

e-TENDER

FOR

Supply of

HUMANOID ROBOT

AT

**PUSHPA GUJRAL SCIENCE CITY
KAPURTHALA (PUNJAB)**

TN/PGSC/2021/Exhibit/Robot

Pushpa Gujral Science City

Jalandhar – Kapurthala

Road, Kapurthala, Punjab

Telephone: 01822-501963 / 64

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INTRODUCTION

Pushpa Gujral Science City, Jalandhar-Kapurthala Road, Kapurthala

Pushpa Gujral Science City offers a blend of education, curiosity and fun to ensure longer and repeated visits. The project is aimed at cultivating interest in science through open-ended exploration away from text books and black boards, with a scientific approach to problem solving. The project has something for everyone, regardless of age, education, profession or social strata and is intended to make science accessible to people who are not part of the formal education system. It is a joint project of the Government of India and Government of Punjab.

Its various facilities include Galleries on Evolution, Dinosaur park (with Robotic Dinosaurs), Renewable Energy Park, Climate Change Theatre, Earthquake Simulator and Flight Simulator, Amazing Living Machine, Gallery on Health, Biotechnology & HIV, Outer Space Gallery, Virtual Reality & Cyber Space Gallery and Galleries on Fun Science, Railways, Defence, etc., as well as, Planetarium, Large Format Film Theatre (I-Max), 3D and Laser Shows, Herbal & Cactus Garden, etc. These offer information on cross cutting and inter-curricular issues and help to explain scientific concepts and their relevance to society. An Innovation Hub at Science City motivates students for 'out-of-box' thinking, which could contribute towards societal development. More information about these facilities is available at website www.pgsciencecity.org.

Programmable Humanoid Robot is the ideal platform for teaching Science, Technology, Engineering and Math (STEM) concepts at all levels. It has been therefore decided to deploy Programmable humanoid Robot at Innovation Hub, Pushpa Gujral Science City, Kapurthala to facilitate answering the questions / apprehensions of the visitors and provide brief information about the various facilities available at PGSC.

TENDER NOTICE

PUSHPA GUJRAL SCIENCE CITY
Jalandhar-Kapurthala Road, Kapurthala
Telephone: 01822 501963 / 64

Online bids are invited from Manufactures / authorized dealers for **Supply of Humanoid Robot** at Pushpa Gujral Science City, Kapurthala.

Interested tenderers can submit online bids through <https://eproc.punjab.gov.in> by **29.06.2021** (1500 Hrs). For further details, please visit website www.pgsciencecity.org

Note:

- Corrigendum and Addendum, if any will be published online at <https://eproc.punjab.gov.in>
- PGSC reserves the right to accept or reject any bid and to annul the process at any time, without any liability and assigning any reason thereof.

PARTICULARS of TENDER

1	Scope of Work	Online bids are invited for Supply of Humanoid Robot at Pushpa Gujral Science City, Kapurthala, Punjab.
2	Type of Tender	Two stage(Technical and Financial Bids to be opened separately)
3	Delivery Period	3 Months from date of placement of order
4	Tender Fee	Rs. 1000/- (Rs. One Thousand only)
5	Earnest Money Deposit	Rs.35,000/- (Rs. Thirty Five Thousand only)
6	Validity of Tender	4 (Four) Months from Last date of submission of Tender
7	Bid Document Download Start Date	08.06.2021 10:00 AM
8	Bid Clarification Start Date	08.06.2021 10:00 AM
9	Bid Clarification End Date	23.06.2021 02:00 PM
10	Bid Submission End Date	29.06.2021 03:00 PM
11	Technical Bid Opening Date	02.07.2021 11:00 AM
12	Financial Bid Opening Date	Shall be intimated separately.
13	Place of Opening of Tender	Pushpa Gujral Science City, Jalandhar-Kapurthala Road, Kapurthala-144601.
14	Contact Persons at PGSC	Mr. Ritesh Pathak, Scientist 'D'

Note:

1. Tender Document can only be downloaded from portal site: <https://eproc.punjab.gov.in>
2. Corrigendum and Addendum, if any will be published online at <https://eproc.punjab.gov.in>
3. Prospective Contractors/Agencies are advised to register themselves with service provider at <http://eproc.punjab.gov.in>(GOI undertaking) well in advance to participate in the tender.
4. PGSC will process the tender as per PGSC norms & procedures and PGSC would not be under any obligation to give any clarification to the agencies whose bids are rejected.
5. Tenderers are advised to visit Science City and see the location during office hours on any working day.
6. PGSC reserves the right to accept or reject any application and to annul the process at any time, without any liability and assigning any reason thereof.
7. PGSC reserves the right to reject / cancel any or all or part of the tender of the tenderer without assigning any reason and shall also not be bound to accept highest tenderer. The decision of the PGSC shall be final and binding.
8. If any of the above dates is declared holiday, the activity scheduled for that day will take place on the next working day.
9. Omission, neglect or failure on the part of tenderer to obtain requisite reliable and full information or any matter affecting his / her tender, shall not relieve the tenderer, from any liability in respect of the contract.

GENERAL INFORMATION and INSTRUCTIONS

1. SCOPE OF WORK

Supply Of Programmable Humanoid Robot At Innovation Hub, Pushpa Gujral Science City, Kapurthala

The details of Scope of Work and technical specifications are given in **Annexure: 1**.

2. SUBMISSION OF TENDERS

- 2.1. All tendering process such as sale of tender documents/deposit of earnest money and submission of bid documents shall be carried out through web site <https://eproc.punjab.gov.in>
- 2.2. The instructions given in **Annexure: 2** for “Instruction for Online Bid Submission” should be strictly followed during submission of the bid.
- 2.3. In case of **tie** i.e. Lowest rates quoted by more than one tenderer, the following evaluation criteria in order of priority may be noted:
 - 2.3.1. Tenderer with higher / highest experience.
 - 2.3.2. Tenderer with Higher / highest Turnover in last 3 years.The above parameters will be inferred from the documents uploaded by tenderer.
- 2.4. No enquiry, whatsoever, verbal or written, shall be entertained in respect of acceptance and or rejection of tender.

3. TENDER DOCUMENT

- 3.1. Tenderers shall fill in all required particulars in the blank spaces provided for this purpose in the tender documents and also **sign each and every page of the tender document** mandatorily including the drawings attached thereto before uploading their tender.
- 3.2. If tenderer find any discrepancies or omissions in the specifications in the tender document or in doubt as to their meanings, tenderer should at once address to the authority inviting the tender for clarifications during clarification period. Every endeavour is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk of any error which may be subsequently discovered and shall make no subsequent claim on account thereof.
- 3.3. Conditional and unsigned tenders, tenders containing absurd rates and amounts, tenders which are incomplete or otherwise considered defective, tenders not in accordance with the tender conditions laid down by the Accepting Officer are liable to be rejected.

4. EARENEST MONEY DEPOSIT (EMD)

- 4.1. EMD amounting to Rs. 35,000/- to be deposited online along the submission of tender on e-portal <http://eproc.punjab.gov.in> .
- 4.2. In case of successful Tenderer, the Earnest Money will be retained as part of the Security Deposit/ Retention Money for satisfactory execution of the contract.
- 4.3. A tender once submitted shall not be withdrawn within a period of four (4) months from the last day

of receipt of the tenders. In the event of a Tenderer withdrawing his tender before the expiry of 4 months from the date fixed for receiving the tender, his tender would be cancelled and the Earnest money deposited with the Pushpa Gujral Science City will be forfeited.

- 4.4. No interest can be claimed for the deposit of earnest or Retention money / security money, which will be lying with Pushpa Gujral Science City.
- 4.5. Tenderer or their authorized Representative, whose tender is accepted, shall within 10 days from the date of placement of order shall provide duplicate copy of order duly signed and stamped as token of acceptance of the order.
- 4.6. Unless the tenderer whose tender is accepted provide duplicate copy of order duly signed and stamped as token of acceptance of the order within 10 days from the date of placement of order, the amount of Earnest Money already deposited by him shall be forfeited and acceptance of his tender withdrawn.
- 4.7. EMD would be forfeited if the successful Tenderer fails to commence and carry out the work as per terms & conditions of the Tender Document.

