

Minutes of Pre-bid Conference

Tender no.: OT-64/MNNIT/GIS CELL/3D Laser Scanner Unit; dated: 13.06.2014
 For : Procurement of 3D Laser Scanner Unit
 Date & time: 01.07.2014 at 11.30 Hrs.
 Venue: Conference Room, MNNIT (adjacent to Purchase Office)

The following participants attended the conference:

Representatives of MNNIT:

- 1) Chairman, GIS Cell
- 2) Prof. V. K. Srivastava
- 3) Mr. Ramji Dwivedi
- 4) Dy. Registrar (Accounts)
- 5) Faculty In-charge (Purchase)

Handwritten signatures:
 _____ *Ar Singh*
 _____ *Prof. V. K. Srivastava*
 _____ *Ramji Dwivedi*

Representatives of Prospective Bidder's:

- | Sl. No. | Name of Firm | Represented by |
|---------|------------------------------------------|----------------|
| 1. | M/s Elcome Technologies Pvt .Ltd. Mumbai | |
| 2. | M/s K. K. Geosystems Pvt. Ltd. Ahmedabad | |
| 3. | M/s Aimil Ltd. New Delhi | |

Opening Remarks

- (i) The Faculty In-charge (Purchase) had conducted the Pre-Bid Conference and at the beginning welcomed to everybody attending the Pre-Bid Conference for the aforesaid open tender.
- (ii) It was explained that purpose of Pre-Bid Conference is to explain the various important provisions of the bidding documents to the prospective bidders and to clarify any queries that the bidders may have in the subject bidding documents.
- (iii) The indenter discussed a brief description about the equipment, as per **Annexure-A, B & C** of the Tender document, before the audience.
- (iv) The members representing the bidders were asked to furnish their queries in written format so that the replies to the same can provided by the purchaser. Replies to the queries are presented in **Table-1**.
- (v) The Faculty-in-charge (Purchase) expressed his profound gratitude to the participants for their active involvement.
- (vi) The meeting ended with a vote of thanks to the chair.

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Table-1
Minutes of Pre-bid Conference
Tender No.: OT-64/MNNIT/GIS CELL/3D Laser Scanner Unit; dated: 13.06.2014

| S. No. | Firm | RFP Reference(s) (Section, Page) | Points in tender documents | Query for clarification/Bidder's suggested specifications/ Remarks | Resolution |
|--------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 1. | Elcome Technologies Pvt. Ltd; A-6, Infocity, Sector 34, Gurgaon- 122002 (Haryana) | Point no. (i) 3 of Tender's Technical Specification | Max. Measurement speed: 9,50,000 points/s or more | 1. Max Measurement speed 50,000 points/ sec or more Remark: No provider can provide 9,50,000 points/sec at a range of 300m except for one provider . Even with 50,000 points/sec the data quality and noise reduction is not compromised. | Max. Measurement speed: 9,50,000 points/s or more is required to meet the research needs. |

Handwritten signatures at the bottom:
Ramji Dwivedi *Ar Singh* *Prof. V. K. Srivastava*

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|--|--|------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Point no. (i) 5 of Tender's Technical Specification | In-built Digital Camera: 70 Megapixel parallax camera or better | 2. Inbuilt Camera Remark: Camera is meant to record color for the scans taken. The same can be done with a 4 MP camera as well. Also its not the MP value of a camera that determines its strength but it's the resolution | Amended as: 70 MP or better parallax-free Panoramic color overlay over the entire Point Clouds. Also scanner should have 3 MP or better capability for single shot image. |
| | | Point no. (i) 7 of Tender's Technical Specification | Vertical Field of view: 300° or better | 3. Vertical FOV 270° or better Remark: No provider can provide vertical FOV of 300° except for one provider | Amended as Vertical FOV 270° or better |
| | | Point no. (i) 10 of Tender's Technical Specification | Laser Class: Class1 | 4. Class 3 R or better Remark: Laser class 1 is for long range scanners where an invisible laser with near infrared wavelength shoots out. Mid-range and Short range scanners are classified with class 3R to Class 2R. This again is something that no other provider but one can provide with their Flagship instrument) | Laser class1 is eye-safe under all operating conditions. So even for short distance eye-safe laser is required |
| | | Point no. (i) 11 of Tender's Technical Specification | Data Storage: SD/SDHC/SDXC | 5. Inbuilt HD of Min 80GB or SD/SDHC/SDXC or USB Flash with external HD Remark: Internal Hard Drive shall help store the data in an event of loss due to SD/SDHC/SDXC corruption or misplacement. | Purpose of data storage is solved by SD/SDHC/SDXC |
| | | Point no. (i) 15 of Tender's Technical Specification | GPS: Integrated GPS Receiver | 6. Integrated GPS receiver optional Remark: No provider other than the ones with high end capabilities where the ranges are more than asked for have the integrated GPS solution. Thus for more uniform distribution the same can be made optional. If at all the GPS to be integrated then the accuracy mentioned should be 10mm in position with RTK capability. | Integrated GPS receiver is required for accurate time stamping the laser scans. |

Ranjit Diveda

Akshay S. Divasth

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| | | <p>Point no. (iv) 1 of Tender's Technical Specification</p> | <p>Light weight sturdy carbon fiber tripod, Survey Grade tripod, Tripod star, tribrach with optical plummet and other required accessories for mounting stability of scanner during the operation.</p> | <p>7. Wooden tripod Remark: Carbon Fiber tripods are not as sturdy for Robust applications and movements</p> | <p>Suggested point already comes within Survey Grade Tripod as mentioned in specification point no. (iv)1</p> |
| | | | | <p>8. Accuracy: Position 6mm or better Distance 4mm or better Remark: It has been observed that the specifications drafted do not mention the positional accuracy that the Hard ware should provide. It is thus suggested that accuracy be also considered. Without known accuracy of position or distance the whole purpose of buying the scanner stands defeated.</p> | <p>Specified in terms of ranging errors under point no. (i)4 in technical specification.</p> |
| | | | | <p>9. Ingress Protection Rating: IP 54 or better Remark: Ingress protection is used to specify the environmental specifications of an electrical/ electronic instrument which is rated as per its protection capability for dust and humidity</p> | <p>Additional point in the technical specification is added as point no. (i)17, i.e., Scanners should work in any kind of lighting and dusty environment and also should have Non-Condensing Humidity Control.</p> |

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