

**IRAQI METEROLOGICAL ORGANIZATION**  
**Requirrements of weather observation instruments**

Code	Item Description	Unit	Qty	Complem En tray items
07-60-00001	1- Upper air observation automatic radio sond system complete with all options, spares, consumables for 3 years operation, installation and training .			
07-60-00002	2- Meteorological Balloon, Weight 10 gm. 50gm, 100gm 150 gm, 200 gm, 300gm, 500gm, 750gm,10000gm, (color-red, yellow).			
07-60-00003	3- Various surface meteorological instrument with accessories, spares and consumables including installation and training.			
07-60-00004	4- Agrometeorological automatic observation station, comprising all meteorological sensors, data logger Pcbased pentium type IBM compatible, 12 V DC battery operation with Solar panels for battery charging			
07-60-00005	5- Marine automatic meteorological station including all measuring sensors and data handling hard and software.			
07-60-00006	6- A complete runway automatic weather observation station for int. airport of category CAT III A. Dual runway complete with spare parts, installation and training.			
07-60-00007	7- A complete runway automatic weather observation station for int. airport of category CAT II A. complete with spare parts, installation and training.			
07-60-00008	8- Weather radar system, comprising a computer,color monitor and all necessary accessories spare parts complete with installation and training.			
07-60-00009	9- Complete meteorological Satellite Receving stations comprising the following main features: - PDUS/ HRIT, MDD, SADIS, HRPT and MSG( Meteosat second generation ) and the coming European Polar Orbiting Satellite. - Work terminals in addition to the server terminal. - Connection to GTS and AFTN net works. - Laser jet printers, A3 size and A4 size. Key Unit and other services charges for two years transmission to be paid to (( Eumetsat)) or any other satellite owner.			

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07-60-00010	10. Wind tunnel for calibrating wind instruments with accessories consumables and spares.			
07-60-00011	11. Wireless, Two way, fast speed data link, 10-20 Km ranges complete with spares.			
07-60-00012	12. Miscellaneous Mechanical, Electrical, and Electronic measuring and test instruments.			
07-60-00013	13. Seismological observation system with consumables spares and training.			
07-60-00014	14. HF/SSB Radiotelephone, 500 W PEP, base station, 2-15 MHz, USB, 6 channels, simplex .220 V Ac, 50 Hz main operation, one of them is a stand by C/w. Spare parts, plus a suitable bidirectional Antenna , 100-600 Km.			
07-60-00015	15. HF antenna for item 16, (100-600) Km range c/w pole			

	masts and installation materials.			
07-60-00016	16. HF/SSB Radiotelephone 2-15 MHz, 150 W PEP 12 VDC- battery operation c/w 10 AMP. Battery charger(ordinary type) and spares.			
07-60-00017	17. Electric gasoline driven generator , 3 KVA, 220 V AC 50Hz with spares.			
07-60-00018	18. Electrolytic hydrogen generator of 3 m3/hr production rate c/w spares, installation materials and consumables for 5 years.			
07-60-00019	19. Calibration equipment for temperature ,relative humidity, pressure, measuring rain gauge and recording instruments.			
07-60-00020	20. Supply, installation and commissioning of meteorological message switching system (MMSS) comprising the following main feature: -Connection with the WMO GTS and AFTN net works. - Conforms to WMO recommendation standards and ICAO regulations. - Connection to SADIS, MDD, PDUS and HARPT satellite receiving station including suitable software. - Dual system in live and hot standby station. - Ten user terminals, including all peripherals i.e.Modems , Plotters, Printers, Scanners, UPS ...etc.			
07-60-00021	21. Miscellaneous office equipment's (photocopiers PC with Peripherals...etc.			

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07-60-00022	22. 220 V Stabilizers, and UPS s 1.2 KVA and 5 KVA.			
07-60-00023	23 . Spare parts for central air-conditioning system ( 4 Air cooled water chillers, out door installation 208 Kw per unit) .			
07-60-00024	24 . Motor for fan coils for airconditioning system			