... &PERIPHERALS INCLUDING AN ARCHIVING SYSTEM(HARDWARE & SOFTWARE)COMPLETE WITH CNSUMABLES & ACCESSORIES (MOO)	20	ITEM	Office equipment and peripheral equipment from Phase 9	
08-10-04-06-0735	TECHNICAL & SCIENTIFIC BOOKS & JOURNALS (MOO)	25000	NOS.	Reference works	

MINISTRY OF OIL

SHEET NO.: 13 OF 13

ESTABLISHMENT NAME : STATE COMPANY FOR OIL PROJECTS

LOCATION : BAGHDAD

PROJECT 04-07 : DEVELOPMENT PROJECTS

INTEGRATED TELECOMMUNICATION SYSTEM  
FOR THE OIL INDUSTRY

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-04-07-0745	<b>STUDY &amp; BASIC DESIGN FOR AN INTEGRATED TELECOMMUNICATION SYSTEM TO LINK THE MINISTRY OF OIL COMPLEX WITH THE HEADQUARTERS OF ALL OPERATING STATE COMPANIES IN BAGHDAD , KIRKUK , BASRAH &amp; BEIJI EMPLOYING STATE OF THE ARTTECHNOLOGIES IN TRANSMISSION OVER VRIOUS MEDIA:</b>  MICROWAVE RADIO RELAY , WIRELESS LOCAL LOOP (WLL), V.SAT AND OPTIC FIBER CABLES , TOGTHET WITH A SUITABLE MODERN VOICE/DATA PABX WITH 300-500 EXTENSIONS. THE SYSTEM IS BE CAPABLE OF HANDLING LOCAL , NATIONAL & INTERNATIONAL TRAFFIC OF VOICE , DATA , E-MAIL & OTHER COMPUTER TRAFFIC . AS WELL AS SCADA INFORMATION. THE WORKS IS TO INCLUDE TECHNICAL ASSISTANCE AND ENGINEERING CONSULTANCY (MOO)	5	CONTRACT	Communication equipment to allow SCOP to fully integrate and control numerous projects throughout Iraq	

**MINISTRY OF OIL****SHEET NO.: 1 OF 8****ESTABLISHMENT NAME : OIL EXPLORATION COMPANY****LOCATION : ALL AREAS****PROJECT 05-03 : SUSTAINING & ENHANCING PRODUCTION  
CAPABILITIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-05-03-0760	SEISMIC REFRACTION RECORDING SYSTEM 48 CHANNELS C/W ALL NECESSARIES. N.B. OPTION WITH 24 CHANNELS.	2	SET	Seismic survey requirements	
08-10-05-03-0761	SPARE PARTS AND CONSUMABLES FOR SEISMIC RECORDING SYSTEM.	1	SET	"	
08-10-05-03-0762	HAND-HELD VHF FM RADIO, 5 WATT, C/W ALL ACCESSORIES	36	UNIT	"	
08-10-05-03-0763	MOBILE VHF FM RADIO 30 WATT C/W ALL NECESSARIES .	60	UNIT	"	
08-10-05-03-0764	TOTAL STATION (ELECTRONIC THEODOLITES) WITH ALL ACCESSORIES .	7	NOS.	"	
08-10-05-03-0765	DESTOMAT ACCESSORIES	1	SET	Field survey equipment	
08-10-05-03-0766	A3 PLAIN PAPER COPIER (ZOOM UP & DOWN: 25-200 % 1 INCREMENTS) WITH ALL OPTIONS (SORTER, STAPLER, PUNCH) RADF SYSTEM WITH CONSUMABLE & SPAREPARTS	3	SET	Office equipment	
08-10-05-03-0767	AO/C PLAIN PAPER COPIER, HEAVY DUTY WITH ALL OPTIONS, CONSUMABLE & SPAREPARTS.	3	SET	Office equipment	
08-10-05-03-0768	A3 PLAIN PAPER COLOR COPIER WITH CONSUMABLES & OPTIONS	1	SET	Office equipment	

**MINISTRY OF OIL****SHEET NO.: 2 OF 8****ESTABLISHMENT NAME : OIL EXPLORATION COMPANY****LOCATION : ALL AREAS****PROJECT 05-03 : SUSTAINING & ENHANCING PRODUCTION  
CAPABILITIES**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-05-03-0769</b>	<b>A0 COLOR SCANNER, PLOTTER &amp; SYSTEM HARDWARE WITH CONSUMABLES AND SPARE PARTS</b>	<b>1</b>	<b>SET</b>	Office equipment	
<b>08-10-05-03-0770</b>	<b>READER PRINTER (N-P) WITH ATTACHEMENT 16-35 mm &amp; MICROFICHE WITH CONSUMABLES &amp; ACCESSORIES</b>	<b>2</b>	<b>SET</b>	Office equipment	
<b>08-10-05-03-0771</b>	<b>A4 COLOR LASER PRINTER</b>	<b>1</b>	<b>NOS.</b>	Office equipment	
<b>08-10-05-03-0772</b>	<b>CARDS &amp; SPARE PARTS TO UPGRADE MAIN FRAME COMPUTER (VAX II/780) TO (VAX II/785)</b>	<b>4</b>	<b>SET</b>	Office equipment	
<b>08-10-05-03-0773</b>	<b>COMPLETE VSP (VERTICAL SEISMIC PROFILE) RECORDING SYSTEM</b>	<b>1</b>	<b>SET</b>	Office equipment	

**MINISTRY OF OIL****SHEET NO.: 7 OF 8****ESTABLISHMENT NAME : OIL EXPLORATION COMPANY****LOCATION : ALL AREAS****PROJECT 05-03 : SUSTAINING & ENHANCING PRODUCTION****CAPABILITIES**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-05-03-0774</b>	<b>2D/3D LAND DATA PROCESSING &amp; INTERPRETATION SYSTEM</b>	<b>1</b>	<b>SYSTEM</b>	Seismic survey requirements	
<b>08-10-05-03-0775</b>	<b>SEISMIC SOURCE VIBRATOR 6000 23 TONS WITH ACCESSORIES, SPARE PARTS &amp; TOOL SETS</b>	<b>20</b>	<b>NOS.</b>	"	
<b>08-10-05-03-0776</b>	<b>3D PREPLANNING &amp; QUALITY CONTROL FIELD PROCESSING SYSTEM</b>	<b>2</b>	<b>NOS.</b>	"	
<b>08-10-05-03-0777</b>	<b>3D SEISMIC ACQUISITION RECORDING SYSTEM 1200 CHANNEL DUAL SOURCE</b>	<b>4</b>	<b>NOS.</b>	"	
<b>08-10-05-03-0778</b>	<b>SEISMIC DATA ACQUISITION RECORDING SYSTEM 1200 CHANNELS, DUAL SOURCE WITH ACCESSORIES, SPARE PARTS, CONSUMABLES, TECHNICAL SERVICE TRAINING, COMMISSIONING &amp; START UP</b>	<b>4</b>	<b>NOS.</b>	"	
<b>08-10-05-03-0779</b>	<b>INTERACTIVE WORK STATIONS WITH SPARES &amp; CONSUMABLES</b>	<b>4</b>	<b>NOS.</b>	"	

**MINISTRY OF OIL****SHEET NO.: 3 OF 8****ESTABLISHMENT NAME : OIL EXPLORATION COMPANY****LOCATION : ALL AREAS****PROJECT 05-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-05-05-0789	FIELD BUSES (4X4) WITH SPARE PARTS	20	NOS.	Field equipment requirements	
08-10-05-05-0790	FIELD PICKUP 4500 CC WITH SPARE PARTS	20	NOS.	"	
08-10-05-05-0791	PICK UP (4X4) LONG WHEEL BASE FOR PERSONAL AND CARGO TRANSPORTATION WITH SPARE PARTS.	20	NOS.	Plant movement requirements	
08-10-05-05-0792	CARGO TRUCK 4x2 (PAYLOAD 8 TO 10TON) WITH 10 TON HIAB CRANE WITH SPARE PARTS.	5	NOS.	"	
08-10-05-05-0793	SEISMIC CABLE CARRIER TRUCK (4X4) WITH SPARE PARTS .	20	NOS.	Seismic requirement	
08-10-05-05-0794	AMBULANCE CAR EQUIPPED WITH ALL APPLICABLE FOR FIRST AID.	2	NOS.	Safety	
08-10-05-05-0795	MOBILE KITCHEN CARAVAN MOUNTED ON WHEELS AND EQUIPED WITH ALL EQUIPMENT	12	NOS.	Field staff support	
08-10-05-05-0796	ABLUTION CARAVAN MOUNTED ON WHEELS AND EQUIPED WITH ALL EQUIPMENT	12	NOS.	Field staff support	
08-10-05-05-0797	RUBBER TANK (CAP. 20000 LTR) FOR DIESEL FUEL WITH SPARE PARTS	6	SET	Diesel storage	
08-10-05-05-0798	RUBBER TANK (CAPACITY 10000 LITER) FOR PETROL FUEL WITH SPARE PARTS .	6	SET	Motor spirit storage	
08-10-05-05-0799	RUBBER TANK (CAP. 6000 LTR) FOR DRINKING WATER WITH SPARE PARTS	12	SET	Potable water storage	

**MINISTRY OF OIL**
**SHEET NO.: 4 OF 8**
**ESTABLISHMENT NAME : OIL EXPLORATION COMPANY**
**LOCATION : ALL AREAS WELL DRILLING CONTRACT**
**PROJECT 05-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-05-05-0800	SPARE PARTS FOR TOYOTA PICK UP 4 X 4 HILUX	184 14	NOS SET	OIP approval Comm 1030281	
08-10-05-05-0801	SPARE PARTS FOR KAMAZ VEHICLES .	1	SET	"	
08-10-05-05-0802	SPARE PARTS FOR DETROIT DIESEL ENGINE 6-7 1.N IN LINE	1	SET	"	
08-10-05-05-0803	SPARE PARTS FOR VEHICLES & DRILLING RIG CFD-IB/1250	2	SET	"	
08-10-05-05-0804	SPARE PARTS FOR VIBRATORS	3	SET	"	
08-10-05-05-0805	TYRES SIZE (1600X20), (1400X20), (67X34X00/25) & 28L-26	100	NOS.	"	

**MINISTRY OF OIL**
**SHEET NO.: 5 OF 8**
**ESTABLISHMENT NAME : OIL EXPLORATION COMPANY**
**LOCATION : ALL AREAS WELL DRILLING CONTRACT**
**PROJECT 05-06 : TESTING, INSPECTION, STUDIES SURVEYS &  
LABORATORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-05-06-0810	KEROGENATOR WITH SPARE PARTS & CONSUMABLES FOR ONE YEAR	1 1	NOS. SET	Laboratory and quality control	
08-10-05-06-0811	- GAS CHROMATOGRAPH COMPLETE SYSTEM .	1	NO.	"	
	- WATER QUALITY CHECKER	1	SET	"	
	- HOTPLATE STIRRERS CERAMIC TOP.	6	NOS.	"	
	- HOTPLATE, CERAMIC	4	NOS.	"	
	- HOTPLATE, CERAMIC HALOGEN .	4	NOS.	"	
	- ACID STORAGE CABINETS (DOUBLE DOOR)	2	NOS.	"	
08-10-05-06-0812	- AUTOMATIC PREPARATION OF MATERIALOGRAPHIC SPECIMENS FOR GRINDING & POLISHING MACHINES WITH SUITABLE SPARES & CONSUMABLES .	1	NO.	Sample preparation equipment	
	- AUTOMATIC MOUNTING PRESS FOR HOT MOUNTING OF ALL MATERIALS FOR MOUNTING OF ALL MATERIALS .	1	NO.	Sample preparation equipment	
08-10-05-06-0813	AUTO-SATURATOR (AUTOMATED SATURATION APPARATUS) .	1	NO.	Testing equipment	
08-10-05-06-0814	STABILIZER 100 KV 220-380 VAC + 20V	1	NO.	Electrical supply stabilizer	
08-10-05-06-0815	AUTOMATIC DISTILLATION WATER APPARATUS FULLY AUTOMATIC, HIGH DISTILLATE PURITY, DOUBLE DISTILLATED.	10	NOS.	High purity water generation	
08-10-05-06-0816	SCANNING ELECTRON MICROSCOPE WITH ENERGY DISPERSIVE X-RAY & COATING INSTRUMENT.	1	NO.	Geological sample investigation	
08-10-05-06-0817	DIGESTER UNIT FOR SAMPLE PREPARATION.	1	NO.	Sample preparation equipment	
08-10-05-06-0818	CAPILLARY PRESSURE RESISTIVITY SYSTEM FULLY AUTOMATED RESERVOIR CONDITION	1	NO.	Core analysis	

**MINISTRY OF OIL****SHEET NO.: 6 OF 8****ESTABLISHMENT NAME : OIL EXPLORATION COMPANY****LOCATION : ALL AREAS WELL DRILLING CONTRACT****PROJECT 05-06 : TESTING, INSPECTION, STUDIES, SURVEYS &  
LABORATORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-05-06-0819	PROCESSING, INTERPRETATION & GEOLOGICAL APPLICATIONS SOFTWARE PACKAGES	1	SET	Geological survey equipment requirements	
08-10-05-06-0820	ATOMIC ABSORPTION SPECTROMETER WITH DOUBLE BEAM & AUTOMATIC GAS CONTROL.	1	NO.	"	
08-10-05-06-0821	ELEMENTAL ANALYZER (C.H.N.) WITH CONSUMABLE & SPARES.	1	NO.	"	
08-10-05-06-0822	WATER TANKER TRUCK, 8000 LTR. CAPACITY WITH SPARES.	9	NOS.	Drinking water	
08-10-05-06-0823	FULE TANKER TRUCK, 8 CU. MTR., WITH SPARE PARTS	2	NOS.	Fuel transportation	
08-10-05-06-0824	CRANE, 30 TONES, WITH SPARE PARTS.	1	NO.	Well site equipment	
08-10-05-06-0825	DESATURATION CAPILLARY PRESSURE INSTRUMENTS BY RESTORED STATE.	1	NO.	Elemental and core analysis equipment	
08-10-05-06-0826	GAS-OIL (KG/KO) RELATIVE PERMIABILITY DETERMINATION INSTRUMENT. CORE HOLDER FOR PERFORMING FLOW TEST & RELATIVE PERMEABILITY DETERMINATION (FLOODING).	1	NO.	"	
08-10-05-06-0827	CORE-SCAN COLOUR (CORE-LOG INTEGRATION & EVALUATION).	1	NO.	"	
08-10-05-06-0828	ROCK-EVAL-6 ANALYSER	1	NO.	"	
08-10-05-06-0829	GAS CHROMATOGRAPH-MASS SPECTROSCOPE	1	NO.	"	
08-10-05-06-0830	I.C.P SPECTROMETER FOR ELEMENTAL ANALYSIS	1	NO.	"	

**MINISTRY OF OIL**

**SHEET NO.: 8 OF 8**

**ESTABLISHMENT NAME : OIL EXPLORATION COMPANY**

**LOCATION : ALL AREAS**

**WELL DRILLING CONTRACT**

**PROJECT 05-07 :DEVELOPMENT PROTECT**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-05-07-0840</b>	TURN KEY SERVICE CONTRACT DRILLING FIVE WELLS INCLUDING ALL DRILLING & WELL COMPLETION, OPERATIONS, PROVISION OF ALL RELEVANT MATERIALS, LOGISTIC & SERVICES	<b>2</b>	CONTRACT	Contract for new wells in N/E Iraq (Western Desert region)	

MINISTRY OF OIL

SHEET NO.: 1 OF 14

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : BAIJI

PROJECT 06-01 : MAINTENANCE & OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-01-0850	INSTRUMENTATION & CONTROL SYSTEMS WITH SPARES:			Maintenance and repairs	
	- U.P.S SYSTEMS	25	SET	to update control	
	- ANALYZERS, TRANSMITTERS & CONTROLLERS	760	SET	processing	
	- CONTROL ROOM INSTRUMENTS	806	SET	systems	
	- CONTROL VALVES WITH ACCESSORIES	200	SET	"	
	- CONTROL PANELS WITH ACCESSORIES	50	SET	"	
	- PLC, DCS AND SCADA SYSTEMS	50	SET	"	
	- PRESSURE & LEVEL GAUGES	300	SET	"	
	- UPDATING THE PROCESS CONTROL SYSTEM	25	SET	"	
	- ANALYTICAL INSTRUMENTS : (PH METER, P.D METER	100	SET	"	
	CONDUCTIVITY METER, MOISTURE ANALYZER.			"	
	- FIRE ALARM SYSTEM	10	SET	"	
	- COMPLETE AIR DRYER	10	SET	"	
	- GOVERNORS AND SPEED INDICATORS	30	SET	"	
	- TEMPERATURE MEASUREMENT	100	SET	"	
	- FAN CONTROL & SOLENOID VALVE	100	SET	"	
	- SPARE PARTS FOR EXISTING INSTRUMENTS	100	SET	"	
	- CONTROL & INSTRUMENT MATERIALS	9	SET	"	
	- INSTRUMENTATION - FIELD INSTRUMENTS	638	SET	"	

MINISTRY OF OIL

SHEET NO.: 2 OF 14

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : BAIJI

PROJECT 06-01 : MAINTENANCE & OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-01-0851	MECHANICAL EQUIPMENT:			As per Page 1 above	
	- MAINTENANCE TOOLS	700	SET	"	
	- PIPES & TUBES VARIOUS SIZES	50000	MTR.	"	
	- FITTINGS	20000	SET	"	
	- VALVES, STRAINERS , FLANGES, WITH DIFFERENT SIZE & TYPES	20000	NOS.	"	
	- GASKETS	15000	SET	"	
	- BEARING, COUPLING, SPACERS	2000	SET	"	
	- MECHANICAL SEALS WITH SPARES	1000	SET	"	
	- WELDING ELECTRODES	100	TON	"	
	- TEST RING	100	SET	"	
	- STUD BOLTS, BOLTS & NUTS.	500	SET	"	
	- TUBE EXPANDERS	100	SET	"	
	- BALANCING MACHINE WITH ACCESSORIES	100	SET	"	
	- REPAIR FOR COMPRESSORS, PUMPS, TURBINES	500	SET	"	
		4	CONTRACT	"	
	- SPARE PARTS FOR EXISTING MECHANICAL EQUIPMENT	100	SET	"	

MINISTRY OF OIL

SHEET NO.: 3 OF 14

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : BAIJI

PROJECT 06-01 : MAINTENANCE & OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-01-0852	REPAIR & MAINTENANCE OF LUB OIL COMPLEX CONSISTING ON THE FOLLOWING ITEMS:			Equipment requirements for repair to Lube Oil plant	
	- ROTARY EQUIPMENT (PUMPS, COMPRESSORS, TURBINES) WITH SPARES	212	SET	"	
	- PIPE FITTINGS, TUBES	22	SET	"	
	- PIPE OF DIFFERENT MATERIALS	10000	MTR.	"	
	- STEEL STRUCTURE	250	TON	"	
	- MECHANICAL EQUIP. COMPLETE & SPARE PARTS	41	SET	"	
	KITS-COMPRESSORS "REPAIR KITS SETS"			"	

