

GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION
RIVER DATA DIRECTORATE

2nd Floor, Wing-4, West Block-1,
R.K. Puram, New Delhi-110066

No. 4/29/2016-RDD/

Dated: 31.10.2016

NATIONAL HYDROLOGY PROJECT
INVITATION FOR PROPOSALS (IFP)

**Minutes of the Pre-bid conference for empanelment of Hydro-
meteorological and water quality equipment held on 17th October, 2016
at 11:00 Hrs. at Conference Hall, 3rd Floor, Sewa Bhawan, R.K.Puam,
New Delhi-110066 (india)**

The Invitation for Proposal (IFP) for the empanelment of Hydro-meteorological and water quality equipment was published on 28.09.2016. The Pre-bid meeting was held with the Prospective Bidder on October 17, 2016 in the Conference Hall of Central Water Commission, Sewa Bhawan, New Delhi (India). The representatives of the following Bidders along with their associated firm's representatives attended the meeting.

The list of the participants is enclosed in Annexure –I

The Chief Engineer, Planning & Development, Central Water Commission, New Delhi welcomed all the Prospective Bidders or their representatives who attended the pre bid meeting. He clarified that the efforts will be made to give immediate clarifications, but any clarifications of question requiring amendment to IFP documents will be issued later on in writing. He further requested to the participants to present their questions regarding the IFP document. All the Bidders and their representative were given opportunity and sufficient time to raise their questions seeking clarifications. The details of the questions and clarifications are as appended in Annexure II.

The conference ended with vote of thanks to the chair and all the participants.

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Central Water Commission, New Delhi
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List of participants/Bidders or their representatives who have attended the Pre-bid meeting for the empanelment of Hydro-meteorological and water quality equipment held on October 17, 2016 in the Conference Hall of Central Water Commission, Sewa Bhawan, New Delhi (India).

Client's Representative:

1. Mr. M.P. Singh, Chief Engineer, P& D, CWC, New Delhi.
2. Mr. V.D. Roy, Director, FFM, CWC, New Delhi.
3. Mr. N.K. Manglik, Sr. Joint Commissioner-II (NHP), MoWR, RD & GR, New Delhi.
4. Mr. Deepak Kumar, Sr. Joint Commissioner-I (NHP), MoWR, RD & GR, New Delhi.
5. Mr. R.M. Bhardwaj, Scientist 'E', CGWB, New Delhi
6. Mr. S. Suresh, Scientist 'D', CGWB, New Delhi
7. Mr. Suresh Chand, Scientist E, IMD, New Delhi
8. Ms. Surinder Kaur, DDGM(H), IMD, New Delhi
9. Mr. Rajesh Kumar, Director, RDD, CWC, New Delhi.
10. Mr. A.K. Mittal, Dy. Director, RDD, CWC, New Delhi.
11. Mr. Altaf Hussain, Asst. Director, CWC, New Delhi.
12. Mr. V.K. Singhal, AD-II, RDD, CWC, New Delhi.

Prospective Bidders or their representatives:

1. Mr. Kaushal Sarda, Manager, M.S.P.L., Pune.
2. Mr. Mohit Arora, Sales Head, BIPS
3. Mr. Sumit Dane, Firmware Manager, KAL
4. Mr. Sachin Gupta, Engg., Xylem Analytics
5. Mr. Sham Chaudhari, Director, Xylem Analytics
6. Mr. Rajiv Bhatia, Manager, Xylem Analytics
7. Mr. Rajesh Chandra, Project Manager, SutronHydromet Systems Pvt.Ltd.
8. Mr. N.S. Samur, Technical Head, SutronHydromet Systems Pvt.Ltd.
9. Mr. Somesh Kumar, Sales, SutronHydromet Systems Pvt.Ltd.
10. Mr. Ranvir Soni, BDM, Meatech Solution, Gurgaon.
11. Mr. Puneet Srivastava, Project Manager, Info-Electronics Systems.
12. Mr. Pankaj Agrawal, Director, Stalworth Systems,
13. Mr. S.P. Kataria, Info-Electronics Systems.
14. Mr. Salil Malhotra, Manager Sales, Horizon Broadcast LLP.
15. Mr. Ashok Karwu, MD, Mechatronics System, Pune.
16. Mr. Pushpraj Shetty, Vice President, Canarys Automations Pvt Ltd.

