



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2024/B/4451048
Dated/दिनांक : 10-01-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	31-01-2024 14:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	31-01-2024 14:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	90 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Earth Sciences
Department Name/विभाग का नाम	Department Of Earth Sciences
Organisation Name/संगठन का नाम	National Centre For Antarctic And Ocean Research (ncaor)
Office Name/कार्यालय का नाम	Goa
Total Quantity/कुल मात्रा	1
Item Category/मद केटेगरी	Remotely Operated Underwater Vehicle(ROV) (Q3)
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	150 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	150 Lakh (s)
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 and Turnover/ अनुभव के वर्षों से एमएसई छूट	No
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No
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,Additional Doc 1 (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
Past Performance/विगत प्रदर्शन	50 %

Bid Details/बिड विवरण	
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Annual Maintenance Charges Required	Yes
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	4 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	300000

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	14

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

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

Beneficiary/लाभार्थी :

Director, NCPOR

The National Centre for Polar and Ocean Research (NCPOR), Ministry of Earth Sciences, Headland Sada, Vasco Da Gama, South-Goa, Goa 403804
(Director)

Splitting/विभाजन

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

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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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 {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 .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.
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.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.
6. 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.

7. 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.

Remotely Operated Underwater Vehicle(ROV) (1 set)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज़	Download
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Annual Maintenance	
Warranty of required product	1 Year
Annual Maintenance Charges Duration (Post Warranty)	2 Year
Annual Maintenance Charges Frequency	Bi-annually

*Warranty displayed under the AMC/CMC Details section will supersede the warranty displayed under the catalog specification

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	Pradeep Kumar Singh	403804, Director National Centre for Antarctic Ocean Research Headland Sada, Vasco-da-gama,	1	90

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

1. **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)

2. **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.

3. **Generic**

Scope of supply includes Training: Number of employees to be trained

05

, Place for Training

Buyer facility or the site suggested by the buyer.

and Duration of training

03

days.

4. **Generic**

Manufacturer Authorization:Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

5. **Generic**

Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 5 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.

6. **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.

7. **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.

8. **Past Project Experience**

Proof for Past Experience and Project Experience clause: For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed.b. Execution certificate by client with contract value.c. Any other document in support of contract execution like Third Party Inspection release note, etc.**Proof for Past Experience and Project Experience clause:** For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with

self-certification by the bidder that service/supplies against the invoices have been executed. b. Execution certificate by client with contract value. c. Any other document in support of contract execution like Third Party Inspection release note, etc.

9. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

Annual Maintenance Contract(AMC): The bidder should Quote for 02 years AMC after the standard 01 year warranty period. Scope of AMC:-Two Preventive maintenance visits and One Breakdown visit in a year during the AMC period as and when required by NCPOR. After completion of warranty period, NCPOR at its discretion may enter into AMC contract offline.

If Offline Bid Security or Performance Security (as per Beneficiary name & Bank Details), the Original document is to be delivered to The National Centre for Polar and Ocean Research (NCPOR), Ministry of Earth Sciences, Headland Sada, Vasco Da Gama, South-Goa, Goa 403804. (as per the timeline stipulated by GeM terms & conditions).

(i) The bidders to provide compliance on All Technical Specifications & provide Product Catlog/Data Sheet of the product(s) offered in the bid.

(ii) Product Catalog/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 Product Catalog/Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

(iii) Bidders to provide basic details sought in enclosed Buyer Added Specific ATC form.

(iv) Bidder Security/Earnest Money Deposit - As per Buyer & Banking details in Bid and GeM General Terms & conditions. Scanned copy of EMD shall be uploaded by Seller in the online bid and original copy of the same will have to be submitted directly to the Buyer mentioned delivery address within 5 working days of bid opening date, failing which the bid may be treated as incomplete & may lead to rejection of the bid by buyer without making any reference to the seller.

(v) Performance Security/Guarantee - As per Buyer & Banking details in Bid and GeM General Terms & conditions, the Online PBG or Offline PBG must be submitted by Seller to the Buyer within 15 days of award of contract on GeM. The payments to the seller shall become due only after receipt of Performance Bank Guarantee by the Buyer and verification of its genuineness. No interest shall be payable upon the Performance Bank Guarantee.