MINISTRY OF OIL

SHEET NO.: 4 OF 14

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : BAIJI

PROJECT 06-01 : MAINTENANCE & OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-01-0853	ELECTRICAL EQUIPMENT WITH RECOMMENDED SPARES:			Electrical repair requirements	
	- FIELD CONTROL EQUIPMENT	3000	SET	"	
	- COMPLETE MOTORS WITH SPARE PARTS	150	SET	"	
	- COMPLETE ELECTRICAL HEATER WITH RECOMMENDED SPARE PARTS	100	SET	"	
	- RELAYS & FUSES	300		"	
	- SLEEVE BEARING	100	SET	"	
	- COMPLETE CIRCUIT BREAKERS WITH RECOMMENDED SPARE PARTS	100	SET	"	
	- SPARE PARTS FOR EXISTING ELECTRICAL EQUIPMENT	300	SET	"	
	- ELECTRICAL EQUIP. WITH RECOMMENDED SPARES	354	SET	"	
	- HEATER & ANCILLARIES	1	SET	"	

	CABLES WITH ACCESSORIES	100000	MT		
		100	KIT		
		100	NOS		

MINISTRY OF OIL

SHEET NO.: 5 OF 14

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : BAIJI

PROJECT 06-01 : MAINTENANCE & OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-01-0854	CHEMICAL, CATALYST, ADDITIVES:			Various requirements	
	- FURFURAL	500	TON	for	
	- M.E.K	500	TON	process	
	- CATALYSTS FOR THE FORMERS, HDS UNITS	500	TON	units	
	- CHEMICALS FOR PROCESS UNITS	1500	TON	"	
	- CHEMICAL FOR COOLING WATER CIRCULATION	1500	TON	"	
	- CHEMICALS FOR BOILER FEED WATER.	3000	TON	"	
	- CAUSTIC SODA	1000	TON	"	
	- CATALYSTS FOR ISOMERIZATION UNIT	55	TON	"	
08-10-06-01-0855	ADDITIVES:			Additives for product	
	- TETRA ETHYL LEAD (T.E.L)	800	TON	improvement	
	- ADDITIVES FOR MOTOR ENGINE OILS	1500	TON	"	
	- ADDITIVES FOR DIESEL ENGINE OILS	1000	TON	"	
	- ADDITIVES FOR VISCOSITY INDEX IMPROVEMENT	300	TON	"	
	- AUTOMATIC TRANSMISSION FLUID (A.T.F)	100	TON	"	

MINISTRY OF OIL

SHEET NO.: 6 OF 14

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : ALL AREAS

PROJECT 06-01 : MAINTENANCE & OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-01-0856	ELECTRICAL SWITCHGEAR & CONTROL GEAR COMPONENTS & TOOLS USED FOR REHABILITATION & RECONSTRUCTION OF NETWORKS & SUBSTATIONS CONSISTING OF:				
	- CIRCUIT BREAKERS & CONTACTORS	30000	NOS		
	- ACTUATORS & MOTOR PROTECTION DEVICES	35000	NOS		
	- MEASURING INSTRUMENTS				
	- SWITCHES	4000	NOS		
	- CONNECTORS & TERMINALS	30000	NOS		
	- MOTOR STARTERS	45000	NOS		
	- TRANSFORMERS	500	NOS		
	- PANEL ACCESSORIES	1775	NOS		
	- TOOLS & METAL SHEET WORK EQUIPMENT	3000	NOS		
		10	NOS		

<b>08-10-06-01-0857</b>	<b>T.E.L. SYSTEM</b>	<b>1 CONTRACT</b>
-------------------------	----------------------	-------------------

**MINISTRY OF OIL**

**SHEET NO.: 7 OF 14**

**ESTABLISHMENT NAME : NORTH REFINERIES COMPANY**

**LOCATION : BAIJI**

**PROJECT 06-02 : REHABILITATION / REVAMPING OF  
EXISTING INSTALLATIONS**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-06-02-0860</b>	<b>COMPLETE ROTATING MECHANICAL &amp; ELECTRICAL EQUIPMENT WITH RECOMMENDED SPARES FOR REVAMPING OF EXISTING FACILITIES:</b>			Repair and maintainance of refining units throughout refinery	
	- PUMPS, VARIOUS SIZES	<b>150</b>	<b>SET</b>	"	
	- TURBINES, VARIOUS SIZES	<b>100</b>	<b>SET</b>	"	
	- POWER AND GAS TURBINES WITH ACCESSORIES AND SPARE PARTS	<b>200</b>	<b>SET</b>	"	
	- GEAR BOXES, FANS & BLADES	<b>70</b>	<b>SET</b>	"	
	- HERMETIC COMPRESSORS	<b>100</b>	<b>SET</b>	"	
	- REFRIGERATOR COMPRESSORS	<b>500</b>	<b>SET</b>	"	
	- AIR COMPRESSORS	<b>50</b>	<b>SET</b>	"	
	- HEAT EXCHANGER BUNDLES & AIR COOLER FIN FAN BUNDLES.	<b>100</b>	<b>SET</b>	"	
	- SUPER HEATERS FOR BOILERS	<b>10</b>	<b>SET</b>	"	
	- REVAMPING OF (4) BOILERS	<b>1000</b>	<b>SET</b>	"	
	- CHILLERS & EXCHANGER	<b>100</b>	<b>SET</b>	"	
	- BURNERS	<b>100</b>	<b>SET</b>	"	
	- BLOWERS & SOOT BLOWERS	<b>100</b>	<b>SET</b>	"	
	- FURNACES WITH ACCESSORIES	<b>2</b>	<b>SET</b>	"	
	- AIR CONDITIONING EQUIPMENT FOR CONTROL ROOMS	<b>100</b>	<b>SET</b>	"	
	- VESSELS, COLUMNS, DRUMS AND FLARE TIP VESSELS.	<b>600</b>	<b>SET</b>	"	

MINISTRY OF OIL

SHEET NO.: 8 OF 14

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : BAIJI

PROJECT 06-02 : REHABILITATION / REVAMPING OF  
EXISTING INSTALLATIONS

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-02-0861	- COOLING TOWER PACKING	100	SET	As per previous page	
	- TRANSFORMERS	20	ITEM	"	
	- EQUIPMENT FOR SUBSTATIONS	20	ITEM	"	
	- GENERATORS (TURBOGAS AND DIESEL)	10	ITEM	"	
	- COMPLETE MECH. EQUIP. WITH RECOMMENDED SPARES	12	SET	"	
	- HEAT EXCHANGER BUNDLES & AIR COOLER FAN	38	SET	"	
	- COLUMNS & INTERNALS	9	SET	"	
	- VESSELS, COLUMNS & DRUMS	10	SET	"	
	- REHABILITATION OF THE THREE EXISTING LIGHT GAS OIL HYDROTREATING UNITS INCLUDING ALL NECESSARY EQUIPMENT & MATERIALS AND CATALYST	6	CONTRACT	"	
				"	

MINISTRY OF OIL

SHEET NO.: 9 OF 14

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : BAIJI

PROJECT 06-03 : SUSTAINING & ENHANCING PRODUCTION  
CAPABILITIES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-03-0865	- INSTALLATION OF THE PRESSURE SWING ADSORPTION (PSA) FOR EXISTING HYDROGEN PRODUCTION UNIT SYSTEM - ERECTION EQUIPMENT, TOOLS & CONSUMABLE MATERIALS, ...ETC. FOR ISOMERIZATION UNIT & OTHERS - SERVICE CONTRACTS FOR SUPERVISION OF INSTALLATION & COMMISSIONING OF THE ISOMERIZATION UNIT	5	CONTRACT	Contracts and	
				equipment	
		100	ITEM	for plant to	
				enhance	
		6	CONTRACT	hydrogen	
				production	

**MINISTRY OF OIL**
**SHEET NO.: 10 OF 14**
**ESTABLISHMENT NAME : NORTH REFINERIES COMPANY**
**LOCATION : BAIJI**
**PROJECT 06-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-05-0868	HEAVY VEHICLES WITH SPARE PARTS :			Vehicle requirements	
	- FORK LIFTS	10	NOS.	throughout	
	- CRANES	10	NOS.	refinery	
	- SHOVELS	10	NOS.	"	
	- BULLDOZERS	10	NOS.	"	
	- DUMP TRUCKS	10	NOS.	"	
	- VARIOUS TRUCKS	10	NOS.	"	
	- AMBULANCE	10	NOS.	"	
	- LIFT TRUCKS FOR LIGHTING	10	NOS.	"	
	- HEAVY DUTY VACUUM LOADER	10	NOS.	"	
	- SEQUEEZERS	10	NOS.	"	
	- EXCAVATORS	10	NOS.	"	
	- LORRIES	10	NOS.	"	
	- VARIOUS TANKERS	10	NOS.	"	
	- FIRE FIGHTING TRUCKS	10	NOS.	Fire fighting requirements	
08-10-06-05-0869	- PACKAGE AND SPLIT UNIT WITH SPARES	100	SET	"	
08-10-06-05-0870	- TELEPHONE EXCHANGE 1000 LINE (PABX) COMPLETE WITH ALL ACCESSORIES - INTERCOM UNITS WITH CENTRAL CONTROL	21	ITEM	Replace and enhance	
				internal refinery	
		50	SET	communications	
08-10-06-05-0871	SAFETY, FIRE FIGHTING TRUCKS & EQUIPMENT, FIRE FIGHTING VEHICLES WITH RECOMMENDED SPARES	21	NOS	Safety and fire fighting	
08-10-06-05-0872	VEHICLES (BUSES, PICK-UPS, STATION WAGON) WITH SPARE PARTS	85	NOS	NON OIP new sector code	

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : BAIJI

PROJECT 06-06 : TESTING, INSPECTION, STUDIES, SURVEYS  
& LABORATORIES.

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-06-0875	MEASURING EQUIPMENT& ANALYZERS FOR QUALITY CONTROL OF PRODUCTS & TESTING EQUIPMENT FOR VERIFICATION OF PRODUCT'S SPECIFICATION	112	SET	QC requirement	
08-10-06-06-0876	ANALYTICAL INSTRUMENTS	26	SET	"	
08-10-06-06-0877	LABORATORY CHEMICALS	800	LIT	"	
	LABORATORY GLASS WARES	300	KG		
	FLAKE ICE MACHINE/WATER CONDENSER	300	SET		
	ADVANCED PREHEATING OVEN	5	SET		
	MAGNETIC STIRRER HOT PLATES	4	SET		
	SILVER STRIPS FOR CORROSION TEST	4	SET		
08-10-06-06-0878	COMPLETE INSPECTION MEASURING EQUIPMENT, VARIOUS WITH ACCESSORIES (NDT)	150	SET	NDT requirements	
08-10-06-06-0879	WRAP AROUND CLAMPS	300	SET	"	
	HIGH FREQUENCY SPARK TESTING DEVICES WITH ACCESS.	150	SET	"	
	LEAK DETECTORS FOR UNDER GROUND PIPES	100	SET	"	
08-10-06-06-0880	CONTRACTS FOR THIRD PARTY INSPECTION OF CONTRACTED GOODS TO ENSURE THE COMPLIANCE TO SPECIFICATIONS AT THE SUPPLIERS WORK ABROAD	5	CONTRACT	PSI contracts	
08-10-06-06-0881	TECHNICAL SERVICES CONTRACT- SURVEY, STUDY & ASSISTANCE FOR EQUIPMENT SURVEY, EFFICIENCY STUDIES & TECHNICAL ASSISTANCE FOR IMPROVEMENT OF MAINTENANCE & OPERATION	4	CONTRACT	Service contract to review overall refinery operations	

**MINISTRY OF OIL****SHEET NO.: 12 OF 14****ESTABLISHMENT NAME : NORTH REFINERIES COMPANY****LOCATION : BAIJI****PROJECT 06-07 : DEVELOPMENT PROJECT  
(DELAYED COKER UNIT)**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-07-0885	STUDY, BASIC DESIGN & LICENSE FOR DELAYED COKER, HYDRODESULPHURIZATION & CALCINING UNIT FOR THE EXTRACT AND/OR DECANTED OIL AS FEED TO THE DELAYED COKER UNIT, INCLUDING TECHNICAL ASSISTANCE / ENGINEERING CONSULTANCY	4	CONTRACT	Contrats for coke plant (for steel) and hydro-desulphurisation feed plant	

**MINISTRY OF OIL****SHEET NO.: 13 OF 14****ESTABLISHMENT NAME : NORTH REFINERIES COMPANY****LOCATION : BAIJI****PROJECT 06-08 : DEVELOPMENT PROJECT (FCC UNIT)**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-08-0886	BASIC DESIGN, LISENCE & MATERIALS & EQUIPMENT REQUIRED FOR THE CONTINUATION OF THE PROJECT TO INSTALL A FLUIDIZEDS CATALYTIC CRACKING "FCC" UNIT WITH THE OTHER REQUIRED DOWN STREAM UNITS CONSISTING OF THE FOLLOWING ITEMS: HEAT EXCHANGERS, AIR COOLERS, REGENERATORS, INSTRUMENTS, COLUMNS, ELECTRICAL EQUIPMENT, ROTATING EQUIPMENT, WELDING EQUIPMENT AND TOOLS, WELDING RODS, PIPES, FITTINGS, INCLUDING TECHNICAL ASSISTANCE / ENGINEERING CONSULTANCY.	10	CONTRACT	Cracking unit cf from phase 9 to increase RON in gasoline pool from RON 80/81 to RON 93	
				"	

MINISTRY OF OIL

SHEET NO.: 14 OF 14

ESTABLISHMENT NAME : NORTH REFINERIES COMPANY

LOCATION : BAIJI

PROJECT 06-09 : DEVELOPMENT PROJECT (ZEO REFORMER)

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-09-0887	STUDY, LICENSE, BASIC DESIGN AND COMMENCEMENT OF THE WORKS FOR THE INSTALLATION OF THE ZEO REFORMER FOR THE TRANSFORMATION OF NATURAL GASOLINE & NAPHTHA TO HIGH OCTANE GASOLINE, INCLUDING TECHNICAL ASSISTANCE / ENGINEERING CONSULTANCY	4	CONTRACT	Zeolite reformer to allow manufacture of gasoline from naphtha - required as insufficient hydrogen for existing process	

LOCATION : BAIJI

PROJECT 06-10 : DEVELOPMENT PROJECT

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-06-10-0888	COMPLETE STEAM BOILERS WITH ACCESSORIES, INCLUDING TECHNICAL ASSISTANCE / ENGINEERING CONSULTANCY	2	SET	Two complete steam boilers for process systems	
08-10-06-11-0889	COMPLETE LIQUID WASTE INCINERATOR & ACCESSORIES WITH SUPERVISION & INSTALLATION TO REDUCE ENVIRONMENTAL POLLUTION WITH RECOMMENDED SPARE PARTS	3 100	SET ITEM		

**LOCATION : DAURA REFINERY**  
**PROJECT 07-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-01-0895	SPARE PARTS FOR EXISTING PUMPS, COMPRESSORS, FANS GEARS, STEAM TURBINES, ROTARY FILTERS, INDIVIDUAL M/C ,MECHANICAL SEALS, COUPLINGS	10000 100	NOS SET	OIP approval additional items	
08-10-07-01-0896	SPARE PARTS FOR EXISTING INSTRUMENTS	4000	NOS.	"	
08-10-07-01-0897	COMPLETE INSTRUMENTS, TRANSMITTERS, CONTROLLERS, RECORDING CHARTS, DIGITAL PRESSURE GAUGES, TEMP. & PRESSURE SWITCHES, VIBRATION MONITORING DEVICES METERS, INDICATING LAMP, TEMP MEASURING DISKS & CONTROL VALVES, CRUDE OIL FLOW METER WITH DENSITY COMPENSATION	50000 15000 1000	NOS. ROLL SET	"	
				"	
				"	
				"	
				"	
08-10-07-01-0898	SPARE PARTS FOR EXISTING ELECTRICAL EQUIPMENT	3000	NOS.	"	
08-10-07-01-0899	BOLTS & NUTS, STUDS WITH ANTI - SIEZE LUBRICANT	100000	NOS.	"	
		200	TINS	"	
		10000	FT	"	
08-10-07-01-0900	TOWER & REACTORS INTERNALS,TRAYS,DOWNCOMERS	20000	NOS.	"	
08-10-07-01-0901	GENERAL MAINTENANCE TOOLS & EQUIPMENT,INCLUDING BUNDLE CUTTING M/C ,TUBE EXTRACTION M/C	10000	NOS.	"	

**MINISTRY OF OIL**
**SHEET NO.: 2 OF 14**
**ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY**
**LOCATION : DAURA REFINERY**
**PROJECT 07-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-01-0902	GASKETS FOR PIPES & EXCHANGERS AND GASKET SHEETS	200	SET	As per previous page	
		250	SQ.M.	"	
		20000	NOS.	"	
08-10-07-01-0903	PIPES & PIPE FITTINGS	50000	MTR.	"	
		10000	NOS.	"	
08-10-07-01-0904	INSTRUMENTATION FITTINGS AND TUBING	25000	NOS.	"	
		12000	MTR.	"	
08-10-07-01-0905	FERROUS AND POLYTHYLENE STRUCTURE SECTIONS	126740 40	CM SHEET	"	
08-10-07-01-0906	TELEPHONE EXCHANGE FOR REFINERY INTERNAL USE (1000 LINES)	2	CONTRACT	"	
08-10-07-01-0907	SPARE PARTS FOR WATER TREATMENT UNIT(EDR)	4000	NOS.	"	
08-10-07-01-0908	ROTORS REPAIR FOR COMPRESSORS,K201 AND K401	2	NOS.	"	
08-10-07-01-0909	ELECTRICAL EQUIPMENT (MOTOR CONTROL CENTERS, LOW LEVEL & MEDIUM VOLTAGE SWITCHGEAR) WITH SPARE PARTS LOW & MEDIUM VOLTAGE ELECTRICAL CABLES & WIRES	300	NOS.	"	
		30000	MTR.	"	
				"	