5. TECHNICAL BID DOCUMENTS

- 5.1. 'Technical Bid Details' as per **Annexure-3** duly filled –in and signed with official stamp
- 5.2. 'Declarations' as per **Annexure-4** duly filled –in and signed with official stamp
- 5.3. Firm profile
- 5.4. Scanned Copy of valid trade license / dealership letter / representative Authority letter from manufacturer.
- 5.5. Attach: Copy of GST Certificate
- 5.6. Attach: Copy of PAN / TAN Card
- 5.7. Technical Brochures of product with technical explanation of every feature of the product.
- 5.8. **Agencies having worked at Pushpa Gujral Science City in the past are mandatorily required to submit Satisfactory Performance Completion Certificate else their bids will be rejected.**
- 5.9. Signed & Stamped copy of Tender Document
- 5.10. Any other Supporting Documents

Note: Tenderer is required to make one (1) pdf file of the above mentioned technical bid documents for uploading the same as 'Technical Bid' on the e-portal.

6. FINANCIAL BID INSTRUCTIONS

- 6.1. The financial Bid (as per **Annexure: 5**) in form attached BOQ proforma shall be dully filled in, digitally signed and uploaded online by bidder.
- 6.2. The price and rates quoted shall be inclusive of cost of materials, supply, providing operational training to concerned staff members and all incidental charges to deliver the tendered item at Pushpa Gujral Science City, Kapurthala, Punjab.
- 6.3. Price and rate quoted shall be firm and fixed for the entire period of execution of the order and no

escalation of rate on any ground whatsoever shall be applicable.

- 6.4. The bidders shall consider the prevailing tax rates while quoting the rates. However, in the event of any changes in the statutory taxes and duties, the rates applicable at the time of payment shall be made by the Competent Authority of PGSC, Kapurthala against submission of supporting documentary evidence.
- 6.5. The rates quoted will be FOR, PGSC, Kapurthala
- 6.6. No taxes or duties other than the indicated above will be paid by the PGSC.
- 6.7. TDS / any other deductions will be deducted as applicable time to time.
- 6.8. Any other item required to complete the work shall be deemed to be included in the quoted amount. Nothing extra will be payable.
- 6.9. If a firm quotes NIL, the bid shall be treated as unresponsive and will not be considered.

7. Placement of order

- 7.1. Order shall be placed in favour of the bidder whose technical bid is acceptable and offered lowest rate as per Financial Bid (Annexure 5)

8. OTHER INSTRUCTIONS

- 8.1. If a Tenderer expires after the submission of his tender or after the acceptance of his tender, the PGSC may at their discretion cancel such tender. If a partner of the firm expires after the submission of the tender or after the acceptance of the tender PGSC Administration may cancel such tender at their discretion unless the firm retains its character/s.
- 8.2. The PGSC Administration will not be bound by any Power of Attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. They may however, recognize such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
- 8.3. The PGSC does not bind themselves to accept lowest tender and reserves the right to reject any or all the tenders received or accept any tender or part thereof without assigning any reason thereof.

TERMS & CONDITIONS

1. PATENT RIGHTS AND ROYALTIES

- 1.1. The tenderer shall indemnify the PGSC against all third party claims of infringement of patent, copyrights, royalties, trademarks or industrial design rights arising from use of the goods, drawing or any part thereof.
- 1.2. The Contractor/ Agency hereby agrees that no claim whatsoever shall be made against the PGSC in respect of any proprietary rights on the part of any other party relating to product / good procured. The Agency shall indemnify the PGSC of all costs and expenses, which may have called upon to do so against such claims.

2. PACKING & FORWARDING

- 2.1. Contractors, wherever applicable, shall pack and crate all equipment in such a manner as to protect them from deterioration and damage during rail and road transportation to the site and storage at the site till the time of erection. The contractor shall be held responsible for all damages due to improper packing.
- 2.2. The contractor shall notify the PGSC of the date of each shipment, and the expected date of arrival at the site.

3. DEMURRAGE, WHARF AGE ETC.

All demurrage, wharf age and other expenses incurred due to delayed clearance of the material or any other reason shall be to the account of the contractor.

4. TRANSPORTATION

The tenderer is required under the contract to deliver the goods PGSC, Kapurthala.

5. TOOLS & TACKLES

The contractor shall provide all reliable tools & tackles for proper execution of work. PGSC shall in no way, responsible for supply of any tools & tackles for implementation of the work.

