



बिड संख्या/Bid Number: GEM/2025/B/6685696

दिनांक /Dated: 28-09-2025

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	20-10-2025 13:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	20-10-2025 13:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	30 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Bihar
विभाग का नाम/Department Name	Science & Technology Department Bihar
संगठन का नाम/Organisation Name	Science And Technology Department
कार्यालय का नाम/Office Name	Sershah Engineering College Sasaram
कुल मात्रा/Total Quantity	1
वस्तु श्रेणी /Item Category	DSP Lab Electrical Machine and power system
	DSP Trainer Kit with JTAG to USB Programming Cable The kit feature the TMS320C6745 DSP or equivalent series with Fixed- and Floatingpoint processor a 375 MHz device delivering up to 3648 million instructions per second (MIPs) and 2736 MFLOPS On board clock generator This Kita White noise generator of Amplitude 0-5vpp with Signal and noise adder on board On Board 4*4 LED matrix,20+2 character LCD display 7 segment displays available on the Kit. JTAG supported via USB programmable cable toprovided. TLV320AIC23B programmable stereo codec and expansion for port connector for plug-in modules be Providedfacility for 8 DIP switches for inputs and 8 LED indication for output compatible with Code Composer Studio to write programs and implement on the DSP Chip. Experimental Manual with at least 30 experiments provided and the Source codes for these experiments provided all with the Trainer. TO STUDY DISTANCE RELAY "NUMERICAL" TYPE WITH SOFTWARE THROUGH PC INTERFACING Experiments 1. Study of Distance Protection Relay Physically. 2. Study the connection the relay from PC. 3. Study the checking of setting of Zone-1 in Distance Protection Relay by changing Impedance. 4. Study the checking of setting of Zone-2 in Distance Protection Relay by changing Impedance. 5. Study the checking of setting of Zone-3 in Distance Protection Relay by changing Impedance. 6. Study the checking of setting of Zone-4 in Distance Protection Relay by changing Impedance. INSTRUMENTS REQUIRED 1. Numerical Type Distance Protection Relay for Study 2. Three Phase Transformer 400/110 V. 3. Three Phase Contactor 4. Digital Ammeter - 1 No. 5. Digital Voltmeter - 1 No. 6. Different Value of Impedances 7. Current Transformer 8. 50V AC

बिड विवरण / Bid Details	Power Supply, 9. TPN MCB. Transmission line representing 400 Kms, 33 KV transmission line with Air cored inductors with almost linear behavior up to fault current.
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	<p>Specifications: Numerical Distance Protection Relay Description • Phase Impedance Protection • Ground Voltage Protection • Under Voltage Protection • Negative Phase Sequence Protection • Broken Conductor Detection • Negative Phase Sequence Over Voltage Protection • Instantaneous/Definite Time Phase Over current Protection • Inverse Time Phase Over current Protection • Instantaneous/Definite Time Ground Over current Protection • Inverse Time Ground Over current Protection • Over Voltage Protection • Residual Over Voltage Protection • Fault locator • Directional Phase Over current Protection • Directional Ground Over current Protection • Out of Step Protection • Breaker Failure • VT Supervision Detection • CT Supervision Detection • Auto reclosing • Lockout (Trip command) Testing panel modules mounted on sturdy aluminum profile flat demo system, consisting of colorful vinyl printed overlays circuit diagram, various high voltage components fixed on sturdy Bakelite sheet, fixed to modular aluminium profile structure foot mounted with extended control desk made of 19 mm ply board with sunmica fitted top. The back of testing panel modules protective cover. The above panel (Shook proof banana jack terminal (BS-10), BS10 safety terminals are in compliance with IS302-1/IEC60335-1 & measuring device tested from NABL accredited Lab). Test report from NABL certified lab provided.Type : Squirrel Cage Phase : Three Capacity : 2.5 kW R.P.M.: : 1460 to be displayed on Panel Board using Proximity Sensor fitted on shaft Volt : 415 Starting : DOL Insulation : Class 'B' Enclosure : TEFC foot mounted Connections : All the terminals of stator winding are brought over to a engraved bakelite sheet, fixed to C.I. terminal box, fitted on top of Motor. Mechanical Loading : Loading of the Motor be made through Pronney brake arrangement, consisting of a C.I. drum pulley, suitable for water cooling, Calibrated DigitalLinear Sensor with LCD Display for torque, weight in kg & diameter of the pulley, canvas belt with hooks, C.P. wheels with threaded studs fortightening the belt, frame. The pronney brake loading arrangement be flexibly coupled (through Love-Joy coupling) to shaft of the motor so that motor is easily detachable from the mechanical loading arrangement as and when required. Machines be from ISO Certified Company. Control Board: - Rust free powder coated control board made up of high grade Fibre mouldedbody (FRP) of minimum thickness 4 mm for better safety & in compliance with IS3021/IEC60335-1, tested from NABL accredited Lab. Shock proof banana jack terminal (BS-10), BS10 safety terminals are in compliance with IS302-1/IEC60335-1, tested from NABL accredited Lab. The Enclosure is open from front side for fitting of Engraved diagram Bakeliteplate. Back side door is with hinges & lock for open the door from back side suitable for table mounting. The Control panel be provided to fit the instruments mentioned below of Size L -1220mm x H- 610mm x D - 230mm. The control panel be mounted on M.S. Angle frame of size 35mm x 35mm x 4mm of height 760 mm with provision for grouting on floor through fasteners. The frame have extended platform with hinges made of 19mm ply- board with sun-mica fitted top of size 1220mm x 305mm. (i) Digital AC Voltmeter Micro-controller based, NABL Certified, 0-500V – 1 No. (ii) Digital AC Ammeter Micro-controller based, NABL Certified, 0-5A – 1</p>