**MINISTRY OF OIL****SHEET NO.: 3 OF 14****ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY****LOCATION : DAURA REFINERY****PROJECT 07-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-01-0910	SPARE PARTS FOR WAX MOLDING MACHINE, PALLETIZER AND PACKAGING M/C	1000	NOS.	Wax blocks machinery	
08-10-07-01-0911	TETRA ETHYL LEAD (TEL)	500	TON	Octane improver	
08-10-07-01-0912	DETERGENT DISPERSANT PACKAGED ADDITIVE FOR H.D PREMIUM OIL	500	TON	Additives for quality improvement	
08-10-07-01-0913	DETERGENT DISPERSANT PACKAGED ADDITIVE FOR (S-3) DIESEL OIL	1000	TON	"	
08-10-07-01-0914	METHYL ETHYL KETON (MEK)	500	TON	Lube oil solvent	
08-10-07-01-0915	FURFURAL	500	TON	Additive	
08-10-07-01-0916	VISCOSITY INDEX IMPROVER	200	TON	Lube oil improver	
08-10-07-01-0917	ALUMINIUM POLYCHLORIDE PAC	100	TON	Water clarification	
08-10-07-01-0918	THERMOWELLS	2428	NOS.		
08-10-07-01-0919	AUTOMATIC TANK LEVEL GAUGING SYSTEM FOR 65 TANKS WITH RECOMMENDED SPARE PARTS AND ACCESSORIES	100	ITEM	Control system for product tanks	

**MINISTRY OF OIL**
**SHEET NO.: 4 OF 14**
**ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY**
**LOCATION : DAURA REFINERY**
**PROJECT 07-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-01-0920	EQUIPMENT & MATERIALS FOR MAINTENANCE & REPAIR OF TRANSFORMERS & MOTORS, CONSISTING OF:			Motor and transformer repair requirements	
	- GRAIN ORIENTED SILICON STEEL	500	TON	"	
	- COPPER WIRES	150	TON	"	
	- OFF - LOAD TAP CHANGERS	70	NOS.	"	
	- ON - LOAD TAP CHANGERS	70	NOS.	"	
	- TRANSFORMERS HV & LV BUSHINGS	250	NOS.	"	
	- PROTECTION DEVICES FOR TRANSFORMERS	260	NOS.	"	
	- COLD ROLLED CARBON STEEL	150	TON	"	
	- HOT ROLLED CARBON STEEL	100	TON	"	
	- INSULATING MATERIAL	200	TON	"	
	- PURCH WOOD BLOCK	10	SQ.M.	"	
	- SILICA GEL	100	KG.	"	
	- TRANSFORMER ACTIVE PARTS	30	NOS.	"	
	- FLEXIBLE WIRES	1000	MTR.	"	
	- CONNECTION TERMINALS & ACC.	1000	NOS.	"	
	- INSULATION MATERIALS	20000	SPOOL		
	FOR MV ELECTRICAL	5000	SHEET		
	MOTOR REPAIR	22000	LITER		
		2000	KG		
		3000	MT		
		1000	PCS		
		50	TON		
	- COPPER STRIPS	200	TON	"	
	- SPARE PARTS FOR EXISTING MACHINES	20	SET	"	
	- WELDING ELECTRODES	45			

MINISTRY OF OIL

SHEET NO.: 5 OF 14

ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY

LOCATION : DAURA REFINERY

PROJECT 07-02 : REHABILITATION / REVAMPING OF EXISTING  
INSTALLATIONS

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-02-0925	COMPLETE PUMPS & COMPRESSORS WITH MOTORS OR STEAM TURBINES OR DIESEL ENGINES DRIVES, FANS COMPLETE, VARIATORS MIXERS, GEARBOXES, SOOT BLOWERS, DOSING PUMPS ALL WITH RECOMMENDED SPARE PARTS	50 6	ITEM SET	Rotating equipment	
				spares	
				and parts	
				"	
08-10-07-02-0926	CONTROL SYSTEMS FOR PROCESS UNITS, & EQUIPMENT MONITORING SYSTEM FOR TANKS, COMPRESSORS, INSTRUMENTS & ACCESSORIES FOR CONTROL ROOMS.	50	ITEM	Replacement control systems	
08-10-07-02-0927	PLATES FOR STORAGE TANKS	500	TON	Plates for tank foundations	
08-10-07-02-0928	SOLID & HOLLOW METAL BARS	500	MTR.	"	
		50	SQ.M.	"	
08-10-07-02-0929	LOADING ARMS & ACCESSORIES FOR DAURA REFINERY DEPOT	100	NOS.	Overhead loading arms	
	SPARE PARTS FOR EXISTING AND NEW LOADING ARMS	250	PIECES		

MINISTRY OF OIL

SHEET NO.: 6 OF 14

ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY

LOCATION : DAURA REFINERY

PROJECT 07-03 : SUSTAINING & ENHANCING PRODUCTION  
CAPABILITIES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-03-0935	ELECTRICAL GENERATING SET TURBINE DRIVEN (4) MW CAPACITY COMPLETE WITH RECOMMENDED SPARE PARTS	1	SET	Stand-by generator to compensate for power cuts	

MINISTRY OF OIL

SHEET NO.: 7 OF 14

ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY

LOCATION : DAURA REFINERY

PROJECT 07-04 : SAFETY & ENVIRONMENTAL PROTECTION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-04-0940	SAFETY EQUIPMENT & TOOLS, SAFETY WEARS GAS DETECTORS, AIR BREATHING APPARATUS, COMPRESSED AIR CYLINDERS, AIR HOSES & CONNECTIONS, SENSORS	1000	NOS.	Safety equipment	
		500	MTR.	"	
08-10-07-04-0941	FIXED CARBON DIOXIDE SYSTEM FOR ELECTRICAL SUBSTATIONS FIRE FIGHTING WITH SPARE PARTS	5	NOS.	"	
08-10-07-04-0942	PILLAR HYDRANTS WITH AND WITHOUT WATER MONITORS WITH SPARE PARTS	160	NOS.	"	
08-10-07-04-0943	FIRE EXTINGUISHERS (DRY POWDER) 12, 30, 50 KG WITH ACCESSORIES AND SPARES	4	SET	Consumables	
08-10-07-04-0944	DRY CHEMICAL POWDER (MONNEX)	5000	KG.	"	
08-10-07-04-0945	HIGH PRESSURE BREATHING AIR CHARGING SYSTEM	2	NOS.	Safety equipment	
08-10-07-04-0946	WATER CURTAIN SPRAY NOZZLES, WATER SPRINKLERS WITH BULB, FIRE HOSE COUPLING, HYDRANT VALVES, WATER HAND BRANCHPIPE, DIVIDING BREECHING WITH HAND CONTROL VALVE, DECANTING PUMP, UNIVERSAL HOSE COUPLING BINDER, SUCTION COLLECTING HEAD	2000	NOS.	Safety equipment	
08-10-07-04-0947	RUBBER LINED PIPES AND FITTINGS FOR EFFLUENT WATER	2000	MTR.	Water distribution	
		100	NOS.	"	
08-10-07-04-0948	WASTE WATER TREATMENT UNIT CAPACITY (30) M <sup>3</sup> /HR WITH ACCESSORIES AND RECOMMEND SPARE PARTS	2	CONTRACT	Water treatment plant	

<b>08-10-07-04-0949</b>	<b>FIRE FIGHTING VEHICLE</b>	<b>2</b>	<b>NOS</b>	
-------------------------	------------------------------	----------	------------	--

**MINISTRY OF OIL**

**SHEET NO.: 8 OF 14**

**ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY**

**LOCATION : DAURA REFINERY**

**PROJECT 07-05 : SERVICE & PLANT EQUIPMENT**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-07-05-0955</b>	<b>TRUCK 16 TON WITH RECOMMENDED SPARE PARTS</b>	<b>2</b>	<b>NOS.</b>	Plant transportation	
<b>08-10-07-05-0956</b>	<b>DUMP TRUCK 16 TON WITH RECOMMENDED SPARE PARTS</b>	<b>2</b>	<b>NOS.</b>	"	
<b>08-10-07-05-0957</b>	<b>SPARE PARTS FOR EXISTING HEAVY EQUIPMENT (CRANES, TRUCKS, FORK LIFTS, SHOVELS, BULLDOZERS)</b>	<b>5220</b>	<b>NOS.</b>	"	
<b>08-10-07-05-0958</b>	<b>- PICK UP DOUBLE CAB WITH SPARE PARTS</b>	<b>30</b>	<b>NOS.</b>	"	
	<b>- LAND CRUSER with SPARE PARTS</b>	<b>10</b>	<b>NOS.</b>	"	
	<b>FORKLIFT (10) TONS WITH SPARE PARTS</b>	<b>4</b>	<b>NOS</b>	NON OIP	

<b>08-10-07-05-0959</b>	<b>TRUCK WEIGH STATION CAPACITY 100 TON</b> transferred from 08-9-07-05-0936	<b>1</b>	<b>SET</b>	<b>NON OIL new</b> <b>sector code</b>
-------------------------	---	----------	------------	--

MINISTRY OF OIL

SHEET NO.: 9 OF 14

ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY

LOCATION : DAURA REFINERY

PROJECT 07-06 : TESTING, INSPECTION, STUDIES, SURVEYS &  
LABORATORIES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-07-06-0965</b>	MEASURING DEVICES, FOR AMPERE, VOLTAGE RESISTANCE, SOIL RESISTIVITY, CORROSION METER INSULATION TESTER .	<b>300</b>	<b>NOS.</b>	Electrical testing equipment	
<b>08-10-07-06-0966</b>	STUDY ON MONITORING, CONTROL & PROTECTION DISCRIMINATION OF REFINERY ELECTRICAL SUBSTATIONS	<b>2</b>	<b>CONTRACT</b>	Study into refinery controls to overcome power failures	
<b>08-10-07-06-0967</b>	INSPECTION TESTING & CHECKING EQUIPMENT (INCLUDING TESTING EQUIPMENT FOR VERIFICATION OF PRODUCTS SPECIFICATION), TOOLS & REFERENCES	<b>150</b>	<b>SET</b>	NDT requirements	
		<b>500</b>	<b>NOS.</b>	"	
<b>08-10-07-06-0968</b>	INSPECTION UPGRADING SURVEY .	<b>2</b>	<b>CONTRACT</b>	NDT requirements	
<b>08-10-07-06-0969</b>	<b>LABORATORY &amp; PILOT EQUIPMENT &amp; DEVICES WITH RECOMMENDED SPARES AND ACCESSORIES</b>	<b>300</b> <b>1100</b>	<b>SET</b> <b>NOS.</b>	<b>QC requirements</b>	
<b>08-10-07-06-0970</b>	CONTRACTS FOR THIRD PARTY INSPECTION OF CONTRACTED GOODS TO ENSURE COMPLIANCE TO SPECIFICATIONS AT THE SUPPLIERS WORK ABOARD	<b>2</b>	<b>CONTRACT</b>	PSI contracts	
<b>08-10-07-06-0971</b>	STANDARD & CODES FOR SPECIFICATIONS ON CD ROM	<b>7</b>	<b>NOS.</b>	ASTM methods etc	

ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY

LOCATION : DAURA REFINERY

PROJECT 07-07 : DEVELOPMENT PROJECT

WATER TREATMENT UNIT (RO)

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-07-0976	WATER TREATMENT UNIT COMPLETE WITH ACCESSORIES & RECOMMENDED SPARE PARTS OF 400 M3/HOUR CAPACITY INCLUDING TECHNICAL ASSISTANCE & ENGINEERING CONSULTANCY	6	CONTRACT	RO plant to deal with salty water outlet from process plant	

LOCATION : DAURA REFINERY

PROJECT 07-08 : DEVELOPMENT PROJECT

GASOIL DESULPHURIZATION UNIT

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-08-0977	KNOW-HOW, EQUIPMENT & MATERIALS FOR THE CONTINUATION OF THE PROJECT TO INSTALL GASOIL DESULPHURIZATION UNIT TO REDUCE SULPHUR CONTENT TO 300 & 50 P.P.M, COMPLETE WITH REQUIRED DOWN STREAM UNITS (GAS SWEETENING & SULPHUR RECOVERY) WITH ACCESSORIES & RECOMMENDED SPARE PARTS CAPACITY (22000) B/D INCLUDING TECHNICAL ASSISTANCE / ENGINEERING & CONSULTANCY	10	CONTRACT	Contracts to reduce sulphur contents in gas oil from current 1% to international levels	

MINISTRY OF OIL

SHEET NO.: 11 OF 14

ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY

LOCATION : DAURA REFINERY

PROJECT 07-09 : DEVELOPMENT PROJECT

STEAM BOILER

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-09-0978	STEAM BOILER OF 150 TON/HOUR CAPACITY, MEDIUM PRESSURE (18.6 KG/CM <sup>2</sup> G & 260 CENTIGRADE) AS AN EXTENSION FOR ANOTHER IDENTICAL BOILER, TOGETHER WITH RECOMMENDED SPARE PARTS.	1	CONTRACT	2nd boiler to replace model from 1956	

LOCATION : DAURA REFINERY

PROJECT 07-10 : DEVELOPMENT PROJECT

SEMI-BLOWN ASPHALT PRODUCTION UNIT

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-10-0979	SEMI BLOWN ASPHALT PRODUCTION UNIT, CAPACITY OF (180000) TON/YEAR. CONSISTING OF VACUUM DISTILLATION, ASPHALT BLOWING & ASPHALT TANKS, TOGETHER WITH RECOMMENDED SPARE PARTS	3	CONTRACT	Blown asphalt unit	

MINISTRY OF OIL

SHEET NO.: 12 OF 14

ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY

LOCATION : DAURA REFINERY

PROJECT 07-11 : DEVELOPMENT PROJECT

UTILIZATION OF REFINERY FLARE GASES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-11-0980	ENGINEERING & EQUIPMENT SUPPLY FOR THE UTILIZATION OF FLARE GASES AS REFINERY FUEL GAS WITH ACCESSORIES & SPARE PARTS CAPACITY 9000 NM3/HOUR	4	CONTRACT	Equipment to allow flare gas utilisation	
LOCATION : DAURA REFINERY PROJECT 07-12 : DEVELOPMENT PROJECT HYPOCHLORITE GENERATOR					
CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-12-0981	HYPOCHLORITE GENERATOR WITH RECOMMENDED SPARES	4	SET	Equipment to replace chlorine injectors	

MINISTRY OF OIL

SHEET NO.: 13 OF 14

ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY

LOCATION : DAURA REFINERY

PROJECT 07-13 : DEVELOPMENT PROJECT

NAPHTHA ISOMARIZATION UNIT & HYDROGEN  
PRODUCTION UNIT

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-07-13-0982	SUPPLY OF ENGINEERING, EQUIPMENT & SUPERVISION OF NAPHTHA ISOMERIZATION UNIT OF 7500 BPSD CAPACITY & HYDROGEN PRODUCTION UNIT CAPACITY 8000 NM3/HOUR WITH ACCESSORIES & RECOMMENDED SPARE PARTS	100	ITEM	Equipment for naphtha iso unit to improve gasoline RON and to reduce TEL requirements	10RFN

**LOCATION : DAURA REFINERY**  
**PROJECT 07-14 : DEVELOPMENT PROJECT**  
**COMPLETE LIQUID WASTE INCINERATOR**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-07-14-0983</b>	COMPLETE LIQUID WASTE INCINERATOR & ACCESSORIES WITH	3	SET	Waste incinerator	
	SUPERVISION & INSTALLATION TO REDUCE ENVIRONMENTAL	100	ITEM	"	
	POLLUTION WITH RECOMMENDED SPARE PARTS			"	

**MINISTRY OF OIL**

**SHEET NO.: 14 OF 14**

**ESTABLISHMENT NAME : MIDLAND REFINERIES COMPANY**

**LOCATION : DAURA REFINERY**

**PROJECT 07-15 : DEVELOPMENT PROJECT**

**DEMINERALIZATION WATER TREATMENT UNIT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-07-15-0984</b>	DEMINERALIZATION WATER TREATMENT UNIT OF CAPACITY 300 M <sup>3</sup> /HOUR CONTINUOUS & WATER TUBE BOILER OF 150 TON/HOUR CAPACITY WITH CONSUMABLES & SPARE PARTS	100	ITEM	Demin unit for boiler water	

MINISTRY OF OIL

SHEET NO.: 1 OF 11

ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY

LOCATION : BASRAH

PROJECT 08-01 : MAINTENANCE & OPERATION


CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-01-0995	- SPARES FOR EXISTING ROTATING EQUIPMENT (PUMPS COMPRESSORS, TURBINES, GEARBOX, FANS, FILTER AND OTHER MISC . ITEMS)	26500 170	NOS. SET	Requirements for maintenance of operations	
08-10-08-01-0996	MECHANICAL EQUIPMENT WITH RECOMMENDED SPARE PARTS:			throughout refinery	
	- PIPES OF DIFFERENT SIZES & PVC PIPES	70	KM.	"	
	- FITTINGS , VALVES , SAFETY VALVES	50000	NOS.	"	
	- MECHANICAL SEAL	260	NOS.	"	
	- WELDING ELECTRODES	50	TON	"	
	- GASKETS & BEARINGS	300 6700	SET NOS.	"	
	- HEAT EXCHANGER TUBES, BUNDLES AND TOOLS	789 6	KM. NOS.	"	
	- BOLTS & STUDS WITH NUTS DIFFERENT SIZES & LENGTH	160	SET	"	
	- STEAM HOSES	350000 6	NOS. KM.	"	
08-10-08-01-0997	ELECTRICAL EQUIPMENT (MCC, MOTORS COMPLETE, STARTERS RELAY TESTER... ETC) & MEASURING EQUIPMENT WITH RECOMMENDED SPARE PARTS.	1600 75	NOS. SET	"	

**MINISTRY OF OIL**
**SHEET NO.: 2 OF 11**
**ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY**
**LOCATION : BASRAH**
**PROJECT 08-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-01-0998	ELECTRIC & INSTRUMENT CABLES WITH ACCESSORIES	53 1000	KM. NOS.	Maintenance requirements	
08-10-08-01-0999	VARIOUS INSTRUMENTATION EQUIPMENT : - CONTROL VALVES, SOLENOID VALVES, PRESSURE GAUGES, TRANSMITTERS, CONTROLLERS TRANSMISSION UNIT COMPLETE WITH SPARES. - SPARES FOR EXISTING INSTRUMENTS.  - CALIBRATION EQUIPMENT	4000 100	NOS. SET	"	
				"	
				"	
		3200 75 80	NOS. SET NOS.	"	
				"	
				"	
08-10-08-01-1000	SPARE PARTS FOR UNIT	1	SET	"	
08-10-08-01-1001	CHEMICAL & ADDITIVES:				
	- TETRA ETHYL LEAD (TEL)	800	TON		
	- ADDITIVES FOR MOTOR ENGINE OILS	800	TON		
	- ADDITIVES FOR DIESEL ENGINE OILS	1500	TON		
	- ADDITIVES FOR VISCOSITY IMPROVER	300	TON		
	WATER TREATMENT CHEMICALS:				
	- CORROSION INHIBITORS	50	TON	"	
	- FIREFIGHTING FOAM & CHEMICALS	170	TON		
	- BIO OIL DISPERSANT				
	- POLY ALUMINIUM CHLORIDE	50	TON		
	- SODIUM HEXAMITE PHOSPHATE	50	TON		
	- FURFURAL	5	TON		
		600	TON		

