



**DOMESTIC
TENDER DOCUMENT**

Tender No: IISc/Purchase/CPS/2026-27/04

Dated 1st October 2026

**For
"Supply of Indigenous Customized Quadruped Robot System"**

Department of Cyber Physical Systems

Division of Interdisciplinary Sciences

Indian Institute of Science Bengaluru - 560012

GSTIN: 29AAATI1501J2ZV

Website: <https://iisc.ac.in/all-tenders>

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1. Tender Notification

Tender No. IISC/PURCHASE/CPS/2026-27/1 [to be updated]

Scope of Work	Supply of Indigenous Customized Quadruped Robot Systems
Tender Date	1 st October 2026
Quantity	1
Tender Type	Two-bid system A) Technical Bid (Part A) B) Commercial Bid (Part B)
Eligible Bidders	Indian OEMs qualifying as Class-I or Class-II Local Suppliers; purchase preference to Class-I Local Suppliers (see Section 3)
Name of the Client	Department of Cyber Physical Systems, Indian Institute of Science, Bengaluru
Address of the Client	Chairperson's Office Department of Cyber Physical Systems Ground Floor, TCS SMART X Hub <i>Landmark: behind CeNSE and near D gate</i> Indian Institute of Science Bengaluru - 560 012
Last date and Time for submission of tender	22 nd October 2026, 4:00 PM
Opening of Tender (Technical Bid)	22 nd October 2026, 5:00 PM
Date and Time of opening of Tender (Financial Bid)	Will be decided and intimated later
Point of contact for any clarification	office.cps@iisc.ac.in

2. Notice Inviting Tender

The Department of Cyber Physical Systems, Indian Institute of Science invites tenders from eligible Bidders, for **Supply of Indigenous Customized Quadruped Robot System**

- 2.1 All Bidders shall provide the required information accurately and enough as per details in Section 3: Eligibility Criteria
- 2.2 The Tenderer shall submit the valid certificate copies of the documents as mentioned in the Section 3 (Eligibility criteria) in technical bid, **failing which the tenderer will be rejected**. If necessary, bidder shall produce all the original documents for verification.
- 2.3 Blacklisted vendors in State / Central Govt. Departments / Autonomous bodies / Institutions are not eligible to quote, if found such tenders will be rejected.
- 2.4 The rates quoted should reflect all taxes. The bid evaluation will be done inclusive of all Taxes / Cess. / Royalty etc. The statutory levies as per Govt. guidelines will be deducted. The IISc reserves the right to accept / reject any or all the tenders without assigning any reasons.
- 2.5 Conditional tenders will not be accepted and is liable for rejection.
- 2.6 Bidders who meet the above specified minimum qualifying criteria, shall be eligible.
- 2.7 Even though the Bidders meet the above criteria, they are subject to be disqualified if they have:
 - Made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
 - Record of poor performance such as abandoning the works, poor quality, inordinate delays in completion, litigation history, or financial failures etc.

2.8 Amendment of Tender documents

Before the deadline for submission of tenders, the IISc may modify the tender documents by issuing corrigendum / addendum.

Such corrigendum/ addendum thus issued shall be part of the tender documents and shall be published online.

Prospective bidders shall be given reasonable time in which to take corrigendum/ addendum into account in preparing.

2.9 Documents comprising the Tender

The Technical Bid submitted by the Bidder shall contain the documents in a sealed envelope as follows:

- a) Any other documents / materials required to be completed and submitted by Bidders in accordance with these instructions. More details are in Section 5 (Checklist). The required documents shall be filled in without exception.

The bidder shall submit the hard copies of in two bid system. The tender documents shall reach the designated office within the deadline. The checklist has the details.

The hardcopies should be sent to the following address:

Chairperson's Office
Department of Cyber Physical Systems
Ground Floor, TCS SMART X Hub
Landmark: Behind CeNSE and near D Gate
Indian Institute of Science,
Bengaluru, India – 560012

The bid must contain the technical bid and financial bid in two separate folders.

The technical bid should not contain any price information. Non-conformance will result in disqualification.

2.10 Tender validity

Tenders shall remain valid for a period not less than **180 days** after the deadline date for tender submission. A tender valid for a shorter period shall be rejected by the IISc as non-responsive.

