Government of India
Central Water Commission
Upper Brahmaputra Division

Phone/Fax: 0373- 2314398, 2313905
E-Mail:ubddbrcwc@gmail.com/ *ubd-cwc-asm@nic.in*

Jibon Phukan Nagar
P.O: C.R.Building
Dibrugarh – 786003, Assam

No-04/01/NIT/2016-UBD/ 3172-82 Date- 11.11.2016

Sub: - Summary Record of pre-bid conference held on 09/11/2016 in the office of Superintending Engineer, H. O. Circle, CWC, Guwahati and clarifications/ replies to the written queries received from the prospective bidders regarding e-Tender for "Supply, Installation, Testing, Commissioning and Maintenance of real – time data acquisition network at 37 nos. water level & meteorological stations (WL & MS) in BRAHMAPUTRA & BARAK river basins in the states of Sikkim, West Bengal, Assam, Arunachal Pradesh, Nagaland, Meghalaya & Tripura"

Sir,

Please find enclosed the summary record of pre-bid conference held in the office of Superintending Engineer, H. O. Circle, CWC, Guwahati on 09/11/2016 and clarifications /replies to the written queries received from the prospective bidders regarding e-Tender for "Supply, Installation, Testing, Commissioning and Maintenance of real – time data acquisition network at 37 nos. water level & meteorological stations (WL & MS) in BRAHMAPUTRA & BARAK river basins". The minutes of the Pre-bid meeting has also been uploaded in Tender section of CWC website (http://www.cwc.nic.in).

This issue with the approval of S.E, HOC, CWC, Guwahati

Encl: - As above

11.11.2016
Executive Engineer

To-
1) M/S ASTRA Microwave Products Limited, ASTRA tower, Survey No-12(P), Kothaguda Post-Kindapur High-tech city, Hyderabad, Telangana-500084 (E-mail-info@astramwp.com)
2) M/S Sutron Hydromet Systems Pvt. Ltd. D-128-129, 1st Floor, Enterprise, Okhla Industrial Area, Phase-I, New Delhi-110 020 (Email-india@sutron.com)

Copy to-
1) The Chief Engineer, B&BBO, CWC, Shillong
2) The Director, RMCD, CWC, New Delhi
3) The Director, FFM, CWC, New Delhi
4) The Superintending Engineer (Coord), B&BBO, CWC, Shillong
5) The Superintending Engineer, H. O. Circle, CWC, Guwahati
6) Executive Engineer, M. B. Division, CWC, Guwahati
7) Executive engineer, L. B. Division, CWC, Jalpaiguri
8) E-portal/CWC web site/TCIL web site
9) Notice Board, UBD, CWC, Dibrugarh

Summary Record of pre-bid conference on clarifications/ replies to the written queries received from the prospective bidders regarding e-Tender for "Supply, Installation, Testing, Commissioning and Maintenance of real – time data acquisition network at 37 nos. water level & meteorological stations (WL & MS) in BRAHMAPUTRA & BARAK river basins in the states of Sikkim, West Bengal, Assam, Arunachal Pradesh, Nagaland, Meghalaya & Tripura"

The pre-bid meeting of Tender for supply, installation, testing, commissioning and maintenance of real – time data acquisition network at 37 nos. water level & meteorological stations (WL & MS) under B&BBO, CWC, Shillong was held on 09/11/2016 in the office of Superintending Engineer, H. O. Circle, CWC, Guwahati. The list of participants who attended the meeting is enclosed at **Annexure-I**. The written queries on the tender document were received from following two bidders: -

1. M/S Sutron Hydromet Systems Pvt. Ltd.
2. M/S ASTRA Microwave Products Limited

The reply to the queries are summarised as under:

Sl No	Tender Page No.	Tender Clause No.	Regarding	Queries	Clarifications
M/S ASTRA Microwave Products Limited					
1				Who will be responsible for the WPC License fee?	Payment of WPC license fee is not in the scope of vendor and shall be borne by the purchaser
2				Please provide us the maximum length of orifice tube which will be integrated with bubbler type water level sensors.	Length should not be more than 250m.
3				Page-63. Data logger should have Display screen to view instant data in data logger and external display required.	Required as per Tender document
4				Page-37. Schedule of Quantities	Schedule of quantities in Page-46 instead of Page-37
				1) Total 37 (30 WL&MS)(2 MS-RF)	Total nos of station is 37 (thirty seven) which includes (i) 30WL&MS
				2) Total 2 MS-RF	
				As per Financial Bid format	
				1) Total 32 (30 WL&MS)(2 MS-RF)	(i) Total 37 stations. (ii) Table-2 Sl No-2 is break up of up gradation of existing RF to WL station only.
				2) Total: 5WL	
				Please clarify	
				1) Total No. of station and Break up?	
				a) Total Bubbler level and Rain fall station	10 out of 37
				b) Total Radar water level and Rain fall station	20 out of 37
				c) Total Bubbler level stations	5 up gradation of existing Meteorological [MS] site to Water level & Meteorological site [WL & MS] as per definition given in Para-2.1 of Page-52 of TD
				d) Total Rain fall stations	2 Meteorological [MS]
				e) Total Fencing stations	Out of 37 stations, 3 stations will require RCC tower, 27 stations will require Hutment and fencing will be required at 30 stations only.
5				GSM based transmission systems in real time basis. Required additional server/PC for all modeling centers. CWC will provide additional server/PC for all modeling centers.	As per Tender document

Sl No	Tender Page No.	Tender Clause No.	Regarding	Queries	Clarifications
6				GSM based transmission systems in real time basis to the central server/PC required static IP. CWC will provide Static IP for all modeling centers.	As per Tender document
7				GSM/GPRS monthly recurring charges. Who will pay?	As per Tender document
8				Kindly extend the due date for submission of Bid from 9th Nov. 2016 to 21st Nov. 2016 as we need to submit the tender document fee demand draft and submit the e-tender as per the NIT guidelines.	As per corrigendum of dated-01.11.16
M/S Sutron Hydromet Systems Pvt. Ltd.					
	1,46,47, 48	Tender Title, Schedule of quantities Table 1 & Table 2 and Financial Bid format	Type of stations and quantity.	From the Project title, it seems that there are total 37 stations where as from schedule of quantities at page 46 it seems there are 39 stations. From number of Concrete Tower/Mast/Building installation, the quantity is 33. Kindly clarify the type and number of each station.	Total nos of station is 37 (thirty seven) which includes (i) 30 stations WL&MS (ii) 2 stations MS and (iii) 5 stations Water level only, as per definition in Para-2.1 and 2.2 Page 62. Out of 37 stations, bubbler water level and Rain fall will be at 10 stations, Radar water level and Rain fall at 20 stations. Bubbler water level at 5 existing Meteorological [MS] stations and Rain fall at 2 stations. Meteorological(Rainfall). Out of 37 stations, 3 stations will require RCC tower, 27 stations will require Hutment and fencing will be required at 30 stations only.
	3	Notice Inviting Tender	Qualification	Qualification criteria do not seems to provide recognize for the system that is running for more than 7 years. We therefore request you to kindly increase the number of year of experience to 15 years so that CWC can get proposals from field proven service provider so that the system life can be prolong for more than the 7 years that is being envisage.	As per Tender document
	22-23	Scope of Work Point X	VSAT Link	Here it is mentioned that in addition to the VSAT Link at CWC Dibrugarh, CWC Guwahati, CWC Jalpaiguri and FFM directorate, data from ERS is to be transmitted to three concerned State Government for monitoring of live storage in 3 reservoirs. Kindly clarify this requirement of transferring to 3 locations. Where is it located? Who will be responsible for data transmission and what type of communication mode is available at this three locations.	The supplied system should be compatible with existing modeling centre hardware/software and it should transmit data seamlessly to the modeling centres

