

## REQUIREMENTS FOR EXPANSION OF THE ALREADY APPROVED PHASE 5 GSM PROJECT OF BAGHDAD (\*)

CODE	ITEM	QTY	
07-09-20000	EXPANSION OF THE ALREADY CONTRACTED AND APPROVED PHASE 5 GSM PROJECT OF BAGHDAD FROM 25000 SUBSCRIBERS TO 100000-150000 SUBSCRIBERS AND ADDING SOME SUBSYSTEMS TO IMPROVE AND ADD SERVICES AND FUNCTIONALITIES SUCH AS PRE-PAID SERVICE PLATFORM AND OTHERS. 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)	70 TO 120	
07-09-20101	SMALL CAPACITY MICROWAVE LINKS (7 & 18 GHZ)	70 TO 120	
07-09-20201	BASE STATION CONTROLLER (BSC)	2 TO 3	
07-09-20301	MOBILE SERVICE SWITCHING CENTER (MSC) - EXPANSION AND/OR NEW ONE	1	
07-09-20401	HOME LOCATION REGISTER (HLR/AUC) EXPANSION	1	
07-09-20501	OPERATION AND MAINTENANCE CENTER (OMC) EXPANSION	1	
07-09-20601	SUBSCRIBERS HANDHELD TERMINALS	100000	
07-09-20701	PREPAID SERVICE PLATFORM - NEW	1	
07-09-20901	VOICE MAIL SERVICE PLATFORM - EXPANSION	1	
07-09-21101	SHORT MESSAGE SERVICE CENTER - EXPANSION	1	
07-09-21301	GPRS SYSTEM AND WAP PLATFORM - NEW (OPTIONAL ITEMS DEPENDING ON DEVELOPMENT OF TECHNOLOGY AND AVAILABILITY OF FUNDS)	1	
07-09-21501	PRIVATE MOBILE RADIO FUNCTIONS (WITHIN GSM) - OPTIONAL ITEM	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.		

## 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 TRANSCEIVER 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.		

## 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	
07-09-30101	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.	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.		

## PAGING SYSTEM REQUIREMENTS (\*)

CODE	ITEM	QTY	
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.		