6. TIME SCHEDULE

- 6.1. Time is the essence of this tender. The delivery of the tendered item (as per technical specifications) would be **3 months** from the date of placement of order.
- 6.2. The tendered item will be delivered at Pushpa Gujral science City, Jalandhar-Kapurthala Road, KAPURTHALA, Punjab, India.

- 6.3. For non-compliance of any of the above terms and non-delivery of the tendered items, complete in all respects within the above stipulated delivery period, the PGSC shall have the right either to cancel the order or impose penalty as detailed in Penalty Clause. Decision in this regard taken by PGSC shall be final and binding on the successful bidder.

7. DELAYS

- 7.1. Within 10 days of the occurrence of any of the following, which the contractor might regard as impediments in the progress of work, the contractor shall apply in writing to the Director General, PGSC for extension of time, setting out the reasons for delays sought to be condoned
- 7.1.1. Addition, alteration or substitution ordered in the work, which could have a significant time impact and issued to the contractor.
- 7.1.2. Act of god or Force Majeure, i.e. a situation arising out of any occurrence totally beyond the control of the contractor, and explicitly excluding consequences of actions of the contractor or his staff or agents.
- 7.1.3. Forced closure of the works by a general political strike and unrest not related to contractor's labour or personnel.
- 7.2. The contractor's application for extension of time in any of the above circumstances shall be considered by Director General, PGSC and her decision shall be final and binding.
- 7.3. The granting of any extension of time shall not entitle the contractor to claim any additional remuneration or consideration whatever for costs incurred as a result of such delays or due to cost escalation.

8. PENALTY CLAUSE

- 8.1. The time allowed for carrying out the work as entered in the Tender shall be strictly observed by the Contractor and shall be reckoned from the date of placement of order. The work / supply shall throughout the stipulated period be proceeded with all due diligence and the successful bidder shall pay an amount equal to one percent of contract value for every week or part of a week that the work remains unfinished after the expiry of the completion date subject to maximum of 10% of the contract value.
- 8.2. Director General, PGSC may on representation from the Contractor reduce the amount of compensation and his decision in writing shall be final.

9. PAYMENT SCHEDULE

- 9.1. No Advance payment will be made at the time of release of the order

- 9.2. Payment shall be released within 30 working days from the date of receipt of Tax Invoice, duly supported by receipted challan and subject to satisfactory inspection and providing operational training to concerned staff members of PGSC.
- 9.3. **Ten % (10%)** of payment will be deducted and retained as Retention Money for Warranty Period.
- 9.4. TDS and / or any other tax will be deducted as per rules.

10. RETENTION MONEY

- 10.1. Retention Money shall be equivalent of 10% of the payments plus Earnest money deposited by the Agency.
- 10.2. This Retention Money will be released after expiry of Warranty Period or after receipt of Bank Guarantee of equivalent amount valid for Warranty Period. The Performa for Bank Guarantee is enclosed at **Annexure-6**.

11. WARRANTY

- 11.1. Manufacturer's standard onsite warranty for the equipment should be offered by the bidder as per Warranty mentioned in scope of work at **Annexure: 1**. The bidder shall be responsible for all the defects of materials for the entire warranty period from the date of final acceptance of the ordered material.
- 11.2. The Tenderer warrants that the Goods supplied under the contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the contract.
- 11.3. The PGSC shall promptly notify the Tenderer in writing of any claims arising under this warranty.
- 11.4. Upon receipt of such notice, the tenderer shall, with all reasonable repairs or replace the defective Goods or parts thereof, without cost to the PGSC.
- 11.5. If Tenderer fails to remedy the defect(s) within a reasonable period, the PGSC may proceed to take such remedial action as may be necessary, at the Tenderer's risk and expense and without prejudice to any other rights which the PGSC may have against the Tenderer under the contract.

12. ARBITRATION

- 12.1. All questions and disputes of any kind whatsoever between PGSC and the contractor **arising out of this agreement** entered into or in relation thereto or regarding the interpretation of any clause, terms and conditions thereof shall be referred to the Director General, Pushpa Gujral Science City acting as such at the time of reference or any other person as may be nominated by the Director General, PGSC who will be the sole arbitrator and his/her decision will be final and binding. In case the nominated

Arbitrator is unable to commence or continue with the Arbitral proceedings for any reason whatsoever, the DG shall nominate / appoint another officer of PGSC who shall commence the proceedings and decide the reference. The provision of Arbitration and Conciliation Act 1996 shall apply.

