

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

**Technical Re-equipment of Hydrological Network and Special Equipment for  
Hydrological Stations  
(Supply, Delivery, Installation & Commissioning)**

(Contract ID No: PPCR/DHM/G/ICB-25)

**Addendum-1**

In accordance with the ITB Clause 8 of the Bid Document for the **Technical Re-equipment of Hydrological Network and Special Equipment for Hydrological Stations (Supply, Delivery, Installation and Commissioning)** against **Contract ID No: PPCR/DHM/G/ICB-25**, 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 24, 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 24, 2016*

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

- (iii) **In Section VII: Schedule of Requirements; 2. List of Related Services and Completion Schedule, in first para of Items-6 (Page 72) shall read as-**

<i>Service</i>	<i>Description of Service</i>	<i>Quantity</i>	<i>Final Completion Date(s) of Services(After signing of contract)</i>
<i>6</i>	<i>Maintenance and Technical Services: "All preventive and.....and technical services"</i>	<i>70 stations</i>	<i>"Order of installation for the 70 sites (30 sites within 12 months and the remaining 40 within 18 months)" Order of station installation will be decided by DHM.</i>

- (iv) **Section VII: Schedule of Requirements, Chapter-3. Technical specification, Annexure-2, Heading-2. Survey System, Sub-Heading-2.1 River Morphology Survey System, Item-(b-i) (Page-105) shall read as:**

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(i) **Total Station:**

Supply Total station with standard accessories having the following specifications:

Item no.	Description	Specifications
1	Magnification/Resolving power	30x / 2.5"to3"
2	Field of view angle	1° 30'
3	Angular measurement accuracy	1"
4	Distance measurement Reflector less	<b>2m to 500 m</b>
5	Distance measurement with single prism	1.5 to 3000 m
6	Distance Measurement accuracy Reflector less	(3+2 ppm x D) mm up to 200 m
7	Distance measurement Distance measurement accuracy with prism	(2+2ppm x D) mm
8	Dust and water protection	<b>IP56</b>
9	Power supply	Re chargeable with 36 hours back up time
10	Accessories:	Standard accessories with 2 Prism, Staff & Tripod

(v) **Section VII: Schedule of Requirements, Chapter 3. Technical specification, Annexure-2, Heading-2. Survey System, Sub-Heading-2.1 River Morphology Survey System, Item-(b-ii) Specification for Digital Auto Level Equipment and Accessories (Page-105) shall read as:**

(ii) Specifications for Auto Level Equipment and accessories

Item no.	Descriptions	Specifications
1	Telescope length	<b>185-220 mm</b>
2	Telescope Magnification	24X or higher
3	Telescope objective aperture	<b>30mm – 42mm</b>
4	Resolving power	3" or higher
5	Field of View	1o20' or higher
6	Minimum focus	<b>0.75m</b>
7	Focusing knob	2 speed
8	Sight	Peep sight/Gun sight
9	Accuracy for 1km double run With/without macrometer	2.0 mm or less
10	Compensator setting accuracy	0.3"- 0.5"

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11	Working range	+/- 15'
12	Circular level sensitivity	10 <sup>1</sup> /2 mm
13	Water resistance	<b>IP56</b>

(vi) **Section VII: Schedule of Requirements, Chapter 3. Technical specification, Annexure-2, Heading-2. Survey System, Sub-Heading-2.1 River Morphology Survey System, Item-(b-iii): "Real Time Kinematic GPS" in specification table item no, 16 and 17 has been added and item-10 (Page-106) shall read as:**

Item no.	Specifications	
10	Radios and GSM	1xGSM/GPRS 1xUHF 1xBluetooth
16	Output power of the external radio	35 Watt or higher
17	Keypad Type	Touch screen and hard keyboard

(vii) **Section VII: Schedule of Requirements, Chapter 3. Technical specification, Annexure-2, Heading-2. Survey System, Sub-Heading-2.1 River Morphology Survey System, Item-(b-iv): "Differential GPS" in specification table item no.1,3&11 (Page-107,108) shall read as:**

Item no.	Specifications	
1	Receiver Type	GNSSLI DGPS Receiver
3	Update Rate/Recording Interval	10Hz or higher
11	Channels	Min 120

(viii) **Section VII: Schedule of Requirements, Chapter 3. Technical specification, Annexure-2, Heading-2. Wading: Wading Rod (Page-93) shall read as:**

"Total length 2 m in 0.5 m sections graduations in cm, clearly visible different markings all 5 and 10cm. Figures indicating the fixing level every 10cm. Fully Stainless steel."

(ix) **Section VII: Schedule of Requirements, Chapter 3. Technical specification, Annexure-2, Heading-1. Introduction, Sub-Heading-1.2 Water Level Monitoring System, first sentence of para(i)(Page-95) shall read as:**

"The first one will involve identical equipment (Radar water level sensor (WL), data logger, solar panel, charging regulator and communication module), where the WL sensor is mounted on existing bridges or cantilevered horizontal beams and where the data logger, solar panel, power regulator, communication module will be housed as indicated in relevant Drawing (Page no.115), on the bank or shore near the monitoring site."

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(x) Section VII: Schedule of Requirements, Chapter 3. Technical specification, Annexure-2, Heading-2. Survey System, Sub-Heading-2.1 River Morphology Survey System-(b-vi), Differential GPS-"Wading Boots" (Page-108) has been deleted.

(xi) Section VII: Schedule of Requirements, Chapter 3. Technical specification, Annexure-2, Heading-2. Survey System, Sub-Heading-2.1 River Morphology Survey System-a. Bathymetric (Hydrographic) Survey Echo Sounder item no.2,5,6(Page-104) shall read as:

Item no.	Specifications	
2	Printer	Built in thermal printer or similar" – hence external printers are acceptable
5	Accuracy	+/-0.1% of depth value
6	Depth Range	'1.5m to 300m'

(xii) Section VII: Schedule of Requirements, Chapter 1. List of Goods and Delivery Schedule, Line Item no.1, under Sub-line item 1.3 v (Complete sounding.....as specified above) in 2<sup>nd</sup> column of row 2,3,4 (Page-67) shall read as:

Item no.	Description of Goods
2	Cable Length 25m± 2m
3	Cable Length 45m± 3m
4	Cable Length 65m± 4m

(xiii) Section VII: Schedule of Requirements, Chapter 3. Technical specification, Annexure-2, Detailed Technical Specifications, Heading-2. Survey System, Sub-Heading-2.1 River Morphology Survey System (b)-iv: "Differential GPS" item-3 of Specification "Update Rate/Recording Interval"(Page-107) shall read as:

Item no.	Specifications	
3	Update Rate/Recording Interval	10 Hz or higher

(xiv) Section VII: Schedule of Requirements, Chapter 3. Technical specification, Annexure-2 Detailed Technical Specification, Heading-1. Introduction, Sub-Heading-1.2 Water level Monitoring System-(f) Data Logger Specification item no. 4-Input/Output (Page-101) para-3 shall read as:

"RS232 or better"

Also add at the end as an additional item- "External USB port is also acceptable"

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