In exceptional circumstances, prior to expiry of the original time limit, IISc may request that the Bidders may extend the period of validity for a specified additional period. The request and the Bidders' responses shall be made in writing or by email (office.cps@iisc.ac.in).

Notwithstanding anything specified in this tender document, IISc Bengaluru, in its sole discretion unconditionally and without having to assign any reason, reserves the rights:

- a. To accept OR reject lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender, offer not confirming the tender terms.

2.11 Provisions for Micro, Small and Medium Enterprises (MSME):

The MSME registered bidder should provide the registration certificate along with the technical bid documents. The MSME registration to specify manufacturing / service of the tender item (s).

Policy is meant for procurement of only goods produced by MSMEs.

Participating Micro and Small Enterprises quoting price within price band of L1+15%, will qualify to supply a portion of requirement by bringing down price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprises.

2.12 Format and signing of Tender

Successful Bidder shall sign all the pages of the tender document as a token of acceptance of all the terms and conditions of the contract.

2.13 Deadline for submission of the Tenders

The Bidder shall submit a set of hard copies of all the documents in a sealed cover to IISc.

IISc may extend the deadline for submission of tenders by issuing an amendment, in which case all rights and obligations of the IISc and the Bidders previously subject to the original deadline will then be subject to the new deadline.

2.14 Late Tenders

Late bids are not accepted. IISc will not be liable (or) responsible for any delay in delivery of the documents.

2.15 Modification and Withdrawal of Tenders

The Bidder may modify or withdraw his tender before the notified last date and time of tender submission. No Tender may be modified after the deadline for submission of Tenders.

2.16 Tender Opening:

The IISc will open all the technical bids received on the said date mentioned in Section 1. The IISc will evaluate and determine whether each tender meets the minimum qualification eligibility criteria both financially and technically. Technical qualification will be evaluated based on the documents and the video demonstrations submitted with the technical bid, as per Section 4, Appendix II. IISc may, at its discretion, call for a live demonstration.

The commercial bid of qualified bidders (both technically and financially) will be opened on the said date mentioned in Section 1. IISc will evaluate and choose the lowest bidder.

2.17 Process to be confidential

Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced.

2.18 Clarification of Tenders

To assist in the examination and evaluation, IISc may, at his discretion, ask any Bidder for clarification of his Tender. The request for clarification and the response shall be in writing or by e-mail along with the section number, page number and subject of clarification, but no change in the price or substance of the Tender shall be sought, offered, or permitted.

Any effort by the Bidder to influence the IISc in the Tender evaluation, or contract award decisions may result in the rejection of the Bidders' Tender.

2.19 Examination of Tenders and determination of responsiveness

Prior to the detailed evaluation of Tenders, IISc will determine whether each Tender (a) meets the eligibility criteria and; (b) is substantially responsive to the requirements of the Tender documents.

A substantially responsive Tender is one which conforms to all the terms, conditions, and specifications of the Tender documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the works; (b) which limits in any substantial way, inconsistent with the Tender documents, the IISc's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Tenders.

If a Tender is not substantially responsive, it will be rejected by the IISc., and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

2.20 Correction of errors

No corrections to the submitted bid is permitted by the portal. Tenders determined to be substantially responsive will be checked by IISc.

2.21 Evaluation and comparison of Tenders

Opening of the Financial bid will be preceded by the evaluation of the Pre-qualification Offer (Technical bid). The technical bid evaluation not only includes evaluation of the capability, capacity and credibility of the Bidder, but also the responsiveness to any technical questions asked. See Section 4, Appendix I for more details.

The IISc will evaluate and compare the Tenders and form a comparative statement.

In evaluating the Tenders, the IISc. will determine for each Tender the evaluated Tender Price by adjusting the Tender Price as follows:

- a) Making any correction for errors and
- b) Making appropriate adjustments to reflect discounts or other price modifications offered

The IISc reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the Tender documents or otherwise result in unsolicited benefits for the IISc shall not be considered in Tender evaluation.

