

REQUIREMENTS FOR A GSM MOBILE NETWORK FOR THE MIDDLE PART OF IRAQ (*)

CODE	ITEM	QTY	
07-09-10000	900 MHZ GSM MOBILE TELEPHONE SYSTEM TO COVER THE MIDDLE PART OF IRAQ (OUTSIDE BAGHDAD) COVERING 20 CITIES AND TOWNSHIPS AND HIGHWAY ROADS CONNECTING THEM WITH A TOTAL DISTANCE OF ABOUT 1200 KM. TOTAL SUBSCRIBER CAPACITY IS AROUND 100000 SUBSCRIBERS. BELOW ARE THE MAIN REQUIREMENTS FOR THE PROJECTS. DETAILS WILL BE SUPPLIED AFTER FINAL DESIGN AND NEGOTIATION WITH THE SUPPLIERS:	1	
07-09-10001	BASE TRANSCIVER STATIONS (BTS)	120 TO 140	
07-09-10101	SMALL CAPACITY MICROWAVE LINKS (7 & 18 GHZ)	120 TO 140	
07-09-10201	BASE STATION CONTROLLER (BSC)	2 TO 3	
07-09-10301	MOBILE SERVICE SWITCHING CENTER (MSC/VLR)	1	
07-09-10401	HOME LOCATION REGISTER (HLR/AUC)	1	
07-09-10501	OPERATION AND MAINTENANCE CENTER (OMC)	1	
07-09-10601	SUBSCRIBERS HANDHELD TERMINALS	100000	
07-09-10701	PREPAID SERVICE PLATFORM	1	
07-09-10901	VOICE MAIL SERVICE PLATFORM	1	
07-09-11101	SHORT MESSAGE SERVICE CENTER	1	
07-09-11301	GPRS SYSTEM	1	
07-09-11501	PRIVATE MOBILE RADIO FUNCTIONS (WITHIN GSM)	1	
07-09-11701	ANY OTHER ITEMS OR EQUIPMENT NECESSARY FOR THE NORMAL AND ORDERLY OPERATION OF THE COMPLETE SYSTEM SUCH AS POWER SUPPLY EQUIPMENT , TOWERS , SHELTERS , AIR-CONDITIONING , SERVICE VEHICLES ...ETC.	AS NECESSARY	
	(*) NOTE: THE EXACT CONFIGURATION OF THE SYSTEM AND DETAILS AND QUANTITIES OF THE EQUIPMENT WILL BE SUBMITTED LATER AFTER COMPLETION OF THE TECHNICAL STUDIES AND NEGOTIATION WITH THE CONTRACTING SUPPLIERS. THE NUMBERING FOR THE DETAILS WILL USE THE VACANT SPACES BETWEEN THE GIVEN NUMBERS ABOVE.		

REQUIREMENTS FOR A SECOND GSM MOBILE NETWORK FOR BAGHDAD (*)

CODE	ITEM	QTY	
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07-09-20000	1800 MHZ GSM MOBILE TELEPHONE SYSTEM TO COVER THE CAPITAL CITY OF BAGHDAD WITH A TOTAL SUBSCRIBER CAPACITY OF 100000 SUBSCRIBERS. BELOW ARE THE MAIN REQUIREMENTS FOR THE PROJECTS. DETAILS WILL BE SUPPLIED AFTER FINAL DESIGN AND NEGOTIATION WITH THE SUPPLIERS:	1	
07-09-20001	BASE TRANSCEIVER STATIONS (BTS)	120 TO 160	
07-09-20101	SMALL CAPACITY MICROWAVE LINKS (7 & 18 GHZ)	120 TO 160	
07-09-20201	BASE STATION CONTROLLER (BSC)	2 TO 3	
07-09-20301	MOBILE SERVICE SWITCHING CENTER (MSC)	1	
07-09-20401	HOME LOCATION REGISTER (HLR/AUC)	1	
07-09-20501	OPERATION AND MAINTENANCE CENTER (OMC)	1	
07-09-20601	SUBSCRIBERS HANDHELD TERMINALS	100000	
07-09-20701	PREPAID SERVICE PLATFORM	1	
07-09-20901	VOICE MAIL SERVICE PLATFORM	1	
07-09-21101	SHORT MESSAGE SERVICE CENTER	1	
07-09-21301	GPRS SYSTEM	1	
07-09-21501	PRIVATE MOBILE RADIO FUNCTIONS (WITHIN GSM)	1	
07-09-21701	ANY OTHER ITEMS OR EQUIPMENT NECESSARY FOR THE NORMAL AND ORDERLY OPERATION OF THE COMPLETE SYSTEM SUCH AS POWER SUPPLY EQUIPMENT , TOWERS , SHELTERS , AIR-CONDITIONING , SERVICE VEHICLES....ETC.	AS NECESSARY	
	(* NOTE: THE EXACT CONFIGURATION OF THE SYSTEM AND DETAILS AND QUANTITIES OF THE EQUIPMENT WILL BE SUBMITTED LATER AFTER COMPLETION OF THE TECHNICAL STUDIES AND NEGOTIATION WITH THE CONTRACTING SUPPLIERS. THE NUMBERING FOR THE DETAILS WILL USE THE VACANT SPACES BETWEEN THE GIVEN NUMBERS ABOVE.		

