

MISSAN OIL COMPANY

REQUISITIONS LIST
CLOSING DATE 23/03/4014

ALL PARTICIPANTS IN ENQUIRIES THAT WILL BE RE- ANNOUNCED SHOULD FOLLOW -UP OUR REQUISITIONS LISTS AND CLOSING DATE ON OUR WEB SITE INSTEAD OF NOTIFICATION BY FAX OR E-MAIL AND SUBMIT EITHER RENEWED OFFERS OR LETTERS BY WHICH EXTENDING THE VALIDITY OF THEIR PAYMENT FOR PARTICIPATION SHOULD BE DONE ONE DAY BEFORE CLOSING DATE . SINCE CLOSING DATE IS DEDICATED FOR RECEIVING OFFER (S) ONLY FOR TECHNICAL SPECIFICATION PLEASE VISIT OUR WEB SITE (www.moc.oil.gov.iq) OTHERWISE, FEEL FREE TO CONTACT US AT (moc_cd@moc.oil.gov.iq)

ANN-NO. -2-

SER	ENQ.REF.	SPEC	NO. OF ITEMS	NOTE	MATERIAL NATURE	PAYMENT IN USD	BUDGET
1	PRJ.14.4165	Feasibility & feed study for MOC scada system				1000 \$	Investment
2	11.14.4166	Tools and Devices Laboratory Geological	15			100 \$	Investment
3	PRJ.14.4167	Microwave network project				1000 \$	Investment

Microwave

تسلسل ITEM	المواصفات DESCRIPTION	الكمية QTY
01	6 Microwaves links pasolink – neo or any equivalent type SDH (1+1). Flexible configuration (1+0,1+1, HS/SD/FD) work in frequency (7, 8, 11, 15, 18,) GHz 2xSTM-1 & LAN or 16E1 :interface card swap. Dual polarization (XPIC) with all accessories (connector & cable) Work in converter DC to DC power supply 220 v AC to 48 v DC with battery & UPS power supply work 24 hour. Work site survey for all link	6
	Supply and installation & operation all link (free of charge)	
	Warranty 1 year & maintenance & support (free of charge)	
	Supply spar part for 1 year to all equipments	
	Manual and software all with license (pnms , pnmt) in CD .	
	ORIGIN: Germany. United Kingdom . Italy . Slovakia, Sweden, Japan, France, Austria , Finland,	
	Training for 2 persons 2 week for all equipment (microwave, test equipment) outside Iraq. (free of charge)	

Location of links

	Site A		Site B	
1	MOC	E: 47 09 54 N: 31 49 13	Amara	E: 47 03 46 N: 31 47 29
2	MOC	E: 47 09 54 N: 31 49 13	Noor	E: 47 16 43 N: 31 56 34
3	MOC	E: 47 09 54 N: 31 49 13	Kahla	E: 47 17 9.6 N: 31 40 9.1
4	Kahla	E: 47 17 9.6 N: 31 40 9.1	Uzer	E: 47 24 30 N: 31 18 32
5	Noor	E: 47 16 43 N: 31 56 34	Buzrgan	E: 47 24 23 N: 32 07 14
6	Kahla	E: 47 17 9.6 N: 31 40 9.1	Gas terminal	E : 47 15 22 N : 31 41 54

MUX

تسلسل ITEM	المواصفات DESCRIPTION	الكمية QTY
01	Multi-Service Access Optix OSN 9500 or any equivalent type have powerful cross-connect. support STM-64/ STM-16/STM-4/STM-1 SDH signal, GE/10GE service access, & support 2.4G/ 10G color interface. (flexible configuration optical/electrical interface) the MOC have to type E1. 120 ohm, 75 ohm. Work in converter DC to DC power supply 220 v AC to 48 v DC with battery & UPS power supply work 24 hour.	7
	ORIGIN: China(huawei), Sweden, Japan, Italy, Germany, United Kingdom, France, Finland, USA	
	Supply and installation & operation all MUX (free of charge)	
	Warranty 1 year & maintenance & support (free of charge)	
	Supply spar part for 1 year to all equipment	
	Manual and software all with license in CD .	
	Training for 3 persons 3 week for all equipment (MUX Optix,) outside Iraq. (free of charge)	