2.22 Negotiations

The Bidder, though technically qualified and whose financial offer is the lowest, fails to convince the Evaluation Committee of the capability, capacity, credibility, his/her offer may be reviewed, and the Bidder intimated accordingly.

2.23 Award criteria

IISc will award the order to the Bidder whose Tender has been determined to be technically qualified, substantially responsive to the Tender documents and who has offered the lowest evaluated Tender Price. The technical evaluation has a two stage process – first is via the documents provided in the technical bid, and second is with the evaluation of the

demonstrations, the technically qualified bidders will be considered for opening of the financial bids provided that such Bidder has been determined to be eligible in accordance with the provisions of this tender document (along with technical demonstrations) and subsequent technical clarifications offered by the responsive bidders.

2.24 Right to accept any Tender and to reject any or all Tenders

IISc reserves the right to accept or reject any Tender, and to cancel the Tender process and reject all Tenders, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the IISc's action.

Notification of award

The Bidder whose Tender has been accepted will be notified of the award by the IISc, prior to expiration of the Tender validity period by e-mail or confirmed by letter.

Corrupt or Fraudulent practices

The IISc requires that the Bidders observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, IISc.

- a) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
- b) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a IISc contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a IISc contract.

2.25 Payment Terms

The payment will be made upon delivery, testing and validation for each equipment. Milestones are described in Appendix I. It may be noted that payment from IISc may take up to 1 month after provision of appropriate invoice (such as for supply of material).

3 Eligibility Criteria

Technical Criteria:

- 3.1 Quote should come only from an Indian Original Equipment Manufacturer (OEM), i.e., an entity registered in India that manufactures/integrates the offered quadruped robot in India. Offers of re-branded or re-badged imported robots will not be accepted.
- 3.2 The Bidder should belong to either Class-1 or Class-2 suppliers distinguished by their “local content” as defined by recent edits to GFR. They should mention clearly which class they belong to by submitting the declaration form and in the covering letter (Annexure VI). a) Class-1 supplier: Goods and services should have local content of equal to or more than 50%. b) Class-2 supplier: Goods and services should have local content of equal to or more than 20 % and less than 50%. Only Class-I and Class-II local suppliers are eligible; non-local suppliers are not eligible. The bidder must submit a certificate of the local-content percentage from the statutory auditor/cost auditor (for companies) or a practising Chartered Accountant (for others).
- 3.3 Purchase preference: Purchase preference as defined by the Public Procurement (Preference to Make in India) Order, 2017 (as revised) (within the “margin of purchase preference”) will be given to Class-I local suppliers.
- 3.4 Bill of Materials: The bidder must list all major subsystems/components of the offered robot with make/supplier, country of origin and value share in the Bill of Materials (Annexure VI-A), in support of the local-content declaration.
- 3.5 Data security: The system must operate fully without any internet or cloud connection. Local networking within the purchaser’s premises (Wi-Fi, Ethernet or radio links between the robot, operator station, cameras, sensors and local servers) is permitted and required; no data or telemetry shall be transmitted to any server outside the purchaser’s premises; and no licence activation shall depend on any external server. The source code of the robot firmware and control software shall be made available to IISc for audit on request.
- 3.6 Proven indigenous capability: The bidder must have designed, built and demonstrated in-house at least one quadruped (legged) robot. Evidence such as photographs/video, delivery records or purchase order copies, or publications must be submitted along with Annexure II.
- 3.7 The bidder shall provide technical support for periodic maintenance, corrections under warranty, and any issues that may arise following the testing and commissioning of the robot, within the timelines given in Section 4.2.
- 3.8 The quotations should be on FOR-IISc Bangalore basis in INR only.
- 3.9 MSME can seek exemption to some qualification criteria. IISc follows GFR2017 for such details.
- 3.10 Bidders offering imported products fall under the category of non-local suppliers and are not eligible. Services such as transportation, insurance, installation, commissioning, training and after-sales support (AMC/CMC, etc.) shall not be counted as local value addition.

Financial Criteria:

- 3.11 The bidder should have registered for a minimum period of six months. Proof of registration must be provided.
- 3.12 The bidder should have not been blacklisted by any State / Central Govt. Departments / Autonomous bodies / Institutions. A self-declaration of the same should be provided on the company letterhead.
- 3.13 The bidder should provide a self-declaration on their company letter-head stating that they

understand the payment terms and agree with the payment terms as well as the penalty clauses. Please use Section 5 (checklist) to provide the necessary documents.

