

**बिड दस्तावेज़ / Bid Document**

<b>बिड विवरण / Bid Details</b>	
<b>बिड बंद होने की तारीख/समय / Bid End Date/Time</b>	06-04-2026 13:00:00
<b>बिड खुलने की तारीख/समय / Bid Opening Date/Time</b>	06-04-2026 13:30:00
<b>बिड पेशकश वैधता (बंद होने की तारीख से) / Bid Offer Validity (From End Date)</b>	30 (Days)
<b>मंत्रालय/राज्य का नाम / Ministry/State Name</b>	Ministry Of Education
<b>विभाग का नाम / Department Name</b>	Department Of School Education And Literacy
<b>संगठन का नाम / Organisation Name</b>	Kendriya Vidyalaya Sangathan
<b>कार्यालय का नाम / Office Name</b>	Regional Office Bhubaneswar
<b>कुल मात्रा / Total Quantity</b>	1
<b>वस्तु श्रेणी / Item Category</b>	TERA Package 1 - Robotics and Automation Modular Skilling Kits (Q3)
<b>बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) / Minimum Average Annual Turnover of the bidder (For 3 Years)</b>	2 Lakh (s)
<b>मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का) / OEM Average Turnover (Last 3 Years)</b>	2 Lakh (s)
<b>उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष / Years of Past Experience Required for same/similar service</b>	3 Year (s)
<b>एमएसएमई के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / MSE Relaxation for Years of Experience and Turnover</b>	No
<b>स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / Startup Relaxation for Years of Experience and Turnover</b>	No
<b>विक्रेता से मांगे गए दस्तावेज़ / Document required from seller</b>	Experience Criteria, Past Performance, Bidder Turnover, OEM Annual Turnover *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer

बिड विवरण/Bid Details	
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेन् है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	1
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	3
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	1
विगत प्रदर्शन /Past Performance	10 %
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
बिड का प्रकार/Type of Bid	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	2 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
अनुमानित बिड मूल्य / Estimated Bid Value	450000
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

#### ईएमडी विवरण/EMD Detail

आवश्यकता/Required	No
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#### ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%) /ePBG Percentage(%)	0.01
ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).	15

(a). ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

**लाभार्थी /Beneficiary :**

PRINCIPAL

Regional Office Bhubaneswar, Department of School Education and Literacy, KENDRIYA VIDYALAYA SANGATHAN, Ministry of Education  
(Aditya Kumar Panda)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

**एमआईआई खरीद वरीयता/MII Purchase Preference**

एमआईआई खरीद वरीयता/MII Purchase Preference	No
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**एमएसई खरीद वरीयता/MSE Purchase Preference**

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं को खरीद में प्राथमिकता, यदि उनका मूल्य $L1+X\%$ तक की सीमा में हो / Purchase Preference to MSE OEMs available upto price within $L1+X\%$	15
सूक्ष्म और लघु उद्यम को खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MSE purchase preference	25

1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are

excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

5. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

6. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 10% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

## **TERA Package 1 - Robotics And Automation Modular Skilling Kits ( 1 set )**

### **तकनीकी विशिष्टियाँ /Technical Specifications**

[\\* जेम केटेगरी विशिष्टि के अनुसार / As per GeM Category Specification](#)

<b>विवरण/Specification</b>	<b>विशिष्टि का नाम /Specification Name</b>	<b>बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)</b>
COMPONENTS	<b>Component 1</b>	1 Set of Power Module (Specification: DC-DC 12V to 3.3V 5V 12V; Power Module Multi Output Voltage Conversion; Input voltage: 9-35V; Output voltage: 5V; Output current: 5A; Output power: 25w)
	<b>Component 2</b>	1 Set of Motor Module (Specification: Operating Voltage (VDC): 3 to 5.5; Length (mm): 24; Width (mm): 20; Height (mm): 10; Mounting hole diameter (mm): 2)
	<b>Component 3</b>	1 Set of Receiver (Specification: NRF24L01 is a universal ISM band monolithic transceiver chip works in the 2.4-2.5GHz)
	<b>Component 4</b>	1 Set of Transmitter (Specification: NRF24L01 is a universal ISM band monolithic transceiver chip works in the 2.4-2.5GHz)
	<b>Component 5</b>	1 Set of Light Sensor (Specification: It is in a dormant state when in a lighting environment, for example in daytime. It can be controlled by any sound and it will work In a dark environment, for example at night. If the sensor feels sound, the controlled lamp will be light for about one minute; Operating Voltage: 3.3V to 5V DC; Operating Current: 15mA)
	<b>Component 6</b>	1 Set of Light Module (Specification: LED 3V)

