

Department of Hydrology and Meteorology  
Building Resilience to Climate-Related Hazards Project

**Surface Meteorological Network  
(Supply, Delivery, Installation & Commissioning)**

(Contract ID No: PPCR/DHM/G/ICB-23)

**Addendum-1**

In accordance with the ITB Clause 8 of the Bid Document for the **Surface Meteorological Network (Supply, Delivery, Installation and Commissioning)** against Contract ID No: PPCR/DHM/G/ICB-23, following amendments in respective clauses/sub-clauses/heading has been made as indicated below in the Bid Document.

**(i) Section-2: Bid Data Sheet, D. Submission and Opening of Bids, ITB 22.1 (page\* 34) shall read as:**

*"The deadline for bid submission is:*

*Date: February 27, 2016*

*Time: 12.00 noon (Nepal Standard Time, NST)"*

**(ii) Section-2: Bid Data Sheet, D. Submission and Opening of Bids, ITB 25.1 (page 34) shall read as:**

*"The bid opening shall take place at:*

*Street Address: Department of Hydrology and Meteorology*

*Building Resilience to Climate Related Hazards Project,*

*Procurement Unit, Nagpokhari, Naxal, Kathmandu.*

*Date: February 27, 2016*

*Time: 1 p.m. (NST)*

**(iii) In Section VII: Schedule of Requirements; 3. Technical Specifications, Heading-3.9 Sensors for Basic AWS, Sub-Heading- 3.9.2, Air Temperature in item no.(3.9.2.1) (Page 113) shall read as-**

*"Air temperature must be measured using standard Pt-100 resistance temperature detector (RTD). Air temperature and relative humidity can be measured with separate probes or they can be combined in one sensor probe. A combined probe is preferred. The unit must be serial line connectable."*

**(iv) In Section VII: Schedule of Requirements; 1. Description of overall system, List of Goods and Delivery Schedule, Heading-1.3 Delivery and Installation of Stations, Table-3a. (Page 74) has been replaced by attached amended Table 3(a) which shall read as-**

*"Table 3a: Detailed list of Automatic Weather Stations and their components presented in order of priority, Station Name and AWS type. Legend: x = 1 item delivered per station, 2x = two items delivered per station, 6x = a set of six items delivered per station, (x) = 1 item delivered but reserved as a spare part, xH = sensor requires option for heating."*

**(Table: 3(a) file attached as excel sheet)**

*\*Pages referred to herein are with reference to pages of the DHM web-site document*

Sanoju

**Building Resilience to Climate Related Hazards Project**

Surface Meteorological Network (Supply, Delivery, Installation and Commissioning)

(Contract ID No: PPCR/DHM/G/ICB-23)

**Clarification -1**

We received the following Clarification request through pre-bid meeting, official letter and email from the Consulting Firms. Our response is as follows:

Query No	Reference to the Bid Document	Description of Queries	DHM /BRCH Clarification
1		<p><i>Is there any detailed information about present situation of site stations? Is there evaluation report about the 88 stations?</i></p>	<p><b>Refer Addendum-1(iv)</b> For bid purposes detailed information is given in Table 3a, which is now distributed also in Excel form to bidders to allow for planning delivery and installation. Information on availability of mains AC power and mobile operators is also provided.</p>
2	<p><b>Section VII Schedule of Requirements, 1.Description of Overall System, List of Goods and Delivery Schedule, Heading-1.2,General Description of the Object of Bidding Sub-Heading-5, Automated Weather Observing System for Aviation (Page-72) para-2(3rd row): "Digital PLMN operators in Nepal are NTC, NCEL and SKY." (Page-72)</b></p>	<p><i>Who supplied the communication equipment for them? And is there any detailed information about the style of network, GSM or CDMA?</i></p>	<p><b>Refer Addendum-1(iv)</b> (a) Table 3a (see Appendix to this clarification) is amended to include best available estimate of the operators providing ample mobile connectivity at station sites. (b) Preference is to use 3G with capability for both GSM &amp; CDMA. (c) Supplier is required to provide Modems with capacity to carry two SIM cards and with preference having automated switching between two operators according to better connectivity. (d) DHM will facilitate to supplier to establish the accounts in the name of DHM with local telecommunication and to purchase SIM cards. DHM will pay the running cost of communication after commissioning the stations and will maintain the accounts. (e) DHM has experience in the Iridium satellite system. This technology is preferred at stations indicated to require satellite connection. (f) DHM will facilitate to establish the account in the name of DHM with satellite operator and DHM will pay the running cost of communication after commissioning the stations and will maintain the accounts.</p>