Litigation and Arbitral Issues:

- 3.14 Net pending litigations should not be more than 50% of bidder's net worth.
- 3.15 No consistent history of court/arbitral award decisions against the bidder for the last five years. A self-declaration of the same should be provided on company letterhead.
- 3.16 From the date of the Purchase Order generation, the company should deliver, assemble, and install all materials according to schedule mentioned in Appendix I.

For any queries regarding the tender, the specifications or any other items, please contact

Chairperson's Office
Department of Cyber Physical Systems
Ground Floor, TCS SMART X Hub
Indian Institute of Science
Bengaluru, India - 560012

office.cps@iisc.ac.in

4 Technical Specifications

SCOPE OF WORK

The specification covers the general requirement for the Supply of Indigenous Customized Quadruped Robot Systems (four-legged walking robots). The primary goal of acquiring these robots in the Department of Cyber Physical Systems is to train and deploy learning based locomotion controllers for research purposes. The robot must be manufactured in India by an Indian OEM qualifying as a Class-I or Class-II local supplier as per Section 3, and its performance will be verified against the Figures of Merit through the demonstration and acceptance tests in Appendix II. The details of the specifications and qualifying criteria are given in Appendices I and II.

DELIVERY SCHEDULE

Delivery of 1 quadruped robot system within 45 days from the date of Purchase Order.

Specifications for each milestone is provided in Appendix I, and the date is mentioned in Section 1.

Payment schedules are upon delivery for each milestone.

INSTALLATION

The total solution consisting of supply as per the PO (purchase order), should be completed as per the delivery schedule, after receiving PO from IISc.

4.1 TRAINING AND DOCUMENTATION

- 1) Appropriate number of training sessions for IISc technical staff for effective operation and management of the testbed, including the configuration/usage of the management software supplied shall be held.
- 2) Documentation (manuals, operating instructions, etc.) for all hardware, software, and services offered (in printed/digital format) shall be provided to the Purchaser.
- 3) A technical report on the test-bed specific hardware and (management) software configuration will be a prerequisite condition for granting acceptance from the Purchaser.

4.2 WARRANTY AND OEM SUPPORT CONTRACT

- 1) The warranty period must be a minimum of one year from the date of acceptance, or until 31 March 2028, whichever is later. The bidder shall be fully responsible for the warranty period. Every part except the battery must be covered for this period. The warranty for wear and tear need not be covered, however damaged parts must be repaired/replaced for a nominal charge. Additional warranty terms can be mentioned in the bid.

2) Preventive maintenance and repairs of the components supplied by the bidder are the responsibilities of the bidder.

3) The bidder shall attend to all the hardware and/or software problems within seven working days (remotely or on-site). Bidder shall also replace the defective parts at no extra cost to the purchaser within 15 working days after reporting the issue.

4) All critical security updates must be promptly applied by the bidder personnel. The purchaser should be intimated about all non-critical security updates within a week of their release. All feature update releases for software must be made available to the Purchaser during the validity period.

5) All software tools should also be provided in weblink or in USB format and the purchaser shall be permitted to make at least 2 copies of the software tools /updates for emergency recovery.

6) Bidder shall clearly specify the conditions over which the service obligations will be void. Detailed documents regarding warranty conditions and applicability should be submitted along with a bid with a declaration of accepting the warranty conditions of the purchaser.

7) All costs of warranty service shall be borne by the bidder, including travel, boarding and lodging of the bidder's personnel, transportation/shipping of the robot or parts to and from the bidder's facility (including insurance in transit), and replacement parts and labour. No additional charges shall be levied on the purchaser for any service covered under warranty.

8) If the robot remains non-operational beyond 15 working days from the date of reporting a problem, the warranty period shall be extended by the total downtime.

9) Any charges not covered under warranty (e.g., repair of damage due to misuse, wear-and-tear parts, extended warranty or AMC after the warranty period) must be quoted separately in the commercial bid (Annexure VII). Charges not quoted in the commercial bid will not be payable by the purchaser.