बिड विवरण/Bid Details	No. (iii) Digital Wattmeter Micro-controller based, NABL Certified 5 Amp - 1 (iv) LCD Display for measure the torque, weight in kg & diameter of the pulley - 1 No. (v) TPN MCB 10 Amp - 01 No. (vi) Indicating Lamps LED type 16 mm dia - 3 Nos. (vii) DOL Starter - 01 No. (viii) Insulating banana jack terminal. (ix) Patch chords. (x) Instruction manual Supplied with data acquisition instrument with software. Monitoring motor current, voltage, power torque in NM/KGCM, Speed of RPM, Make real time graph on PC, data monitoring and recording on PC motor on/off using panel and PC software. [Note PC To be made available by the institute having window 10 os11 compatible] ADDITIONAL ACCESSORIES COMPULSORY ITEMS (EXTERNALLY CONNECTED) REQUIRE TO CONDUCT EXPERIMENT: Three Phase Variac, 10 Amp Enclosed type with Caster Wheels and input & output terminals brought out for ease of connections - 1 No. Category not available on GeM for the text string uploaded by the buyer
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	terminals brought out for ease of connections - 1 No. Category not available on GeM for the text string uploaded by the buyer
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> • DIGITAL SIGNAL PROCESSING BOARD • Squirrel Cage Induction Motor, Flange Mounted (V2)
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)	25 Lakh (s)
मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)/OEM Average Turnover (Last 3 Years)	200 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	3 Year (s)
एमएसएमई के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है/MSE Exemption for Years of Experience and Turnover	No
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है /Startup Exemption for Years of Experience and Turnover	No
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC),Compliance of BoQ specification and supporting document *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
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेज़ों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेनू है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	No

बिड विवरण/Bid Details	
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	3
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	80 %
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	Yes
रिवर्स नीलामी योग्यता नियम/RA Qualification Rule	50% Lowest Priced Technically Qualified Bidders
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
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	100000

ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%)/ePBG Percentage(%)	3.00
ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).	38

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनियोग तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से

बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b).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

SHERSHAH ENGINEERING COLLEGE SASARAM, Science & Technology Department Bihar, Science and Technology Department,
(Dr. Manish Kumar)

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

एमएसई खरीद वरीयता/MSE Purchase Preference

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

एमआईआई खरीद वरीयता/MII Purchase Preference	No
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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. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% 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.
5. Reverse Auction would be conducted amongst first 50% of the technically qualified bidders arranged in the order of prices from lowest to highest. Number of sellers eligible for participating in RA would be rounded off to next higher integer value if number of technically qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst L-1 to L-4). In case number of technically qualified bidders are 2 or 3, RA will be between all without any elimination. If Buyer has chosen to split the bid amongst N sellers, then minimum N sellers would be taken to RA round. In case Primary products of only one OEM are left in contention for participation in RA based on lowest 50% bidders qualifying for RA, the number of sellers qualifying for RA would

be increased to get at least products of one more OEM (directly participated or through its reseller) if available. Further, if bid(s) of any seller(s) eligible for MSE preference is / are coming within price band of 15% of Non MSE L-1 or if bid of any seller(s) eligible for Make in India preference is / are coming within price band of 20% of non MII L-1, then such MSE / Make in India seller shall also be allowed to participate in the RA process.

DSP Lab Electrical Machine And Power System (1 set)

तकनीकी विशिष्टियाँ /Technical Specifications

केता विशिष्ट दस्तावेज़ /Buyer Specification Document	Download
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प्रेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Vikash Rajak	821113,SERSHAH ENGINEERING COLLEGE, SASARAM P.O BARKI KHARARI, KARGAHAR, SASARAM (ROHTAS)	1	45

केता 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 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 are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws 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. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.

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 नियिदा 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 अनुवंध 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---