Sl No	Tender Page No.	Tender Clause No.	Regarding	Queries	Clarifications
	33 & 42	14.11.4 & Annexure I(1)	Mandatory Visit	We understand that the visit mentioned here is for Water Level Stations only. The visit to WL station every month is not required as during non monsoon most of the water level station does not have water level up to the bubbler termination. Also telemetry data can be compared with manual data at the modeling center and if there is a mismatch beyond excepted accuracy, our engineer will visit that particular station. Kindly clarify.	As per TD. Visit is not limited to WL stations only. Regarding monsoon/non monsoon please refer also Sl No-(j) at Page-42 of TD.
	33 & 42	14.11.5 Annexure I (m)	Dismantling and Reinstallation	Visit of engineer for dismantling and reinstallation is a cost so we request that the free dismantling and reinstallation service should be restricted to once per site for the duration of the project for 7 years. Kindly clarify.	As per TD
	46	Schedule of quantities Table 1, Point 3(b)	Number of Mast installations (For radar sensor installation)	Here it is mention Radar Water Level Sensor but there is no specifications of Radar in the tender document. Kindly clarify whether Radar Water Level Sensor is required or not? If required what is the quantity? Kindly clarify the type and number of each station.	Yes, 20 nos Radar Water level sensor are required. The specification of radar WL sensor required is available at **Annexure-II**
	49	Table B	Details of Spares and Consumables	Here Spare transmitter asked is 32 which is very high. Kindly clarify the quantity.	Accepted. Only 4 nos spare transmitter instead of 32 will be required
	50	1	General, Para 2	We understand that CWC already has a ERS and modeling center in Bhubaneswar and FFM Directorate, New Delhi with respective VSAT connectivity so the hardware/software for data reception and data transfer between ERS and all the modeling center is not under the scope of this tender. Kindly clarify.	New installation must be compatible to the existing VSAT arrangement installed.
	56	4.3	Bubbler Specifications	The range mention is 15 PSI or 30 PSI. Kindly clarify how many Bubbler should be of 15 PSI and how many should be of 30 PSI as we can reduce the cost by proposing appropriate range bubbler.	15 PSI-10 nos and 30 PSI -7 nos. Rate of 15 PSI & 30 PSI equipment may also be indicated seperately.
	56	4.3	Bubbler Specifications	The Purge should be automatic as blockage may happen anytime and the bubbler system should be able to detect the blockage automatically and does not have to rely on human intervention for purging the bubbler line. Kindly confirm.	If purge does not clear automatically a plugged orifice tube then purge pressure will be applied manually
	56	4.3	Bubbler Tube	For all the bidders to be on par, kindly provide the bubbler tube length required at each station?	Length should not be more than 250m.

Sl No	Tender Page No.	Tender Clause No.	Regarding	Queries	Clarifications
	57	5.1.2	Alarm	Instantaneous Alarm reporting needs RANDOM transmission mode of burst, which is normally not followed as all remote station uses Self Time transmission mode. RANDOM transmission needs ISRO/IMD permission. Alternatively, the alarm can be generated by data decoding software at ERS on the basis of threshold/ limit/ data value. This will remove the requirement of RANDOM transmission. Kindly confirm	Alarm can be reported locally in the next schedule transmission cycle immediately after the failure instead of RANDOM
	59	5.2.1	GSM/GPRS Modem	Kindly clarify who is responsible for issuing the SIM card and its recurring charges?	As per Tender document
	59	5.2.1	GSM/GPRS Modem	CWC has asked for dual telemetry of Satellite and cellular. Is the modem for only SMS message to mobile number or real time data reception at ERS in addition to satellite communication? Kindly clarify.	As per Tender document
	59	5.2.1	GSM/GPRS Modem	If GPRS telemetry is required, Is the available software with CWC capable of receiving the GPRS data also? If not does bidder needs to quote for separate software for receiving the GPRS data? How the satellite data and GPRS data are are to be integrated? Who is responsible for the integration of these two sets of data? Kindly clarify.	As per Tender document
	59	5.2.1	GSM/GPRS Modem	For receiving GPRS Data, a PUBLIC STATIC IP BROADBAND INTERNET connection is required? Kindly clarify is responsible for providing the internet connection and its recurring charges?	As per Tender document
	63	5.2.3	Display	CWC has asked for display inbuilt in data logger and also asked for option for external display. As all the telemetry stations will be installed at remote site, this requirement of option for external display is not understandable. Kindly clarify if this option is required or not.	Required as per Tender document
	70	6.2	Backup Days	Here the backup days mentioned is 60 days which is too long for DC power system as battery for this backup will be big dimension. Normally a back up days of 30 days is considered for remote stations. Kindly clarify	Battery pack should have adequate capacity to sustain maximum sized DCU configuration of sensors and telemetry equipment for a period of 30 days of continuous operation