Clarifications on the queries received from the prospective bidders

Sl. No.	Ref. to IFP documents	QUERY	CLARIFICATION
1.	General	<p>Since this is only a first call for manufacturer's product empanelment, without any commercials involved, it seems rather restrictive that international manufacturing companies have to submit their response for this through electronic tendering process that is through TCIL.</p> <p>International companies will require at least 60 days more than the current date for the submission to arrange for all the necessary documentation (Including Board resolutions) for such electronic bidding. We therefore request that considering most manufacturers are international companies, the process of submitting the response of this product empanelment be simplified by way of submitting a direct response to the tendering authority without having to go through e-tendering process.</p>	<p>As per the IT ACT 2000, all bidders who participate in the online bidding process in should possess a valid Digital Signature issued by any of the Digital Signature Certificate (DSC) vendors approved by CCA, India.</p> <p>As per guidelines the tendering process is online.</p> <p>Clause given in bid document is clear and prevails.</p> <p>Please see Addendum.</p>
2.	Section IV Form of Empanelment Para 1. Scope Page no. 35	<p>The Purchaser has entered into Empanelment's with one or more Suppliers for the same items in order to allow End implementing Agencies (EIAs)(acting on behalf of Purchaser) to award Purchase Order following the second stage competition under the Empanelment.</p> <p>Does this means that the Manufacturer can also introduce their products to empanel and the same products can also be introduced by the Dealers/Distributors or System Integrators for empanelment.</p>	<p>This IFP is for the empanelment of equipment only. So anybody OEM/ Dealers may introduce their products. It is not necessary to empanel same equipment more than once.</p> <p>Clause given in bid document is clear and prevails.</p>
3.	Section IV Form of Empanelment Para 1.Term Page no. 35	<p>This Empanelment shall be valid for a period of 3 year during the period commencing <i>[insert starting date]</i> and continuing through <i>[insert completion date]</i>, or any other period (maximum duration of the agreement shall not be more than 3 years) as may be subsequently agreed by the parties in writing. Understand that the empanelment shall be valid for a period of 3 years, what will be the criteria or terms</p>	<p>The empanelment is for 3 (three) years. The criteria or terms for renewing the validity period will be reviewed after 3 (three) years.</p> <p>Clause given in bid document is clear and prevails.</p>

Sl. No.	Ref. to IFP documents	QUERY	CLARIFICATION
		for renewing the validity period after expiry of 3 years.	
4.	Section I ITP Para 6.4 Page 18	<p>wherever applicable, the Goods to be supplied under the Empanelment shall be registered (if applicable) with the relevant authority in India. A Proposer who has already registered its Goods by the time of submission of Proposal should submit a copy of the Registration Certificate with its Proposal. Otherwise, the successful Proposer, by the time of signing of Empanelment, shall submit to the Purchaser a copy of the Registration Certificate of the Goods for use in India.</p> <p>What specific authority in India is relevant for registration of the goods required in the empanelment, Please clarify.</p>	<p>In India the manufacturing facility is registered along with the products. Also products are certified by IMD and / Or other agencies. Similarly in the manufacturers country there must be an authority which has given license or registered for manufacture.</p> <p>Clause given in bid document is clear and prevails.</p>
5.	General	<p>Warranty: Warranty specified is 5 Years for all the products please clarify more on the definition of warranty- Warranty means repair warranty or repair and replace. Is warranty also applicable on replacement of consumables such as batteries? Desiccant for bubbler?</p>	<p>Warranty means repair and replace excluding consumables which will be clearly stated and described in detail in second stage of Bid.</p> <p>Clause given in bid document is clear and prevails.</p>
6.	Section I ITP Para 17.5 Page 22	<p>The Proposer shall furnish, as part of its Proposal, a refundable empanelment fee of INR 5000/- per item.</p> <p>Please elaborate per Item- For example a manufacturer have two different models of Rain Gauge, Is empanelment fee of INR 5000/- applicable on "Rain Gauge" for both the models or INR 10000 is required for both the models of Rain Gauge.</p>	<p>The clause in the bid document mentions "a refundable empanelment fee of INR 5000/- per item". Proposer has to submit refundable empanelment fee of INR 5000/- for every items. For example if any proposer wants to empanel two different models of rain gauges of 0.2mm and 0.5 mm resolution, then he has to submit INR 10000/- .</p> <p>Clause given in bid document is clear and prevails.</p>
7.	Section I ITP Para 17.6 Page 22	<p>Empanelment fees shall remain valid for a period of 45 days beyond the validity period for the Proposal.</p> <p>The above clause is contradictory as the validity of the proposal asked in 120 days. In addition Demand drafts issued from Bank are also valid for 90 days, Demand</p>	<p>Proposer may submit FD hypothecated to the Purchaser in place of Demand Draft.</p> <p>Please refer to clause at S.No 2 of the addendum to the document.</p>

