

Annexure – I

Technical Specification for Integrated system for observing, recording and analyzing zebrafish behavior

I	Bidder Eligibility Condition	Complied /Not Complied	Ref. Page No.
1	The bidder/OEM should have supplied at least 3 similar items to IITs, NITs, IISERs, CSIR Labs, other Govt. organizations or globally reputed R & D organizations and Industry of other countries, in the last 5 years, PO copies or installation certificates along with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.		

II	Specification	Complied/Not Complied	Ref. Page No.
1	The Zebrafish larvae behavior observation system should facilitate at least 96 animals simultaneously (one larvae/well) in a controlled and compact environment. It should have full control over light and dark settings, with flow through of water around the well plate and should be shock resistant. It should enable the highest accuracy for tracking Zebrafish larvae's activity, movement and behavior.		
2	There should be IR backlit well plate holder and an IR sensitive high quality CCD camera.		
3	There should be a white light source which should be controlled accurately following a light gradient by the software, based on animal behaviour and time, long-term studies, and startle reflex, for example.		
4	There should be a tapping device to obtain a startle response. It should also be programmable through the software.		
5	It should be possible for the software to program the switching off/on, fading time of the white light. The chamber should not allow any external light. It should also be possible to conduct experiments over many days. There should be a provision for attaching a temperature control unit. There should also be a provision for Optogenetic capability.		
6	The plate holder should fit all size and shapes of wells including 96 well plate. The system should be vibration free with anti- vibration feet.		
7	The same software should also adapt for Rodents and other animals. It should allow external device control and many different arenas with the help of a single additional camera.		

