



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.

(PR No. 1000049999)

(Rfx No. 3600003025)

Technical Specification for AI/ML and Simulation Module Development:

Sr. No	Item Description	Complied (Yes/No)	Additional info, if any
1	Service Level Agreement		
1.1	The bidder shall execute all AI/ML, simulation, perception, and motion planning activities as per the agreed project plan and timelines.		
1.2	The bidder shall respond to technical queries or issues within 3 working days and resolve identified bugs or deficiencies within mutually agreed timelines.		
1.3	Non-adherence to milestones or quality standards may result in corrective actions or termination of the contract at the Institute's discretion		
2	Scope of Work		
2.1	AI/ML and Simulation Module Development: The bidder shall design, develop, implement, and validate AI/ML-based modules along with simulation frameworks relevant to logistics, robotics, and operational research use cases.		
2.2	Logistics Software Simulation Development: Development of software simulations covering logistics processes, system modelling, scenario analysis, performance evaluation, and visualization of results.		
2.3	Machine Perception and AI Line Perception: Design and development of machine perception and AI-based line perception algorithms for sensing, detection, identification, and interpretation of structured environments.		
2.4	Robot Motion Planning Algorithm Development and Deployment: Development and deployment of robot motion planning algorithms addressing path planning, collision avoidance, optimization, and		

	feasibility in simulated and/or real environments		
2.5	The scope includes integration, testing, and validation of all developed modules within the defined project environment.		
2.6	The bidder shall participate in requirement gathering, technical discussions, understanding project objectives, and preparation of a detailed project execution plan.		
2.7	The bidder shall provide complete project documentation, including system architecture, algorithm descriptions, assumptions, and user/developer manuals		
2.8	Complete source code for all developed modules shall be shared with the Institute in a well-documented and version-controlled format.		
3.	Additional Terms and Conditions		
3.1	The scope of work mentioned herein shall be completed within a period of three months from the date of the order.		
3.2	Period of Contact: The contract shall remain valid until the completion of the current project, which is tentatively scheduled to conclude on 22 October 2026.		
4.	Payment Terms		
4.1	Payment shall be made after completion of the mentioned scope of work, subject to satisfactory completion and certification by the respective indenter/project authority		