(vi) If the Seller fails or neglects to observe or perform any of his obligations under the contract it shall be lawful for the Buyer to forfeit either in whole or in part, the Performance Bank Guarantee furnished by the Seller.

(vii) Bidders to provide compliance on Technical Specifications and Terms & conditions of the bid, any non-compliance/deviation if not notified will be treated as full acceptance of the bid document.

(viii) Experience Criteria / Past Performance: The Bidder and OEM should have prior experience in the supply of minimum 3 similar products (similar product means "Remotely Operated Vehicles" or "Underwater Mobile Platform" or "Underwater Mobile Robot") to the Central/ State government/ Any Reputed Organization in the past 7 years ending Dec 2023. Provide supply orders, order completion certificates.

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10. **Buyer Added Bid Specific ATC**

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

11. **Certificates**

To be eligible for award of contract, Bidder / OEM must possess following Certificates / Test Reports on the date of bid opening (to be uploaded with bid):

As specified in bid documents under Technical Specifications, Sr.no.25 - Special conditions

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12. Warranty

Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

13. Warranty

Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 7 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

14. Warranty

Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.

15. Forms of EMD and PBG

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

The Director, National Centre for Polar and Ocean Research
payable at
SBI Commercial Branch, VIDHYA DHIRAJ BHAVANF L GOMES RD, GOA PIN-403802

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

16. Forms of EMD and PBG

Bidders can also submit the EMD with Payment online through RTGS / internet banking in Beneficiary name

The Director, National Centre for Polar and Ocean Research
Account No.
10153336180
IFSC Code
SBIN004116
Bank Name
State Bank of India
Branch address
SBI Commercial Branch, VIDHYA DHIRAJ BHAVANF L GOMES RD, GOA PIN-403802

Bidder to indicate bid number and name of bidding entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer along with bid.

17. Forms of EMD and PBG

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of

The Director, National Centre for Polar and Ocean Research

payable at

SBI Commercial Branch, VIDHYA DHIRAJ BHAVANF L GOMES RD, GOA PIN-403802

. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

18. Forms of EMD and PBG

Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / internet banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in Beneficiary name

The Director, National Centre for Polar and Ocean Research

Account No.

10153336180

IFSC Code

SBIN0004116

Bank Name

State Bank of India

Branch address

SBI Commercial Branch, VIDHYA DHIRAJ BHAVANF L GOMES RD, GOA PIN-403802

. Successful Bidder to indicate Contract number and name of Seller entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

19. 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.

20. 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.

21. 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.

22. Generic

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

23. 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.

24. Service & Support

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

25. Generic

Malicious Code Certificate:

The seller should upload following certificate in the bid:-

(a) This is to certify that the Hardware and the Software being offered, as part of the contract, does not

contain Embedded Malicious code that would activate procedures to :-

- (i) Inhibit the desires and designed function of the equipment.
- (ii) Cause physical damage to the user or equipment during the exploitation.
- (iii) Tap information resident or transient in the equipment/network.

(b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

26. **Generic**

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

Disclaimer/अस्वीकरण

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.

Additional Clause For Annual Maintenance Charges

1. AMC charges to be indicated as percentage of cost of Product/Equipment quoted for each year after the warranty period.

2. GST shall be included in the AMC Charges quoted.

3. The AMC functionality shall be available in bid only and no direct RA shall be applicable. In case of bid to RA decrement rules shall be applicable on total price inclusive of AMC charges.

3.1 Buyer shall indicate number of years of warranty by selecting option of 1- 10 Years available in the field depending on warranty parameter applicable in category parameters for the equipment. The Seller while participating in Bid/RA will get fields to indicate AMC charges as percentage depending on number of years of AMC selected by Buyer. The following shall be applicable If 5 year AMC selected.

3.1.1 AMC charges for first year after warranty period – Percentage to be indicated- A1.

3.1.2 AMC charges for second year after warranty period – Percentage to be indicated A2.

3.1.3 AMC charges for third year after warranty period – Percentage to be indicated A3.

3.1.4 AMC charges for fourth year after warranty period – Percentage to be indicated A4.

3.1.5 AMC charges for 5th year after warranty period – Percentage to be indicated A5.

3.2 The calculation of AMC Charges shall take in to account of number of years of warranty and duration of AMC as specified while creating bid.