WIRELESS LOCAL LOOP (WLL) REQUIREMENTS (*)

CODE	ITEM	QTY	
07-09-30000	WIRELESS LOCAL LOOP (WLL) SYSTEMS WITH A TOTAL CAPACITY OF 50000 SUBSCRIBERS TO SERVE SUBURBANE AND OPEN AREAS. THE SYSTEM TECHNOLOGY TO BE ADOPTED WILL BE DECIDED LATER. THE SYSTEM WILL COMPRISE THE FOLLOWING MAIN ITEMS:	1	
07-09-30001	RADIO BASE STATIONS FOR UP TO ABOUT 50 TRANSMITTING SITES - NUMBERS TO BE DECIDED LATER ACCORDING TO THE TECHNOLOGY TO BE CHOSEN AND FINAL CONFIGURATION.	AS NECESSARY FOR UP TO 50 TX SITES	
07-09-30002	power cables / contractor oil	10150	unit
07-09-30101	BASE STATION CONTROLLER (BSC)	20-30	

07-09-30201	INTERCONNECTING LOW CAPACITY MICROWAVE LINKS	20-30	
07-09-30301	SUBSCRIBERS FIXED TERMINALS	50000	
07-09-31701	ANY OTHER ITEMS OR EQUIPMENT NECESSARY FOR THE NORMAL AND ORDERLY OPERATION OF THE COMPLETE SYSTEM SUCH AS POWER SUPPLY EQUIPMENT , TOWERS , SHELTERS , AIR-CONDITIONING , SERVICE VEHICLES....ETC. (* NOTE: THE EXACT CONFIGURATION OF THE SYSTEM AND DETAILS AND QUANTITIES OF THE EQUIPMENT WILL BE SUBMITTED LATER AFTER COMPLETION OF THE TECHNICAL STUDIES AND CHOICE OF TECHNOLOGY AND NEGOTIATION WITH THE CONTRACTING SUPPLIERS. THE NUMBERING FOR THE DETAILS WILL USE THE VACANT SPACES BETWEEN THE GIVEN NUMBERS ABOVE.	AS NECESSARY	

PAGING SYSTEM REQUIREMENTS (*)

CODE	ITEM	QTY	
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07-09-40000	PAGING SYSTEM WITH A CAPACITY OF 10000 SUBSCRIBERS IS REQUIRED TO SERVE THE CAPITAL CITY OF BAGHDAD AND SURROUNDING AREAS UP TO 50 KM RADIUS. THE FREQUENCY OF OPERATION WILL BE IN THE VHF BAND. THE MAIN REQUIREMENTS FOR THE SYSTEM ARE AS FOLLOWS:	1	
07-09-40001	TRANSMITTING EQUIPMENT	AS NECESSARY	
07-09-40101	CONTROLE EQUIPMENT	AS NECESSARY	
07-09-40201	COMPUTERS	AS NECESSARY	
07-09-40301	SUBSCRIBERS PAGERS	10000	
07-09-41701	ANY OTHER ITEMS OR EQUIPMENT NECESSARY FOR THE NORMAL AND ORDERLY OPERATION OF THE COMPLETE SYSTEM SUCH AS POWER SUPPLY EQUIPMENT , TOWERS , SHELTERS , AIR-CONDITIONING , SERVICE VEHICLES....ETC.	AS NECESSARY	
	(* NOTE: THE EXACT CONFIGURATION OF THE SYSTEM AND DETAILS AND QUANTITIES OF THE EQUIPMENT WILL BE SUBMITTED LATER AFTER COMPLETION OF THE TECHNICAL STUDIES AND CHOICE OF TECHNOLOGY AND NEGOTIATION WITH THE CONTRACTING SUPPLIERS. THE NUMBERING FOR THE DETAILS WILL USE THE VACANT SPACES BETWEEN THE GIVEN NUMBERS ABOVE.		