**MINISTRY OF OIL**
**SHEET NO.: 3 OF 11**

**ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY**  
**LOCATION : BASRAH**  
**PROJECT 08-02 : REHABILITATION/ REVAMPING**  
**OF EXISTING INSTALLATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-02-1006	COMPLETE ROTATING MACHINES( PUMPS & TURBINE)	20	NOS.	Maintenance requirements	
08-10-08-02-1007	REPLACEMENT OF DAMAGED PUMPS ,COMPRESSORS, TURBINES, GEARBOXES, FANS, CHILLERS ETC. WITH SPARES	50 2000	SET NOS.	"	
08-10-08-02-1008	REVAMPING AND UPGRADING OF PRESENT CONTROL SYSTEM TO A FULLY AUTOMATED ONE COMPLETE	4	SYSTEM	Replacement of refinery pneumatic control system	
08-10-08-02-1009	REHABILITATION OF EXISTING DAMAGED WAX PRODUCTION UNIT	1	ITEM	Maintenance requirements	
08-10-08-02-1010	REVAMPING OF EXISTING BARRELS MANUFACTURING FACTORY WITH PLATES	1 1000	ITEM TON	Repeat from Phase 9	
08-10-08-02-1011	REHABILITATION OF L.P.G UNIT(INCLUDING INSTRUMENTS ELECTRICAL, PIPE, FITTING, HEAT EXCHANGERS, DRUMS, TOWERS & OTHER REQUIRED ITEMS)	3000 200 20	NOS. SET KM.	Maintenance requirements	
08-10-08-02-1012	CONTINUATION OF THE INSIDE LINING OF THE COOLING WATER NETWORK TO INCREASE THE RELIABILITY IN THE LUBE OIL PLANT	50	ITEM		
08-10-08-02-1013	REVAMPING OF PLASTIC CAN MAKING PLANT	2	CONTRACT	New sector code	

MINISTRY OF OIL

SHEET NO.: 4 OF 11

ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY

LOCATION : BASRAH

PROJECT 08-03 : SUSTAINING & ENHANCING  
PRODUCTION CAPABILITIES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-03-1016	ONE ELECTRIC POWER GENERATION COMPLETE 10 MVA FOR EMERGENCY SERVICES WITH ALL ACCESSORIES.	10	ITEM	Uninterrupted power supply requirement	
08-10-08-03-1017	REVAMPING OF COOLING TOWERS WITH SPARE PARTS	10	ITEM	Maintenance	
08-10-08-03-1018	REVAMPING OF SECONDARY ELECTRICAL SUBSTATION	10	ITEM	Maintenance	
08-10-08-03-1019	UPGRADING THE CAPACITY OF EXISTING ATMOSPHERIC UNITS	50	ITEM	To increase throughput by 30,000 bpd	
08-10-08-03-1020	INCREASING STORAGE CAPACITIES BY ADDING (15) TANKS OF VARYING CAPACITY (CRUDE & PRODUCTS ) WITH ACCESSORIES AND SPARES	15	SET	Floating roof tankage	
08-10-08-03-1021	CRUDE OIL DESALTERS & ACCESSORIES WITH RECOMMENDED SPARE PARTS	2	SET	Crude desalters	
08-10-08-03-1022	MEMBRANES FOR THE (R.O) UNITS	10	SET	RO unit spares	

MINISTRY OF OIL

SHEET NO.: 5 OF 11

ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY

LOCATION : BASRAH

PROJECT 08-04 : SAFETY & ENVIRONMENTAL PROTECTION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-04-1030	FIRE FIGHTING VEHICLES WITH SPARE PARTS	4	NOS.	Fire fighting	
08-10-08-04-1031	SAFETY EQUIPMENT AND PERSONAL DIFFERENT SAFETY EQUIPMENT	10000	PCS	Safety equipment	
	- SAFETY BOOTS, FIRE FIGHTING OVERALL SUITS, GLOVES	400	SET	"	
	HELMETS, FIRE HOSES, CYLINDERS, WATER GUN ,	4500	NOS.	"	
	FOAMGUN, EXTINGUISHERS ... ETC.			"	
08-10-08-04-1032	TESTING AND MEASURING ENVIRONMENTAL PROTECTION EQUIPMENT WITH RECOMMENDED SPARE PARTS	150	NOS.	Environmental testing	

MINISTRY OF OIL

SHEET NO.: 6 OF 11

ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY

10RFN

**LOCATION : BASRAH**  
**PROJECT 08-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-08-05-1035</b>	<b>TANKERS FOR FUEL CAPACITY 10M3 WITH SPARE PARTS</b>	<b>2</b>	<b>NOS.</b>	Distribution transport	
	<b>- SPARE PARTS FOR THE EXISTING VEHICLES</b>	<b>200</b>	<b>SET</b>	"	
	<b>- MAINTENANCE TOOLS AND EQUIPMENT</b>	<b>12770</b>	<b>NOS</b>	"	
<b>08-10-08-05-1036</b>	- FORK LIFT CAPACITY (10) TON WITH SPARES	5	NOS	Drum & equipment handling	
	- FORK LIFT CAPACITY ( 5) TON WITH SPARES	10	NOS		
	- FORK LIFT CAPACITY ( 2) TON WITH SPARES	10	NOS		
	- FORK LIFT CAPACITY ( 1) TON WITH SPARES	10	NOS		
	- SQUEEZER WITH SPARES	10	NOS		
	- CRANE CAPACITY (80) TON WITH SPARES	1	NOS		
	- CRANE CAPACITY (50) TON WITH SPARES	2	NOS		
	- CRANE CAPACITY (30) TON WITH SPARES	2	NOS		
	- CRANE CAPACITY (20) TON WITH SPARES	4	NOS		
	- BUSES WITH SPARE PARTS	60	NOS		
	- TRUCKS CAPACITY (35) TON WITH SPARES	5	NOS		
	- SEWAGE TRUCK	1	NOS		

MINISTRY OF OIL

SHEET NO.: 7 OF 11

ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY

LOCATION : BASRAH

PROJECT 08-06 : TESTING INSPECTION, STUDIES,SURVEYS  
&LABORATORIES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-06-1040	MEASURING EQUIPMENT, ANALYZERS, LAB APPARATUS, GAS CHROMATOGRAPHY AND SYSTEMS FOR INSPECTION WITH RECOMMENDED SPARE PARTS	120 400	SET NOS.	Laboratory (QC) and NDT requirement	
08-10-08-06-1041	TESTING EQUIPMENT WITH RECOMMENDED SPARE PARTS FOR QUALITY ANALYSIS & VERIFICATION OF PRODUCTS SPECIFICATION	300	SET	NDT	
08-10-08-06-1042	TECHNICAL SERVICE CONTRACT( SURVEY , STUDIES & ASSISTANCE FOR EQUIPMENT SURVEY, EFFICIENCY STUDIES & TECHNICAL ASSISTANCE FOR IMPROVEMENT OF MAINTENANCE & OPERATION EFFICIENCY	3	CONTRACT	Efficiency study for refinery operations	

MINISTRY OF OIL

SHEET NO.: 8 OF 11

ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY

LOCATION : BASRAH

PROJECT 08-07 : DEVELOPMENT PROJECTS  
REFORMING UNIT TO IMPROVE  
OCTAIN NUMBER

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-07-1045	KNOW HOW, DESIGN, EQUIPMENT AND MATERIALS FOR INSTALLATION OF NEW REFORMING UNIT CAPACITY 10000 B/D INCLUDING SUPPLYING ALL MATERIALS REQUIRED FOR WHOLE COMPLETE PROJECT(MECHANICAL, ELECTRICAL, INSTRUMENTS, CHEMICALS, CATALYST AND UTILITIES)	10	CONTRACT	Contracts to utilize surplus naphtha and convert to 98 RON gasoline	

**LOCATION : BASRAH**  
**PROJECT 08-08 : L.G.O. HYDROTREATMENT UNIT TO REDUCE**  
**SULPHUR CONTENT**


CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-08-1046	BASIC DESIGN AND LICENSE FOR LIGHT GAS OIL (L.G.O.) HDS UNIT TO REDUCE SULPHUR CONTENT TO 300 PPM & 50 PPM WITH TWO ALTERNATIVES, CAPACITY (2 X 15000 B/D) AND (18000 B/D) WITH UPGRADING OF THE EXISTING (L.G.O) HDS UNIT, CAPACITY( 12000 B/D) TO REDUCE SULPHUR CONTENT TO 300 & 50 PPM	2	CONTRACT	Contracts to reduce gas oil sulphur content from 1 to 1.2% to 300 ppm	

**MINISTRY OF OIL** **SHEET NO.: 9 OF 11**  
**ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY**  
**LOCATION : BASRAH**  
**PROJECT 08-09 : WATER DESALINATION UNIT**


CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-09-1047	WATER DESALINATION UNIT COMPLETE( R-O ) (700M3/HR) CAPACITY WITH WATER TANK & ACCESSORIES WITH RECOMMENDED SPARE PARTS INCLUDING TECHNICAL ASSISTANCE & ENGINEERING CONSULTANCY	5	CONTRACT	Desalination plant for feedwater to demineralisation plant	

--

**LOCATION : BASRAH**  
**PROJECT 08-10 : COMPLETE STEAM BOILER**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-10-1048	COMPLETE STEAM BOILER CAPACITY 150 TON/HR WITH RECOMMENDED SPARE PART	3	CONTRACT	Replacement boilers; originals damaged	

--

MINISTRY OF OIL

SHEET NO.: 10 OF 11

ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY

LOCATION : BASRAH

PROJECT 08-11: ISOMERIZATION UNIT

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-11-1049	ISOMERIZATION UNIT WITH CAPACITY OF 11500 B/D WITH NITROGEN UNIT AS FOLLOWING: - REVAMPING OF EXISTING LIGHT GAS OIL (L.G.O) HDS UNIT TO (ONCE THROUGH) ISOMERIZATION UNIT, INCLUDING EQUIPMENT NEEDED & REQUIRED INVESTMENT TO UPGRADE THIS ISOMERIZATION UNIT TO TOTAL RECYCLE UNIT IN FUTURE - NEW TOTAL RECYCLE ISOMERIZATION UNIT WITH CAPACITY (9500 B/D)	6	CONTRACT	Isomerisation unit to produce 95 RON gasoline	
				"	
				"	
				"	
				"	
				"	
				"	
				"	

MINISTRY OF OIL

SHEET NO.: 11 OF 11

ESTABLISHMENT NAME : SOUTH REFINERIES COMPANY

LOCATION : BASRAH

PROJECT 08-12 : WASTE WATER TREATMENT PLANT

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-12-1050	- WASTE WATER TREATMENT PLANTS REHABILITATION - SPARE PARTS FOR TWO ABOVE UNITS	2	CONTRACT	Repairs to waster water plant	
		200	SET	"	

**LOCATION : BASRAH**  
**PROJECT 08-13 : DEMI. PLANTS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-08-13-1051	COMPLETE WATER DEMINERALIZATION PACKAGE UNIT WITH RECOMMENDED SPARE PARTS FOR BOILERS.	2	CONTRACT	Demin plant to supply treated water to 4 boilers	
08-10-08-14-1052	COMPLETE LIQUID WASTE INCINERATOR & ACCESSORIES WITH SUPERVISION & INSTALLATION TO REDUCE ENVIRONMENTAL POLLUTION WITH RECOMMENDED SPARE PARTS	3 100	SET ITEM		

**MINISTRY OF OIL**

**SHEET NO.: 1 OF 7**

**ESTABLISHMENT NAME : NORTH GAS COMPANY**

**LOCATION : KIRKUK**

**PROJECT 09-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-09-01-1060	<b>CHEMICALS &amp; CATALYST FOR PROCESS UNITS :</b>			Process unit requirements	
	- DI ETHANOL AMINE	1000	TON	"	
	- CATALYST FOR SULPHUR RECOVERY UNIT	140	TON	"	
	- METHANOL	100	TON	"	
	- MOLECULAR SIEVES	45	TON	"	
	- ANTI FOAM	15	TON	"	
	- ACTIVATED CARBON	100	TON	"	
	- CAUSTIC SODA	400	TON	"	
	- ACTIVATED ALUMNA	10	TON	"	
08-10-09-01-1061	<b>CHEMICALS FOR INDUSTRIAL WATER TREATMENTS:</b>			Ion exchange water treatment	
	- RESINS FOR WATER DEMI . UNITS	100	M <sup>3</sup>	"	
	- CHEMICALS FOR COOLING TOWER, BOILERS, WASTE & SERVICE WATER TREATMENT	500	TON	"	
				"	

**MINISTRY OF OIL**
**SHEET NO.: 2 OF 7**
**ESTABLISHMENT NAME : NORTH GAS COMPANY**
**LOCATION : KIRKUK**
**PROJECT 09-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-09-01-1062</b>	<b>MEASURING &amp; CONTROL. INSTRUMENT WITH SPARE PARTS:</b> - SPARE PARTS FOR EXISTING MEASURING & CONTROL SYSTEMS - INSTRUMENT CABLES, THERMOCOUPLE CABLES, FITTINGS, TUBES	350	SET	Instrumentation requirements	
		6000	NOS.	"	
		13000	MTR.	"	
		700	NOS.	"	
<b>08-10-09-01-1063</b>	<b>ELECTRICAL EQUIPMENT SPARE PARTS AND CABLES :</b> - POWER & CONTROL CABLES - RELAYS, CONTACTORS, CHARGERS, BATTERIES CAPACITOR BANKS - SPARE PARTS FOR THE EXISTING ELECTRICAL EQUIPMENT	50000	MTR.	Electrical requirements	
		120	SET	"	
		4000	NOS.	"	
		200	SET	"	
		2500	NOS.	"	
<b>08-10-09-01-1064</b>	<b>SPARE PARTS FOR EXISTING ROTATING EQUIPMENT:</b> - PUMPS - COMPRESSORS. - STEAM TURBINES . - COOLING TOWER FANS & GEAR BOXES - BLOWERS	4000	SET	Rotating equipment spares	
		5000	NOS.	"	
		4000	SET	"	
		4000	NOS.	"	
		8000	SET	"	
		8000	NOS.	"	
		4000	SET	"	
		5000	NOS.	"	
		3000	SET	"	
		4000	NOS.	"	

**MINISTRY OF OIL****SHEET NO.: 3 OF 7****ESTABLISHMENT NAME : NORTH GAS COMPANY****LOCATION : KIRKUK****PROJECT 09-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-09-01-1065</b>	<b>PIPES, TUBES, FITTINGS, PLATES, TRAYS, HEAT EXCHANGER BUNDLES, TUBE SHEETS FOR (HEAT EXCHANGERS FURNACES BOILERS, FLARE, TOWER, MESH WIERS, GASKET &amp; CARTRIDGE FILTERS</b>	<b>103800</b>	<b>MTR.</b>	Workshop requirements	
		<b>100</b>	<b>ITEM</b>	"	
		<b>100</b>	<b>SET</b>	"	
		<b>541</b>	<b>NOS.</b>	"	
<b>08-10-09-01-1066</b>	<b>RAW &amp; SEMI FINISHED MATERIALS FOR WORKSHOP: (SOLID &amp; HOLLOW BARS OF BRASS, BRONZE, ALLOY STEEL, CAST IRON FOR WORKSHOP REQUIREMENT</b>	<b>7000</b>	<b>MTR.</b>	Workshop materials	

**LOCATION : KIRKUK****PROJECT 09-02 : REHABILITATION / REVAMPING OF EXISTING INSTALLATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-09-02-1070</b>	<b>PUMPS, BLOWERS, GEARBOXES TO REPLACE OBSOLETE ONES, WITH RECOMMENDED SPARES</b>	<b>200</b>	<b>ITEM</b>	Rehabilitation of units	
		<b>10000</b>	<b>NOS.</b>	"	
<b>08-10-09-02-1071</b>	<b>UPGRADING OF COOLING TOWER WITH SPARE PARTS.</b>	<b>100</b>	<b>SET</b>	"	
		<b>2000</b>	<b>NOS.</b>	"	
<b>08-10-09-02-1072</b>	<b>MEASURING INSTRUMENTS (CONTROLLERS, RECORDERS, INDICATORS, AUXILIARY PANEL INSTRUMENT VIBRATION MONITORS, PRESSURE AND TEMP. GAUGES, LEVEL SWITCHES, THERMOCOUPLES, SOLENOID VALVES.</b>	<b>300</b>	<b>SET</b>	"	
		<b>3500</b>	<b>NOS.</b>	"	

**MINISTRY OF OIL**
**SHEET NO.: 4 OF 7**
**ESTABLISHMENT NAME : NORTH GAS COMPANY**
**LOCATION : KIRKUK**
**PROJECT 09-02 : REHABILITATION / REVAMPING OF  
EXISTING INSTALLATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-09-02-1073	VALVES & REGULATORS WITH ACCESSORIES & SPARE PARTS	300	SET	Rehabilitation of units	
		4000	NOS.	"	
08-10-09-02-1074	IN LINE ANALYZERS, LAB. ANALYZERS, WITH SPARE PARTS	100	SET	On-line process control	
		500	NOS.	"	
08-10-09-02-1075	MOTORS WITH ACCESSORIES AND SPARES  MOTOR CONTROL CENTERS (MCC), SWITCH BOARD, CONTROLS AND RECOMMENDED SPARE PARTS	20	SET	Rehabilitation of units	
		2000	NOS.	"	
		10	SET	Rehabilitation of units	
		200	NOS.	"	
08-10-09-02-1076	FINNED PLATE HEAT EXCHANGER COOLING SYSTEM	2	SET	Rehabilitation of units	
	EXPANDED PERLITE FOR NON EVACUATED CRYO. (LOW TEMPERATURE INSULATION)	5000	KG	OIP Approval Comm 1030778 <b>new item</b>	

**LOCATION : KIRKUK**
**PROJECT 09-03: SUSTAINING & ENHANCING PRODUCTION  
CAPABILITIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-09-03-1080	WASTE WATER TREATMENT UNIT REHABILITATION & EXPANSION WITH SPARE PARTS	10	CONTRACT	Water treatment unit	

