



Bid Number/बोली क्रमांक (बिड संख्या):  
GEM/2023/B/3245244  
Dated/दिनांक : 09-03-2023

### Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	20-03-2023 18:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	20-03-2023 18:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	30 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Earth Sciences
Department Name/विभाग का नाम	National Centre For Coastal Research Nccr
Organisation Name/संगठन का नाम	National Centre For Coastal Research Nccr
Office Name/कार्यालय का नाम	Nccr Chennai
Total Quantity/कुल मात्रा	5
Item Category/मद केटेगरी	GEOGRAPHIC INFORMATION SYSTEM(GIS) SOFTWARE (Version 2.0) (Q3)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)
MSE Exemption for Years of Experience/अनुभव के वर्षों से एमएसई छूट/ and Turnover	No
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/	Yes
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,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
Past Performance/विगत प्रदर्शन	80 %
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	3 Days

**Bid Details/बिड विवरण****Evaluation Method/मूल्यांकन पद्धति**

Total value wise evaluation

**EMD Detail/ईएमडी विवरण**

Required

No

**ePBG Detail/ईपीबीजी विवरण**

Required

No

**Splitting/विभाजन**

Bid splitting not applied.

**Reserved for Make In India products**

Reserved for Make In India products

Yes

**MSE Purchase Preference/एमएसई खरीद वरीयता**

MSE Purchase Preference/एमएसई खरीद वरीयता

Yes

1. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
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. Bid reserved for Make In India products: : Procurement under this bid is reserved for purchase from 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. However, eligible micro and small enterprises will be allowed to participate. The minimum local content to qualify as a class 1 local supplier is denoted in the bid document. All bidders 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 the bid is liable to be rejected. 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 . In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.
4. 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.

5. 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 / 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.

## **GEOGRAPHIC INFORMATION SYSTEM(GIS) SOFTWARE (Version 2.0) ( 5 pieces )**

**(Minimum 50% Local Content required for qualifying as Class 1 Local Supplier)**

Brand Type/ब्रांड का प्रकार	Registered Brand
-----------------------------	------------------

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

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

<b>Specification</b>	<b>Specification Name/विशिष्टि का नाम</b>	<b>Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य</b>
BASIC INFORMATION	<b>Types of GIS Software offered in the scope of supply</b>	Desktop GIS, Server GIS, Mobile GIS, Cloud GIS
SCOPE OF LICENCE	<b>Types of Licence</b>	Perpetual
	<b>Duration of Subscription (in months) (Hint :- Select '0' if not applicable)</b>	0.0 - 60.0 Or higher
	<b>OEM Licensing policy</b>	Per Named User/User
	<b>Number of licensing included in the offered product as per OEM defined licensing policy</b>	1.0 - 500.0 Or higher
	Licence Delivery Mode	Electronic Licence
	<b>Platform type</b>	Desktop based, Server based, Cloud based, Mobile Based
	<b>Hosting Enviroment/ Deployment Option</b>	Cloud, On Premises
	<b>The offered product have support from OEM for</b>	Unlimited updation for Patches and Bug fixes within maintenance & support period., Unlimited upgradation of version within support period
	<b>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)</b>	1.0 - 5.0 Or higher

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
	<b>Number of Years for OEM support for Upgradation of version is included in the scope of supply (Hint :- Select '0' if not applicable)</b>	1.0 - 5.0 Or higher
	<b>Training Options</b>	On-Site, OEM Training Centre,Virtual, Training Material
	<b>Number of days Training Provided (Hint :- Select '0' if not applicable)</b>	2.0 - 10.0 Or higher
GIS SERVER	<b>GIS Server Features</b>	Support publication/hosting of OGC service like WMS, WFS, WCS & WMTS, Support input data like point , line , polygon, tabular data etc, Enable role based access management to let administrators to add, update, manage and maintain GIS data and user management, Content Sharing and capability to build various GIS applications., Capable of maintaining data history, version management and conflict detection., Support database check in - check out / replication functionalities, Capable to manage maps, satellite images, GIS data of various point of interest information, infrastructure and assets.
	GIS Server Generic Features	Capable to provide basemaps like Imagery, High Resolution Imagery, Oceanic data, Topographic, Street View data etc.
DESKTOP GIS	<b>Desktop GIS Features</b>	Use map templates to standardize maps , Create/manage/use spatial bookmarks, Support creation of layers or shortcuts to geographic data that store Symbology for Displaying features., Image classification like thematic classes, Individual band settings, Color maps, Contrast, Brightness.
	Thematic Symbology for the map available in the offered product	Single symbol, Unique value, Match to predefined style, Graduated colors or symbols, Proportional symbols, Dot density mapping, Chart mapping including pie and bar chart, Bivariate and multivariate data rendering, NA
	Display Facility for Elevation Data for the map available in the offered product	TIN(Triangular Irregular Networks), Contour with Index Contours, DEM - Hillshade with Sun Position Control, DEM-Shaded Relief Using Hillshade and Elevation, Terrain Contour with Index Contours, Terrain Face, Aspect, Elevation, Slope