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
	<b>Component 7</b>	1 Set of Sound Module (Specification: OPERATING VOLTAGE: DC 4 to 7V , Sound Output : ?85dB; External Material: Plastic; Frequency: 2300+/-300Hz; Current: 30mA; Operating Temperature: -20 to +85?)
	<b>Component 8</b>	1 Set of Dimmer (Specification: 10K Potentiometer)
	<b>Component 9</b>	1 Set of Pulse Delay (Specification: timer circuit )
	<b>Component 10</b>	1 Set of Controller (Specification: arduino nano)
	<b>Component 11</b>	1 Set of Not Gate
	<b>Component 12</b>	1 Set of And Gate (Specification: 7400)
	<b>Component 13</b>	1 Set of OR Gate
	<b>Component 14</b>	5 Set of Push Button Switch (Specification: Operating Voltage (VDC): 12; Max. Operating Current (mA): 50mA; On/Off Function: Push to ON; Switch Type: Momentary; Contact Type : Through-hole; Contact Material :Brass; Contact Resistance: 50m?; Insulation Resistance (M?): 100; Operating Temperature Range (°C): -20 to 70)
	<b>Component 15</b>	1 Set of Split (Specification: Connector One: 4 Pin D-type Connector Big (Female); Connector Two: 15 PIN 2 SATA connector (Female); Ideal for DVR HDD; Plug & Play; Length: 10cm)
	<b>Component 16</b>	1 Set of Servo Base (Specification: IC-7400)
	<b>Component 17</b>	1 Set of Push Button (Specification: Rated Insulation Voltage (Ui) : 600V; Agreed Thermal Current (Ith):10A; Switch Top Diameter: 39 mm; Switch Mount Neck Diameter: 23 mm)
	<b>Component 18</b>	1 Set of Sensor Base (Specification: DC-INPUT? working voltage or input supply voltage (range is DC 3V to 12V; VOUT: signal output pin. Output: High-level signal 3V; Standby 0 V?; Voutput can be as same as DC-Input by adding some components; Delay time adjustment: the default delay time is 10s, which can be adjusted by changing the resistor)
	<b>Component 19</b>	1 Set of Motion Sensor (Specification: Wide Working Voltage Range: DC 4.5V- 20V; Current Drain: <60uA; Detection Angle: <140°; Detection Distance: 3 to 7m (can be adjusted); Blockade time: 2.5s (Default); Work temperature: -20-+80°C)
	<b>Component 20</b>	1 Set of Magnetic Sensor and Magnet (Specification: Shaft Size: 1.0 mm; Rated Voltage: 3.7 V; Current: 0.1 A; Rated RPM: 48000; Wire Length: 5cm)
	<b>Component 21</b>	1 Set of Vibration Sensor (Specification: Operating voltage: 3.3 V to 5 V; 4 cm x 2.4 cm PCB size; Digital interface Waterproof module; Compression resistance; Non-directional; High sensitivity; Respond to vibration and tilt)

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
	<b>Component 22</b>	1 Set of Tilt Sensor (Specification: Operating voltage 3.3V-12V; A fixed bolt hole for easy installation; Wide voltage LM393 comparator; Maximum output current: 15mA; Can work on low voltages)
	<b>Component 23</b>	1 Set of IR Sensor (Specification: Detection distance: 2 ~ 30cm; Detection angle: 35 °; Comparator chip: LM393; 3mm screw holes for easy mounting; Detection Angle: 35 Å°; Distance Measuring Range (CM): 2 to 30)
	<b>Component 24</b>	1 Set of Moisture Sensor (Specification: moisture module)
	<b>Component 25</b>	1 Set of Water Pump (Specification: mini water pump)
	<b>Component 26</b>	1 Set of DC Motor (Specification: DC BO motor)
	<b>Component 27</b>	1 Set of Servo Motor (Specification: SG-90)
	<b>Component 28</b>	1 Set of Chassis Board (Specification: As per Design (L-250, W-100, Thick-3)mm)
	<b>Component 29</b>	4 Set of Wheels (Specification: Shaft Diameter (mm): 5.4mm-(round side) and 3.5mm-(flat side); Wheel Diameter(mm): 60; Wheel Width(mm): 40)
	<b>Component 30</b>	4 Set of Caster Wheel (Specification: Product: Wheels; Color: White; Material: Metal & Plastic; Diameter: 30 mm; Wheel Height: 37mm)
	<b>Component 31</b>	1 Set of Connecting Wires (Specification: Colour: Red, Green, Yellow, White and Black; Cable Length: 20 cm; Connector Type: Crocodile Pins and Female Dupont Connector; Color-coded insulated leads allow you to test circuits without crossing; wires or causing shorts with each other)
	<b>Component 32</b>	1 Set of Pipe (Specification: Diameter 8mm, Length - 1000mm, Make - Plastic)
	<b>Component 33</b>	1 Set of Battery Connector (Specification: AA Size of 4 Sets)
	<b>Component 34</b>	1 Set of Screw, Nuts and Bolts (Specification: M6-10, M6-10, and Nut & Bolts: M5-10, M6-10 with Nuts)
	<b>Component 35</b>	4 Set of Clamps (Specification: Material: Mild Steel; Thickness: 1.5 mm; Motor Mounting Hole: 3 mm; Bracket Mounting Hole: 4 mm)
	<b>Component 36</b>	2 Set of USB (Specification: Cable length: 1 Meter; Colour: White, Orange, Black, Blue; Best replacement for the original one or acts as a spare; The cable is made of durable and high-quality material; Enable you to easily transfer all your files from or to cellphone)

**Additional Specification Parameters - TERA Package 1 - Robotics And Automation Modular Skilling Kits ( 1 set )**

Specification Parameter Name	Bid Requirement (Allowed Values)
As per ATC uploaded document	As per ATC uploaded document

\* Bidders offering must also comply with the additional specification parameters mentioned above.

**परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity**

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	ADITYA KUMAR PANDA	751022,PM SHRI Kendriya Vidyalaya No. 1 , BHOI NAGAR, UNIT - IX BHUBANESWAR- 751022	1	15

**क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions****1. Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be  $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$ , subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

**2. Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

PLEASE REFER TO ATC ADDED DOCUMENT. IT HAS REQUIREMENT AND OTHER CONDITION WITH FORMAT

**3. Buyer Added Bid Specific ATC**

Buyer uploaded ATC document [Click here to view the file.](#)

**अस्वीकरण/Disclaimer**

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of

bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

**All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.**

**For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.**

**The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:**

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

**All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate**

**action in accordance with the contract and applicable law.**

[यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions](#)

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

**---धन्यवाद/Thank You---**