MINISTRY OF OIL

SHEET NO.:5 OF 7

ESTABLISHMENT NAME : NORTH GAS COMPANY

LOCATION : KIRKUK

PROJECT 09-04: SAFETY & ENVIRONMENT PROTECTION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-09-04-1084	PERSONAL SAFETY: PERSONAL SAFETY DEVICES (BELTS, SUITS, HELMETS, BOOTS, CLOVES, GOGGLES)	30000	NOS.	Safety	
				"	
				"	
08-10-09-04-1085	EQUIPMENT SAFETY	50	SET	Safety	
		2000	NOS.	"	
08-10-09-04-1086	FIRE EXTINGUISHING MATERIALS & EQUIPMENT (LIGHT WATER , FOAM, FLOUR PROTEIN, EXTINGUISHING POWDER)	5000	LIT.	Fire fightiing	
		15	TON	consumables	
08-10-09-04-1087	GAS / SMOKE / FIRE TOXIS GAS MEASURING EQUIPMENT	500	NOS.	Safety	
08-10-09-04-1088	DETECTORS & MONITORS WITH SPARE PARTS	200	SET	Safety	
08-10-09-04-1089	SITE MONITORING SYSTEM WITH SPARE PARTS	20	SYSTEM	Explosimeter, H2S meter	
		3000	NOS.	"	
08-10-09-04-1090	INSPECTION EQUIPMENT WITH SPARSE (NDT)	50	SET	NDT	
		500	NOS.	"	

**MINISTRY OF OIL**
**SHEET NO.:6 OF 7**
**ESTABLISHMENT NAME : NORTH GAS COMPANY**
**LOCATION : KIRKUK**
**PROJECT 09-05 : SERVICE & PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-09-05-1095	- BUSES	30	NOS.	Vehicles and	
	- VAC-ALL	1	NO.	equipment	
	- FIRE FIGHTING VEHICLES	2	NOS.	for NGC	
	- TANK CAR	5	NOS.	operations	
	- EXCAVATOR	1	NO.	"	
	- ELECTRIC MAINTENANCE LIFTING CAR	1	NO.	"	
	- FORKLIFTS	15	NOS.	"	
	- CRANES	4	NOS.	"	
	- GRADER	1	NO.	"	
	- SHOVELS	4	NOS.	"	
	- DUMPER	4	NOS.	"	
	- TRAILERS	3	NOS.	"	
	- LORRIES	5	NOS.	"	
	- LORRY WITH CRANE	2	NOS.	"	
	- LATHE MACHINE	4	NOS.	"	
	- SPARE PARTS FOR ABOVE	5220	NOS.	"	

MINISTRY OF OIL

SHEET NO.: 7 OF 7

ESTABLISHMENT NAME : NORTH GAS COMPANY

LOCATION : KIRKUK

PROJECT 09-06: TESTING INSPECTION, STUDIES, SURVEYS  
& LABORATORIES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-09-06-1100	INSPECTION: CONTRACTS FOR THIRD PARTY INSPECTION OF CONTRACTED GOODS TO ENSURE COMPLIANCE TO SPECIFICATION AT THE SUPPLIERS WORKS ABOARD	5	CONTRACT		
				PSI contracts	
08-10-09-06-1101	CONSULTATION & ENGINEERING: TECHNICAL SERVICE CONTRACTS, SURVEY, STUDIES & ASSISTANCE FOR EQUIPMENT SURVEY, EFFICIENCY STUDIES & TECHNICAL ASSISTANCE, FOR IMPROVEMENT OF MAINTENANCE & OPERATION	4	CONTRACT		
				Efficiency studies	
08-10-09-06-1102	MAINTENANCE SERVICE CONTRACTS.	5	CONTRACT	Repair of turbine rotors	

MINISTRY OF OIL

SHEET NO.: 1 OF 11

ESTABLISHMENT NAME : SOUTH GAS COMPANY

LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &  
COOLING PLANT& FACILITIES, NORTH  
RUMAILA NGL PLANT AND SOUR GASES

PROJECT 10-01 : MAINTENANCE AND OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-01-1120	LINING OF PIPES FOR EXISTING FIRE FIGHTING WATER SYSTEM	3	CONTRACT	Epoxy linings	
08-10-10-01-1121	OVERHAUL MAINTENANCE FOR GAS TURBINES IN NORTH RUMAILA INCLUDING SUPPLY OF REQUIRED MATERIALS, EQUIPMENT AND INSTALLATION	6	CONTRACT	On-site maintenance contracts	
08-10-10-01-1122	CYLINDER FILLING SYSTEM FOR NITROGEN PLANT	2	CONTRACT	N2 for cryogenic LPG tanks	
08-10-10-01-1123	METERING SYSTEM FOR NATURAL GAS FEED TO KHOR - ZUBAIR, LPG, NGL PLANT, WITH ALL ACCESSORIES AND RECOMMENDED SPARES	4	SET	Control system	
08-10-10-01-1124	ELECTRICAL POWER FACTOR CORRECTION EQUIPMENT WITH RECOMMENDED SPARES AND INSTALLATION	4	CONTRACT	Reactive load system	

MINISTRY OF OIL

SHEET NO.: 2 OF 11

ESTABLISHMENT NAME : SOUTH GAS COMPANY

LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &  
COOLING PLANT& FACILITIES, NORTH  
RUMAILA NGL PLANT AND SOUR GASES

PROJECT 10-01 : MAINTENANCE AND OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-01-1125	PIPES, TUBES AND VALVES, FITTINGS, STRAINERS, BEARINGS, BELTS, BOLTS & NUTS, HEAT EXCHANGERS AND SPARES	20000 30000	MTR. NOS.	Maintenance requirements	
08-10-10-01-1126	CONSUMABLE CHEMICALS MOLECULAR SEIVE, CERAMIC BALLS, TETRA ETHYL GLYCOL, SULFOLANE, DIPA, FOAM LIQUID & POWDER	6000 150000	TON LTR.	Chemical consumables	
08-10-10-01-1127	SPARES FOR THE EXISTING GAS TURBINES, COMPRESSORS, PUMPS, AIR COLLAR FANS, BURNERS, FLARES WITH OVERHAUL MAINTENANCE	11434 500 4	NOS. SET CONTRACT	Spares for turbines, compressors, flare systems	
	THERMOFOIL SUITS	20	SET	NON OIP new item Comm 1030501	

**MINISTRY OF OIL****SHEET NO.: 3 OF 11****ESTABLISHMENT NAME : SOUTH GAS COMPANY****LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &  
COOLING PLANT& FACILITIES, NORTH  
RUMAILA NGL PLANT AND SOUR GASES****PROJECT 10-01 : MAINTENANCE AND OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-10-01-1128</b>	<b>INSTRUMENTS INCLUDING CONTROL VALVES, SOLENOID VALVES, SERVO VALVES, TRANSFER VALVES, SAFETY VALVES, ACTUATORS, SWITCHES, RECORDERS, TRANSMITTERS, GAUGES, CONTROLLER, SENSORS, THERMOCOUPLES, CHARTS, TRANSDUCERS, FUSES, SIGNAL LAMPS CAPACITORS, RECEIVERS, INVERTERS, DETECTORS, METERS, CABLES, INDICATORS, RELAYS, ISOLATORS, POWER SUPPLY, BATTERY, CHARGERS, BATTERIES, PROBES, CONTROL PANEL, ELECTRONIC CARDS, WITH SPARE PARTS</b>	<b>30000 2000 30000</b>	<b>NOS. SET MTR.</b>	Replacement control systems	
<b>08-10-10-01-1129</b>	<b>ELECTRICAL INCLUDING MOTORS, ROTORS, CIRCUIT BREAKERS, TRANSFORMERS, CAPACITORS, CONTACTORS, JOINTS, LIGHTS, LAMPS, BALLAST HOLDERS, CABLES, WINDING WIRES, FUSES, INSULATION, BATTERIES, EXPANSION VALVES, SWITCHES, LINKS, AND SPARES PARTS</b>	<b>132000 2000 50000</b>	<b>NOS. SET MTR.</b>	Electrical requirements for control systems	

**MINISTRY OF OIL****SHEET NO.: 4 OF 11****ESTABLISHMENT NAME : SOUTH GAS COMPANY****LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &  
COOLING PLANT& FACILITIES, NORTH  
RUMAILA NGL PLANT AND SOUR GASES****PROJECT 10-02 : REHABILITATION / REVAMPING OF EXISTING  
INSTALLATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-02-1134	REVAMPING & REHABILITATION OF NGL PLANT INCLUDING SUPPLY OF REQUIRED MATERIALS & EQUIPMENT (ELECTRICAL, INSTRUMENTS, TOWERS, PIPES, HEATEXCHANGERS AND OTHER MISC. WITH TECHNICAL SERVICE AND CONSULTANCY	25000 500 4	NOS. SET CONTRACT	Khor Zubair No 2 NGL plant rehabilitation	
08-10-10-02-1135	DEVELOPMENT OF THE FUEL GAS SYSTEMS IN KHOR-ZUBAIR TO UTILIZE FLARED DRY GAS WITH SUPPLY MATERIALS, INCLUDING TECHNICAL ASSISTANCE & CONSULTANCY	3	CONTRACT	Gas system to utilize flared gases	
08-10-10-02-1136	DESIGN & SUPPLY FACILITIES TO UTILIZE DRY GAS FROM DEATHENISER AS FEED TO PETROCHEMICAL DIRECTLY INCLUDING TECHNICAL SURFACE, ASSISTANCE	2	CONTRACT	System to use dry gas to re activate sieves	
08-10-10-02-1137	REVAMPING OF PROPANE COOLING SYSTEM FOR GAS TURBINES AT KHORE - ZUBAIR AND NORTH RUMAILA	6	CONTRACT	Revamping of NGL plant cooling system	
08-10-10-02-1138	REPLACEMENTS OF TWO REGENERATION COMPRESSORS FOR MOLECULAR SEIVE USED FOR THE DEHYDRATION	2	SET	Replacement of compressors	
08-10-10-02-1139	AIR COMPRESSORS & CHILLERS WITH RECOMMENDED SPARE PARTS WITH INSTALLATION AND PRE COMMISSIONING	6	CONTRACT	NGL plant spares	
08-10-10-02-1140	GAS TURBINES WITH RECOMMENDED SPARES WITH INSTALLATION & PRE-COMMISSIONING	4	CONTRACT	Turbine refurbishment	
08-10-10-02-1141	REVAMPING OF CONTROL SYSTEM FOR EXISTING GAS TURBINES AND COMPRESSORS WITH RECOMMENDED SPARE PARTS (RETROFIT) WITH INSTALLATION	4	CONTRACT	Control system repairs	

MINISTRY OF OIL

SHEET NO.: 5 OF 11

ESTABLISHMENT NAME : SOUTH GAS COMPANY

LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &  
COOLING PLANT& FACILITIES, NORTH  
RUMAILA NGL PLANT AND SOUR GASES

PROJECT 10-02 : REHABILITATION / REVAMPING OF EXISTING  
INSTALLATIONS

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-02-1142	REHABILITATION, PRE COMMISSIONING & START UP OF LPG GAS STORAGE & COOLING PLANT IN UM-QASSR:  - REHABILITATION, PRE COMMISSIONING & START UP OF CRYOGENIC STORAGE TANKS & COMPRESSORS, PUMPS & PIPE LINE RELATED TO IT AT STORAGE TANKS SITE - REHABILITATION, PRE COMMISSIONING & START UP OF PROPANE, BUTANE & NATURAL GASOLINE LOADING ARMS - SCOPE OF SUPPLY INCLUDE STUDY, WORK & MATERIALS	6	CONTRACT	Gas storage terminal, 2 tanks, for C3/C4 gases to store excess gas for use in winter	
08-10-10-02-1143	REVAMPING OF AIR COMPRESSORS AND THE DEHYDRATION UNIT OF WET GASES CONTROL SYSTEMS	4	CONTRACT	Wet gas storage at Khor Zubair	

**MINISTRY OF OIL****SHEET NO.: 6 OF 11****ESTABLISHMENT NAME : SOUTH GAS COMPANY****LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &  
COOLING PLANT& FACILITIES, NORTH  
RUMAILA NGL PLANT AND SOUR GASES****PROJECT 10-03 : SUSTAINING & ENHANCING PRODUCTION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-03-1146	STUDY AND SUPPLY OF REQUIRED MATERIALS TO SEPARATE & UTILIZE SOUR GASES PRODUCED FROM NORTH RUMAILA NGL PLANT LIHAIS, WEST QUARNA INCLUDING TECHNICAL ASSISTANTS	30000 2000 6	NOS. SET CONTRACT	Contract to remove H2S from sour gas	
08-10-10-03-1147	REPLACEMENT AIR COOLING SYSTEM WITH RECOMMENDED SPARES AND INSTALLATION, PRE COMMISSIONING	2	CONTRACT	Air coolers for flare funnels	
08-10-10-03-1148	WATER REVERSE OSMOSIS UNIT IN NORTH RUMAILA NGL PLANT WITH ACCESSORIES AND RECOMMENDED SPARES AND INSTALLATION	1	CONTRACT	R/O unit for demin water for gas washing	

**MINISTRY OF OIL****SHEET NO.: 7 OF 11****ESTABLISHMENT NAME : SOUTH GAS COMPANY****LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &  
COOLING PLANT& FACILITIES, NORTH  
RUMAILA NGL PLANT AND SOUR GASES****PROJECT 10-04 : SAFETY AND ENVIRONMENTAL PROTECTION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-04-1155	FIRE FIGHTING & SAFETY EQUIPMENT'S, ACCESSORIES WITH SPARES	6000 200	NOS. SET	Fire fighting spares	
08-10-10-04-1156	SAFETY DEVICES FOR GAS DETECTORS	200	SET	Safety requirements	
08-10-10-04-1157	PERSONAL HUMAN SAFETY ENVIRONMENTS INCLUDE HELMETS, GOGGLES, NOISE PROTECTION, SUITS, SHOES, GLOVES, CANVAS, BANDS...ETC.	20000 2000	NOS. SET	Safety requirements	
08-10-10-04-1158	EQUIPMENT MATERIALS FOR CONTROL THE POLLUTION OF AIR, LAND & WATER SOURCES	2000	SET	Environmental control	
08-10-10-04-1159	FIRE FIGHTING SYSTEM WITH RECOMMENDED SPARES INCLUDING INSTALLATION	3	ITEM	Fire fighting equipment plus spares	
08-10-10-04-1160	FIRE ALARM SYSTEM WITH RECOMMENDED SPARES AND INSTALLATION	2	ITEM	Fire alarm system	

**MINISTRY OF OIL**
**SHEET NO.: 8 OF 11**
**ESTABLISHMENT NAME : SOUTH GAS COMPANY**
**LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &**
**COOLING PLANT& FACILITIES, NORTH**
**RUMAILA NGL PLANT AND SOUR GASES**
**PROJECT 10-05 :SERVICE AND PLANT EQUIPMENT'S**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-05-1165	RENEW OF THE CENTRAL, CHILLERS & WINDOW TYPE AIR CONDITIONING SYSTEMS COMPLETE WITH SPARES	125 30	NOS SET	A/C requirements	
08-10-10-05-1166	SPARE PARTS FOR LIFTING, HANDLING, FIRE FIGHTING, BUSES, TRUCKS & OTHER VEHICLES	50000 2000	NOS. SET	Transportation spare parts	
08-10-10-05-1167	- WORK SHOP REQUIREMENTS INCLUDE DIESEL, ELECTRIC AND HAND WELDING MACHINES, PUMPS, AIR COMPRESSORS,  LIFTING, HANDLING, GRINDING WITH THEIR ACCESSORIES AND SPARES - MANUAL, HYDRAULIC TOOLS WITH CONSUMABLE MATERIALS FOR ABRASIVE AND GRIND, CUTTING	2000	NOS.	Workshop requirements	
		200	SET	"	
		30000	NOS.	"	
		4000	SET	"	
08-10-10-05-1168	LATHE MACHINES WITH ACCESSORIES AND RECOMMENDED SPARE PARTS BALANCE MACHINE WITH ACCESSORIES AND RECOMMENDED SPARE PARTS SLOTTING MACHINE WITH ACCESSORIES AND RECOMMENDED SPARE PARTS	2 2 2	SET SET SET	Turning machinery for workshops	

**MINISTRY OF OIL****SHEET NO.: 9 OF 11****ESTABLISHMENT NAME : SOUTH GAS COMPANY****LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &  
COOLING PLANT & FACILITIES, NORTH  
RUMAILA NGL PLANT AND SOUR GASES****PROJECT 10-05 :SERVICE AND PLANT EQUIPMENT'S**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-05-1169	- TELESCOPIC CRANE 5 TON CAPACITY WITH ACCESSORIES AND RECOMMENDED SPARE PARTS	2	SET	Crane & equipment for flare tip maintenance	
	- TRACTOR WITH SEMI TRAILER 30-50 TONS CAPACITY WITH ACCESSORIES AND RECOMMENDED SPARE PARTS	2	SET	Maintenance equipment	
	- SHOVEL 1 M <sup>3</sup> CAPACITY WITH ACCESSORIES AND	4	SET	"	
	- CRANES 15,50,80,120 TONS CAPACITY WITH ACCESSORIES AND RECOMMENDED SPARE PARTS	2	SET	"	
	- WINCH TRUCK WITH ACCESSORIES AND RECOMMENDED SPARE PARTS	4	SET	"	
	- FORKLIFTS 5 TONS CAPACITY WITH ACCESSORIES AND RECOMMENDED SPARE PARTS	2	SET	"	
	- CLEANING TRUCK WITH ACCESSORIES AND RECOMMENDED SPARE PARTS	2	SET	"	
				"	
				"	
				"	

**MINISTRY OF OIL****SHEET NO.: 10 OF 11****ESTABLISHMENT NAME : SOUTH GAS COMPANY****LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE &  
COOLING PLANT & FACILITIES, NORTH  
RUMAILA NGL PLANT AND SOUR GASES****PROJECT 10-06 : TESTING, INSPECTION, STUDIES, SURVEYS &  
LABORATORIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-06-1175	- QUALITY CONTROL, MEASURING, ANALYZERS, CALIBRATORS EQUIPMENT'S, GLASSWARE WITH ACCESSORIES AND RECOMMENDED SPARE PARTS - INSPECTION, MEASURING EQUIPMENT'S AND DEVICES WITH ACCESSORIES AND RECOMMENDED SPARE PARTS - CONSUMABLE CHEMICAL FOR LABORATORIES	200	SET	Q/C equipment	
		200	SET	"	
		10000	LTR.	"	
08-10-10-06-1176	TECHNICAL ASSISTANCE FOR IMPROVEMENT OF OVERHAUL MAINTENANCE OF THE PLANT.	2	CONTRACT	Assessment of plant maintenance	
08-10-10-06-1177	CONTRACTS FOR THIRD PARTY INSPECTION OF CONTRACTED GOODS TO ENSURE COMPLIANCE TO SPECIFICATIONS AT THE SUPPLIER WORKS ABROAD	2	CONTRACT	PSI contracts	