12.2. The place for arbitration will be Kapurthala.

13. LEGAL JURISDICTION

District Courts at Kapurthala, Punjab

14. SET OFF

14.1. Any sum of money due and payable to the Bidder/Supplier/Contractor (including security deposit refundable to him) under this contract may be appropriated by the Buyer (PGSC) to set off the same against any claim of the Buyer (PGSC) for payment of a sum of money arising out of this contract made by the Bidder/Supplier/Contractor with Buyer (PGSC)

SCOPE OF WORK

SUPPLY OF PROGRAMMABLE HUMANOID ROBOT AT INNOVATION HUB, PUSHPA GUJRAL SCIENCE CITY, KAPURTHALA

Programmable Humanoid robot is the ideal platform for teaching Science, Technology, Engineering and Math (STEM) concepts at all levels. It has been therefore decided to deploy Programmable humanoid Robot at Innovation Hub, Pushpa Gujral Science City, Kapurthala to facilitate answering the questions / apprehensions of the visitors and provide brief information about the various facilities available at PGSC.

The future ready programmable humanoid Robot should have embedded intelligence to reproduce human-like behaviour. It will interact with visitors by responding to the queries raised by them and by body movement in humanly manner.

Key features:

The Robot should have the following features:

1. **Omni directional walking:** Humanoid Robot can walk on a variety of floor surfaces, such as tiled, and wooden floors.
2. **Whole body motion:** The programmable Humanoid Robot's motion module should be based on generalized inverse kinematics, which handles Cartesian coordinates, joint control, balance, redundancy, and task priority.
3. **Fall Manager:** The Robot should be able to shift its balance according to centre of mass and if fall is detected then it must be able to get up by itself.
4. The Robot should be able to detect and recognize face, speech and shapes etc.
5. Autonomous interaction with the world using embedded intelligence to reproduce human-like behaviour.

The following sample programs (editable) should be supplied with the Robot:

1. Home Position (Initial position): A sample motion in case of no command input.
2. Greeting: Bows/Hand Wave slowly and greet visitors.
3. Walk: Slow, fast, Backward and forward walk sample.
4. Run: Run with adjustable speed.
5. Speak and voice listening command.
6. Initiates speech based conversations with the visitor, based on face detection & face recognition.
7. Hand Movement: Make hands move.
8. Stand up, Sit down, etc.
9. And all other basic sample packages available for robot.

Training:

The firm will provide complete training to the designated PGSC staff with respect to programming, operation and maintenance of the humanoid robot.

Technical Specification

Construction details:

1. Dimensions :

Height(mm): 570mm or more

Depth(mm): 310 mm or more

Width (mm): 275 mm or more

2. Weight: less than 10 Kg.

3. Motors should not be visible.

Mother board:

1. Processor: ATOM 1.9Ghz quad-core processor or Higher.

2. RAM: 4GB DDR3.

3. Flash memory: 32GB eMMC.

Power Supply:

1. Battery: Lithium-Ion type, Max charge / discharge current: 2.1 A / 2.0 A , Energy: 62.5 Wh , Charging duration: less than 120 min , Run time: 60 min (Active use), 90 min (Normal use) or more.

2. Battery Charger: Input: 100 to 240 VAC – 50/60 Hz – Max 1.2 A, Output: 25.2 VDC – 2A.

The Charger must be compatible with the battery of robot.