Sl. No.	Ref. to IFP documents	QUERY	CLARIFICATION
		Drafts cannot be valid beyond 90 days.	
8.	Section II Qualification Requirements Clause V Page 32	For qualification of particular item(s)/product(s), the proposer shall submit the testing and certification reports relevant to each equipment like IMD, ISRO, WMO, UL / CE Certification. The purchaser may, at its discretion, asks the proposer to submit a quality certificate from an independent laboratory for the item/product for its testing as per standard and after satisfactory testing at Testing Lab conforming to specification and requirement, the Item(s)/product(s) shall qualify for Empanelment. Please also confirm if USGS Test reports are also acceptable.	The agencies mentioned in the bid document are mentioned as example only. USGS Test reports would also be acceptable. Clause given in bid document is clear and prevails.
9.	Section V Technical Specification Item no. 1 Automatic Rain gauge Stations Page 41	Resolution of Tipping bucket Rain Gauge is generally used in India as 0.2mm, Please confirm if 0.5mm or 0.2mm resolution is required.	As mentioned in the specifications, resolution required is "0.5 mm or better", so 0.2 mm also qualify under that. Proposer may empanel both 0.2 mm and 0.5 mm resolution. Clause given in bid document is clear and prevails.
10.	Snow Depth Sensor Page 42	Sensor type whether Ultrasonic sensor or Laser	Both ultrasonic and laser based sensors would be acceptable and empanelled separately. Please refer to clause at S.No 5 of the addendum to the document.
11.	Section V Technical Specification Item no. 4 Shaft Encoder Page 43	Sensor Type-Shaft Encoder based rotary position sensor with Digital Display. It is not clear from the specifications if the shaft encoder required is "absolute" or "incremental" type.	Only "Incremental" type encoder is required. Please refer to clause at S.No 6 of the addendum to the document.
12.	Section V Technical Specification Item no.5 Radar	Range 15M / 20M/35M/75M Generally the Range of the Radar sensor are 20m, 40m and 70m.	Proposer may empanel Radar with the ranges 15/20/35/40/70/75 m available to them with all the accessories. The empanelment will be done

Sl. No.	Ref. to IFP documents	QUERY	CLARIFICATION
	Page 43	<p>Beam angle of the Radar –Narrower or Wider beam angle?</p> <p>Installation- Most of the Radar sensors are IP65, but still its better if the Radar sensor is installed in a Nema-IV enclosure box made of fiber or steel. It is recommended that the Radar sensors should be enclosed in an enclosure.</p>	<p>for all ranges. Please refer to clause at S.No 7 of the addendum to the document.</p> <p>The beam angle of $\leq 16^\circ$ is mentioned in the specifications. Clause given in bid document is clear and prevails.</p> <p>The installation requirements would be specified in second stage bidding. Clause given in bid document is clear and prevails.</p>
13.	Section V Technical Specification Item no.7 Bubbler Page 45	Purge- Manual line purge. Purging should be automatic Purging and Manual purging	As mentioned in the specifications, Only Manual Purging is required. Clause given in bid document is clear and prevails.
14.	Item no. 11 Page 51	Data logger Location: If Data logger and transmission are integral parts of sensor, it should be located on top (near ground surface) instead of bottom	Please refer to clause at S.No 9 of the addendum to the document.
15.	Section V Technical Specification Item no. 12 ADCP Page 52	Positioning: capability to acquire position by bottom tracking or DGPS. Bottom tracking feature, electronic compass, wireless radio, internal memory of the ADCP.	Please refer to clause at S.No 10 of the addendum to the document.
16.	Section V Technical Specification Item no. 13 GSM/GPRS Modem Page 53	Please confirm if a Data logger with a built in GSM/ GPRS Modem can be proposed	Yes, it can be proposed. Please refer to paragraph 1 on page 70 of the bid document. Clause given in bid document is clear and prevails.
17.	Section V Technical Specification Item no.14 INSAT Radio Page 54	Please confirm if a Data logger with built in INSAT Transmitter can be proposed	Yes, it can be proposed. Please refer to paragraph 1 on page 70 of the bid document. Clause given in bid document is clear and prevails.