**MINISTRY OF OIL**
**SHEET NO.: 11 OF 11**
**ESTABLISHMENT NAME : SOUTH GAS COMPANY**
**LOCATION : KHOR - ZUBAIR NGL, LPG PLANT, STORAGE & COOLING PLANT & FACILITIES, NORTH**
**RUMAILA NGL PLANT AND SOUR GASES**
**PROJECT 10-07 : COMPLEMENTARY PROJECTS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-10-07-1180	PORTABLE WATER TREATMENT PLANT COMPLETE (PIPES, FITTINGS, PUMPS, DESALINATION UNITS, CLARIFIER, FILTERS, ELECTRICAL, CONTROL & INSTRUMENTATION, TELEPHONIC SERVICES, TANKS & OTHER NECESSARY ITEMS) INCLUDING TECHNICAL ASSISTANCE / ENGINEERING CONSULTANCY WITH TWO R.O UNITS. ONE IS IN KHOR - ZUBAIR & THE OTHER IS IN THE LOADING TERMINAL	10	CONTRACT	Two R/O units for water treatment of supply from river to be treated for use as potable water	
08-10-10-07-1181					
08-10-10-07-1182					
08-10-10-07-1183					
08-10-10-07-1184					
08-10-10-07-1185	COMPLETE HEATING SYSTEM FOR LPG transferred from 08-8-10-08-1190	1	CONTRACT	OIP approval Comm 1030562	

**MINISTRY OF OIL**
**SHEET NO.: 1 OF 9**
**ESTABLISHMENT NAME : GAS FILLING CO.**
**LOCATION : ALL AREAS**
**PROJECT 11-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-11-01-1190</b>	<b>LPG CYLINDER VALVES AND SPARES:-</b> - VALVE, COMPLETELY ASSEMBLED - UPPER PARTS OF VALVES - SPINDLE - O-RING	<b>1000000</b>	<b>NOS.</b>	Cylinder valve replacemnts	
		<b>1000000</b>	<b>NOS.</b>	"	
		<b>6000000</b>	<b>NOS.</b>	"	
		<b>1000000</b>	<b>NOS.</b>	"	
<b>08-10-11-01-1191</b>	<b>FILLING HEAD AND SPARES :-</b> - MANUAL FILLING HEAD COMPLETE - SPARE PARTS FOR ABOVE - SET OF TOOLS	<b>200</b>	<b>NOS.</b>	Cylinder valve replacemnts	
		<b>10000</b>	<b>NOS.</b>	"	
		<b>150</b>	<b>SET</b>	"	
<b>08-10-11-01-1192</b>	<b>SPARE PARTS FOR KUT CYLINDER FACTORY :-</b> - SPARE PARTS FOR EQUIPMENT & MACHINES & REPLACEMENT EQUIPMENT - DIES FOR THE MAINTENANCE OF LPG CYLINDER - STRIP FEEDER FOR BLANK CUTTING PNEUMATIC CHISEL UNIT, VALVE, SCREWING MACHINE, WASHING PLANT FOR CLEANING LPG CYLINDER - MECHANICAL & PNEUMATIC MANIPULATOR FOR WELDING BASE RINGS & GUARD OF LPG CYLINDER	<b>178</b>	<b>ITEM</b>	Requirements for maintenance of cylinder factory	
		<b>4</b>	<b>NOS.</b>	"	
		<b>18</b>	<b>NOS.</b>	"	
		<b>40</b>	<b>NOS.</b>	"	

**MINISTRY OF OIL**
**SHEET NO.: 2 OF 9**
**ESTABLISHMENT NAME : GAS FILLING CO.**
**LOCATION : ALL AREAS**
**PROJECT 11-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-11-01-1193	ELECTRICAL & INSTRUMENT SPARE PARTS FOR LPG FILLING PLANTS:- SPARE PARTS FOR INSTRUMENT EQUIPMENT (METERS, ROTARY, GAUGES, MOTOR) ROTARY, GAUGES, MOTOR ) - SPARE PARTS FOR ( H.T & L.T) ELECTRICAL EQUIPMENT - SPARE PARTS FOR ELECTRIC MOTORS AND GENERATORS DIESEL DRIVEN PUMP FOR WATER, TRUCK & PICK UP. - SPARE PARTS FOR CATHODIC PROTECTION	737 100	NOS	Spares for LPG filling plants	
			M		
		50	ITEM	"	
		100000	NOS.	"	
		500	SET	"	
		20	ITEM	"	
08-10-11-01-1194	SCREW & NUT	1500000	NOS.	"	
08-10-11-01-1195	DIESEL GENERATOR COMPLETE WITH SPARE PARTS	10	SET	"	
		5000	NOS.	"	
08-10-11-01-1196	MECHANICAL SPARE PARTS FOR LPG FILLING PLANTS:- - SPARE PARTS FOR BOILER - SPARE PARTS FOR FILLING PLANTS - SPARE PARTS FOR GAS COMPRESSORS - SPARE PARTS FOR TESTING FILLING PLANTS - CHEMICALS	20 131335 100 150 1000 80	ITEM NOS. SET ITEM NOS. TON	Spares for LPG filling plants	
				"	
				"	
				"	
				"	
				"	
	EVACUATING UNITS WITH SPARE PARTS	10	UNIT	NON OIP new item Comm 1030336	

**MINISTRY OF OIL**
**SHEET NO.: 3 OF 9**
**ESTABLISHMENT NAME : GAS FILLING CO.**
**LOCATION : ALL AREAS**
**PROJECT 11-02 : REHABILITATION / REVAMPING OF EXISTING  
INSTALLATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-11-02-1200</b>	<b>GAS REGULATORS AND HOSES:-</b>			Spares for LPG cylinders	
	- LOW PRESSURE REGULATORS	<b>300000</b>	<b>NOS.</b>	"	
	- HIGH PRESSURE REGULATORS	<b>200000</b>	<b>NOS.</b>	"	
	- HOSES FOR HIGH PRESSURE REGULATORS	<b>700000</b>	<b>NOS.</b>	"	
	- SPARE PARTS FOR REGULATORS	<b>10</b>	<b>ITEM</b>	"	
	- DISK PANEL FOR HEXANE UNIT	<b>100</b>	<b>NOS.</b>	"	
	- VALVES, TUBES & EQUIPMENT	<b>26000</b>	<b>NOS.</b>	"	
		<b>515</b>	<b>SET</b>	"	
<b>08-10-11-02-1201</b>	LPG CYLINDERS COMPLETE WITH VALVES	<b>1000000</b>	<b>NOS.</b>	Complete LPG cylinders	
<b>08-10-11-02-1202</b>	WEIGHING BRIDGE CAPACITY 80,000 KG WITH SPARES	3 25	NOS ITEM		
<b>08-10-11-02-1203</b>	HEAVY DUTY MECHANICAL WEIGHING SCALE CAPACITY 200 KG WITH SPARES	50 25	NOS ITEM		

**MINISTRY OF OIL**
**SHEET NO.: 4 OF 9**
**ESTABLISHMENT NAME : GAS FILLING CO.**
**LOCATION : ALL AREAS**
**PROJECT 11-03 : SUSTAINING & ENHANCING PRODUCTION  
CAPABILITIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-11-03-1205</b>	<b>STEEL PLATE:-</b> - STEEL PLATE FOR LPG CYLINDER BODY - STEEL PLATE FOR CYLINDER GUARD RINGS - STEEL PLATE FOR CYLINDER BASE RINGS	<b>2000</b>	<b>TON</b>	Repeat of phase 9	
		<b>1000</b>	<b>TON</b>	"	
		<b>1000</b>	<b>TON</b>	"	
		<b>1000</b>	<b>TON</b>	"	
<b>08-10-11-03-1206</b>	<b>PLATES &amp; ACCESSORIES FOR LPG VESSELS:-</b> - STEEL PLATE FOR 3000 CU.M LPG SPHERICAL STORAGE TANKS	<b>6</b>	<b>SET</b>		
				"	
<b>08-10-11-03-1207</b>	<b>TOOLS &amp; APPLIANCES WITH SPARE PARTS FOR FORMING BASE &amp; GUARD FOR DEFORMED CYLINDERS:-</b>  - ECCENTRIC PRESS 100 TON CAPACITY - HYDRAULIC PRESS 100 TON CAPACITY - BENDING MACHINE FOR BASE RING - ROUND STEEL BENDING MACHINE - ROUND STEEL CUTTING MACHINE - ROUND STEEL FORMING MACHINE - TRIMMING MACHINE - HOLDERS - OXY-LPG CUTTING EQUIPMENT - SPARE PARTS FOR ABOVE	<b>20000</b>	<b>NOS.</b>		
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
<b>08-10-11-03-1208</b>	<b>MACHINE AND EQUIPMENT FOR LPG CYLINDER REPAIR &amp; TESTING:-</b> - PLASMA CUTTING INSTALLATION WITH MANIPULATOR WITH SPARES - RUPTURE TEST EQUIPMENT WITH SPARES	<b>5</b>	<b>ITEM</b>		
				"	
		<b>2</b>	<b>ITEM</b>	"	
				"	

**MINISTRY OF OIL**
**SHEET NO.: 5 OF 9**
**ESTABLISHMENT NAME : GAS FILLING CO.**
**LOCATION : ALL AREAS**
**PROJECT 11-04 : SAFETY & ENVIRONMENTAL PROTECTION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-11-04-1210</b>	<b>FIRE FIGHTING &amp; SAFETY EQUIPMENT :-</b> <b>- SELF AUTOMATIC FIRE EXTINGUISHING SYSTEM WITH SPARE PARTS</b> <b>- FIRE FIGHTING EQUIPMENT</b>	<b>1000</b>	<b>NOS.</b>	Safety requirements	
		<b>3750</b>	<b>NOS.</b>	"	
		<b>5000</b>	<b>KG.</b>	"	
		<b>5000</b>	<b>PAIRS</b>	"	
<b>08-10-11-04-1211</b>	SAFETY & QUALITY CONTROL EQUIPMENT WITH ACCESSORIES			NON OIP	
	- K METER ULTRASONIC THICKNESS MEASUREMENT (PORTABLE)	2		additional items	
	- HARDNESS TESTER (PORTABLE)	1		new item	
	- HARDNESS TESTER (SKID MOUNTED)	1		Comm 1030117	
	- IMPACT TESTING MACHINE	1			
	- UNIVERSAL TESTING MACHINE (ELECTRONIC)	2			
	- SPECTROPHOTOMETER	1			
	- HARDNESS TESTER FOR RUBBER	1			
	- INDUSTRIAL STATIONARY GAS DETECTORS	5			

**MINISTRY OF OIL**
**SHEET NO.: 6 OF 9**
**ESTABLISHMENT NAME : GAS FILLING CO.**
**LOCATION : ALL AREAS**
**PROJECT 11-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-11-05-1215	<b>SERVICE TRUCKS AND SPARES:-</b>			Requirements for LPG plant facilities	
	- WATER TANK TRUCK ( 15cu. MT CAPACITY)	5	NOS.	"	
	- NITROGEN TRUCK (5 M3 CAPACITY )	1	NO.	"	
	- PICK-UPS DOUBLE CAB	40	NOS.	"	
	- 4 TON TRUCK TO TRANSPORT LPG CYLINDERS	5	NOS.	"	
	- FORK-LIFT (5 TON) FLAME PROOF	20	NOS.	"	
	- SEMITRAILOR TANKER 36M3 SPECIAL TO TRANSPORT	6	NOS.	"	
	- LIGHT NAPHTHA			"	
	- SEMI TRAILER TANKER 8-10 TONS CAP. FOR LPG FILLING	3	NOS.	"	
	- SPARE PARTS FOR ABOVE	200	ITEM	"	
	- HYDRAULIC LIFTING EQUIPMENT FOR REPAIR AND MAINTENANCE OF VEHICLES AND TRUCKS AND WASHING MACHINE: - 5 TON SIDE CRANE WITH SPARE PARTS	2	ITEM		
08-10-11-05-1216	<b>WORKSHOP MACHINES , TOOLS AND SPARES :-</b>			Workshop requirements	
	- WORKSHOP TOOLS	51	ITEM	"	
	- WORKSHOP MACHINE (PRESS BENDING & CUTTING PLATES)	20	ITEM	"	
	- HEAT EXCHANGER & BOILERS MAINTENANCE TOOLS	20	ITEM	"	
	- WELDING MACHINE (ELECTRIC & DIESEL) WITH ACCESSORIES	20	ITEM	"	
	- SPARE PARTS FOR ABOVE	100	ITEM	"	
08-10-11-05-1217	<b>COOLING / HEATING SYSTEMS :-</b>			Climate control	
	- EQUIPMENT FOR COOLING / HEATING (AIR CONDITIONING, WATERCOOLERS, CHILLERS, ...ETC.)	50	NOS.	"	
	- SPARE PARTS FOR ABOVE	20	ITEM	"	

**MINISTRY OF OIL**
**SHEET NO.: 7 OF 9**
**ESTABLISHMENT NAME : GAS FILLING CO.**
**LOCATION : ALL AREAS**
**PROJECT 11-05 : SERVICE AND PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-11-05-1218</b>	HYDRAULIC LIFTING EQUIPMENT FOR REPAIRING & MAINTENANCE OF VEHICLE & TRUCKS & WASHING MACHINE	<b>20</b>	<b>ITEM</b>	Truck Repair	
<b>08-10-11-05-1219</b>	- SEMITRAILOR LPG CYLINDER FILLING PLANT WITH 6 FILLING UNITS	<b>4</b>	<b>NOS.</b>	Gas distribution	
	- COMMUNICATION SYSTEM CENTER & SECONDARY WITH SPARE PART	<b>10</b>	<b>SET</b>	Transport control	
	- MOBILE WORKSHOP	<b>2</b>	<b>NOS.</b>	Workshop requirements	
	- HYDRAULIC WINCH	<b>2</b>	<b>SET</b>	"	
	- SIDE CRANE (5 TON)	<b>2</b>	<b>NOS.</b>	"	
	- DESCALING DEVICES	<b>80</b>	<b>NOS.</b>	"	
		<b>6</b>	<b>SET</b>	"	
		<b>6</b>	<b>PAIRS</b>	"	

MINISTRY OF OIL

SHEET NO.: 8 OF 9

ESTABLISHMENT NAME : GAS FILLING CO.

LOCATION : ALL AREAS

PROJECT 11-06 : TESTING, INSPECTION, STUDIES, SURVEYS &  
LABORATORIES

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-11-06-1225	INSPECTION EQUIPMENT			NDT equipment	
	- DIAL GAUGE FOR DISH ENDS FOR LPG CYLINDER	5	NOS.	"	
	- LENSES	10	NOS.	"	
	- MICROMETER FOR MEASURING INSIDE DIAMETER OF TANKS (1000-3000 mm)	1	NO.	"	
	- DIRECTIONAL PORTABLE X-RAY UNIT 300 KV	1	NO.	"	
	- INSPECTION EQUIPMENT	10	NOS.	"	

**MINISTRY OF OIL**
**SHEET NO.: 9 OF 9**
**ESTABLISHMENT NAME : GAS FILLING CO.**
**LOCATION : ALL AREAS**
**PROJECT 11-07 : DEVELOPMENT PROJECTS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-11-07-1230</b>	<b>OXYGEN &amp; NITROGEN PLANT COMPLETE</b>	<b>2</b>	<b>CONTRACT</b>	N2 for purging, O2 for processes	
<b>08-10-11-07-1231</b>	<b>LPG FILLING PLANTS</b>			LPG Filling Plant	
	- TWO AUTOMATIC LPG FILLING PLANTS COMPLETE	<b>2</b>	<b>CONTRACT</b>	"	
	- REPAIR & MAINTENANCE SHOP FOR LPG CYLINDER VALVES	<b>2</b>	<b>CONTRACT</b>	"	
	- REVAMPING OF LPG CYLINDER MANUFACTURING & MAINTENANCE PLANTS	<b>2</b>	<b>CONTRACT</b>	"	
	- LPG CYLINDER REPAIR PLANT	<b>4</b>	<b>CONTRACT</b>	"	
	- LPG CYLINDER MANUFACTURING PLANT	<b>2</b>	<b>CONTRACT</b>	"	
	- LPG CYLINDER VALVE MANUFACTURING PLANT	<b>2</b>	<b>CONTRACT</b>	"	
	- PRODUCTION LINE FOR MANUFACTURE OF LPG CYLINDER BASE & RINGS	<b>1</b>	<b>CONTRACT</b>	"	
	- PLANTS FOR CARBON DIOXIDE	<b>5</b>	<b>ITEM</b>	"	
		<b>1000</b>	<b>NOS.</b>	"	

**MINISTRY OF OIL**
**SHEET NO.: 1 OF 11**
**ESTABLISHMENT NAME : OIL PIPELINES COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 12-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-12-01-1240</b>	<b>POLYETHYLENE TAPE AND PRIMER FOR ALL AREAS:</b> <b>- OUTER TAPE WHITE</b> <b>- INNER TAPE BLACK</b> <b>- PRIMER</b>	<b>150000</b>	<b>SQ.M.</b>	Maintenance requirements for all areas	
		<b>150000</b>	<b>SQ.M.</b>	"	
		<b>20000</b>	<b>LIT</b>	"	
				"	
<b>08-10-12-01-1241</b>	<b>LINE PIPE, CARBON STEEL, DIFFERENT SIZES &amp; SCHEDULES WITH SUITABLE NUMBERS OFF HEAT SHRINKABLE SLEEVES FOR ALL AREAS</b>	<b>100</b>	<b>KM.</b>	As above	
<b>08-10-12-01-1242</b>	<b>VALVES, PIPE FITTINGS, DIFFERENT SIZES AND SCHEDULES FOR PIPE LINES AND PUMPING STATIONS FOR ALL AREAS.</b>	<b>6000</b>	<b>NOS.</b>	As above	
<b>08-10-12-01-1243</b>	<b>ELECTRIC MOTORS, LOW VOLTAGE, FOR LOADING &amp; UNLOADING OIL PRODUCTS IN DEPOTS &amp; PUMPING STATION, OF DIFFERENT RATINGS, ALL AREAS</b>	<b>100</b>	<b>NOS.</b>	As above	
<b>08-10-12-01-1244</b>	<b>SPARE PARTS FOR HIGH VOLTAGE ELECTRIC MOTORS FOR L.P.G. PUMPS, DIFFERENT SIZES, ALL AREAS.</b>	<b>500</b>	<b>NOS.</b>	As above	
<b>08-10-12-01-1245</b>	<b>CONTROL CABLES, STRANDED COPPER CONDUCTORS WITH SHIELD, DIFFERENT SIZES AND LENGTH.</b>	<b>50</b>	<b>KM.</b>	As above	
<b>08-10-12-01-1246</b>	<b>SPARE PARTS FOR EXISTING PUMPING STATIONS AND DEPOTS INCLUDING L P G PRESSURE REDUCTION STATIONS AND SPARE PARTS FOR LOADING ARM EQUIPMENT ( COUNTER, TICKET PRINTER, CONTROL VALVES, ...ETC )</b>	<b>6000</b>	<b>NOS.</b>	As above	