MUX subscriber

تسلسل ITEM	المواصفات DESCRIPTION	الكمية QTY
01	Multiplexer convert from E1 to timeslot (subscriber, line telephone) & from timeslot (subscriber, line telephone) to E1, or any type equivalent. flexible 64kbit/s & 8kbit/s. capacity 8E1 in MOC centre & 2E1 each site. Work in converter DC to DC power supply 220 v AC to 48 v DC with battery. UPS DC power supply work 24 hour.	3
	Supply and installation & operation all MUX (free of charge)	
	Warranty 1 year & maintenance & support (free of charge)	
	Supply spar part for 1 year to all equipment	
	Manual and software all with license in CD .	
	ORIGIN: Germany . USA . United Kingdom . Italy . Slovakia, Sweden, Japan, France, Austria , Finland,	
	Training for 2 persons 10 day for all equipment (MUX subscriber) outside Iraq. (free of charge)	

Router Cisco

تسلسل ITEM	المواصفات DESCRIPTION	الكمية QTY
01	Router Cisco. router converter data from Ethernet to E1, transfer data speed up to 366Mbit/s. UPS power supply	10
	Supply and installation & operation all Router (free of charge)	
	Warranty 1 year & maintenance & support (free of charge)	
	Supply spar part for 1 year to all equipment	
	Manual and software all with license in CD .	
	ORIGIN: Germany . USA . United Kingdom . Italy . Slovakia, Sweden, Japan, France, Austria , Finland, Malaysia.	
	Training for 2 persons 1 week for all equipment (router,) outside Iraq. (free of charge)	

Towers

تسلسل ITEM	المواصفات DESCRIPTION	الكمية QTY
01	Towers with all electric , & civil works, high 65m. maximum wind speed 165 km/hr. <i>Operational wind speed is 120 km/hr and under operational wind load maximum displacement, twist and sway at top of tower should be less than 0.5 to 1 degrees.</i> 4x2.4 m Microwave Antenna at 55 m tower high competence tolerance weight up to 1000 Kg. All towers must be rigid and stand on four feet attached to concrete pad the towers should be according with international specification and not local quality. The specification & design all towers should be sending with technical offer. Rest around the tower 360° or 270° the destines between the rests to other from (15 – 20)m. or any equivalent type	2
02	Shelter 3x3 m weather proof have two cooling (spelt unit) & all electric work with ground	5
	Supply and installation & all civil works	
	Warranty 1 year	
	ORIGIN: Germany . Italy . Slovakia, Sweden, Japan, France, Malaysia , Singapore, Taiwan, Turkey, Iran, Syria ,Korea	

TEST EQUIPMENT

تسلسل ITEM	المواصفات DESCRIPTION	الكمية QTY
01	SDH, STM-1 & E1 tester. Color monitor. with all accessories & adapter.	2
02	Optical Fiber Fusion Splicer (welding optical) Direct Core Monitoring with all accessories & adapter & tools.	1
03	Spectrum Master MS2711D or any type equivalent color screen. with all accessories & adapter.	1
04	Power Meters ML2400A Series. or any type equivalent with all accessories & adapter	1
	Warranty 1 year & support (free of charge)	
	Manual and software all with license in CD .	
	ORIGIN: Germany . USA . United Kingdom . Italy . Slovakia, Sweden, Japan, France, Austria , Finland.	
	<u>microwave conditions:</u> 1. Safety aspects 2. EMC, EMI, RS test. 3. Health standards of the equipment. 3.1- serial number 3.2- manual & specification. 3.3- organ certificate 3.4- copy of agreement with company. 3.5- executant input the equipment	
	The time complete work 18 month began from the done frequency from CMC.	
	All material CIP missan	