Sl. No.	Ref. to IFP documents	QUERY	CLARIFICATION
18.	Section V Technical Specification Item no.16B Data Logger for more than 2 Sensor Page 58	<p>The Specifications of the data logger specified in RFP are for a low end logger for one or two sensor and a high end logger for Weather station or multiple sensor applications.</p> <p>A mid-range data logger is not specified; please confirm if a mid-range logger can also be proposed for Hydrological Gauging stations with 1-2 or 4 sensors.</p> <p>Real-Time Clock GPS synchronized GPS synchronized clocks are required when INSAT Transmission is required, GPS is not required for sites where Data logger with GSM GPRS communication system will be used.</p>	<p>Mid-range data logger is not required as per our requirement.</p> <p>Specification of Data Logger for 1-2 Sensor and more than 2 Sensors are given in Item No. 16A and 16B separately.</p> <p>Clause given in bid document is clear and prevails.</p>
19.	Section V Technical Specification Item no.25 Water Quality Sondes Page 68	<p>Depth Sensor is specified as 60m, please also confirm the cable length required or it will be specified at the time of second stage bidding, for surface water applications, 10m depth sensor with 10m cable is sufficient for most of the applications.</p> <p>Turbidity Sensor- Range of the Turbidity sensor specified is 0-1000 NTU, For Indian River Conditions and especially in Monsoon season the sensor range should be at least 4000 NTU.</p>	<p>Cable length is considered in second stage of Bid.</p> <p>Turbidity sensor range (0-1000 NTU) is as per our requirement as on today. However, If needed higher range sensors may be included in subsequent revisions of the empanelment agreement</p> <p>Clause given in bid document is clear and prevails.</p>
20.	General	<p>Warranty required for all the products that are to be empanelled is 5 Years-Under Water Quality systems there are certain items that are consumables and have shelf life such as Ion Selective Electrodes, pH and ORP electrodes that have a limited shelf life, These electrodes and Solutions if not stored properly or if kept unused are still expired as they have a certain technology limitation.</p> <p>Most of the manufacturers provide 6 months or maximum 1 year warranty for electrodes. Similarly Buffer Solutions and Calibration solutions/chemicals have a certain period of shelf life.</p> <p>With the above- Warranty period for the Handheld meter, Cable and sensors can be 5 years, Price for the consumables can be freeze with the end customer and the customer can place the order later</p>	<p>Warranty requirement of the products is 5 years. However, the consumables would not be required to be warranted for 5 years. This would be clearly mentioned in second stage of bid, along with cost and life of consumables.</p> <p>Clause given in bid document is clear and prevails.</p>

Sl. No.	Ref. to IFP documents	QUERY	CLARIFICATION
		whenever required.	
21.	Section V Technical Specification Item no.1 Automatic Rain gauge Stations Page 41	Enclosure and Power supply is not relevant here as power will be either supplied from data logger or battery, Enclosure is for housing data logger. Similarly from other sensor specification, kindly remove Enclosure and Power supply wherever not required.	Enclosure: NEMA 4 is for housing Data Logger & other accessories and not for Rain Gauge. Please refer to clause at S.No 4 of the addendum to the document.
22.	Section V Technical Specification Item no.5 Radar Page 43	Option for diagnostic purpose from data logger should also be considered as access to radar will not be always possible. Moreover radar can be communicated with Laptop/ Data logger for configuration and diagnostic. Special attention to installation of Radar under Bridge, Cantilever that does not have pivot system for retracting. Existing specification may limit competition.	As per specifications, the display on Radar for diagnostic purpose is required. However, the Radar without display may be included in subsequent revisions of the empanelment agreement. Clause given in bid document is clear and prevails.
23.	Section V Technical Specification Item no. 8 Pressure Transducer Page 46	Accuracy of 0.02% FSO may kindly be revised to accuracy of 0.05% of reading to accommodate multiple OEM.	Pressure Transducer mentioned at Item No. 8 is for Surface Water. So there is no change in specifications Clause given in bid document is clear and prevails.
24.	Section V Technical Specification Item no.9 Automatic Weather Station Page 46	<u>Air Temperature:</u> Accuracy of 0.1° C for ENTIRE RANGE is very difficult to achieve. Normally 0.1° C is applicable at a particular temperature. Request you to kindly revise the specification. <u>WS/WD:</u> The resolution for wind direction can be revised from ±5° C to ±3°. <u>WS/WD:</u> The accuracy of 1% is very difficult to achieve. For meteorological application accuracy of 2% is available on most of the OEM sensor. <u>Air Pressure Sensor:</u> The lower range should be revised to 500 or 600 to accommodate installation at higher altitude.	Please refer to clause at S.No 8 of the addendum to the document.
25.	Section V Technical Specification Item no.10 Ground Water	There is no specification for the Barometric sensor. There must be a minimum specification of the same for making sure that Barometer sensor is accurate since the final accuracy depends	It is not required to specify the specification for barometric sensor, as specifications are already provided for overall accuracy, range and resolution of