**MINISTRY OF OIL****SHEET NO.: 2 OF 11****ESTABLISHMENT NAME : OIL PIPELINES COMPANY****LOCATION : ALL AREAS****PROJECT 12-01 : MAINTENANCE & OPERATION**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-12-01-1247</b>	SPARES FOR AIR CONDITIONING EQUIPMENT, DIFFERENT SIZES AND TYPES.	<b>2500</b>	<b>NOS.</b>	Control room and ops a/c spares	
<b>08-10-12-01-1248</b>	PABX TELEPHONE EXCHANGE, COMPLETE WITH ALL RECOMMENDED EQUIPMENT AND ACCESSORIES REQUIRED FOR OPERATION WITH 2 YEARS OPERATION SPARE PARTS	<b>10</b>	<b>NOS.</b>	Replacement telecom system for Euphrates/Baghdad area	
<b>08-10-12-01-1249</b>	- PORTABLE TELEPHONE.	<b>20</b>	<b>NOS.</b>	Portable coms for	
	- RADIO LINK COMPLETE WITH ACCESSORIES AND SPARES .			site engineers	

**MINISTRY OF OIL**
**SHEET NO.: 3 OF 11**
**ESTABLISHMENT NAME : OIL PIPELINES COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 12-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-12-01-1250	TELEPHONE CABLE, UNDERGROUND, COLOURED CONDUCTORS, PVC INSULATED, STEEL WIRE ARMoured, DIFFERENT SIZES RANGING FROM (30X2X0.8 TO 70X2X0.8).	10	KM.	Control system spares	
	WALL MOUNTED OUTDOOR & INDOOR TERMINAL BOXES & TOOLS FOR CLAMPING	385	NOS		
08-10-12-01-1251	PETROLEUM TESTING EQUIPMENT, DIFFERENT TYPES, INCLUDING OCTANE TESTING APPARATUS.	20	NOS.	Portable RON testing for Q/C	
08-10-12-01-1252	FIRE FIGHTING EQUIPMENT & MATERIALS INCLUDING: INDUCTOR FOAM, SPRAY NOZZLES, EXTINGUISHERS, FILLING EQUIPMENT, HYDRANTS, PROTECTIVE CLOTHING, DIESEL & ELECTRIC PUMPS, VEHICLES WITH SPARES	1180	NOS.	Fire fighting	
	SPARE PARTS FOR FIRE FIGHTING VEHICLES & EQUIPMENT	2000	NOS.	Fire fighting	
08-10-12-01-1253	EARTH MOVING MACHINERY & VEHICLES WITH SPARES			Pipeline maintenace	
	- MECHANICAL SHOVEL	2 NOS			
	- EXCAVATOR	2 NOS			
	- CRANE 30 TONS	2 NOS			
	- CRANE 50 TONS	1 NOS			
	- LORRY & LORRY CRANE, DIFFERENT TYPES & CAPACITIES UPTO (10 TONS)	3 NOS			
	- FORK LIFT 5 TON CAPACITY	2 NOS			
	- CREW-CAB PICK-UP VEHICLES	15 NOS			
	- FLAT CARRIER VEHICLES (LOW LOADER) UPTO (35 TONS)	4 NOS			
	- SPARES FOR ABOVE	5000 NOS			

**MINISTRY OF OIL**
**SHEET NO.: 4 OF 11**
**ESTABLISHMENT NAME : OIL PIPELINES COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 12-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-12-01-1254	MEDIUM VOLTAGE SWITCH GEAR SET FOR DIWANIYA L.P.G. PUMPING STATION - FLAME PROOF STARTERS , LIGHTING FITTINGS COMPLETE WITH ALL ACCESSORIES.	1200	NOS.	Maintenance requirements	
				"	
				"	
08-10-12-01-1255	HIGH PRESSURE HYDROSTATIC TEST PUMP, DIESEL ENGINE DRIVEN COMPLETE WITH ALL ACCESSORIES	2	SET	NDT requirement	
08-10-12-01-1256	CABLE CONNECTORS WITH JOINTING KITS & ACCESSORIES, DIFFERENT SIZES & TYPES FOR POWER & CONTROL CABLES.	3000	NOS.	Maintenance requirements	

**MINISTRY OF OIL**
**SHEET NO.: 5 OF 11**
**ESTABLISHMENT NAME : OIL PIPELINES COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 12-02 : REHABILITATION / REVAMPING OF  
EXISTING INSTALLATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-12-02-1260	EQUIPMENT & MATERIALS FOR REHABILITATION OF ELECTRICAL DISTRIBUTION SYSTEM CONSISTING OF:			Electrical System Consumables	
	- COPPER RODS	1350	TON	"	
	- GALVANIZED STEEL TAPE	500	TON	"	
	- PVC COMPOUND	900	TON	"	
	- ALUMINUM ROD	300	TON	"	
	- GALVANIZED STEEL CORES	400	TON	"	
	- ALUMINUM INGOT	1000	TON	"	
	- POLYESTERIMIDE WIRE ENAMEL	4	TON	"	
	- CABLE COVERING MACHINE FOR (SWA) WITH SPARE PARTS	1	SET	"	
	- ALUMINIUM RODS	400	TON	"	

**MINISTRY OF OIL**
**SHEET NO.: 6 OF 11**
**ESTABLISHMENT NAME : OIL PIPELINES COMPANY**
**LOCATION : ALL AREAS**
**PAGE: 159 PROJECT 12-07 : DEVELOPMENT PROJECTS**
**10RFN**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-12-07-1265	<b>EQUIPMENT &amp; MATERIALS FOR THE CONTINUATION &amp; COMPLETION OF PIPELINE NETWORKS TO TRANSPORT FUEL TO THE POWER GENERATING STATIONS AT: BALJI / YOUSIFIA / NORTH/DIBIS / ANBAR/SLAH ALDIN TO INCLUDE:-</b> <b>- LINE PIPES OF DIFFERENT SIZES &amp; SCHEDULES, BARE &amp; FACTORY COATED WITH HEAT SHRINKABLE SLEEVES &amp; APPLICATION KITS, THERMAL INSULATION MATERIALS, WRAPPING TAPE WITH PRIMER, PLASTIC SPACERS, END SEALS WITH METAL CLAMPS.</b> <b>- LINE BREAK VALVES, VALVES, FITTINGS, STEAM TRAPS, VENTING, GASKETS, BOLTS &amp; NUTS, FLANGES ETC..</b> <b>- FABRICATED STORAGE TANKS OF DIFFERENT TYPES, SIZES &amp; SERVICES WITH ALL NECESSARY ACCESSORIES, FIRE FIGHTING &amp; DETECTION SYSTEMS, INSTRUMENTS, ELECTRICAL, EARTHING, THERMAL INSULATION MATERIALS, MIXERS, HEATING SYSTEM, CONSTRUCTION CONSUMABLES, WELDING ELECTRODES &amp; PAINTS.</b> <b>- WELDING ELECTRODES DIFFERENT TYPES &amp; SIZES.</b> <b>TO BE CONTINUED</b>	56364	NOS	Contract with SCOP for crudeoil/NGL/fuel oil distribution from network to power stations	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	

**MINISTRY OF OIL****SHEET NO.: 7 OF 11****ESTABLISHMENT NAME : OIL PIPELINES COMPANY****LOCATION : ALL AREAS****PROJECT 12-07 : DEVELOPMENT PROJECTS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-12-07-1265	<b>- FIRE FIGHTING SYSTEMS FOR THE PUMP STATIONS INCLUDING WATER &amp; FOAM SYSTEMS, PUMPS OF VARIOUS TYPES, PIPING NETWORKS, HYDRANTS, MONITORS, HOSE REEL CABINETS, FIRE DETECTORS, FIRE EXTINGUISHERS, ETC.. - ELECTRIC DRIVEN PUMPS SOME WITH HEAT TRACING &amp; THERMAL INSULATION WITH ALL NECESSARY ACCESSORIES - FABRICATED PIG LAUNCHING &amp; RECEIVING TRAPS C/W PIGS, PIG LOADING &amp; UNLOADING FACILITIES, PIG INDICATORS, WITH ALL ACCESSORIES INCLUDING PIPE, VALVES, FITTINGS, VENTING, GASKETS, INSULATING JOINTS &amp; KITS, BOLTS &amp; NUTS, FLANGES, ETC.. - FABRICATED DRAINAGE VESSELS WITH ALL ACCESSORIES LIKE SUMP PUMPS, STEEL STRUCTURE, ETC.. - SKID MOUNTED METERING SYSTEMS, CONTROLS, CONTROL PANELS, CABLES, INSTRUMENTATION, GAUGES, INDICATORS, TRANSMITTERS, INDUSTRIAL COMPUTERS, VALVES, CONTROL VALVES, ETC.. - ELECTRICAL (SWITCH GEAR, DISTRIBUTION BOARDS, CABLES, PORCELAIN INSULATORS, TRANSFORMERS, LIGHTING FITTINGS &amp; OTHER ACCESSORIES LIKE JOINTING KITS, LUGS, TERMINALS) ETC..</b>			As previous page	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	

**MINISTRY OF OIL**
**SHEET NO.: 8 OF 11**
**ESTABLISHMENT NAME : OIL PIPELINES COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 12-07 : DEVELOPMENT PROJECTS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-12-07-1266	<b>LINE PIPE, CARBON STEEL, DIFFERENT SIZES, 250 KM, FACTORY - COATED WITH EXTRUDED POLYETHYLENE FOR LIGHT OIL PRODUCTS PIPELINES FROM DIWANIYA TO KARKH.</b> <b>- COMPLETE PIG LAUNCHING &amp; RECEIVING FACILITIES INCLUDING PIPES, VALVES, FITTINGS, VENTING, CONTROLS, INSTRUMENTATION, ELECTRICAL, PIGS AND PIG LOADING AND UNLOADING FACILITIES WITH ALL NECESSARY ACCESSORIES.</b> <b>- METERING AND PRESSURE REDUCTION STATIONS SKID MOUNTED.</b> <b>- ISOLATING LINE BREAK VALVES.</b> <b>- CATHODIC PROTECTION SYSTEM.</b> <b>- PUMPING AND RECEIVING STATIONS WITH ALL RECOMMENDED ACCESSORIES, VALVES FITTINGS, INSTRUMENTATION, ELECTRICAL BOARDS.....ETC.</b> <b>- VALVES, FLANGES, FITTINGS, CAPS, GASKETS. BOLTS, ETC.</b> <b>- WELDING ELECTRODES.</b> <b>- TELECOM CONTROL AND MONITORING EQUIPMENT WITH TELECOMMUNICATIONS.</b> <b>- HEAT SHRINKABLE SLEEVES.</b> <b>TO BE CONTINUED</b>	50	CONTRACT	3rd leg of proposed product distribution system	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	
				"	

**MINISTRY OF OIL**
**SHEET NO.: 9 OF 11**
**ESTABLISHMENT NAME : OIL PIPELINES COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 12-07 : DEVELOPMENT PROJECTS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-12-07-1266</b>	<b>- ELECTRIC EQUIPMENT INCLUDING CABLES , LIGHTING FITTINGS ...ETC. - CONSUMABLE MATERIALS FOR CONSTRUCTION - TECHNICAL ASSISTANCE AND ENGINEERING CONSULTANCY.</b>			Continuation from previous page	
				"	
				"	
				"	
<b>08-10-12-07-1267</b>	<b>EQUIPMENT AND MATERIAL TO CONNECT NEW LIGHT OIL STORAGE TANKS WITH THE EXISTING TANKS IN DEPOTS AND PUMPING STATIONS INCLUDING LINE PIPES, VALVES, FITTINGS, WELDING ELECTRODES, CATHODIC PROTECTION MATERIALS, INSTRUMENTS, ELECTRICAL CABLES, SUB - STATIONS, FITTINGS &amp; ANY OTHER ACCESSORIES REQUIRED FOR THE NETWORK TO BE OPERATED.</b>	<b>50</b>	<b>CONTRACT</b>	Interconnection and building of new tanks in depots	
<b>08-10-12-07-1268</b>	<b>LINE PIPE, CARBON STEEL, 12" DIAMETER, 40 - KM LONG, TO TRANSPORT CRUDE OIL FROM STRATEGIC PIPE LINE TO THE NASSIRYIA POWER STATION, FACTORY COATED WITH EXTRUDED POLYETHYLENE PLUS HEAT SHRINKABLE SLEEVES FOR GIRTH WELDS TO INCLUDING: PRESSURE - REDUCTION STATION, LINE BREAK VALVES, PIG TRAPS, VALVES, ELECTRICAL, INSTRUMENTATION, WELDING ELECTRODES, PIPE FITTINGS CATHODIC PROTECTION, AND OTHER ACCESSORIES INCLUDING TECHNICAL ASSISTANCE AND ENGINEERING CONSULTANCY.</b>	<b>15</b>	<b>CONTRACT</b>	Line to connect power station to strategic line for crude supply	

**MINISTRY OF OIL**
**SHEET NO.: 10 OF 11**
**ESTABLISHMENT NAME : OIL PIPELINES COMPANY**
**LOCATION : ALL AREAS**
**PROJECT 12-07 : DEVELOPMENT PROJECTS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-12-07-1269	LINE PIPE, CARBON - STEEL, 18" DIAMETER, 40 KM LONG, TO TRANSPORT DRY GAS FROM STRATEGIC PIPELINE TO THE NATIONAL DRY GAS GRID, FACTORY - COATED WITH EXTRUDED POLYETHYLENE PLUS HEAT SHRINKABLE SLEEVES FOR GIRTH WELDS, INCLUDING THE FOLLOWING: LINE BREAK VALVES, PIG TRAPS, VALVES, ELECTRICAL, INSTRUMENTATION, WELDING ELECTRODES, CATHODIC PROTECTION, AND OTHER ACCESSORIES INCLUDING TECHNICAL ASSISTANCE AND ENGINEERING CONSULTANCY ( CONTINUATION AND COMPLETION ).	10	CONTRACT	Connection of strategic pipeline to national dry gas grid	
08-10-12-07-1270	REHABILITATION OF DRY GAS COMPRESSOR RUMAILA - NORTH SOUTHERN AREA, INCLUDING THE FOLLOWING: - MAINTENANCE OF MAIN COMPRESSORS. - INSTALLATION OF NEW COMPRESSORS. - PIPE FITTINGS, VALVES, ETC. - CONTROL AND MONITORING EQUIPMENT. - ELECTRICAL EQUIPMENT: FITTINGS, CABLES, BOARDS, TELECOMMUNICATIONS ETC. - TECHNICAL ASSISTANCE / ENGINEERING CONSULTANCY, ETC.	20	CONTRACT	Repair of N/S Rumailah gas compressors	
				"	
				"	
				"	
				"	
				"	
				"	
				"	

**MINISTRY OF OIL****SHEET NO.: 11 OF 11****ESTABLISHMENT NAME : OIL PIPELINES COMPANY****LOCATION : ALL AREAS****PROJECT 12-07 : DEVELOPMENT PROJECTS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-12-07-1271	- CONTRACTS FOR THIRD PARTY INSPECTION OF CONTRACTED - UPON GOODS, TO ENSURE COMPLIANCE TO SPECIFICATIONS AT THE SUPPLIERS ' WORKS ABROAD. - SURVEY, KNOW - HOW, TECHNICAL ASSISTANCE, ENGINEERING CONSULTANCY AND SUPPLY OF NECESSARY MATERIALS & EQUIPMENT TO REHABILITATE & UPGRADE TO ENSURE PROPER OPERATION & SAFEGUARD PIPE LINES & VESSELS.	10	CONTRACT	PSI contracts	

**MINISTRY OF OIL****SHEET NO.: 1 OF 7****ESTABLISHMENT NAME : OIL PRODUCTS DISTRIBUTION CO.****LOCATION : ALL AREAS****PROJECT 13-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-13-01-1280	FLAT TRAILER FOR DOMESTIC LPG CYLINDER , STANDARD DOUBLE AXLES WITH SPARE PARTS FOR TRANSPORTATION FROM FILLING PLANTS TO CONSUMERS	30	SET	LPG cylinder transport	
08-10-13-01-1281	SEMI-TRAILERS FOR OIL PRODUCT TANKS, CAP 36M3 WITH SPARE PART	200	SET	Product transportation	
08-10-13-01-1282	FORKLIFT 3 TON CAP. WITH HOOK FOR LIFTING 1 TON WITH SPARE PART	5	SET	Maintenance	
08-10-13-01-1283	FORKLIFT 3 TON & 5 TON WITH SPARE PARTS	50	SET	"	
08-10-13-01-1284	CARGO CRANE 10 TON DOUBLE CABIN 7.5 TON LIFTING WITH SPARE PART	15	SET	"	
08-10-13-01-1285	CARGO TRUCK 4X2 CAP. 12 TON WITH SPARE PART	25	SET	"	
08-10-13-01-1286	COMPLETE TRUCKS FOR OIL PRODUCTS CAP. 40-50 M <sup>3</sup> WITH ACCESSORIES & SPARE PARTS	6	SET	Refined oil distribution	
08-10-13-01-1287	STEAM BOILER, CAP ( 5-7) TONS / HR. FOR OIL PRODUCTS TANKS CLEANING WITH SPARE PART	2	SET	Tank cleaning	
08-10-13-01-1288	POSITIVE DISPLACEMENT METERS VARIOUS SIZES WITH SPARE PART	199	NOS	Measurement & control	
08-10-13-01-1289	PUMPS FOR SERVICE STATIONS & DEPOTS WITH SPARES REFUELING PUMPS (CENTRIFUGAL TYPE ELECTRIC)	150	SET	Fuel dispensers	

**MINISTRY OF OIL**
**SHEET NO.: 2 OF 7**
**ESTABLISHMENT NAME : OIL PRODUCTS DISTRIBUTION CO.**
**LOCATION : ALL AREAS**
**PROJECT 13-01 : MAINTENANCE & OPERATION**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
<b>08-10-13-01-1290</b>	- UNIT FUEL PUMPS HIGH FLOW 180 LI/MIN	<b>100</b>	<b>SET</b>	Pumps for	
	- UNIT FUEL PUMPS HIGH FLOW 90 LI/MIN	<b>100</b>	<b>SET</b>	fuelling stations	
<b>08-10-13-01-1291</b>	NOZZLES & SWIVELS	<b>9</b>	<b>ITEM</b>	Spares for fuelling stations	
	TRIGGER NOZZLES	<b>1750</b>	<b>NOS</b>		
<b>08-10-13-01-1292</b>	- PIPES SIZE ( 2" , 3" , 4" )	<b>30000</b>	<b>MTR.</b>	Maintenance requirements	
	- FITTINGS SIZE ( 2" , 3" , 4" )	<b>10000</b>	<b>NOS.</b>	"	
<b>08-10-13-01-1293</b>	SPARE PART FOR REFUELING PUMPS	<b>400</b>	<b>ITEM</b>	"	
<b>08-10-13-01-1294</b>	SPARE PART FOR FUEL DISPENSERS	<b>500</b>	<b>ITEM</b>	"	
<b>08-10-13-01-1295</b>	SPARE PART FOR LOADING ARMS	<b>100</b>	<b>ITEM</b>	"	
<b>08-10-13-01-1296</b>	SPARE PART FOR GENERATORS	<b>100</b>	<b>ITEM</b>	"	
<b>08-10-13-01-1297</b>	SPARE PART FOR WELDING MACHINES	<b>100</b>	<b>ITEM</b>	"	
<b>08-10-13-01-1298</b>	SPARE PART FOR FIRE FIGHTING PUMPS	<b>100</b>	<b>ITEM</b>	"	
<b>08-10-13-01-1299</b>	SPARE PARTS FOR POSITIVE DISPLACEMENT METERS	<b>100</b>	<b>ITEM</b>	"	
<b>08-10-13-01-1300</b>	COMMUNICATIONS EQUIPMENT AND, EXCHANGERS	<b>15</b>	<b>ITEM</b>	Maintenance requirements	
<b>08-10-13-01-1301</b>	SPARE PARTS FOR TELEPHONE EXCHANGES	<b>50</b>	<b>ITEM</b>	"	
<b>08-10-13-01-1302</b>	COMMUNICATION CABLES FOR COMMUNICATION TELEPHONE SETS	<b>10000</b>	<b>MTR.</b>	"	

MINISTRY OF OIL

SHEET NO.: 3 OF 7

ESTABLISHMENT NAME : OIL PRODUCTS DISTRIBUTION CO.