Sl No	Tender Page No.	Tender Clause No.	Regarding	Queries	Clarifications
	70	6.2	AC charging option	Since all Telemetry stations are located remotely and using battery for operation do we need to provide option for AC charging as most of the location AC power is not available all the time. Kindly clarify.	As per Tender document
	70	6.2	Battery pack alarm	Audio and visual alarm are usually for Battery banks and not for single battery. Moreover since battery value will be transmitted along with Hydro-Meteorological data, the battery status can always be monitored and necessary action be taken when required. Kindly clarify.	As per Tender document
			Payment	Payment should not be on hold for any delay in installation and commission due to the non clearance of site from CWC. And site should be accepted on Pro rata basis. Kindly confirm.	The Payment of 55% of contract price excluding AMC charges can be made on pro rata basis for sites accepted after commissioning
			Site damage/Site shifting	Any site damaged by vandalism or theft of site as well as site shifting of stations shall not be in the scope of tender. Kindly clarify.	Site damage by vandalism or theft after successful acceptance of site, will be treated as Force Majeure conditions as per Force Majeure conditions mentioned in Tender document. However, in case of shifting of entire site after acceptance/commissioning the scope of contractor would be limited to dismantling and re-installation of equipments

Annexure-I

List of participants for pre-bid meeting for installation of 37 telemetry stations under B&BBO, CWC, Shillong

Sl. No.	Name	Designation	Contact No./Email
1.	Shri Asit Chaturvedi	Superintending Engineer	hocguwahati@yahoo.com
2.	Dipul Kumar Nath	Technical Engineer (AWS)	deepjyoti762@gmail.com
3.	V. Gangadhar	Executive Engineer, MBD, CWC, Guwahati	7035663144
4.	A. Chakraborty	Executive Engineer, UBD, CWC, Dibrugarh	9435593062
5.	Jeeta Ram	Assistant Executive Engineer, HOC, CWC, Guwahati	7086390024
6.	Ankit Sahay	Assistant Executive Engineer, HOC, CWC, Guwahati	9864122287
7.	Ravi Shankar Singh	Junior Engineer, HOC, CWC, Guwahati	7663014141

Annexure-II

FUNCTIONAL REQUIREMENT: To measure the water level

DESIGN REQUIREMENTS: The equipment offered should conform to the following technical Specifications:

Feature	Value
Site Conditions	
Ambient Temperature	-20℃ to +60℃
Humidity	0 to 100 %
Altitude	0 to 2500 meter
Sensor	
Sensor Type	Microwave non-contact sensor
Range	15M / 20M/35M/75M
Resolution	3 mm or better
Accuracy	0.02 % FSO
Beam Angle:	≤ 16 °
Output Interface	SDI-12 / RS 485 / 4-20 mA / compatible with data logger
Power Supply	10-15 V DC
General Features	
Material	Corrosion Resistance Metal (Stainless steel / Aluminum or PVC)
Enclosure	The Sensor shall be easy to dismount and replace in the event of malfunction.
Tools	Complete tool kit for operation and routine maintenance
Manuals	Full Documentation and maintenance manual in English
Accessories	Sensor Mounting support, cables and other accessories as required
Protection	NEMA 4 or IP65
Horizontal Mounting /Installation Arrangements	Above FRL, Below a bridge girder wherever available otherwise horizontal cantilever arrangement from a mast/wall/pedestal
Radar Sensor should have display feature for diagnostic purpose	