Connectivity:

1. Ethernet-1 (10/100/1000 base T)
2. WiFi: IEEE 802.11 a/b/g/n(2.4GHz, 5GHz)
3. Bluetooth 4.0

Software:

1. Free and programmable
2. Drag and Drop/GUI based programming software
3. Operating System
4. Compatible OS:Windows, Mac OS, Linux
5. Software licenses for Choregraphe (Site/Unlimited Access)
6. User Manual
7. Full SDK and API

Human Interaction:

Sensors	
Sonar	Numbers: 2 Range : 0.2m to 0.8m Resolution: 1cm Sensitivity: -86dB Frequency:40KHz
Force Sensitive Resistor	Numbers: 4 in each foot Range: 0 to 110N Sensitivity: 40g approx.
Position Sensor	Number:36 Type: MRE(Magnetic Rotary Encoder) Precision: 12bits/0.1°
Inertial Unit	
Gyrometer	Numbers: 1 Axis: 3
Accelerometer	Numbers: 1 Axis: 3
Contact Sensors	
Tactile Head Sensor	Numbers: 3
Tactile Hand Sensor	Numbers: 3
Foot Bumper	Numbers: 2(1 per foot)

Interaction	
Loud Speakers	Numbers: 2 Input: 2W
Microphone	Numbers: 4 Sensitivity: ~12dBv/PA Frequency range: 100Hz to 10KHz
Camera	Numbers: 2 Resolution: 5MP SOC- CMOS Image sensor
LED	Numbers: 12(Tactile Head) 8(Each eye) 10(each ears) 1(Chest Button) 2(Each foot)

1. Automatic Speech and face detection and recognition system.
2. Omni directional microphones and loud speakers for Voice recognition/interaction,
3. Good resolution cameras with wide field view which can support face recognition system, 3D imaging.

4. Force sensitive sensors, Gyro sensor, tactile sensors, transmitter- receiver sensors, push buttons etc.
5. Detect obstacles, avoid falls, and get right back up again.
6. Multi Language Support for conversation.

Degrees of Freedom: 25

1. Head:2,
2. Arms(in each): 5,
3. Pelvis:1,
4. Leg (in each): 5,
5. Hand(in each):1,

Warranty:

Commercial Warranty of **2 years** applicable from date of installation. During the warranty period supplier will have to provide the services and part replacement against manufacturing defects.

The PGSC reserves to itself the right of omitting altogether any item of work required to complete the fabrication, installation and commissioning of exhibit at the time of award of the work or at later date and the contractor shall complete work without any additional compensation due to this omission.

“Instructions for Online Bid Submission”

The Bidders are required to submit soft copies of their Bids electronically on the E-Procurement Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the Bidders in registering on the E-Procurement Portal, prepare their Bids in accordance with the requirements and submitting their Bids online on the E-Procurement Portal.

More information useful for submitting online Bids on the E-Procurement Portal may be obtained at website or URL: <https://eproc.punjab.gov.in>

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the E-Procurement Portal ([URLhttps://eproc.punjab.gov.in](https://eproc.punjab.gov.in)) by clicking on the link **“Online Bidder Enrolment”** on the E-Procurement Portal.
- 2) As part of the enrolment process, the Bidders will be required to choose a unique **Username and assign a Password** for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the E-Procurement Portal.
- 4) Upon enrolment, the Bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA (Certified Coding Associates) India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a Bidder. Please note that the Bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- 6) Bidder then logs in the site through the secured log-in by entering their user ID / password and the password of the DSC/e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the E-Procurement Portal, to facilitate Bidders to search active Tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There could also an option of advanced search for Tenders, wherein the Bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a Tender published on the E-Procurement Portal.
- 2) Once the Bidders have selected the Tenders they are interested in, they may download the required Tender documents /Tender schedules. The Tender can be moved to the respective ‘My Tenders’ folder. This would enable the E-Procurement Portal to intimate the Bidders through SMS/e-mail in case there is any Addendum/Corrigendum issued to the Tender document.
- 3) The Bidder should make a note of the unique Tender ID assigned to each Tender in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any Addendum/Corrigendum published for the Tender document before submitting their Bids.