APPENDIX-I

Technical Specifications for Indigenous Quadruped Robot

Item Description

Sl No	Item Description	Quantity	Milestone Schedule	Remarks
1	Heavy-duty indigenous quadruped robot with specifications listed below, including battery pack, charger, and	1	Delivery within 45 days from Purchase Order	Must support reinforcement learning

	wireless handheld controller			based controller deployment with actuator-level access
2	Onboard compute: high-performance edge AI compute module	1	Delivery within 45 days from Purchase Order	Ubuntu 20.04+ and ROS2 support mandatory

Mandatory Quadruped Robot Specifications

Payload and Mobility Requirements

Parameter	Required Specification
Dynamic walking payload	Minimum 20 kg
Terrain capability	Must support operation on gravel, grass, loose soil, and uneven outdoor terrain
Maximum traversable slope	Minimum 10 degrees with rated payload (20 kg); capability up to 20 degrees or more is preferred
Continuous runtime per battery charge	Minimum 90 minutes; higher runtime preferred (hot-swappable battery preferred, no tethered power)
Average locomotion speed	Minimum 1 m/s average speed sustained during autonomous traversal of uneven terrain with rated payload (20 kg)
Locomotion success rate	More than 70% successful autonomous traversals of predefined uneven test routes with rated payload (20 kg)
Payload stability	Vendor to specify the maximum payload tilt (degrees from horizontal) and maximum payload displacement from its initial position during traversal with 20 kg payload; to be verified during demonstration
Recovery behavior	Robot must recover autonomously from falls/disturbances

Environmental Requirements

Parameter	Required Specification
Operating temperature	Up to +45 °C (higher rating preferred)
Environmental protection	Protection against dust ingress; vendor to specify IP rating (IP54 or better preferred)
Terrain/weather tolerance	Must operate reliably in dusty outdoor conditions

Humidity	Must operate reliably in hot and humid conditions (up to 95% RH, non-condensing)
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Structural Requirements

Parameter	Required Specification
Structural material	Load-bearing structure must be metallic (aluminum alloy, titanium alloy, or steel alloy)
Dimensions/weight	No fixed constraint; vendor to specify actual values

Actuation and Control Requirements

Parameter	Required Specification
Communication protocol	Documented low-level actuator communication interface (e.g., CAN 2.0/CAN-FD, EtherCAT or RS-485)
Control modes	Position, velocity, and torque control mandatory
Encoder requirements	Joint position feedback for each actuator mandatory (absolute encoder preferred)
Reinforcement learning deployment	Direct low-level actuator access through SDK/API mandatory

Perception and Localization Requirements

Parameter	Required Specification
Localization accuracy	Vendor to specify; better than 10 cm in mapped/SLAM-supported environments preferred
Sensors	Onboard cameras and/or LiDAR sufficient to achieve specified localization accuracy
IMU	Onboard IMU mandatory
Wireless communication	WiFi and Ethernet support mandatory

Compute Requirements

Parameter	Required Specification
Processor	GPU-accelerated edge AI compute module
GPU memory	Minimum 16 GB
Operating system	Ubuntu 20.04 or later mandatory
Middleware	ROS2 support mandatory
SDK/API	Full hardware interface access mandatory

Safety Requirements

Parameter	Required Specification
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Emergency stop	Hardware and software emergency stop mandatory, accessible from controller
Fall safety	Automatic motor torque cutoff/protective behavior on tip-over or critical fault
Collision/obstacle awareness	Basic obstacle detection to avoid collision during autonomous operation
Battery safety	BMS with under-voltage, over-voltage, over-current, short-circuit, and over-temperature protection
Operator safety	Manual override must take precedence over autonomous commands at all times

Security, Cybersecurity and Communication Requirements

Parameter	Required Specification
Access control and encryption	System must be protected against unauthorised access and data theft: encrypted wireless communication, password/key-based authentication for the robot and operator station, and protection of firmware/software against unauthorised modification
Data sovereignty	No cloud or internet dependency (local Wi-Fi/Ethernet networking within the purchaser's premises is permitted); no data/telemetry transmitted outside the purchaser's premises; firmware source code available to IISc for audit on request