3.3 AMC charges to be indicated for each subsequent year should be same or higher than preceding year.

3.4 The AMC charges shall be offered within range of 3 to 10% of cost of equipment.

4. Since AMC charges are to be paid only later for each year during AMC period , applicable performance guarantee amount after placement of contract shall be based on the cost of product/equipment and not on basis of cost of equipment along with AMC Charges.

5. Performance bank guarantee applicable for AMC is to be submitted at start of the AMC and shall be applicable as 2.5% on the total contract value including AMC Charges The PBG submitted after award of contract shall be released only after new PBG for the AMC period is submitted and accepted by buyer/consignee after due verification. Bank guarantee for AMC is to remain valid till completion of AMC period plus one year .The bank guarantee for AMC shall be submitted to buyer directly.

6. In case of splitting of quantity product/equipment cost and AMC charges offered by L-1 in the evaluated cost shall be matched by higher quoting eligible bidders on one to one basis .The equipment cost shall be matched and AMC charges shall be matched year to year.

7. The AMC Contract shall be an offline contract to be handled by buyer. The payment of AMC will be made on AMC frequency (as indicated above) basis after satisfactory completion of said period, duly certified by end user and scope of AMC will be as per para 1 above.

[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---

Procurement of Remotely Operated Underwater Vehicle (ROV) – QTY 01 Set.

Sr. No.	ITEM SPECIFICATIONS	Complied/ Not Complied	REMARKS (if any)
A	Remotely operated underwater vehicle(ROV) Brand: Model:		
	<u>PHYSICAL</u>		
1.	Dimensions (L x W x H) Maximum of 1000 mm x 750 mm x 700 mm		
2.	Total Weight in air Maximum of 40 kg without payload		
3.	Buoyancy Should be Positively Buoyant with ~+300g with all payloads		
4.	Operating depth Minimum of 200 meters of water depth		
5.	Construction Materials used should be:		
a)	Corrosion-resistant, impact-proof materials like Aluminium Alloys or Steel Alloys for Pressure Vessels.		
b)	Chassis be made of Corrosion resistant, impact proof lightweight materials.		
6.	Payload : Minimum of 5 kg in water weight		
	<u>ELECTRICAL</u>		
7.	Power Source should have Externally Wired Powered through cable with minimum 6 kW power source.		
8.	<u>Camera</u>		
a)	Primary Camera - 1 no (Forward Looking) <ul style="list-style-type: none"> • Resolution 4K with Camera Field of View 110 degrees horizontally and Tilt mechanism with Range +/- 45degree camera tilt (providing 180-degree total vertical field of view). • Should have a provision to make to run at lower resolution (720p/1080p). • Should have onboard storage provision. 		
b)	Secondary Camera – 1 No (Downward looking) <ul style="list-style-type: none"> • Enhanced 4k Camera. • 4K H265 live streaming/ Recording. • Sensitivity: minimum 0.01 lux or better. • Video must be recorded in full resolution on the camera itself or on the remote station. • Optical Zoom 10X. • Should have a provision to make to run at lower resolution (720p/1080p). • Should have onboard storage provision. 		