- 2) Please go through the Tender advertisement and the Tender document carefully to understand the documents required to be submitted as part of the Bid. Please note the number of Packages/covers in which the Bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the Bid.
- 3) Bidder, in advance, should make ready the Bid documents to be submitted as indicated in the Tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every Bid, a provision of uploading such standard documents (e.g. Firm's Registration Certificate, Financial Statements, Auditor certificates etc.) has been provided to the Bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a Bid, and need not be uploaded again and again. This will lead to a reduction in the time required for Bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for closing date and time for Bid submission so that they can upload the Bid in time. Procuring Entity will not be responsible for any delay whatsoever.
- 2) The Bidder has to digitally sign and upload the required Bid documents one by one as indicated in the Bidding document.
- 3) Bidder has to select the payment option as "online" to pay the **Bid security** if applicable and enter details of the instrument.
- 4) Bidders are requested to note that they should necessarily submit their financial Bids in the format provided and no other format is acceptable. If the price Bid has been given as a standard format with the Tender document, then the same is to be downloaded and to be filled by all the Bidders. Once the details have been completed, the Bidder should save it and submit it online, without changing the filename. If the Descriptions in the file are found to be modified by the Bidder, the Bid will be rejected.
- 5) The server time (which is displayed on the Bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the Bids by the Bidders, opening of Bids etc. The Bidders should follow this time during Bid submission.
- 6) All the documents being submitted by the Bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of Bid opening. The confidentiality of the Bids is maintained using the secured Socket Layer 128bit encryption technology. Data storage encryption of sensitive fields is done. Any Bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/Bid opening officials' public keys. Overall, the uploaded Tender documents become readable only after the Tender opening by the authorized Bid opening officials.
- 7) The uploaded Bid documents become readable only after the opening of the Bids by the authorized Bid opening officials.
- 8) Upon the successful and timely submission of Bid (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful Bid submission message & a Bid summary will be displayed with the Bid no. and the date & time of submission of the Bid with all other relevant details.

- 9) The Bid summary has to be printed and kept as an acknowledgement of the submission of the Bid. This acknowledgement may be used as an entry pass for any Bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the Tender document and the terms and conditions contained therein should be addressed to the Bid Inviting Authority for a Tender or the relevant contact person indicated in the Tender.
- 2) Any queries relating to the process of online Bid submission or queries relating to E-Procurement Portal in general may be directed to the 24x7 E-Procurement Portal Helpdesk (0172-2970263 / 0172-2970284)

PARTICULARS OF TENDERER

Use Additional Sheet if necessary

S. No		
1	Name of Agency	
2	<ul style="list-style-type: none"> ➤ Postal Address ➤ E-mail address ➤ Telephone No. ➤ Fax No 	
3	Name and designation of the representative of the Agency to whom all references shall be made Mobile No. Email id.	
4	Background Details of the firm (State whether original manufacturer / direct dealer / authorized representative of the Manufacturer) In case of direct dealer, submit copy of valid dealership license issued by manufacturer. In case of Authorized Representative, submit copy of valid Authority letter issued by manufacturer.	
5	Status of Organization (Whether Private/ Public Sector Undertaking / Sole Proprietor / Partnership/Cooperative Society etc.)	
6	PAN / TAN No.: Self-Attested copy	
7	GST No.: Self-Attested copy	
8	Past Experience of similar work / business in last 5 years (Attach copy of Experience / Work order / Satisfactory Certificates Clients / Government offices)	
9	Whether capable to execute the tendered item strictly as per enclosed technical specifications (Please mention Yes or NO) If it is mentioned 'NO' above, submit detailed deviation to be made from the enclosed technical specification. (Additional sheets may be attached, if required) If it is mentioned 'YES' above, submit copies of product brochure as proof of their statement	
10	State the Name & Address of the Manufacturer whose product has been offered / quoted by the tenderer	

11	Proof of financial status of the firm Attach Audited Balance Sheets for last 3 years indicating turnover as well)	
12	State whether Firm has not been blacklisted by any Govt., Semi-Govt. Deptt. or any other organization. (<i>Affidavit / Self Declaration from the tenderer should be attached</i>)	

I / We hereby declare that the above statement are true. I / We also declare that the decision of Pushpa Gujral Science City, Kapurthala, Punjab regarding selection of eligible firms for opening of Financial Bid shall be final and binding on me / us.

(Name & Signature of Authorized Person) With seal

Date:

Place:

DECLARATIONS

Declaration – I

We do hereby accept the 'terms & conditions' as provided by the Pushpa Gujral Science City (PGSC), Kapurthala along with the tender documents for Supply of Humanoid Robot at Pushpa Gujral Science City, Kapurthala and also undertake to supply the said materials at Pushpa Gujral Science City, Kapurthala strictly as per the technical specifications of Pushpa Gujral Science City as provided along with tender documents, in the event of placement of any order with us. The PGSC shall be at liberty to cancel the order in full or in part the event of failure of any of the above declaration made by us.