LOCATION : ALL AREAS

PROJECT 13-01 : MAINTENANCE & OPERATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-13-01-1303	ELECTRICAL CABLES , VARIOUS SIZE	100000	MTR.	Maintenance requirements	
08-10-13-01-1304	ELECTRICAL CONTROL EQUIPMENT VARIOUS TYPES	1000	ITEM	"	
08-10-13-01-1305	LIGHTING FITTING AND ACCESSORIES	10000	NOS.	"	
08-10-13-01-1306	COMPLETE REFUELING SYSTEM WITH ALL ITS ACCESSORIES	100	SET	"	
08-10-13-01-1307	VOLTAGE REGULATOR ( STABILIZER )	100	SET	"	
08-10-13-01-1308	TOOLS KITS FOR MAINTENANCE TEAMS ELECTRICAL & MECHANICAL	500	SET	"	
08-10-13-01-1309	TANK LEVEL GAUGE (MECHANICAL) FOR OIL PRODUCTS STORAGE TANKS HEIGHT RANGE (5M-15M)	100	NOS.	"	

MINISTRY OF OIL

SHEET NO.: 4 OF 7

ESTABLISHMENT NAME : OIL PRODUCTS DISTRIBUTION CO.

LOCATION : ALL AREAS

PROJECT 13-02 : REHABILITATION /REVAMPING OF EXISTING  
INSTALLATION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-13-02-1315	LOADING ARMS DIFFERENT SIZES (3", 4" & 6" ) FOR OPEN SYSTEM WITH SPARE PARTS .	150	SET	Loading arms for depots	

**LOCATION : ALL AREAS**  
**PROJECT 13-03 : SUSTAINING & ENHANCING PRODUCTION**  
**CAPABILITIES**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-13-03-1320	EQUIPMENT & MATERIAL TO CONNECT NEW OIL PRODUCTS TANKS WITH THE EXISTING TANKS IN DEPOTS INCLUDING LINE PIPES, VALVES, FITTINGS, WELDING ELECTRODES, CATHODIC PROTECTION MATERIAL, INSTRUMENTS, ELECTRICAL CABLES & SUBSTATIONS & ANY OTHER ACCESSORIES REQUIRED	20	CONTRACT	Pipeline connections for depots	
08-10-13-03-1321	STEEL PLATES & ACCESSORIES FOR (5000-20000) m <sup>3</sup> FIXED & FLOATING ROOF PRODUCTS TANKS	20	SET	Fuel storage (20 tanks)	
08-10-13-03-1322	FIXED & FLOATING ROOF TANKS CAP. 5000-10000M <sup>3</sup> & WITH ACCESSORIES	11	NOS.	Fuel storage (11 tanks)	

MINISTRY OF OIL

SHEET NO.: 5 OF 7

ESTABLISHMENT NAME : OIL PRODUCTS DISTRIBUTION CO.

LOCATION : ALL AREAS

PROJECT 13-04 : SAFETY & ENVIRONMENTAL PROTECTION

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-13-04-1325	SAFETY EQUIPMENT ( SAFETY BOOTS, SUITS, GLOVES, FIRE BLANKET, SAFETY HELMETS, FILTER MASK, ...)	100	ITEM	Safety equipment	
08-10-13-04-1326	FIRE FIGHTING EQUIPMENT , FIRE HOSES, NOZZLES , FIRE EXTINGUISHERS, AIR COMPRESSORS .	100	ITEM	Safety equipment	
08-10-13-04-1327	FIRE FIGHTING PUMPS	20	SET	Fire fighting	
08-10-13-04-1328	FIRE FIGHTING TRUCKS WITH SPARE PART	5	SET	Fire fighting	

**MINISTRY OF OIL**
**SHEET NO.: 6 OF 7**
**ESTABLISHMENT NAME : OIL PRODUCTS DISTRIBUTION CO.**
**LOCATION : ALL AREAS**
**PROJECT 13-05 : SERVICE & PLANT EQUIPMENT**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-13-05-1335	SPARE PARTS FOR VARIOUS TYPES OF TRUCK TRACTORS, FORKLIFT & SEMI TRAILER	113000	NOS.	NON OIP Comm 1030294 Comm 1030533	
08-10-13-05-1336	SERVICING EQUIPMENT FOR TRUCK MAINTENANCE	20	SET	"	
08-10-13-05-1337	TYRES SIZE 1200X24X18 ( RADIAL ) WITH TUBE & FLAP	1000	NOS.	"	
08-10-13-05-1338	TYRES SIZE 1200X20X18 (RADIAL) WITH TUBE & FLAP	14000	NOS.	"	
08-10-13-05-1339	TYRES SIZE 315X80X22.5 (RADIAL) WITH TUBE & FLAP	1500	NOS.	"	
08-10-13-05-1340	TYRES & TUBES OF VARIOUS SIZES FOR LIGHT TRUCKS	3000	NOS.	"	
08-10-13-05-1341	AIR CONDITIONING UNITS	230	NOS.	"	
08-10-13-05-1342	WHEEL LOADER (SHOVELS) WITH SPARE PARTS	3	SET	"	
08-10-13-05-1343	MINI BUSES WITH SPARE PARTS	35	SET	"	
08-10-13-05-1344	MOBILE WATER TANKERS (10M3) WITH SPARE PARTS.	10	SET	"	
08-10-13-05-1345	STREET LIGHTING CHANGING & LIFTING TRUCK DOUBLE CABIN WITH CRANE (CAP.500 KG) WITH SPARE PART	2	SET	"	
08-10-13-05-1346	SPARE PART FOR LIGHT TRUCKS	100	ITEM	"	
08-10-13-05-1347	WATER GUARD AND FILTRATION UNITS	100	UNIT	"	
08-10-13-05-1348	DIESEL DRIVEN CEMENT MIXER ON WHEELS 0.5M <sup>3</sup> CEMENT CAP.	10	NOS.	"	
08-10-13-05-1349	PICK UP DOUBLE CABIN WITH SPARE PARTS	100	SET	"	

**MINISTRY OF OIL**

**SHEET NO.: 7 OF 7**

**ESTABLISHMENT NAME : OIL PRODUCTS DISTRIBUTION CO.**

**LOCATION : ALL AREAS**

**PROJECT 13-06 : TESTING, INSPECTION, STUDIES & SURVEYS &  
LABORATORIES**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-13-06-1355</b>	<b>CALIBRATING MASTER METER (1300-1500) L/MIN, MOBILE</b>	<b>10</b>	<b>SET</b>	Meter proving	
<b>08-10-13-06-1356</b>	<b>OIL PRODUCTS TESTING APPARATUS WITH ACCESSORIES AND SPARE PARTS.</b>	<b>50</b>	<b>ITEM</b>	Quality control requirements	
<b>08-10-13-06-1357</b>	<b>INSPECTION AND TESTING EQUIPMENT FOR GENERAL MAINTENANCE OF SERVICE STATION &amp; DEPOTS, PIPING SYSTEM &amp; TANKS ( MECHANICAL / ELECTRICAL )</b>	<b>20</b>	<b>ITEM</b>	NDT equipment	
<b>08-10-13-06-1358</b>	<b>CONTRACTS FOR THIRD PARTY INSPECTION OF CONTRACTED GOODS TO ENSURE COMPLIANCE TO SPECIFICATIONS AT THE SUPPLIER'S WORKS ABROAD</b>	<b>2</b>	<b>CONTRACT</b>	PSI contracts	

**MINISTRY OF OIL****SHEET NO.: 1 OF 5****ESTABLISHMENT NAME : OIL TRAINING INSTITUTES****LOCATION : BAGHDAD / BASRAH / BAIJI****PROJECT 14-01 : MAINTENANCE & OPERATIONS**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-14-01-1365</b>	<b>OIL WELL FISHING TOOLS</b>	<b>1</b>	<b>SET</b>	"On-site" training equipment	
<b>08-10-14-01-1366</b>	<b>OIL WELL CORE EXTRACTION EQUIPMENT</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1367</b>	<b>5 INCH (DRILL STEM TEST DST ) STRING</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1368</b>	<b>OIL WELL CEMENT LAB. EQUIPMENT WITH SPARE PARTS ,INSTALLATION, COMMISSIONING AND TRAINING</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1369</b>	<b>OIL WELL HOLE DEVIATION MEASURING TOOL</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1370</b>	<b>OIL WELL DRILLING RIG SIMULATOR FOR TRAINING WITH SPARE PARTS, INSTALLATION, COMMISSIONING AND TRAINING</b>	<b>2</b>	<b>SET</b>	"	
<b>08-10-14-01-1371</b>	<b>EQUIPMENT FOR DRILLING RIG MECHANICS WORK- SHOP FOR TRAINING WITH SPARE PARTS</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1372</b>	<b>DRILLING RIG TOP DRIVE EQUIPMENT FOR TRAINING</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1373</b>	<b>COMPLETE DEGASSING STATION WITH OIL &amp; GAS TREATMENT UNITS SIMULATOR WITH SPARE PARTS, INSTALLATION, COMMISSIONING AND TRAINING</b>	<b>2</b>	<b>SET</b>	"	
<b>08-10-14-01-1374</b>	<b>WIRE LINE UNIT WITH SLICK LINE (FOR WIRE LINE OPERATION ) WITH SPARE PARTS</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1375</b>	<b>TOOLS AND EQUIPMENT FOR FIELD MEASUREMENT WORK-SHOP FOR TRAINING WITH SPARE PARTS</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1376</b>	<b>OIL WELL WIRE LINE PRODUCTION TOOLS WITH RUNNING AND PULLING TOOLS</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1377</b>	<b>BLOW OUT PREVENTER ACCUMULATOR UNIT WTH SPARE PARTS</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1378</b>	<b>CONTINUOS NATURAL GAS DEHYDRATION PROCESS PILOT PLANT WITH SPARE PARTS.</b>	<b>4</b>	<b>SET</b>	"	

**MINISTRY OF OIL**
**SHEET NO.: 2 OF 5**
**ESTABLISHMENT NAME : OIL TRAINING INSTITUTES**
**LOCATION : BAGHDAD / BASRAH / BAIJI**
**PROJECT 14-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-14-01-1379	LANGUAGE LAB.	1	SET	Language training	
08-10-14-01-1380	CHEMICAL LABORATORY EQUIPMENT COMPRISING:-			Training equipment for Q/C purposes	
	- GAS ANALYZER.	1	SET	"	
	- LIQUID ANALYSIS COMPLETE SYSTEM	1	SET	"	
	- ELECTROMAGNETIC HEATING STIRRER	1	SET	"	
	- PENETRATION	1	SET	"	
	- PENSKEY MARTINES (PM) FLASH POINT CONSIST OF ALL ACCESSORIES	1	SET	"	
	- BINOCULAR STEREO MICROSCOPE	1	SET	"	
	- ABEL FLASH POINT	1	SET	"	
	CONSIST OF : BRASS METAL CUPS			"	
	- POUR POINT TEST FREEZER	1	SET	"	
	CONSIST OF : ALL ACCESSORIES			"	
	- RIED VAPOR PRESSURE FOR HYDROCARBON LIQUID WITH THE WATER BATH CONSIST OF ALL ACCESSORIES	1	SET	"	
08-10-14-01-1381	SIMI AUTOMATIC FILLING MACHINE FOR L.P.G CYLINDER FOR TRAINING STUDENTS WITH SPARE PARTS	4	SET	"	
08-10-14-01-1382	CONTINUOS NATURAL GAS SWEATING PROCESS FROM H2S & CO2 PILOT PLANT WITH SPARE PARTS.	4	SET	"	

**MINISTRY OF OIL****SHEET NO.: 3 OF 5****ESTABLISHMENT NAME : OIL TRAINING INSTITUTES****LOCATION : BAGHDAD / BASRAH / BAIJI****PROJECT 14-01 : MAINTENANCE & OPERATIONS**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-14-01-1383</b>	UNDER GROUND OIL STORAGE SIMULATOR WITH SPARE PARTS	4	SET	Training simulation equipment	
<b>08-10-14-01-1384</b>	CENTRIFUGAL PUMP TEST BENCH WITH SPARE PARTS,	2	SET	"	
<b>08-10-14-01-1385</b>	SERIES/PARALLEL PUMP TEST BENCH WITH SPARE PARTS	2	SET	"	
<b>08-10-14-01-1386</b>	PRESS FILTER WITH SPARE PARTS	3	SET	"	
<b>08-10-14-01-1387</b>	WATER TREATMENT UNIT WITH CATION-ANI EXCHANGE BED WITH SPARE PARTS	4	SET	"	
<b>08-10-14-01-1388</b>	WATER COOLING TOWER (MULTI-PACKED COLUMN SYSTEM) WITH SPARE PARTS	4	SET	"	
<b>08-10-14-01-1389</b>	AUTOMATED GAS COMPRESSION PILOT PLANT FOR TRAINING STUDENT (TWO STAGES ) WITH SPARE PARTS, INSTALLATION, COMMISSIONING	4	SET	"	
<b>08-10-14-01-1390</b>	INTEGRATED CONTROL UNIT FOR TRAINING (PRESSURE, LEVEL, TEMPERATURE & FLOW) ELECTRONIC TYPE. WITH SPARE PARTS, INSTALLATION, COMMISSIONING AND TRAINING	3	SET	"	
<b>08-10-14-01-1391</b>	PUMPS & COMPRESSORS FOR TRAINING, COMPLETE WITH SPARE PARTS, ACCESSORIES & TRAINING.	1	SET	"	
<b>08-10-14-01-1392</b>	ENGINEERING TESTING AND INSPECTION APPARATUSES, INCLUDING ULTRA SONIC, CORROSION DETECTORS, AND TEST MACHINES, FOR TRAINING, COMPLETE WITH SPARE PARTS, ACCESSORIES AND TRAINING.	3	SET	"	

**MINISTRY OF OIL****SHEET NO.: 4 OF 5****ESTABLISHMENT NAME : OIL TRAINING INSTITUTES****LOCATION : BAGHDAD / BASRAH / BAIJI****PROJECT 14-01 : MAINTENANCE & OPERATIONS**

<b>CODE</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COMMENT</b>	<b>1051 DETERMINATION</b>
<b>08-10-14-01-1393</b>	<b>WELDING, AND CUTTING MACHINES FOR TRAINING, COMPLETE WITH SPARE PARTS AND ACCESSORIES</b>	<b>14</b>	<b>SET</b>	Training simulation equipment	
<b>08-10-14-01-1394</b>	<b>LABORATORIES EQUIPMENT INCLUDING FLUID MECHANICS AND HEAT EXCHANGERS FOR TRAINING, COMPLETE WITH SPARE PARTS AND ACCESSORIES</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1395</b>	<b>AUTOMOBILE WORKSHOP TRAINING EQUIPMENT, COMPLETE WITH SPARE PARTS AND ACCESSORIES</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1396</b>	<b>OIL INDUSTRY SAFETY REQUIREMENTS FOR TRAINING , COMPLETE WITH SPARE PARTS AND ACCESSORIES.</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1397</b>	<b>LATHE AND MILLING MACHINES COMPLETE WITH SPARE PARTS, AND ACCESSORIES.</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1398</b>	<b>GAS TURBINE SECTIONED FOR TRAINING, COMPLETE WITH ACCESSORIES</b>	<b>2</b>	<b>SET</b>	"	
<b>08-10-14-01-1399</b>	<b>ELECTRICAL SIMULATORS FOR TRAINING WITH SPARE PARTS, INSTALLATIONS , COMMISSIONING AND TRAINING</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1400</b>	<b>ELECTRICAL MACHINE WINDING FOR TRAINING WITH SPARE PARTS, INSTALLATIONS , COMMISSIONING AND TRAINING</b>	<b>1</b>	<b>SET</b>	"	
<b>08-10-14-01-1401</b>	<b>TUTOR AND ELECTRICAL LABORATORY EQUIPMENT FOR TRAINING WITH SPAR PARTS.</b>	<b>1</b>	<b>SET</b>	"	

**MINISTRY OF OIL****SHEET NO.: 5 OF 5****ESTABLISHMENT NAME : OIL TRAINING INSTITUTES****LOCATION : BAGHDAD / BASRAH / BAIJI****PROJECT 14-01 : MAINTENANCE & OPERATIONS**

CODE	ITEM DESCRIPTION	QTY	UNIT	COMMENT	1051 DETERMINATION
08-10-14-01-1402	SPEED CONTROL FOR AC & DC MOTORS AND SYSTEM FOR DC & AC DRIVE WITH SPARE PARTS	1	SET	Training simulation equipment	
08-10-14-01-1403	ELECTRICAL INSTALLATIONS SYSTEM FOR TRAINING WITH SPARE PARTS.	1	SET	"	
08-10-14-01-1404	ASSEMBLY SYSTEM FOR ROTATING ELECTRIC MACHINES WITH SPARE PARTS	4	SET	"	
08-10-14-01-1405	KIT FOR THE CONSTRUCTION OF TRANSFORMER AND AN ASYNCHRONOUS MOTOR WITH SPARE PARTS	1	SET	"	
08-10-14-01-1406	SYSTEM FOR THE STUDY OF RECTIFIERS, POWER DIODES AND THYRISTOR WITH SPARE PARTS	10	SET	"	
08-10-14-01-1407	PLC,S INDUSTRIAL WITH SPARE PARTS , INSTALLATIONS , COMMISSIONING AND TRAINING	2	SET	Training hardware	
08-10-14-01-1408	TRAINING PACKAGES: SOFTWARE WITH INTERACTIVE VIDEO	1	SET	Training software	