c)	<p>Aft Camera – 1 No</p> <ul style="list-style-type: none"> • Fixed HD camera 1080p • Diagonal field of view 60 degrees • Real time streaming of all the camera on the control unit should be therewith latency not more than 300ms. The 4K camera may be streamed at a lower resolution of 720p or better to show on the screen to avoid latency on display. 		
9	<p>Lights : Minimum of 6 numbers of LED Lights with 1500 Lumens each should have intensity control</p>		
10	<p>Additional Input/output options Power Output: 12V to 24V, 30W Max</p>		
11.	<p>Tether:</p> <ul style="list-style-type: none"> • Minimum Length of 300 m wound in spool with slip ring – manual winding. • Should have appropriate cables to transmit power and data with minimal data loss • Should be neutrally buoyant • Breaking Force - not less than 500Kg • Quick removable marine underwater pressure-rated (min. 30 bar) connectors 		
12.	<p>External Power Supply:</p> <ul style="list-style-type: none"> • 6kW compatible power source portable & compact Genset • 19 L Fuel tank capacity (Petrol) 		
	<p><u>OPERATIONAL</u></p>		
13	<p>Platform movement 6 Degrees of freedom and all motions should be remotely controllable</p> <ul style="list-style-type: none"> • Surge • Sway • Yaw • Heave • Roll • Pitch 		
14.	<p>Endurance : Unlimited in external power mode</p>		
15.	<p>Thrust :</p> <ul style="list-style-type: none"> • Speed (in still water surface) • Forward Speed: Min. 1.5m/s • Lateral Speed: Min 1 m/s • Dive Rate: Min 0.5 m/s (with all payloads and net buoyancy force of 0.3 Kgf) 		
16.	<p>Control Unit:</p> <ul style="list-style-type: none"> • Control Unit should be a Compact fully rugged control station display • Minimum Display size of 14" Data Processing capability • Control Station should have a minimum Intel i5 or better Processor 		

	<p>Storage:</p> <ul style="list-style-type: none"> • Minimum storage capacity of 1TB or better available on control station. • Cameras, sensors and payload data should be recorded in the control station 		
	<p>Joystick:</p> <ul style="list-style-type: none"> • Suitable for operation and guiding of ROV movement (6 Degrees of Freedom) • Suitable number of hat switches • Min 10 programmable buttons • User friendly GUI for programming the joystick functions 		
	<p>ROV Control software:</p> <ul style="list-style-type: none"> • Should have user-friendly and intuitive GUI for controlling all aspects of the ROV operation as well as display data from onboard payloads. • Should record log files containing all data received from the ROV • Should be capable of programming the functionality of the joystick • Should have capability of mission planning for waypoint navigation as well as survey missions • Should be able to work in cross-platform (Windows/Linux/Mac). The software must display the telemetry, payload data and live feed from the ROV and must be web-based so that it can be viewed on any platform with a compatible PC and web browser. • Provision of taking screenshot. 		
17	<p>Video overlay & Enhancement Software</p> <ul style="list-style-type: none"> • Should provide software for data overlay of • Heading • Date and time • Depth • altitude above the seabed on recorded video • Should provide software for enhancement of recorded underwater videos using AI based methods in cloud. • Provision for screen shot 		
18	<p>Packaging : Customized carrying case with proper foam cut-outs for transporting all system components safely</p>		
19	<p>Ballast: Ballast weights of 5 Kg (500g 2nos, 200g 15nos, 100g 10nos) for quick removal in field to control ROV's Buoyancy and to integrate future payloads.</p>		
20	<p>Safety Systems:</p> <ul style="list-style-type: none"> • Should have Leak Detection in each enclosure • Should have Under Voltage Detection • Should have Ground fault protection for external power supply • Should have Manual Pressure Release Valve in every pressure hull 		

21	<p>Operational Ease:</p> <ul style="list-style-type: none"> • Should be equipped with depth lock mode • Should have direction lock mode • Should have guided mode based on the DVL dead reckoning and USBL positions • Tether should be connected to electronics systems with quick removable marine underwater pressure rated (30 bar) connectors • Thrusters should be quick replaceable with underwater connectors • All cameras should be quick removable • Should have facility for quick connection of payloads • Guided Navigation 		
22	Operating Temperature: -4°C to 50°C		
23	Navigation capabilities (ROV shall have the following features)		
	Control		
	Attitude Hold - the ROV shall maintain its orientation without any inputs from the operator		
	Depth Hold - the ROV shall maintain its depth as well as navigate to any desired depth		
	Station Keeping / Position Hold (with DVL payload)		
	ROV shall maintain its position and orientation without any inputs from the operator Guidance		
	Way point and path planning options:		
	ROV shall be capable of autonomous navigation to a sequence of predefined steps using desired heading, depth and thrust values Navigation		
	Navigation		
	When equipped with DVL, the ROV shall be capable estimating its position using water lock in water column and bottom lock when within the range of DVL. It should update its position as and now the USBL positions are available. The position must be displayed at the control station at all times.		
24	ADDITIONAL PAYLOADS:		
I	Gripper Arm		
1.	Grip force Minimum of 90 N		
2.	Pressure Rating Minimum of 200 m		
3.	Jaw Opening Minimum of 60mm		
4.	Weight in Air (w/ cable) ≤600 g		
II	Recovery Mechanism Spring snap hook carabiner with rope which can be easily integrated with the system.		

