

ODISHA SPACE APPLICATIONS CENTRE (ORSAC)
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Unit-16, Bhubaneswar-751 023

CORRIGENDUM TO ORSAC TENDER NOTICE No.17/2017

Supply, Installation and Commissioning of GNSS Systems on buy back of existing Trimble R5 DGPS with compatible to RTK mode of the existing Trimble R4 DGPS, Total Station, Digital level & Laptop

The specification floated in the tender notice No.17/2017 (Schedule-B) has been modified. The last date of submission of Tender date and Opening of Technical bid date has been published in Tender No. 17/2017 has been modified as follows:

Last date of submission of bid	-	18.12.2017 by 1.00 P.M.
Date of opening of Technical Bids	-	18.12.2017 at 03.30 P.M.
Technical Evaluation except Item (4)	-	21.12.2017

For details, please visit <http://www.odisha.gov.in> or www.orsac.gov.in

Administrative-cum-Accounts Officer, ORSAC

1. Amendment request made by M/s Aimil Ltd

General Conditions			
i)	For Technical Bid		
f)	<i>Turnover of the supplier should not be less than 10 Crores the last 03 years</i>	<i>Turnover of the supplier should not be less than 10 Crores for each year for the last 03 years</i>	Tender specification unchanged
c)	Last Date of Submission of Tender : 11.12.2017	<i>To extend the submission date by 7 to 10 days</i>	Last Date of Submission of Tender:: 18.12.2017 Date of demonstration & Technical Evaluation : 21.12.2017

Technical specifications:

	Tender specification	Amendment Request	Remarks
A .GNSS Receivers (base and multiple rovers)			
b)	Channels : Minimum 220 Channels with Gagan enable	Channels : Minimum 400 Channels with Gagan enable	Tender specification unchanged
f)	GNSS tracking: - Capable to track L1,L2, L2C, L5 of GPS, - L1, L2 OF GLONASS - Galileo E1, E5A, E5B <input type="checkbox"/> Beidou B1, B2 <input type="checkbox"/> SBAS (QZSS,WASS,EGNOS,GAGAN)	GNSS tracking: - Capable to track L1,L2, L2C, L5 of GPS, - L1, L2, L3 OF GLONASS <input type="checkbox"/> Beidou B1, B2 <input type="checkbox"/> SBAS (QZSS , WASS, EGNOS, GAGAN)	Tender specification unchanged
h)	Memory: Memory should be internal /removable of minimum 4GB	Memory - Memory should be Internal / removable of minimum 4GB either in RECEIVER or In CONTROLLER 4GB or More	Memory - Memory should be Internal / removable of minimum 4GB either in RECEIVER or In CONTROLLER
B . External Controller			
d)	Functionality	Controller should have inbuilt GPS	Tender specification unchanged
C. General & Environmental (Specification for receivers)			
a)	Operating Temperature for all major components including GNSS Receiver, antenna and controller: -40°C to +65°C.	Operating Temperature for all major components including GNSS Receiver, antenna and controller: -40°C to +65°C. & for Controller-30°C to +60°C	Operating Temperature for all major components including GNSS Receiver, antenna and controller: -30°C to +60°C.
b)	Storage Temperature for all major components including GNSS Receiver, antenna and controller: -40°C to +75°C.	Storage Temperature for all major components including GNSS Receiver, antenna and controller: -40°C to +75°C. & for Controller-40°C to +70°C.	Storage Temperature for all major components including GNSS Receiver, antenna and controller: -30°C to +60°C.

Total Station			
a)	<i>Auto lock Mode:</i> Distance measurement Range Up to 800 m or more	<i>Auto lock Mode:</i> Distance measurement Range Up to 600 m or more	<i>Auto lock Mode:</i> Distance measurement Range Up to 600 m or more
b)	<i>Drives:</i> Rotation speed 45 degree/sec or more	<i>Drives:</i> Rotation speed 100 degree/sec or more	Tender specification unchanged
c)	<i>Environmental Endurance :</i> Dust and water proofing IP 55 or better	<i>Environmental Endurance :</i> Dust and water proofing IP 65 or better	Tender specification unchanged