Indigenous Content Requirements

Parameter	Required Specification
Supplier category	Class-I (local content $\geq 50\%$) or Class-II (local content $\geq 20\%$ and $< 50\%$) local supplier, certified as per Section 3; purchase preference to Class-I
Bill of Materials	All major subsystems/components listed with make/supplier, country of origin and value share in Annexure VI-A
Verification	Physical inspection of the robot against the submitted Bill of Materials at acceptance after delivery

APPENDIX-II

Demonstration and Acceptance Tests (Figures of Merit)

Bidders must submit video demonstrations of the offered robot model with the technical bid (as a downloadable link or on a USB drive). Each video must be continuous and unedited within a trial, carry a visible date/time stamp, show the payload being weighed on camera before the trial, and include narration or captions explaining the test and how the result is measured. Tests 1–5 must be covered by video; Tests 6–8 will be verified at acceptance after delivery. IISc may seek clarifications or, at its discretion, call for a live demonstration. All tests will be repeated live at acceptance after delivery, and failure to meet the declared values will lead to rejection of the supply.

Figure of Merit (Target)	Video Evidence / Verification and Pass Criterion
1. Locomotion success rate (> 70%)	Video of at least 10 autonomous trials on uneven outdoor terrain (gravel, grass or loose soil; route of at least 50 m) carrying 20 kg payload, showing start and end of every trial; more than 70% of trials must be completed without human intervention, fall or payload loss.
2. Locomotion speed (≥ 1 m/s average)	Video of the trials in Test 1 with visible distance markers and an on-screen timer (or odometry overlay); average speed over the route must be at least 1 m/s.
3. Payload stability (vendor-declared value)	Video with a live readout of an IMU/inclinometer fixed on the 20 kg payload during traversal; the maximum tilt from horizontal and displacement from initial position must not exceed the values declared by the vendor.
4. Climbing angle ($\geq 10^\circ$; up to 20° preferred)	Video of the robot ascending and descending a slope of at least 10° with 20 kg payload, with the slope angle shown by an inclinometer on camera; 3 trials, all must succeed. The maximum slope demonstrated (up to 20° or more) will be recorded.
5. Actuator-level access	Screen recording together with video of the robot showing low-level position, velocity and torque commands sent to individual actuators via the SDK/API, and deployment of a learning-based locomotion policy.
6. Continuous runtime (≥ 90 minutes)	Continuous operation on a single battery charge for at least 90 minutes (verified at acceptance after delivery; vendor may also submit a time-stamped video/log).
7. Localization accuracy (vendor-declared; < 10 cm preferred)	Localization error measured against surveyed reference points in a mapped environment; must not exceed the vendor-declared value (verified at acceptance after delivery).
8. Local content	Physical inspection of the robot against the Bill of Materials (Annexure VI-A) and the local-content certificate (verified at acceptance after delivery).

5 Checklist

The following items should be checked before the bid is submitted. Please include this document in the bid and indicate YES/NO or a check mark (on the left) for each item here.

1. SEALED ENVELOPE “A”: TECHNICAL BID

- a. Technical bid (each page must be signed by the authorized signatory and seal) with the following documents:
 - i. Covering letter with this checklist with YES/NO or check mark (on the left). The covering letter must explain the details of the bid and type of supplier (Class-I or Class-II local supplier).
 - ii. Annexure I: Bidder’s details.
 - iii. Annexure II: Declaration regarding experience.
 - iv. Annexure III: Declaration regarding clean track record.
 - v. Annexure IV: Declaration for acceptance of terms and conditions with supporting documents (like address proof).
 - vi. Annexure V: Details of items quoted along with supporting documents like technical specifications, product brochure, warranty coverage etc.
 - vii. Annexure VI: Local content declaration., with Annexure VI-A (Bill of Materials with country of origin) and the auditor/CA certificate of local content.
 - viii. Annexure VIII: Declaration of Indian OEM status and data security.
 - ix. Evidence of in-house developed quadruped robot (photographs/ video, delivery records/PO copies, publications).
 - x. Video demonstrations of Tests 1-5 as per Section 4, Appendix II (downloadable link or USB drive).
 - xi. Any other documents that will help support the technical qualification of the bidder.
- b. Copy of this tender document (with latest modifications/corrections as specified in the website) duly signed by the authorized signatory on every page and sealed.