*Sanaju*



3	<p>Section VII Schedule of Requirements, 1. Description of Overall System, List of Goods and Delivery Schedule, Heading- 1.3. Delivery and Installation of Stations: "Supply, delivery.....sub-contractors are allowed." (Page-73)</p>	<p>Initially five radio link point-to-point systems (not listed in Table 3a) will be acquired as part of priority stations to be used at appropriate sites found appearing to be in a blind spot, under the cellular network identifiable at the time of station installation.</p> <p>Does it mean that we should provide five radio link point-to-point systems? Or could it be replaced by five satellite stations?</p> <p>Who pays for the communicating cost of PLMN and/or satellite communication? And shall we quote and supply for the receiver of satellites communication at DHM?</p>	<p>(a) The supplier is required to quote and provide initially 5 radio link systems to be used at any station site where the link can allow for or improve connectivity. Additional radio link systems will be acquired as necessary.</p> <p>(b) Routers to receive the data via GSM/CDMA or satellite will be provided by DHM as part of the DHM ITC system. (c) DHM will facilitate to supplier to establish the accounts in the name of DHM with local telecommunication &amp; satellite operator; and to purchase SIM cards. DHM will pay the running cost of communication after commissioning the stations and will maintain the accounts.</p> <p>(d) DHM has experience in Iridium satellite system. So this technology is preferred at stations indicated to require satellite connection.</p>
4	<p>Section VII Schedule of Requirements, 1. Description of Overall System, List of Goods and Delivery Schedule, Heading- 1.3. Delivery and Installation of Stations, "Table-3a: Detailed List of Automatic.....option for heating (Page-74)</p>	<p>What is the meaning of <b>LANDLINE AVAILABLE, LOCAL DISPLAY and EXISTING MAINS in table 3a</b> ?</p> <p>(a) <b>LANDLINE AVAILABLE:</b> Does it mean transport line (road) or network line (phone line or internet line)?</p> <p>(b) <b>LOCAL DISPLAY:</b> Does it mean local display of weather data of local station? What is the exact way of display –requirement of hardware (computer and monitor) and software are not defined? Please give detailed description about requirements of LOCAL DISPLAY.</p> <p>(c) <b>EXISTING MAINS:</b> Does it mean there are already station existed?</p>	<p>a) Land line: Network line</p> <p>b) Local display: Software and standard 20" display to show real-time data measured by the station.</p> <p>C) Existing mains: AC electricity supply available at the installation site</p>
5	<p>Section VII Schedule of Requirements, 3. Technical Specifications, Heading- 3.2. General Technical Requirements, Sub-Heading-3.2.3 "The equipment shall support various.....TCP/IP protocol" (Page-103)</p>	<p>a) In table 3a, digital PLMA modem and satellite modem are required; but in 3.2.3, it is required that the equipment shall support various kind of communication equipment, including, but not limited to modems, satellite, radio, cellular phone and TCP/IP-protocol.</p> <p>b) The requirements of communication equipment are different in table 3a and 3.2.3. How to understand it?</p>	<p>a) The requirement in sub-heading 3.2.3 means that the AWS-DCP can be connected with various kinds of communication equipment mentioned above.</p> <p>b) In Table 3a (Refer Addendum-1(iv)) we give specific information of the preferred communication method to be used at each site.</p>

*[Handwritten signature]*

*Saraju*