Digital Level			
a)	Invar Stave - 3 meter (02)	Invar Stave - 2 meter (02)	Invar Stave - 2 meter (02)

2. Amendment request made by M/s Elcome Technologies Pvt Ltd

GNSS Systems:

SL No	Tender specification	Amendment Request	REMARKS
1	GNSS Systems: Against buy back of existing Trimble R5 DGPS with compatible to RTK mode of the existing Trimble R4 DGPS	The new system should be compatible to existing Trimble R4 System in static mode instead of RTK mode and to pick up L1 bid excluding buy back price. To pick L1 bid excluding Buy back	GNSS Systems: Against buy back of existing Trimble R5 DGPS with compatible to Static/RTK mode of the existing Trimble R4 DGPS Tender specification unchanged
2	GNSS tracking: - Capable to track L1,L2, L2C, L5 of GPS, - L1, L2 OF GLONASS - Galileo E1, E5A, E5B <input type="checkbox"/> Beidou B1, B2 <input type="checkbox"/> SBAS (QZSS,WASS,EGNOS,GAGAN))	GLONASS L3 to be added	Tender specification unchanged

TOTAL STATION

Sl no	Technical specs as per Tender	Request for Amendment in technical specs	remarks
1	Shortest Measurement Range 0.8 M or better	Shortest Measurement Range 1.0 M to 2.0 M	Shortest Measurement Range 1.0 M to 2.0 M
2	Shortest search distance 0.2m	Shortest search distance 1.0 M to 2.0 M	Shortest search distance 1.0 M to 2.0 M
3	Shortest focusing distance 1.0m to 2.0 m	Shortest focusing distance 1.0m to 2.0 m	Tender Specification unchanged

DIGITAL LEVEL:

SL No	Technical Specification as per the Tender	Request for Amendment in the Technical	Remarks
	Measuring Range : 1.5 to 100 meters or better	Measuring Range : 1.8 to 100 meters or better	Measuring Range : 1.8 to 100 meters or better
	Tilt/Inclination Range : \pm 15' or better	Tilt/Inclination Range : \pm 10' or better	Tilt/Inclination Range : \pm 10' or better

3. Technical amendment request made by Geo-Systems & Softwares

Item no	Item name	Tender specification	General / suggested specification	remarks
1	GNSS SYSTEM			
AT POINT B	External controller: (c) keypad	Full Alphanumeric hard QWERTY Keyboard.	Suggested Alphanumeric hard keypad with QWERTY function on touch screen.	Tender specification unchanged
AT POINT D	General & Environmental specification for receivers	Operating Temperature for all major components including GNSS Receiver, antenna and controller: -40°C to +65°C.	The operating temperature for receivers □40°C to +65°C and for Controller -30°C to +60°C.	Operating Temperature for all major components including GNSS Receiver, antenna and controller: -30°C to +60°C.
		C) Humidity: 100% condensing	Humidity: 100% condensing for Receiver and 95% for controller	Humidity: 95 % condensing for Receiver & controller
		e) Water/Dust proof : compliance to IP 67 or better	Water/Dust proof : compliance to IP 67 or better for Receiver and IP 65 or better for controller	Tender specification unchanged
AT POINT F	Standard Battery set and Charging Equipment	Standard hot swappable battery or batteries to be capable of operating the receiver for at least 10 hours	kindly clarify if each battery should work for 10 hours or the total batteries operating time should be 10 hours or more. Also clarify if in the static or in the RTK mode	Tender specification unchanged. Depending upon nature of survey , it may be for both static / RTK mode.However, for longer hour static survey, external battery is required.
AT POINT No H & L	Communication	At Point No.H you have mentioned : Suitable ports to connect through Radio Modem. Integrated, UHF 2W Modem. Integrated, UHF 2W Option for RTK correction In both Base &	Both point no. H & L in regard to the internal Radio Modem are contradictory (whether 2 W or 0.5w Since 2W Integrated modem is only available in one or two brand, we suggest to make the integrated modem from 0.5W to 2W . this will make	Integrated Modem from 0.5 to 2W

