

Minutes of the meeting of the Pre-Bid Conference (PBC) held on 09.09.2026 for the proposed procurement of "Land Gravity Meter".**Members present:**

01. Dr. R. Vijayaraghavan, Member TSC & Acting Chairperson
02. Dr. Nimisha Vedanti, Member TSC
03. Dr. Abhey Ram Bansal, Member TSC
04. Dr. N Durga Prasad Korimilli, Against IO & Convener
05. Shri. Amol Eknath Meshram, Against IO & Convener

Stores & Purchase team provided necessary assistance.

The representative of the following firm attended the PBC

1. M/s Complete Instrumentation Solutions Private Limited, Gurgaon, Haryana (online)
2. M/s SOWAR Private Limited, Defence Colony, New Delhi (online)

The following points have been discussed during the PBC, and the response of the CSIR-NGRI to the queries raised by the bidders are as under-

Sl. No.	Point No. of tender Document	Query raised by the Bidder	Response of CSIR-NGRI
M/s Complete Instrumentation Solutions Private Limited, Gurgaon, Haryana.			
01.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 17: Display: User-friendly built-in widescreen LED/LCD display with backlight, clearly visible in bright daylight and at night, capable of alphanumeric display	Comments: The detachable wireless remote control with display can be used in both the versions- it can be mounted on the Gravimeter or can be used from a distance of 5-10 mts. Thus, this provides superior operational capability compared to a built-in display while maintaining the required measurement accuracy, resolution, repeatability, GPS integration, and data storage functionality. Requested Specification: "User-friendly built-in/detachable widescreen LED/LCD display with backlight, clearly visible in bright daylight"	Not acceptable. A single-unit meter with a built-in widescreen LED/LCD display is suitable for field surveys because it simplifies instrument operation. The instrument needs to be compact and portable for easy carrying in challenging field conditions. A single console avoids the need for a number of components to be carried and managed in the field, and also minimises the connectivity issues during the field observations. However, a detachable wireless remote-controlled display involves several operational limitations in field conditions, such as: A separate unit needs to be carried, which requires additional handling during field observation. Battery

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			dependency, Reliance on wireless communication may introduce connectivity-related issues during the measurement, data transfer, etc. Moreover, a separate display is additionally susceptible to being misplaced, damaged, or unavailable due to battery depletion.
02.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 18: Keypad: Keys embedded in the console's front panel	Comment: Remote operation enables complete instrument control, including start/stop measurement, station selection, parameter configuration, data storage, and project management without physical contact with the gravimeter. Requested Specification: This may be amended to "Keys embedded in the console's front panel or detachable key board"	Not acceptable. A single-unit meter with Keys embedded in the console's front panel is suitable for field surveys because it simplifies instrument operation. The instrument needs to be compact and portable for easy carrying in challenging field conditions. A single console avoids the need for a number of components to be carried and managed in the field, and also minimises the connectivity issues during the field observations. However, detachable keyboard involves several operational limitations in field conditions, such as: A separate unit needs to be carried, which requires additional handling during field observation. Battery dependency, Reliance on wireless communication may introduce connectivity-related issues during the measurement, data transfer, etc. Moreover, a separate display is additionally susceptible to being misplaced, damaged, or unavailable due to battery depletion.

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M/s SOWAR Private Limited, Defence Colony, New Delhi.			
03.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 10: Automated Realtime Correction: Built-in automated real-time corrections of Earth Tide, Instrument Tilt, Temperature, Noisy Sample Filter, Seismic Noise Filter, Drift, etc.	The bidder requested to include the ocean-tide correction.	Not acceptable. The automated real-time ocean-tide correction is not necessary for the present requirement.
04.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 12: Battery: Internal rechargeable lithium battery with backup, capable of supporting at least 14 hours of continuous operation at ambient temperature in the field.	The bidder requested to change the continuous battery operation duration from 14 hours to 8-12 hours.	Not acceptable. The Internal rechargeable lithium battery with backup, capable of Supporting at least 14 hours of continuous operation is necessary to ensure the uninterrupted field operations, including travel time, instrument stabilisation, measurement, station occupation, and other associated field activities. The different and challenging weather conditions, including remote field locations, can adversely affect battery performance. Additionally, battery ageing and degradation can reduce battery efficiency. Therefore, reducing the battery capacity to 8-12 hours cannot be considered, as it would necessitate mid-operation battery replacement or charging, particularly during prolonged field operations.

