

Bid Document

Bid Details	
Bid End Date/Time	17-12-2022 21:00:00
Bid Opening Date/Time	17-12-2022 21:30:00
Bid Offer Validity (From End Date)	120 (Days)
Ministry/State Name	Ministry Of Education
Department Name	Department Of Higher Education
Organisation Name	Indian Institute Of Technology Tirupati
Office Name	Hod
Total Quantity	1
Item Category	DESIGNING SOFTWARE (Version 2.0) (Q3) (PAC Only)
Minimum Average Annual Turnover of the bidder (For 3 Years)	60 Lakh (s)
OEM Average Turnover (Last 3 Years)	60 Lakh (s)
Years of Past Experience Required for same/similar service	3 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
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) *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
Past Performance	50 %
Bid to RA enabled	No
Type of Bid	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation	2 Days
Evaluation Method	Total value wise evaluation

EMD Detail

Required	No
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ePBG Detail

Advisory Bank	State Bank of India
ePBG Percentage(%)	3.00
Duration of ePBG required (Months).	15

(a). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:

Registrar

Department of Higher Education, Indian Institute of Technology Tirupati, Ministry of Education Indian Institute of Technology Tirupati Yerpedu - Venkatagiri Road, Yerpedu Post, Tirupati District, Andhra Pradesh. Pincode - 517619

(A.v.v Prasad)

Splitting

Bid splitting not applied.

MII Purchase Preference

MII Purchase Preference	Yes
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MSE Purchase Preference

MSE Purchase Preference	Yes
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Details of the Competent Authority approval for PAC

Competent Authority Approval document for PAC : [View Document](#)

Name of Competent Authority	Dr. K.N. Satyanarayana
Designation of Competent Authority	Director
Office / Department / Division of Competent Authority	
CA Approval Number	
Competent Authority Approval Date	2022-11-17 00:00:00
Brief Description of the Approval Granted by Competent Authority	Competent Authority has approved Proprietary Article Certificate.

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 {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any

Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts 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. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

5. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs 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 the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. 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. 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 Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

6. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% 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 / Public Listed Company. 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.

DESIGNING SOFTWARE (Version 2.0) (1 pieces) (Under PAC)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Make	comsol
Model	packageofcomsolfnlmodules(academicversion)

Brand Type	Registered Brand
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Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Bid Requirement (Allowed Values)

Specification	Specification Name	Bid Requirement (Allowed Values)
BASIC INFORMATION	Modules of Designing Software offered in the scope of supply	Architecture Design, Mechanical Design, Structure Design, Infrastructure Design, Electrical Design, Electronic Design, General Design
	Type of Edition of the offered product	Academic Edition
SCOPE OF LICENCE	Types of Licence	Perpetual
	" Duration of Subscription (in years) (Hint :- Select '0' if not applicable)"	0.0 - 5.0 Or higher
	OEM Licensing policy	Per Server
	Number of licensing included in the offered product as per OEM defined licensing policy	1.0 - 100.0 Or higher
	Scope of Installation	Installation, Configuration
	The offered product have support from OEM for	Unlimited updation for Patches and Bug fixes within maintenance & support period, Unlimited upgradation of version within support period
	Number of Years for OEM support for updation (Patches and Bug fixes) is included in the scope of supply (Hint :- Select '0' if not applicable)	0.0 - 5.0 Or higher
	Number of Years for OEM support for Upgradation of version is included in the scope of supply (Hint :- Select '0' if not applicable)	0.0 - 5.0 Or higher
	Training Options	Training Material
	No of days Training Provided (Hint :- Select '0' if not applicable)	0.0 - 10.0 Or higher
ARCHITECTURE DESIGN	Architecture Design Features	Parametric Modeling, Building Layout & Design, Site Layout, MasterPlanning, Sustainability Design, Walk-Through Animation, Massing Studies
MECHANICAL DESIGN	Mechanical Design Features	Advance surfacing, Direct Modeling, Fluid Flow Simulation, Mesh CAD Models, Mold design, Plastic Parts Design, Weldments, Mechanical concept and layout design, Energy Analysis, Heating Ventilation and Air Conditioning (HVAC), MEP Fabrication, Plumbing System Design, Computer Aided Manufacturing (CAM)
STRUCTURE DESIGN	Structure Design Features	Composite Material Design, Structural Detailing, Stress Analysis, Structural Validation
INFRASTRUCTURE DESIGN	Infrastructure Design Features 1	Site Planning & Layout, Highway and Road Design, Rail Design, Site Development, Geospatial Analysis & Geo Referencing, GIS Integration, Corridor Modelling, Horizontal and Vertical Curves, Bridge Modelling, Point Cloud Data Processing