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
	Desktop GIS Generic Features	Support rule based symbology and cartographic representations of map entities., Capable to calculates distance and additional proximity information between the input features and the closest feature, Desktop GIS Software can act as a thick client, Provision to share data as to WebGIS Servers to be used for browser based application, Desktop GIS software have availability of Online/SaaS based map services, Tools to creates Thiessen polygons from point features, Advance core analysis tools like Erase, Frequency, Identity, Point Distance, Polygon Neighbors, Symmetrical Difference, Conflation toolset to help reconcile data from multiple sources, Support dynamic analysis and nested queries,, Style animation based on attributes and expressions,, Linear Referencing System, Dynamic Segmentation, Defining multiple network tracing without customization, Creation of compound geometry feature which stores point, line, polygon in a single layer, NA
IMAGE HANDLING AND PROCESSING	<b>Image Handling And Processing Features</b>	Image Exporting capability, Image Management capability, Resampling, Georeference Imagery
	Image Handling And Processing Generic Features	Pixel level editing, Support publishing dynamic image services, Support Distributed storage, Support large raster analysis tasks, Create orthomosaics, digital surface models, and multispectral indices, Image annotation and sketching capabilities with automatic, accurate transformation to geographic features, Images Compress without any visual loss, Geographic linking & Sync Views, Mosaic Images with interactive cutline editing and preview, Support Lidar data analysis like 2D/3D view, volume calculation, 3D Measurement, Generate contours, classification, Workflow based Raster, Vector, Point cloud operators for analysis,, AI/ML operators for Image classification and Object Detection
3D ANALYSIS	<b>3 D ANALYSIS Features</b>	Support 2D and 3D simultaneous view, Realistic 3D view with exterior texturing, Support to CityGML and OpenGML, TIN, DEM support, LAS data support, Support editing tools for the sketching and texturing of 3D building models.
	3 D ANALYSIS Generic Features	3D analysis support like Line of Sight, Viewshed, Steepest path, Support import and export of data in .kml/.kmz
SPATIAL ANALYSIS	<b>Spatial Analysis Features</b>	Spatial Analysis capability, Proximity Analysis, Overlay Analysis, Zonal and Focal Analysis, Classification and Clustering, Standard Interpolation
	Spatial Analysis Generic Features	Support density value assessment, Support features like shortest path
GEO STATISTICAL ANALYSIS	GEO Statistical Analysis Features	Support Geostatistical simulation with multiple surfaces outputs, Support surface modeling using deterministic and geostatistical methods, Support statistical models to create and identify data anomalies, NA

<b>Specification</b>	<b>Specification Name/विशिष्टि का नाम</b>	<b>Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य</b>
	Supported Interpolation methods	Inverse distance weighted,, Radial-based functions, Universal, 5. Indicator and Probability, Disjunctive and Empirical Bayesian kriging
	Real-world analysis supported	Atmospheric data analysis, Environmental analysis, Precision agriculture, Fish and wildlife studies, NA
ROUTING AND NETWORK ANALYSIS	Routing and Network Analysis Features	Availability of tools for building network data from linear features, Availability of tools for identification of service areas, Availability of tools for identification of closest facility, Availability of tools for creation of a origin destination matrix (travel time and travel distance), Support Network with Uni-directional and Bi-directional flow, Provision to allow web application to access schematic diagrams through a web services, NA
LOCATION TRACKING	<b>Location Tracking Features</b>	GPS Tracking capability, VTS Integration capability, Mobile device tracking capability
	Location Tracking Generic Features	Capable to track large volume of real time location, Dynamically filter data to provide focussed view of the location
GEO TAGGING	Geo Tagging Features	Provision of Geo tagging facility of land, Provision of Land description like Land area, Latitude , Logitude, Land type, Land description, Land location address, Survey number, Photo and Video, Facility to bring online/offline basemap with the geotagging application., Excel based survey form creation and uploading to app without any coding/development, Provision for Geo tagging report.
GIS DATA MANAGEMENT	GIS Data Management Features	Tools for Topology Creation, Tools for Centralized workflow assignment, Tools for GIS Data quality validation checks Forecasting feature, Support visualization of data as maps, charts, and tables, Support simple drag-and-drop process of adding GIS/NonGIS data for analysis, Support exploratory spatial analysis to visualize and analyze data in Box plots, data clocks, chord diagrams, heat charts, bubble, histogram, scatter, time-series graph, and treemap, as well as traditional bar, line, donut charts etc, Support Vector, tabular data, csv files, standard big data sources, Spatio-temporal analysis
ADVANCED FEATURES	Advance Features	Support for all drone data format including point cloud data, Drone-captured imagery into high-quality 2D and 3D imagery products ready to shared on web, Visualizations of imagery in map space and image space., Perform Automatic Image Georeferencing and Edge Matching multiple images, Stereo View using two or more images, 3D Flythrough using DEM, Ortho, symbols, Process, Satellite/aerial multiple Stereo Images for triangulation, Create DEM from stereo images in raster, TIN, 3D shape, ASCII, Point cloud, Capture 3D features using stereo view of satellite/Aerial/drone images, NA

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
DASHBOARD	Dashbord Features	Filtering of information and event driven outputs on the selected results, Analytical dashboard for GIS Data, NA
REPORTING	Reporting Features	Summary Reporting, Sorting and arranging report data, Export of Reports in various formats like pdf, jpg etc, Customization of reports through scripting using python, Report formating definition can be shared, Maritime charts
GENERIC PARAMETERS	Supported Operating System	Windows, Mac, Linux, iOS
	Supported Web browsers	Microsoft Edge, Google Chrome, Mozilla Firefox, Safari, Opera
	Supported Database	Oracle, MySQL, PostgreSQL, MSSQL, Postgres, Oracle Locator / Spatial, Sql Server Spatial, Postgres with Post GIS, NA

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

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Sisir Kumar Dash	600100,NIOT Campus, Velachery-Tambaram Main Road, Pallikaranai, Chennai	5	15

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

**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**

**Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

**3. 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)

#### 4. **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.

#### 5. **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.

#### 6. **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.

#### 7. **Purchase Preference (Centre)**

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% 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 percentage of 100% of total value.

#### 8. **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.

#### 9. **Certificates**

Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer's Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.

#### 10. **Certificates**

The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.



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. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

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.
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.

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.

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

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./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।

**---Thank You/धन्यवाद---**