

SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS

Procurement request under Strengthening Climate Information and Early Warning Project for the 2017 Fiscal Period

**Procurement Request for the Supply, Installation, Configuration, Testing,
Commissioning; Training and After Sales Services of WMO-GTS system**

Project Title: Strengthening Climate Information and Early Warning Project

**Addis Ababa, Ethiopia
April 2017**

SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS

GENERAL INFORMATION

Services/Work Description: Procurement Request for the Supply, Installation, Configuration, Testing, Commissioning; Training and After Sales Services of World Meteorological Organization (MWO) established Global Telecommunication System (GTS)

Project/Program Title: SCIEWP

Specific Location: Addis Ababa, Ethiopia

Type of the Contract: Invitation to Bid (ITB) Firm Level Supply

Expected Delivery Date: August 2017 the latest

I. BACKGROUND / RATIONALE

World Meteorological Organization (MWO) established Global Telecommunication system (GTS) to exchange meteorological data among its member countries. The old National Meteorological Agency (NMA) of Ethiopia Message Switching GTS system failed and there is an urgent need to procure and install a new state of the art WMO-GTS system. The proposed system is envisaged to improve the means for meteorological telecommunications especially for pushing National Meteorological Data to WMO-Nairobi RTH in TDCF / BUFR format (table Driven Code Forms / Binary Universal Form for the representation of meteorological Data) based on WMO agreements. The system should also support collection of data from 18 synoptic stations through SMS text message via GSM/GPRS network in TAC format and convert the data into TDCF and send it to Nairobi Hub.

Synoptic (surface) meteorological stations traditionally report observation data in TAC format (Traditional Alphanumeric Code). The WMO (World Meteorological Organization) in the last 10 years specified a step-by-step migration from the TAC to the TDCF (Table Driven Code Forms) as for example BUFR. BUFR/TDCF are the only solution to the demands of the rapidly evolving science and technology for representation of new data types, metadata, higher resolution data in time or space dimensions and higher precision of data. The worldwide WMO migration has now reached its last step, and in the very near future NMA must be able to convert its TAC to TDCF and export them to Nairobi RTH for subsequent export of Ethiopian data to the whole world.

II. OBJECTIVES OF THE SUPPLY OF GOODS / EQUIPMENT / TECHNOLOGIES

The objective of this procurement is to enable NMA send synoptic stations data in the new coding system (TDCF) to Nairobi WMO regional hub.

III. PRODUCT SPECIFICATIONS AND COMPLIANCE SHEET

The UNDP Ethiopia Country Office hereby invites potentially qualified bidders to supply the following product and service specification and/or "its equivalent":

Items	Item/s to be Supplied	Description/Specifications of Goods (Minimum Technical Requirements Including Applicable Standards)	Qty	Remarks (if any)
A	GTS Automatic Message Switching System software/ Data Collection Distribution		1	
	State-of-the-art Server (S) –	one main, one back-up made of:	2	

Items	Item/s to be Supplied	Description/Specifications of Goods (Minimum Technical Requirements Including Applicable Standards)	Qty	Remarks (if any)
	DELL Power Edge R320 (or Equivalent)	<ul style="list-style-type: none"> Intel Processor – Xeon E5 (or equivalent), 16 GB RAM, 1 TB Hard Sisk capacity, Raid 1 2 Ethernet ports, Windows Server 2012 standard Operating System. 19" Monitor 		
	Supervision position Made of: PC (State-Of-the art. Like DELL Precision T1700 (or Equivalent	<ul style="list-style-type: none"> 8 GB RAM. 500GB hard Sisk. Ethernet port. Flat Monitor 22" Windows O.S. 	1	
	Terminal Server providing 2 asynchronous ports – LAN Port		1	
	GSM /GPRS Modem	Multithec MTCBA-G2-or-MTC-G3-B06 (or equivalent)	1	
	16-port Gigabit LAN switch –	Netgear porSAFE JGS516v2 (or equivalent)	1	
	Network Laser printer A4 B&W – HP M401dn (or equivalent)	UPS APC Smart UPS 2200VA (or Equivalent)	1	
		GTS Automatic Message Switching System software		
		Software license (Valid For 2 Servers in back up mode) Software license for GTS Automatic Meteorological Message Switching Data Collection and Distribution Latest Software Version including <ul style="list-style-type: none"> TAC (text) Conversion to TDCF / BUFR Communications Interfaces: TCP/IP Socket. FTP. e-mail,Secure SADIS FTP, Asynchronous, in compliance with the WMO Manuals on G.T.S. No 386 and on Codes No. 306 		
B	Administration, Supervision and set-up tools	2 Additional Supervision PC's : Supervision Position made of PC (State – of – the art Like DELL Precision T 1700 (or equivalent) <ul style="list-style-type: none"> 8 GB RAM, 500GB hard disk Ethernet port, Flat Monitor 22" <ul style="list-style-type: none"> Windows OS 	2	

IV. DELIVERY SCHEDULE AND DELIVERY LOCATION

a. Delivery Schedule

- The delivery date of product and/or goods within three (3) months of issuance of Purchase Order (PO) upon contract award.
- The specific delivery date for ancillary services such as configuration, testing, training, within two (2) months after delivery of goods.
- Meeting the delivery date is one of the pre-requisites for a bidder to be considered for technical evaluation

b. Delivery Location/Place

- National Meteorological Agency (NMA) Addis Ababa, Ethiopia.

V. CAPACITY BUILDING / TRAINING

One week on site training for technicians /administrators/operators.

NOTE: All Training related costs to Ethiopian participants will be covered by National Meteorological Agency (NMA).