Specification	Specification Name	Bid Requirement (Allowed Values)
	Infrastructure Design Features 2	Master Planning, Volumetric Analysis, Earthwork Calculation, Thematic Analysis, Existing conditions modelin
ELECTRICAL DESIGN	Electrical Design Features	Electrical cable and Conduit design, Panel Design, Circuit Simulation, Load Takeoff Calculation, Electrical Fabrication
ELECTRONIC DESIGN	Electronic Design Features 1	Support Distributed Computing, S-Parameter Simulation support, Harmonic Balance Simulation, X-Parameter Simulation/Support, RF System design and Simulation, S- Parameter Checker, Tuning and Optimization, Optimization for EM and Circuit Co-Simulation, FEM Mesh Domain Optimization, RF System Budget Analysis, Yield Analysis and Yield Optimization, Sensitivity Analysis and Sensitivity Optimization, IP Encoder to protect data
	Electronic Design Features 2	Simulation result Data Display window, DSP and Algorithm Blocks, Digital Filter design wizard, HDL (hardware description language) Code Generation, HDL Co-Simulation with RF System Model, Fixed Point Library, Phased array Intermod and Harmonics 3D Beam Plotting Capability, Support Digital, RF & Hybrid Beam Forming, 3D Antenna Pattern file support, Dynamic 3D graph capability, Radar Source Models, Radar Target Models, Radar Sea Clutter Model
	Electronic Design Features 3	Multi Scattering Target model with Latitude, Logitude and Altitude Support, Cover and Deceptive Jamming EW Models, Clutter Model with PDF, Radar Platform models with Latitude, Longitude and Altitude Support, Radar Propagation loss model for Rainfall and Snowfall, Radar Signal Processing models, Phased Array toolbox, Radar Measurement Model, RF Budget Analysis for Phased Array System, 3D Antenna Beam Plotting for Phased Array, Intermod and Harmonics analysis for Phased array System, RF Budget Planning and System simulation Tool
	EM simulation method used	MOM (Method of moments), FEM(Finite Element Method)
	Number of Core for EM Multi -thread supported by the offered product	4, 8, 16, 32
COMMON PARAMETERS	Common parameters features 1	2D System Analysis, Human Simulation, Motion Simulation, Solar Analysis, Photorealistic Images, Daylighting Analysis, Generic Design, Reality Capture, Cloud Collaboration, Data Management, Parametric Modeling

Specification	Specification Name	Bid Requirement (Allowed Values)
	Common parameters features 2	Finite Element Analysis, Animation, Conceptual design, Structural Detailing, Stress Analysis, Structural Validation, System Level Design, Schematic Design Capability Schematic Design Capability, Layout Design Capability, Layout DRC(design rule check) and LVS (layout versus schematic), Design Guide support, Support different CAD files import, Support Python Script, DC and AC Simulation
	Basic information modeling supported by the offered product	2 D, 3 D

Additional Specification Parameters - DESIGNING SOFTWARE (Version 2.0) (1 pieces)

Specification Parameter Name	Bid Requirement (Allowed Values)
1) COMSOL Basic	02 Nos
2) CFD module	02 Nos
3) Heat Transfer Module	01 No
4) CRE module	01 No
5) Livelink for MATLAB	01 No

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

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	N GNANA SEKHAR	517619, INDIAN INSTITUTE OF TECHNOLOGY, TIRUPATI-YERPEDU CAMPUS, YERPEDU-VENKATAGIRI HIGHWAY, YERPEDU POST, YERPEDU MANDAL	1	15

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 by up to 25% of the contracted quantity during the currency of the

contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. Generic

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address Indian Institute of Technology Tirupati Yerpedu Venkatagiri Road Yerpedu Post Tirupati District, Andhra Pradesh. Pincode - 517619.

3. Generic

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

4. Generic

Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

5. Generic

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

6. Generic

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

7. Scope of Supply

Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

8. Turnover

Bidder Turn Over Criteria: 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 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.

9. Turnover

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. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

10. OEM

IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.

11. **Service & Support**

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

12. **Service & Support**

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

13. **Service & Support**

Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

14. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

15. **Buyer Added Bid Specific ATC**

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

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. 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. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents/clauses shall also be null and void. 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. Also, GeM does not permit collection of Tender fee / Auction fee in case of Bids / Forward Auction as the case may be. Any stipulation by the Buyer seeking payment of Tender Fee / Auction fee through ATC clauses would be treated as null and void.

[This Bid is also governed by the General Terms and Conditions](#)

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.

---Thank You---