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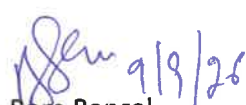
05.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 14: Standard Operating Temperature Range: -20°C to +45°C	The bidder requested that the standard operating temperature range be changed from -20°C to +45°C TO -45°C to +45°C	Not acceptable The requested temperature range is not necessary for the present requirement.
06.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 21: Laptop/Notebook: High-end model with latest graphics and Windows 10 or higher.	The bidder requested that laptop/notebook specifications be mentioned.	The specifications are as follows: 14-inch laptop/ notebook with Processor: Intel Core Ultra 9 285H, up to 5.4 GHz, 16 cores/16 threads, Graphics: NVIDIA RTX 500 (4 GB GDDR6), RAM: 8-12 GB DDR5, Hard disc: 1 TB SSD, OS: Windows- available Higher version.

The bidders informed that they did not have any other point/query to be discussed and PBC got concluded.

CSIR-NGRI team informed that the minutes of the PBC along with clarifications and changes/amendments, if any, agreed by CSIR-NGRI shall be uploaded in **CPPP/GeM** and **CSIR-NGRI website** shortly for information and reference of all the participating bidders. All the bidders are requested to take a note of the clarifications/ changes agreed by CSIR-NGRI subsequent to the PBC which agreed shall be treated as an amendment to the existing tendered specifications and related requirements.


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Against IO & Convener


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Shri. Amol Eknath Meshram
Against IO & Convener


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Dr. Abhey Ram Bansal
PL/Head and Member TSC


9/9/2026
(Dr. Nimisha Vedanti)
Member TSC


9.9.2026
(Dr. R. Vijayaraghavan)
Member TSC & Acting Chairperson

Amendment to the existing specifications and related requirements for the proposed procurement of "Land Gravity Meter" subsequent to Pre-Bid Conference (PBC) held on 09.09.2026.

Sl. No.	Point No. of tender document	Existing specifications	Amended specifications
01.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 12:	Battery: Internal rechargeable lithium battery with backup, capable of supporting at least 14 hours of continuous operation at ambient temperature in the field.	The modified specification, as already approved by TSC and also discussed during the PBC meeting, is as follows: Battery: Internal hot-swappable rechargeable lithium battery with backup, capable of supporting at least 14 hours of continuous operation at ambient temperature in the field
02.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 13:	Power: External power supply 240 V AC (Indian Standard).	The modified specification, as already approved by TSC and also discussed during the PBC meeting, is as follows: Power supply: External power supply 240 V AC (Indian Standard).
03.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 15:	Memory: Internal memory of 4 GB or more.	The modified specification, as already approved by TSC and also discussed during the PBC meeting, is as follows: Memory: Internal/Built in/on board memory of 4 GB or more.

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04.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 17:	Display: User-friendly built-in widescreen LED/LCD display with backlight, clearly visible in bright daylight and at night, capable of alphanumeric display.	The modified specification, as already approved by TSC and also discussed during the PBC meeting, is as follows: Display Unit: Built-in widescreen LED/LCD alphanumeric display with backlight for clear visibility in bright daylight and at night. Also with tilted/inclined display for user-friendly readability and to protect from direct sunlight.
05.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 19:	Standard System: Console, tripod base, rechargeable smart batteries, battery charger, external power supply, data dump kit, hard waterproof transit case, user manual (hard and soft copy on pen drive), carrying bag with shoulder strap, data transfer and utilities software compatible with Windows 10 or higher.	The modified specification, as already approved by TSC and also discussed during the PBC meeting, is as follows: Accessories: Console, tripod base, rechargeable lithium batteries, battery charger, external power supply, data dump kit, hard waterproof transit case, user manual (hard and soft copy on pen drive), carrying bag with shoulder strap, data transfer and utilities software compatible with Latest Windows OS or higher.
06.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 20:	GPS: Suitable built-in/integrated GPS with antenna providing position accuracy of ± 3 m or better.	The modified specification, as already approved by TSC and also discussed during the PBC meeting, is as follows:

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			GNSS: Suitable built-in/integrated GNSS with antenna providing position accuracy of ± 3 m or better.
07.	Tender Doc. Chapter 4, Page No. 49, Point No. 4.2 Specifications No. 21:	Laptop/Notebook: High-end model with latest graphics and Windows 10 or Higher.	The modified specification, as already approved by TSC and also discussed during the PBC meeting, is as follows: Laptop/Notebook: High-end model with latest graphics with latest Windows OS. As recommended by PBC, the specifications are as follows: 14-inch laptop/notebook with Processor: Intel Core Ultra 9 285H, up to 5.4 GHz, 16 cores/16 threads, Graphics: NVIDIA RTX 500 (4 GB GDDR6), RAM: 8-12 GB DDR5, Hard disc: 1 TB SSD, OS: Windows- available Higher version.

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