

GSM MOBILE SYSTEM
REQUIREMENTS (*)

CODE	ITEM	QTY
07-14-10000	<p>GSM MOBILE TELEPHONE SYSTEM FOR THREE CITIES AND A HIGHWAY ROAD FROM BAGHDAD TO MOUSIL WITH A DISTANCE OF ABOUT 450 KM. THE THREE CITIES ARE MOUSIL , TIKREET AND SAMARA. BELOW ARE THE MAIN REQUIREMENTS FOR THE PROJECT WITH ESTIMATED NUMBERS PENDING THE FINAL DESIGN AND NEGOTIATION WITH THE SUPPLIERS:</p> <p>1- BASE TRANCEIVER STATIONS (BTS) – 40-60 BTS</p> <p>2- SMALL CAPACITY MICROWAVE LINKS 40-60 LINKS</p> <p>3- BASE STATION CONTROLLER – 1-3 BSC</p> <p>4- MOBILE SERVICES SWITCHING CENTER. – ONE IN MOUSIL</p> <p>5- OPERATION AND MAINTENANCE CENTER NSS&BSS – ONE IN MOUSIL</p> <p>6- SUBSCRIBERS HANDHELD TERMINALS.</p> <p>7- ANY OTHER NECESSARY ITEM FOR THE NORMAL OPERATION OF THE SYSTEM.</p>	<p>As Necessary</p> <p>As Necessary</p> <p>As Necessary</p> <p>As Necessary</p> <p>1</p> <p>1</p> <p>10000</p> <p>As Necessary</p>

(*) NOTE : THE EXACT DETAILS OF THE EQUIPMENT AND CONFIGURATION OF THE SYSTEM WILL BE SUBMITTED LATER AFTER COMPLETION OF TECHNICAL STUDIES AND NEGOTIATION WITH THE CONTRACTING COMPANIES. THE NUMBERING FOR THE DETAILED ITEMS WILL START FROM 0706 10001 ONWARD.

WIRELESS LOCAL LOOP (WLL)
REQUIREMENTS (*)

CODE	ITEM	QTY
07-15-10000	<p>WIRELESS LOCAL LOOP (WLL) SYSTEM WITH A CAPACITY OF UP TO 10000 SUBSCRIBERS TO SERVE URBANE AREAS IN BAGHDAD. THE SYSTEM WILL OPERATE IN THE 1800 MHZ FREQUENCY BAND AND COMPRISE THE FOLLOWING MAIN ITEMS:</p> <p>1- RADIO BASE STATIONS (BS) – NUMBERS WILL BE DECIDED LATER.</p> <p>2- BASE STATION CONTROLLER</p> <p>3- INTERCONNECTING LOW CAPACITY MICROWAVE LINKS.</p> <p>4- SUBSCRIBERS PREMISES TERMINALS AND OUTDOOR ANTENNAS</p> <p>5- ANY OTHER NECESSARY ITEM FOR THE NORMAL OPERATION OF THE SYSTEM.</p>	<p>As Necessary</p> <p>As Necessary</p> <p>As Necessary</p> <p>10000</p> <p>As Necessary</p>

(*) NOTE : THE EXACT DETAILS OF THE EQUIPMENT AND CONFIGURATION OF THE SYSTEM WILL BE SUBMITTED LATER AFTER COMPLETION OF TECHNICAL STUDIES AND NEGOTIATION WITH THE CONTRACTING COMPANIES. THE NUMBERING FOR THE DETAILED ITEMS WILL START FROM 0707 10001 ONWARD.

PAGING SYSTEM
REQUIREMENTS (*)

CODE	ITEM	QTY
07-16-10000	PAGING SYSTEM WITH A CAPACITY OF 10000 SUBSCRIBERS IS REQUIRED TO SERVE THE BAGHDAD CITY AND SURROUNDING AREAS. THE MAIN REQUIREMENTS FOR THE SYSTEM ARE AS FOLLOWS: 1- OPERATION IN THE VHF FREQUENCY BAND (ONE WAY OPERATION). 2- ALL KIND OF COMMON PAGING SERVICES SHOULD BE OFFERED. 3- SERVICE AREA WITHIN UP TO 50 KM RADIUS FROM THE CENTER OF BAGHDAD CITY. 4- NUMBER OF SITES ONE OR MORE AS REQUIRED BY SYSTEM DESIGN. 5- 10000 SUBSCRIBERS PAGERS IS TO BE SUPPLIED.	2 systems

(*) NOTE : THE EXACT DETAILS OF THE EQUIPMENT AND CONFIGURATION OF THE SYSTEM WILL BE SUBMITTED LATER AFTER COMPLETION OF TECHNICAL STUDIES AND NEGOTIATION WITH THE CONTRACTING COMPANIES. THE NUMBERING FOR THE DETAILED ITEMS WILL START FROM 0708 10001 ONWARD.