III	Underwater Positioning System USBL using internal attitude heading reference system		
1.	Depth rating minimum 300m		
2.	Operational range minimum 1000m Omni directional		
3.	Frequency 15-30 kHz		
4.	Range resolution $\sim\pm 0.1\text{m}$		
5.	Angular Resolution $\sim\pm 1$ degrees		
6.	Slant range measurement resolution $\sim 0.1\text{m}$		
7.	Tracking of minimum 10 in water assets at any one time.		
8.	Bidirectional data exchange facility		
9.	Operating temperature range -5 to 40 deg Celsius		
10.	Realtime asset location and tracking facility		
IV	Altimeter for Depth measuring and mapping		
	Downward looking		
1	Measuring range 0.15m to minimum 200m		
2	Depth rating minimum 200m		
3	Operation Temperature -4 deg Celsius +40 deg Celsius		
4	Water Column Resolution Appx. 7.5 mm @100kHz sampling		
5	Beam Width: < 11 deg		
6	Altimeter Range Resolution 1.0 mm		
7	Real-time back scatter data collection along full water column		
8	Repetition (Ping) Rate: 100 Hz max		
9	Acoustic Frequency 200kHz		
	Optional : Future integration capability of Upward looking Altimeter <ul style="list-style-type: none"> • Measuring range $\sim 100\text{m}$ • Depth rating minimum 200m • Operation Temperature -4 deg Celsius +40 deg Celsius • Water Column Resolution $\sim 10\text{mm}$ 		

V	Doppler Velocity Log		
	Bottom tracking <ul style="list-style-type: none"> • Maximum altitude 50 m • Minimum altitude 10 cm • Long-term accuracy ~1.01% (license-free), • Velocity resolution 0.01 mm/s 		
	Water tracking <ul style="list-style-type: none"> • Minimum accuracy 1% of measured value ± 0.5 cm/s • Minimum range 2.0 m 		
	Altimeter <ul style="list-style-type: none"> • Range 50 m • Accuracy 1% of measured value • Resolution 0.1 cm 		
	Environmental <ul style="list-style-type: none"> • Operating temperature -4 to +40 °C • Storage temperature -20 to +60 °C • Depth rating 300 m 		
	Hardware <ul style="list-style-type: none"> • Frequency of operation 1 MHz • Beam width 3.4° • Vertical beam angle 20° 		
	Optional: Integrating current profiling in future <ul style="list-style-type: none"> • Minimum accuracy 1% of measured value ± 0.5 cm/s 		
	Should be able to upgrade to higher accuracy of 0.3% in future without shipping the DVL <ul style="list-style-type: none"> • Velocity resolution 0.1 cm/s • Interval User specified nth ping • Maximum range 30 m • Blanking 0.1 m • Cell size 0.2-2.0 m • Max # cells 150 		
25	Special Conditions		
I	Live Demonstration: The bidder have to meet all the required specifications provided by the NCPOR. The qualified bidder shall be invited to demonstrate the operation of the ROV with all payloads integrated at NCPOR facility or the place suggested by NCPOR within a week's notice for the verification of the compliance and to finalize the bidder/placing the order. The assessment/evaluation process will be carried out by a technical committee constituted by the NCPOR competent authority.		
II	ROV must pass site acceptance tests for performance to the satisfaction of NCPOR personnel for the acceptance of the delivery. The failed ROV should be replaced / repaired by the supplier at his own expense (including shipping costs in both directions) and arrive at NCPOR, Goa within 120 Days of notification of a problem reported by NCPOR and subject to availability of the faulty ROV for shipping from NCPOR premises. In such cases warranty period may extend with date of supply of replaced/repared ROV.		
III	The quoted product should have prior operational experience in cold weather conditions. The bidder has to submit the documents/proof to confirm the same.		