Signature of the Bidder

Declaration – II

This is to certify that I/We have no close relative as an employee of Pushpa Gujral Science City (PGSC), Kapurthala (close relative means: Father, Mother, Brother, Sister, Son, Daughter and Spouse) nor any such close relatives are associated with us as proprietor / partner / share holder / ditrector and like.

Signature of the Bidder

Declaration – III

This is to certify that our Firm has not been blacklisted by any Govt., Semi-Govt. Deptt. or any other organization.

Signature of the Bidder

FINANCIAL BID
Supply of HUMANOID ROBOT

Item of work	Amount in Figures
Supply of HUMANOID ROBOT as per Technical Specification (Annexure: 1)at Pushpa Gujral Science City, Jalandhar-Kapurthala Road, Kapurthala.	AMOUNT TO BE QUOTED ONLINE
Amount quoted must include cost of materials , any item not specified above but required to complete the job in its totality, supply, providing operational training to concerned staff members and all incidental charges, tools, tackles and accessories, taxes, GST, import duty, transportation and installation charges, to deliver the tendered item at Pushpa Gujral Science City, Kapurthala, Punjab.	

The above quoted price will be NET PAYABLE. No taxes or duties other than indicated above will be charged.

Name, Signature & Seal of Tenderer

Note:

- *No taxes or duties other than the indicated above will be paid by the PGSC.*
- *TDS / any other deductions will be deducted as applicable time to time.*
- *Any other item required to complete the work shall be deemed to be included in the quoted amount. Nothing extra will be payable.*
- *The above financial bid quoted for turnkey project will be considered in Financial Evaluation.*

**SPECIMEN
PERFORMANCE BANK GUARANTEE**

To
Name of Purchaser
Address of Purchaser.....

Whereas (Name and address of contractor).....
Date..... To execute (Name of contract and Brief description of works).

AND WHEREAS it has been stipulated by you in the said contract that the contractor shall furnish you with a Bank Guarantee by recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the contract.

AND WHEREAS we have agreed to give the contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the guarantor and responsible to you on behalf of the contractor, upto a total of amount of guarantee.....
(in words We undertake to pay you upon your first written demand and without cavil or argument, any sum or sums within the limit of amount of guarantee.....as aforesaid without your needing to prove or to show ground or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand.

We further agree that no change or addition to or other modifications for the terms of the contract or of work to be performed there under or any of the contract documents which may be made between you and contractor shall in any release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modifications.

This guarantee is valid until the date..... after the issuing of the maintenance certificate.

SIGNATURE AND SEAL OF THE GUARANTOR.....

Name of Bank.....
Address.....
Date

CHECK LIST		
S. No.	Items	(To be filled in by the Tenderer) Documents attached at which page number
	TECHNICAL BID	
1.	Tenderer Details as per Annexure: 3	
2.	Declarations as per Annexure: 4	
3.	Company Profile	
4.	Scanned Copy of valid trade license / dealership letter / representative Authority letter from manufacturer	
5.	Copy of complete GST registration certificate [all pages]	
6.	Copy of PAN / TAN	
7.	Copies of Testimonials/Certificates etc. regarding past experience and completion of the similar work done required for eligibility criteria and calculation of years of similar work experience.	
8.	Agencies who had earlier done any job / work for Pushpa Gujral Science City in the past have to compulsorily submit a Certificate of Satisfactory Performance otherwise tender will be rejected.	
8.	Copies of Balance Sheets certified by the Chartered Accountant (CA) for the last 3 years indicating turnover	
9.	Signed & Stamped Scope of work & Technical Specification Sheet as per Annexure: 1	
10.	Technical Brochures	
11.	Signed & Stamped Tender Document	
12.	Any other supporting document / information	
	FINANCIAL BID	
16.	Financial Bid online (Annexure: 5)	ONLINE

(Name & Signature of Authorized Person) With seal

Date:

Place:

Note: Tenderer is required to make one (1) pdf file of the above mentioned technical bid documents for uploading the same as 'Technical Bid' on the e-portal.

(Please see all the documents are uploaded as per Tender Document (Checklists for ready reference for mandatory documents)