PRIVATE MOBILE RADIO SYSTEMS REQUIREMENTS (*)

CODE	ITEM	QTY	
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07-09-50000	FIFTEEN INDEPENDENT PRIVATE MOBILE RADIO (PMR) SYSTEM TO SERVE MAINTENANCE REQUIREMENTS OF IRAQI TELECOMMUNICATIONS AND POSTS COMPANY (ITPC) IN BAGHDAD AND FOURTEEN OTHER CITIES IN IRAQ. THE MAIN REQUIREMENTS ARE AS FOLLOWS:	15	
07-09-50001	RADIO BASE/REPEATER STATIONS	60	
07-09-50101	CONTROLE AND DISPATCH EQUIPMENT	15	
07-09-50201	HAND HELD USER TERMINALS	900	
07-09-50301	VEHICULAR USER TERMINAL	900	
07-09-50401	FIXED USER TERMINALS	450	
07-09-50501	ANY OTHER ITEMS OR EQUIPMENT NECESSARY FOR THE NORMAL AND ORDERLY OPERATION OF THE COMPLETE SYSTEM SUCH AS POWER SUPPLY EQUIPMENT , TOWERS , SHELTERS , AIR-CONDITIONING , SERVICE VEHICLES....ETC.	AS NECESSARY	
	(* NOTE: THE EXACT CONFIGURATION OF THE SYSTEM AND DETAILS AND QUANTITIES OF THE EQUIPMENT WILL BE SUBMITTED LATER AFTER COMPLETION OF THE TECHNICAL STUDIES AND CHOICE OF TECHNOLOGY AND NEGOTIATION WITH THE CONTRACTING SUPPLIERS. THE NUMBERING FOR THE DETAILS WILL USE THE VACANT SPACES BETWEEN THE GIVEN NUMBERS ABOVE.		

E-MAIL SERVICE REQUIREMENTS (*)

CODE	ITEM	QTY	
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07-09-60000	E-MAIL SYSTEM WITH THE FOLLOWING REQUIREMENTS AND SPECIFICATIONS:	1	
07-09-60001	SYSTEM CAPACITY : 50000 SUBSCRIBERS	50000	
07-09-60101	FIVE NODES TO CONNECT TO PSTN VIA 2 MB/S LINES.	5	
07-09-60201	NECESSARY SERVERS THAT CAN HANDLE THE TRAFFIC REQUIREMENTS	AS NECESSARY	
07-09-60301	NECESSARY STORAGE MEDIA FOR HANDLING THE STORAGE REQUIREMENTS FOR THE SUBSCRIBERS WITH RESONABLE MEMORY ALLOCATION FOR EACH SUBSCRIBER.	AS NECESSARY	
07-09-60401	ACCESS SERVERS CAPBLE OF HANDLING THE TRAFFIC AND THE NUMBER OF SUBSCRIBERS.	AS NECESSARY	
07-09-60501	MODEM POOLS WITH APPROPRIATE NUMBER OF MODEMS	AS NECESSARY	
07-09-60601	NECESSARY ROUTERS TO CONNECT TO E-MAIL GATEWAY	AS NECESSARY	
07-09-60701	NECESSARY FIREWALL , PROXY SERVERS .. ETC TO ENSURE THE SECURITY OF THE SYSTEM	AS NECESSARY	
07-09-60801	E-MAIL SYSTEM SOFTWARE BASED ON MOST UP TO DATE PROTOCOLES THAT PROVIDE THE LATEST E-MAIL SERVICE OFFERING	AS NECESSARY	
	(*) NOTE: THE EXACT CONFIGURATION OF THE SYSTEM AND DETAILS AND QUANTITIES OF THE EQUIPMENT WILL BE SUBMITTED LATER AFTER COMPLETION OF THE TECHNICAL STUDIES AND CHOICE OF TECHNOLOGY AND NEGOTIATION WITH THE CONTRACTING SUPPLIERS. THE NUMBERING FOR THE DETAILS WILL USE THE VACANT SPACES BETWEEN THE GIVEN NUMBERS ABOVE.		