Sr.No	Representation / Query	Sr.No	CBRI Reply
	Requested modifications		
1.	**Measurement accuracy**	1.	**Measurement accuracy**
	The current specification requires ranging accuracy/error of 2 mm or better. We request that this parameter be reconsidered and expressed using an application-appropriate, manufacturer-declared system point-cloud accuracy criterion, supported by a technical datasheet or test certificate. This would allow different scanning technologies to be evaluated objectively.		The specified ranging accuracy of 2 mm or better is our minimum technical requirement for a survey grade Terrestrial Laser Scanner having millimeter level absolute accuracy suiting to our intended application. Hence there is no scope for change.
2.	**Vertical field of view**	2.	**Vertical field of view**
	The specification requires a vertical scanning angle of 280° or higher. We request consideration of 270° or higher, or an equivalent performance-based requirement based on effective 3D coverage. A 270° vertical field of view provides extensive coverage for many indoor, outdoor, infrastructure and mobile-mapping applications.		The minimum vertical field of view of 280° is a specified technical requirement for the intended application. A larger vertical scanning angle minimizes the overhead and underfoot blind spots. With a 280° or higher angle, the scanner captures a wider vertical arc in a single pass, which helps in capturing tall structures, ceilings, and floors more thoroughly from a single position, saving time in the field, hence there is no scope for change.

3.	**Battery Operation and Hot-Swappable Batteries**	3.	**Battery Operation and Hot-Swappable Batteries**
	The specification requires a minimum of 3 hours of field operation at a stretch. We request that this be revised to permit a manufacturer-supported battery system providing continuous field productivity. The proposed solution can be supplied with THREE rechargeable batteries and a hot-swappable battery option, allowing a discharged battery to be replaced with a charged battery during fieldwork and helping minimize downtime. We therefore request acceptance of a three-battery hot-swappable arrangement as an alternative to requiring three hours of operation from a single battery.		The minimum battery operating duration of 3 hours is a specified technical requirement for the intended application and shall be retained to ensure adequate operational endurance during field scanning and also avoid introduction of unnecessary errors in the measurement. Hence there is no scope for change
4.	**Registration and positioning**	4.	**Registration and positioning**
	Please permit automatic or real-time SLAM-based registration, with manual or post-processing refinement wherever required. This would allow modern mobile 3D scanning workflows to be evaluated on their actual performance.		Automatic/Real-time/On-site/Manual Registration shall be retained as a distinct and technical requirement facilitating survey-grade dimensional precision, high point density with zero cumulative drift. Hence there is no scope for change

5.	**Leveling requirement**	5.	**Leveling requirement**
	Please reconsider the requirement for leveling at each scan position to accommodate systems that use IMU/SLAM-based spatial positioning and trajectory estimation and do not require conventional leveling at every scan position.		*The generic technical specification requires levelling capability at each scan position. We have not specified/desired for any particular type of levelling capability.*
6.	**Technology-neutral qualification**	6.	***Technology-neutral qualification***
	Please permit both tripod-based terrestrial laser scanning systems and SLAM/mobile 3D laser scanning systems, provided the offered solution satisfies the applicable accuracy, range, data quality, software functionality and application requirements.		*The technical requirement for our intended application is a tripod-based Terrestrial Laser Scanning (TLS) system. SLAM/Mobile 3D laser scanning systems are not required for the intended application at present.*