2. SEALED ENVELOPE “B”: COMMERCIAL BID

- a. The bid must contain the necessary details like GST, address mentioned

in the bid document. The document must be duly signed by the authorized signatory with seal. Please use Annexure VII for reference.

Tender must be submitted in two envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribing on both the envelopes with Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No., Tender description & Due Date. Note that Envelope A should not contain any price information. Non-conformation will lead to disqualification.

ANNEXURE I

Details of the Bidder

The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Details of the Bidder

Sl. No	Items	Details
1	Name of the bidder	
2	Nature of the bidder (Attach attested copy of certificate of incorporation/ partnership deed)	
3	Registration No/ Trade License (attach attested copy)	
4	Registered Office Address	
5	Address for communication	
6	Contact person – Name and Designation	
7	Telephone No	
8	Email ID	
9	Website	
10	PAN (attach copy)	
11	GST No. (attach copy)	

Signature of the Bidder

Name

Designation

Seal Date:

ANNEXURE II

Declaration regarding experience

To,
The Chairperson,
Department of Cyber Physical Systems,
TCS Smart X Hub,
Indian Institute of Science,
Bangalore – 560012,

Ref: XXXXX
Tender No: XXXXX
Dated:

Supply of Indigenous Customized Quadruped Robot System to the Department of Cyber Physical Systems, Indian Institute of Science, Bangalore

Madam/Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ----- of experience in design and development of walking robots.

I further declare that my company / firm has designed, developed and built in-house at least one quadruped (legged) robot, the details and evidence of which (photographs/video, delivery records/PO copies, publications) are enclosed.

(Signature of the Bidder)

Printed

Name

Designation,

Seal Date:

ANNEXURE III

Declaration regarding track record

To,
The Chairperson,
Department of Cyber Physical Systems,
TCS Smart X Hub,
Indian Institute of Science,
Bangalore – 560012,

Ref: XXXXX
Tender No: XXXXX
Dated:

Supply of Indigenous Customized Quadruped Robot System for the Department of Cyber Physical Systems, Indian Institute of Science, Bangalore

Madam/Sir,
I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company/ firm is not currently debarred / blacklisted by any Government / Semi Government organizations / institutions in India or abroad. I further certify that I'm competent officer in my company / firm to make this declaration.

Or

I declare the following list of country/countries in which the company is Debarred /blacklisted / case is Pending Blacklisted / debarred by Government / Semi Government/Organizations /Institutions Reason Since when and for how long

(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding period for which the company / firm was blacklisted and the reason/s for the same).

Yours faithfully

ANNEXURE IV

Declaration for acceptance of terms and conditions

To,
The Chairperson,
Department of Cyber Physical Systems,
TCS Smart X Hub,
Indian Institute of Science,
Bangalore – 560012, India

Ref: XXXXX

Tender No: XXXXX

Dated:

Supply of Indigenous Customized Quadruped Robot System for the Department of Cyber Physical Systems, Indian Institute of Science, Bangalore

Madam/Sir,

I've carefully gone through the Terms & Conditions as mentioned in the above referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

I declare to provide technical support for periodic maintenance, corrections under warranty, and any issues that may arise following the testing and commissioning of the robot, within the timelines given in Section 4.2, and to bear all warranty service costs, including travel and shipping.

I declare to provide the warranty requirements and abide by the delivery schedule requested in Section 4, APPENDIX I and APPENDIX II. I declare to provide support for all the hardware and/or software problems on site and shall replace the defective parts at no extra cost to the purchaser at the earliest.

I acknowledge that even if I am evaluated based on video demonstrations (and, if called for, a live demonstration), failure to satisfy the specifications mentioned in Section 4, APPENDIX I and APPENDIX II in full or in part will result in disqualification. I also understand and acknowledge that, based on the demonstration of the required specifications, the decision of the technical evaluation committee will be final.

I understand that IISc Bengaluru, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

- a. To accept OR reject lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender, offer not confirming the tender terms.