IV	Supplier should provide the plug and play connectors for optional payload attachment. Connectors for integration of industrial payloads like Multibeam Echosounder, sidescan sonar and Dual frequency Imaging Sonar should be provided as and when required		
V	1-year standard warranty against manufacturing defect for the entire system including payloads		
VI	Training for minimum of 3 days to minimum 5 members along with Product delivery and commissioning at NCPOR facility or the site suggested by NCPOR		
VII	Technical Service support post the warranty period, with OEM-approved service team available in India. On-call service support within 48 hrs at NCPOR GOA		
VIII	Additional Support: The vendor should guarantee the technical support and supply of all types of spares/accessories for the Instrument for a minimum period of 5 years after the warranty period.		
IX	Supplier should also provide a separate quote for the AMC of 2 years after the standard warranty period. It is optional for NCPOR to choose the AMC. Scope of AMC to be provided in details.		
X	Suppliers should provide NCPOR with any specialized tools required for ROV minor Repairs/maintenance, and provide subsequent advice for NCPOR personnel		
XI	Suppliers should provide the technical documentation (one set hard copy and soft copy) having detailed instructions for operation and maintenance.		
XII	ROV boxes must be built to accommodate stacked loading as per applicable international packing standard and movable with a forklift or pallet jack and be suitable for export to most countries.		
XIII	ROV certifiable for air shipments (domestic and international) issued by OEM on letterhead.		
XIV	Corrosion test certificate for Hull materials from NABL certified Lab		
XV	Pressure Test Certificate of water-tight hulls for a minimum 20 par pressure to be provided by accredited institute.		
XVI	Delivery Period - 90 days		
26.	Other Conditions		
I	The Bidder and OEM should have prior experience in the supply of minimum 3 similar products (similar product means "Remotely Operated Vehicles" or "Underwater Mobile Platform" or "Underwater Mobile Robot") to the Central/State government/Any Reputed Organization in the past 7 years ending Dec 2023. Provide supply orders, order completion certificates.		
II	Operating Manual: 02 Set of Operating manual to be supplied. (Language: English)		

**** Please note: Bidders to submit compliance on all the mentioned points along with the requested detailed specifications and brochure for the Quoted/Offered item. Signed & sealed on each page.**

(The bidder has to submit below declaration on Company Letter-head, as part of Technical bid & shall be non-conditional)

Live Demonstration: The bidder has to meet all the required specifications provided by the NCPOR (Buyer). The eligible/qualified bidders shall be invited to demonstrate the operation of the ROV with all payloads integrated at NCPOR facility or the place suggested by NCPOR within a week's notice for the verification of the compliance. The cost of transportation (to & fro) for live demonstration shall be borne by the respective bidders.

The assessment/evaluation process will be carried out by a Technical committee constituted by the NCPOR competent authority.

Bidder's Declaration

Date: _____

Bid Reference No.: _____

“We hereby confirm that the offered Make _____ & Model _____ fully comply with the required technical specification and also accept all the Special terms & conditions, Additional terms & conditions mentioned in the GeM bid documents.

We comply to provide live demonstration of the offered item as and when invited at the place suggested by NCPOR (Buyer) for verification of the compliance. We understand that any failure or non-disclosures, or mis-declarations by us, shall be liable to be rejected as non-responsive/non-compliance by the Procuring Entity.”

[Signature with date, name and designation]

for and on behalf of M/s. _____

[Name & address of company along with seal]

BIDDER DETAILS FORMAT

(Mandatory details to be submitted along with the Bid Documents)

A		Company Information of the Bidder/Service Provider:
1	Company Name in full as per GeM:	
2	Address in full as per GeM:	
3	Contact Name & No.: 1) Primary 2) Secondary	
4	Email id: 1) Primary 2) Secondary	
5	GST No.	
B		Bank Information of the Bidder/Service Provider:
1	Bank Account Number:	
2	Bank Account Type: Savings/Current Account.	
3	Name of the Beneficiary Bank Account as registered in GeM:	
4	Bank name in full:	
5	Bank Branch & Address:	
6	IFSC Code:	

[Signature with date, name and designation]

for and on behalf of M/s _____

[Seal of company]