VI. WARRANTY AND AFTER SALES SERVICES

Two years warranty with detailed description of the nature of after sale service.

VII. PAYMENT MILESTONES AND AUTHORITY

Prospective Supplier will indicate the cost of services for each deliverable in US dollars or internationally convertible currencies when applying for this Invitation to Bid (ITB) request. The Supplier will be paid based on the effective UN Operational Exchange Rate (UNOER), and only after approving authority confirms the successful supply of each deliverable as stipulated hereunder. In accordance with UNDP rules, the lump sum contract amount to be offered should consider the CIF Value of the goods inclusive of travel, living allowances (for technical experts), communications, taxes, out of pocket expenses, and other ancillary costs in relation to the supply, installation, testing and commissioning of GTS system.

A winning Supplier shall then be paid the lump sum contract amount upon certification of the completed tasks satisfactorily, as per the following delivery and payment schedule:

No.	Deliverables	Expected Date of Delivery/Completion	Approval should be obtained
1	Supply of Goods as per 2010 INCOTERM	upon arrival of the goods and equipments	UNDP CRGG and NMA Technical Team
2	Installation, Configuration, Testing, Commissioning and On-site Training at NMA; and After Sales Services	upon completion of all installations, configuration and handed over through a formal handover report	" " "

** This shall be the basis of payment tranches*

VIII. MINIMUM ORGANIZATION AND CONSULTANCY TASK FORCE REQUIREMENTS

8.1 Minimum Organization Requirements

The prospective Supplier and/or Bidder is expected to meet the following minimum requirements:

- It must have at least 5 years of practical experience in the supply, installation and training of WMO-GTS and/or similar projects;

- Tax Registration/Payment Certificate issued by the Internal Revenue Authority evidencing that the Bidder is updated with its tax payment obligations, or Certificate of Tax exemption, if any such privilege is enjoyed by the Bidder;
- Certificate of Registration of the business, including Articles of Incorporation, or equivalent document if Bidder is not a corporation;
- Full compliance of Bid to the Technical Requirements;
- Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any
- Environmental Compliance Certificates (Renewed **ISO 14000 Certification** or its equivalent), Accreditations, Markings/Labels, and other evidences of the Bidder's practices which contributes to the ecological sustainability and reduction of adverse environmental impact (e.g., use of non-toxic substances, recycled raw materials, energy-efficient equipment, reduced carbon emission, etc.), either in its business practices or in the goods it manufactures;

The multi-disciplinary team should comprise members with the following educational qualifications; experience and competencies:

8.2 Task Manager / Team Leader

Academic Qualification:

- At least Master's degree in computer hardware and software engineering or related fields.

Experience:

- A professional experience in GTS installation.

Competencies:

- Ability to provide general leadership and direction in due process of supplying, installation, testing, and commission of GTS system.
- Ability to work under pressure, with a group of UN agencies, and to deliver in a timely manner without compromising quality standards;
- Strong organizational skills;
- Strong communication skills;
- Proficiency should be in English.

9.3 Project Staff / Trainers

Academic Qualification:

- A minimum of a University Degree in computer hardware and software engineering or a relevant area.

Experience:

- A minimum of 5 years of professional experience and proven expertise and experience in installation, testing commissioning and/or training of GTS system.

Competencies:

- Training and hands-on experience in installation, testing commissioning and/or training of GTS system;
- Ability to work under pressure, with a group of UN agencies, and to deliver in a timely manner without compromising quality standards;
- Strong communication skills;
- Strong presentation and facilitation skills;
- Proficiency should be in English.

IX. RECOMMENDED PRESENTATION OF TECHNICAL and FINANCIAL PROPOSAL

For purposes of generating proposals whose contents are uniformly presented and to facilitate their comparative review, a Service Provider here below is given a proposed Table of Contents. Accordingly;

respective Bidder's Technical Proposal document must have at least the follow preferred content which is outlined in the ITB Standard Bid Document (SBD).

X. DETAIL RELATED SERVICES

Further to the Schedule of Requirements and Product Specifications in the preceding Table, Bidders are requested to take note of the following related services and Terms/Responsibilities pertaining to successful delivery of the Schedule of Requirements:

No.	Related Services	Terms / Responsibilities
1	Exact Address of Delivery/Installation Location	<input checked="" type="checkbox"/> Indicate the detail address Institution Name/Project Site: National Meteorological Agency City: Addis Ababa PO. Box:1090
2	Mode of Transport Preferred	<input checked="" type="checkbox"/> AIR
3	Delivery Date	<input checked="" type="checkbox"/> Within three months from the date of PO
4	Import Duty and Taxes	<input checked="" type="checkbox"/> Beneficiary Partner will cover the related import duties and taxes upon clearance of the goods from Ethiopian Customs Authority
5	Inspection upon delivery	<input checked="" type="checkbox"/> UNDP and/or Beneficiary Partner will conduct post-delivery inspection on each field unit and will then verify operating functions as per the requirements
6	Installation Requirements	<input checked="" type="checkbox"/> Installation, configuration and commissioning of the system in Addis Ababa Head Office including connecting to Nairobi HUB
7	Testing Requirements	<input checked="" type="checkbox"/> The Supplier will conduct site test for all equipment. Any defects found shall be rectified at no additional cost to UNDP
8	Scope of Training on Operation and Maintenance	<input checked="" type="checkbox"/> The Supplier will supply all manual, software and training materials required for the operation and maintenance of the equipment supplied as per the detail Specs
9	Commissioning	<input checked="" type="checkbox"/> The Supplier will assist the beneficiary and its representatives in the commissioning of all equipment supplied