		Receiver. Whereas At Point No. L.Rover The receiver Internal Receiver radio for radio should have facility for transmit and receive (Tx & Rx) option to work With RTK functionality. The Internal radio needs to be of 0.5W or higher	other leading brand to qualify as well. Once you are using External Radio modem in the base station , even a 0.5 or 1 W Internal Radio modem in the Rover can give 10-15 kms range for RTK application.	
AT POINT F		Data formats RTCM Version 2, RTCM 3.1, CMR+ input/output	Data formats suggested RTCM Version 2, RTCM 3 or higher, CMR+ Input/output	RTCM Version 2, RTCM 3 or higher, CMR+ Input/output

TOTAL STATION:

2	TOTAL STATION			
	Prism Mode	Shortest Measurement Range 0.8 M or better	Shortest Measurement Range 1.5 M or better	Shortest Measurement Range 1.0 M to 2.0 M
	<i>Auto lock Mode</i>	Shortest search distance 0.2m	Shortest search distance 1.5 M or better	Shortest search distance 1.0 M to 2.0 M
	Environmental Endurance	Humidity 100% Condensing	We suggest Humidity 95% or better because many brand like LEICA, GEOMAX , PENTAX, SOKKIA follow the 95% CONDENSING.	Humidity 95% Condensing

4. Amendment request made by Skipper technologies Pvt Ltd

Total Station			
a)	Least Count : 0.1"	0.5 " or better	0.5 " or better
b)	Auto lock Mode: Distance measurement Range Up to 800 m or more	Distance measurement Range Up to 600 m or more	Distance measurement Range Up to 600 m or more
C)	Audio: Integrated audio with warnings and notification	warnings and notification system should be provided	Tender specification unchanged.
	Power supply : Internal/External Li-ion battery with Battery check & operating time of at least 6 hrs on each battery	Internal/External Li-ion battery with Battery check & operating time of at least 4-6 hrs on each battery	Tender specification unchanged.

Digital Level			
a)	Measuring Range : 1.5 to 100 meters or better	1.6 to 100 meters or better	1.8 to 100 meters or better
b)	Precision in Height : Maximum Standard deviation for 1km better than .3mm.	Maximum Standard deviation for 1km better than .4mm or better	Tender specification unchanged
C)	Sensitivity of circular level : 8'/2mm or better	10'/2mm or better	Tender specification unchanged
D)	Environmental (Dust & Water Proofing) : IP55 or better	IP 54 or better	Tender specification unchanged
E)	Internal Memory for Data Storage :Upto 30000 data lines or higher, with additional External USB Flash Drive support.	Upto 2000 data lines or higher	Tender specification unchanged
	Display & Keyboard :Graphical 240 x 160 pixels, monochrome / colour with illumination, 19 key alpha-numeric & 4 way arrow key for navigation.	Monochrome /colour with illumination with 4 way arrow key for navigation.	Tender specification unchanged
	Power Supply : minimum operating time of 20 hours (each)	minimum operating time of 16 hours or more	Tender specification unchanged

List of Items (Trimble R5) for buy back		
SL.NO	ITEM	Qty (NO)
1	GNSS ZEPHYR GEO-MODEL-2	2
2	GNSS ZEPHYR MODEL-2	2
3	R5 RECEIVER	4
4	TSC2 CONTROLER	4
5	BATTERY FOR EXTERNAL RADIO	4
6	EXTERNAL BATTERY	2
7	RADIO HPB-450	2
8	RADIO ANTENNA	1
9	ZEPHYR ANTEENA CARRY CASE	2
10	EXTERNAL RADIO CARRY CASE	2
11	HAND BAG FOR CARRYING RECEIVER , CONTROLER & ANTEENA	2
12	RECEIVER CABLE-30 MT	2
13	RECEIVER CABLE-10MT	2
14	RECEIVER CABLE-2MT	7
15	CONTROLER CABLE	8
16	CHARGING CABLE FOR EACH ELECTRONIC DEVICES	2 SET
17	BATTERY CHARGER	3
18	TRIPOD STAND	2
19	TRIBARCH	3
20	RECEIVER BATTERY	8
21	POLE	1
22	ROVER BACK PACK	2
23	Y CABLE	2