DOMESTIC SATELLITE SERVICE
REQUIREMENTS (*)

CODE	ITEM	QTY
07-17-10000	<p>DOMESTIC SATELLITE SERVICE TO PROVIDE COMMUNICATIONS TO REMOTE AREAS IN IRAQ AND TO PROVIDE EMERGENCY AND LIMITED BACKUP COMMUNICATION BETWEEN BAGHDAD AND OTHER CITIES IN IRAQ. THE SYSTEM IS BASED ON RENTING APPROPRIATE DIGITAL CAPACITY ON ONE OF THE REGIONAL OR GLOBAL SATELLITES THAT COVERS IRAQ AND TO USE THIS CAPACITY TO PROVIDE ON-DEMAND AND PRE ASSIGNED CAPACITIES TO VARIOUS USAGE. THE MAIN REQUIREMENTS OF THE SYSTEM ARE AS FOLLOWS:</p> <ol style="list-style-type: none"> 1- ONE RELATIVELY BIG HUB EARTH STATION WITH ANTENNA DIAMETER OF 6-7.5 METERS THAT WILL BE RESPONSIBLE FOR THE MANAGEMENT OF THE SYSTEM AND ALLOCATION OF THE AVAILABLE CAPACITY. 2- FIFTY TERMINAL EARTH STATIONS WITH DIAMETER OF 1.5-2.4 METERS THAT WILL BE USED TO SERVE REMOTE AREAS AND USED TO PROVIDE LIMITED BACKUP FOR NORMAL COMMUNICATION. 3- DIGITAL CAPACITY RENT FOR 3 OR 5 YEARS ON ONE OF THE SATELLITE COVERING IRAQ WITH SUFFICIENT POWER TO ALLOW FOR THE USE OF RELATIVELY SMALL TERMINAL EARTH STATIONS ANTENNA DIAMETERS. THE ENVISAGED TOTAL DIGITAL CAPACITY TO BE RENTED IS BETWEEN 8 TO 2*8 MBITS/SEC. 	

(*) NOTE : THE EXACT DETAILS OF THE EQUIPMENT AND CONFIGURATION OF THE SYSTEM WILL BE SUBMITTED LATER AFTER COMPLETION OF TECHNICAL STUDIES AND NEGOTIATION WITH THE CONTRACTING COMPANIES. THE NUMBERING FOR THE DETAILED ITEMS WILL START FROM 0709 10001 ONWARD.

PRIVATE MOBILE RADIO SYSTEM
REQUIREMENTS (*)

CODE	ITEM	QTY
07-18-10000	<p>PRIVATE MOBILE RADIO (PMR) SYSTEM TO SERVE THE MAINTENANCE REQUIREMENTS OF IRAQI TELECOMMUNICATION AND POST COMPANY (ITPC) IN BAGHDAD AREA. THE SYSTEM IS TO PROVIDE COVERAGE IN BAGHDAD AREA WITH A COVERAGE RADIUS OF 50 KM FROM THE CITY CENTER. THE MAIN REQUIREMENTS FOR THE SYSTEM ARE AS FOLLOWS:</p> <ol style="list-style-type: none"> 1- SMALL PMR TRUNKING SYSTEM WITH A CAPACITY OF 16 SIMULTANEOUS CALLS TO THE VARIOUS MAINTENANCE LOCATIONS AND MOBILE TEAMS THROUGHOUT BAGHDAD AND SURROUNDING AREA AS DEFINED ABOVE. 2- NECESSARY BASE STATIONS AND TRUNKING EQUIPMENT TO PROVIDE THE REQUIRED COVERAGE. 3- 300 MOBILE AND HAND HELD TERMINALS. 4- ALL NORMAL PMR FUNCTIONALITY. 	

(*) NOTE : THE EXACT DETAILS OF THE EQUIPMENT AND CONFIGURATION OF THE SYSTEM WILL BE SUBMITTED LATER AFTER COMPLETION OF TECHNICAL STUDIES AND NEGOTIATION WITH THE CONTRACTING COMPANIES. THE NUMBERING FOR THE DETAILED ITEMS WILL START FROM 0710 10001 ONWARD.