Sl. No.	Ref. to IFP documents	QUERY	CLARIFICATION
	Level Recorder (DWLR) without vent tube Page 48	on both pressure and barometer sensor.	the whole system. Clause given in bid document is clear and prevails.
26.	Section V Technical Specification Item no.11 Ground Water Level Recorder (DWLR) with vent tube. Page 51	We request that option for interface at the bottom be also considered instead of data logger at top only.	Please refer to clause at S.No 9 of the addendum to the document.

ADDENDUM TO INVITATION FOR PROPOSAL (IFP No.: NHP/2016-RDD/01)

The empanelment of Hydro-meteorological and water quality equipment

S.No	Reference to Section and Para/Clause of IFP document	Original Para / Clause in IFP document issued	Para / Clause after Amendment
1	Para 16.1, Page 21	Proposals shall remain valid for the period of 120 days after the date of proposal submission specified in ITP Clause 21 i.e until : <u>11.03.2017</u>	Proposals shall remain valid for the period of 120 days after the date of proposal submission specified in ITP Clause 21 i.e until : <u>25.03.2017</u>
2	Section I ITP Para 17.7 a Page 22	a demand draft drawn in favour of the Purchaser;	a demand draft <u>/ FD</u> hypothecated in the name/ drawn in favour of the Purchaser;
3	Para 21.1, Page 24	Proposals must be submitted online only at TCIL website URL https://www.tcil-india-electronictender.com before <u>11.11.2016</u> upto 15:00 hrs.	Proposals must be submitted online only at TCIL website URL https://www.tcil-india-electronictender.com before <u>16.12.2016</u> upto 15:00 hrs.
4	Section V Technical Specification Item no.1 Automatic Rain gauge Stations Page 41	Enclosure: NEMA 4	Deleted
5	Section V Technical Specification Item no. 3 Snow Depth Sensor, Page 42	Sensor type: Ultrasonic sensor	Sensor type: <u>Ultrasonic sensor/ Laser based sensor</u>
6	Section V Technical Specification Item no. 4 Shaft Encoder Page 43	Shaft Encoder based rotary position sensor with Digital Display	Shaft Encoder based <u>incremental</u> rotary position sensor with Digital Display
7	Section V Technical Specification Item no.5 Radar Page 43	Range: 15M / 20M/35M/75M	Range: 15M / 20M / 35M / <u>40M / 70 M</u> / 75M
8	Section V Technical Specification Item no. 9 AWS Page 46	Air Temperature Accuracy within <u>± 0.1°C</u> in the entire working range Wind Speed Resolution: 0.1 m/s for Speed; <u>+5</u> degree for direction	Air Temperature accuracy within <u>± 0.2°C.</u> Wind speed resolution 0.1 m/s for speed and <u>±1</u> degree for direction

		<p>Wind Speed & Wind direction Accuracy: <u>Better than 1% full scale</u></p> <p>Air Pressure Sensor: Range <u>800 - 1200</u> hPa, Resolution : <u>± 0.01</u> hPa, Accuracy: <u>± 0.5</u> hPa</p>	<p>Wind Speed & Wind direction Accuracy: <u>± 0.5 m/s or better</u> Wind direction Accuracy: <u>± 5° or better</u></p> <p>Air Pressure Range: <u>600</u> - 1200 hPa, Resolution: <u>±0.1</u> hPa, Accuracy: <u>± 0.2</u> hPa or better</p>
9	Item no. 11 Page 51	Data logger Location: If Data logger and transmission are integral parts of sensor, <u>it should be located on top (near ground surface) instead of bottom</u>	Data logger Location: "If Data logger and transmission are integral parts of sensor, <u>an interface should be provided at top for data transfer, without the requirement of removing the whole instrument.</u> "
10	Section V Technical Specification Item no. 12 ADCP Page 52	Positioning: <u>Optional</u> capability to acquire position by bottom tracking or DGPS	Positioning: Capability to acquire position by bottom tracking. <u>Optional feature to acquire position by using DGPS.</u>

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