I also acknowledge that failure to deliver the goods within the specified deadlines may result in the cancellation of the order.

Yours faithfully,

(Signature of the Bidder)

Name

Designation,
Seal

ANNEXURE V

Details of items quoted:

- a. Company Name
- b. Product Name
- c. Part/ Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. Remarks

Instructions to bidders:

- 1. Bidder should provide technical specifications of the quoted products/s in detail.
- 2. Bidder should attach product brochures along with technical bid.
- 3. Bidder should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.
- 4. Bidder should provide details of the warranty coverage for each item.

ANNEXURE VI

*(To be submitted In the company letter head by supplier)

DECLARATION OF LOCAL CONTENT BY LOCAL SUPPLIER

Subject: Public Procurement (Preference to Make In India) for Supply of Indigenous Customized Quadraped Walking Robot System

We hereby declare with reference to above subject and references that
M/s----- (Tick whichever is applicable as below) is a

"Class-I local supplier" meeting the requirement of minimum local content equal to 50% (fifty percent) or more defined in the above government notification for the goods and services

(or)

"Class-II local Supplier" meeting the requirement of local content 20% to less than 50% (fifty percent) defined in the above government notification for the goods and services

Type of Supplier (Class-I/Class-II)

Product:

Project:.....

Percentage of local content: _____ % (certificate from statutory auditor/cost auditor or practising Chartered Accountant enclosed).

Details of location at which local value addition will be made is as follows:

We also understand that the false declarations will be in breach of the code of Integrity under rule 175(1)(i)(h) of the General financial rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Authorized Signature M/s
(Signature and seal)

Place:.....

Date:.....

ANNEXURE VI-A**BILL OF MATERIALS WITH COUNTRY OF ORIGIN**

The bidder must list all major subsystems/components of the offered robot.

Sl. No	Subsystem / Component	Make / Supplier	Country of Origin	% of Total Value
1	Mechanical structure, legs and linkages			
2	Actuators / actuator modules			
3	Motor drivers / servo controllers			
4	Main locomotion control electronics			
5	Battery pack assembly and BMS			
6	Locomotion firmware, control software and SDK			
7	Edge AI compute module			
8	LiDAR / cameras			
9	IMU			
10	Battery cells, bearings, connectors and other parts			
	Total			100%

Authorized Signature (Signature and seal)

ANNEXURE VII

Commercial Bid

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

S.No	Description	Quantity	Unit price	Sub-total
1.	Essential items noted in the technical specification			
2	Accessories for operation and installation			
3	Warranty			
3a	Extended warranty / AMC after warranty period (optional, per year)			
4	Cost of shipment and installation			
5	Any additional items			

Other details like GST and company address must be included in the bid.

Addressed to

The Chairperson,
Department of Cyber Physical Systems,
Ground Floor, TCS SMART X Hub
`Landmark: Behind CeNSE and near D Gate,
Indian Institute of Science
Bangalore – 560012, India

ANNEXURE VIII

DECLARATION OF INDIAN OEM STATUS AND DATA SECURITY

*(To be submitted on the company letter head by the bidder)

To,

The Chairperson,

Department of Cyber Physical Systems,

TCS Smart X Hub,

Indian Institute of Science,

Bangalore – 560012, India

Tender No: XXXXX Dated:

Supply of Indigenous Customized Quadruped Robot System for the Department of Cyber Physical Systems, Indian Institute of Science, Bangalore

Madam/Sir,

We hereby declare that M/s _____ is the Indian Original Equipment Manufacturer (OEM) of the offered quadruped robot, and that the robot is manufactured/integrated by us in India.

We declare that the system operates without any internet or cloud dependency (using only local networking within the purchaser's premises), that no data or telemetry will be transmitted outside the purchaser's premises, and that the firmware and control software source code will be made available to IISc for audit on request.

We understand that any false declaration will be treated as a breach of the Code of Integrity under Rule 175(1)(i)(h) of GFR 2017 and may lead to rejection of the bid, cancellation of the order and debarment as per Rule 151(iii) of GFR 2017.

Yours faithfully,

(Signature of the Bidder)

Name

Designation,

Seal

Place:

Date: