

संगठन का नाम	भारतीय भूचुंबकत्व संस्थान
निविदा क्र.	आईआईजी/निविदा/सीसीएलफर/06/2022
संगठन की किस्म	अनुसंधान केंद्र
उत्पाद श्रेणी	अनुकूलित रासायनिक प्रयोगशाला फर्नीचर
निविदा की किस्म	दो बोली
निविदा मूल्य	रु. 9,00,000.00
ईएमडी	रु. 27,000.00
निष्पादन सुरक्षा	आदेश के मूल्य का 3%
स्थान	भारतीय भूचुंबकत्व संस्थान प्लॉट नं. 5, सेक्टर-18, कलंबोली हाईवे, न्यु पनवेल, नवी मुंबई 218 410 -
निविदा पूर्व बोली	01/12/2022 को 15.00 बजे
प्रस्तुत करने की अंतिम तारीख	26/12/2022 को 15.00 बजे
निविदा खोलने की अंतिम तारीख	26/12/2022 को 15.30 बजे
संपर्क	प्रभारी क्रय एवं भण्डार अनुभाग
ई-मेल	iig.pso.stores@iigm.res.in
दूरध्वनि	022-27484093 / 27484094
फैक्स	022-27480762

<b>Organization Name</b>	<b>Indian Institute of Geomagnetism, New Panvel</b>
<b>Tender No.</b>	<b>IIG/Tender/CCLFur/06/2022</b>
<b>Type of Organization</b>	<b>Research Centre</b>
<b>Product Category</b>	<b>Customised Chemical Laboratory Furniture</b>
<b>Tender Type</b>	<b>Two BID</b>
<b>Tender Value</b>	<b>Rs. 9,00,000.00</b>
<b>EMD</b>	<b>Rs. 27,000.00</b>
<b>Performance Security</b>	<b>3% of the value of the order</b>
<b>Pre Bid</b>	<b>01/12/2022 15.00 PM</b>
<b>Location</b>	<b>Indian Institute of Geomagnetism Plot No.5, Sector-18, Kalamboli Highway, New Panvel, Navi Mumbai – 410 218</b>
<b>Last date for Submission</b>	<b>26/12/2022 upto 15:00 PM</b>
<b>Opening Date</b>	<b>26/12/2022 on 15:30 PM</b>
<b>Contact</b>	<b>In-charge-Purchase &amp; Stores Section</b>
<b>Email</b>	<b><u><a href="mailto:iig.pso.stores@iigmn.res.in">iig.pso.stores@iigmn.res.in</a></u></b>
<b>Phone</b>	<b>022-27484093 / 27484094</b>
<b>Fax</b>	<b>022-27480762</b>

# निविदा दस्तावेज़

भारतीय भूचुंबकत्व संस्थान

के लिये

अनुकूलित रासायनिक प्रयोगशाला फर्नीचर की खरीद  
हेतु

निविदा संख्या . IIG/TENDER/CCLF/06/2022

आईआईजी  
न्यू पनवेल

**भारतीय भूचुंबकत्व संस्थान (आईआईजी)**

(विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अंतर्गत स्वायत्त अनुसंधान संस्थान)

प्लॉट नं. 5, सेक्टर 18, न्यू पनवेल (प.), नवी मुंबई – 410 218

टेली : 022-27484000, फ़ैक्स 022-27480762

# **TENDER DOCUMENT**

**TENDER No. IIG/TENDER/CCLF/06/2022**

**for**

**Purchase of Customised Chemical Laboratory Furniture**

**for**

**Indian Institute of Geomagnetism**

**IIG**

**New Panvel**

**INDIAN INSTITUTE OF GEOMAGNETISM (IIG)**  
**(An Autonomous Organization of the Dept. of Science & Technology)**  
**Plot No. 5, Sector 18, New Panvel (w), Navi Mumbai 410218**  
**Tel : 022-27484000, Fax 022-27480762**

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**I. बोली के लिए आमंत्रण**  
**भारतीय भूचुंबकत्व संस्थान**  
**प्लॉट नंबर 5, सेक्टर 18, न्यू पनवेल (वेस्ट),**  
**नवी मुंबई - 410 218**  
**दूरभाष: 022-27484000**  
**फैक्स 022-27480762**

निविदा सूचना संख्या IIG/TENDER/CCLF/06/2022

दिनांक: 25/11/2022

भारतीय भूचुंबकत्व संस्थान, न्यू पनवेल, आवश्यकता की अनुसूची में निर्दिष्ट अनुकूलित रासायनिक प्रयोगशाला फर्नीचर की आपूर्ति के लिए योग्य और प्रतिष्ठित निर्माताओं और/या उनके अधिकृत डीलरों से दो बोली प्रणाली में सीलबंद निविदा बोली अलग-अलग तकनीकी और वाणिज्यिक बोली आमंत्रित करता है। ।

उपर्युक्त निविदा दस्तावेज हमारे संस्थान की वेबसाइट [www.iigm.res.in](http://www.iigm.res.in) और [www.eprocure.gov.in](http://www.eprocure.gov.in) पर भी उपलब्ध है।

निविदा दस्तावेज डाक द्वारा जारी नहीं किया जाएगा। विवरण नीचे दिया गया है:

बयाना राशि	निदेशक, भारतीय भू-चुंबकत्व संस्थान, न्यू पनवेल के पक्ष में रु. 27,000.00 का रेखांकित डिमांड ड्राफ्ट/बैंक गारंटी द्वारा
निविदा जमा करने की अंतिम तिथि	26/12/2022 15.00 बजे तक।
तकनीकी बोलियां खोलना	26/12/2022 को 15.30 बजे।

निर्धारित तिथि एवं समय पर उपस्थित निविदाकर्ताओं की उपस्थिति में तकनीकी बोलियां खोली जाएंगी। निविदा खोलने में भाग लेने वाले निविदाकर्ता उपस्थिति के एक रजिस्टर पर हस्ताक्षर करेंगे। वाणिज्यिक बोलियां केवल उन्हीं की खोली जाएंगी, जो तकनीकी बोलियों के मूल्यांकन में अर्हता प्राप्त करेंगे। वाणिज्यिक बोलियों को खोलने के लिए लघु-सूचीबद्ध विक्रेताओं को उपस्थित होने के लिए आमंत्रित किया जाएगा।

निविदा खोलने में भाग लेने वाले प्रतिनिधियों को संबंधित निविदाकर्ता से एक प्राधिकरण पत्र लाना चाहिए। निविदा बोली जमा करने के लिए तकनीकी विनिर्देश, नियम और शर्तें और प्रारूप निविदा दस्तावेज और उसके अनुलग्नकों में वर्णित हैं। निविदा में मांगी गई सभी वस्तुओं की बोली लगाना अनिवार्य है।

निदेशक, आईआईजी बिना कोई कारण बताए किसी भी या सभी निविदाओं को अस्वीकार करने का अधिकार सुरक्षित रखता है।

रजिस्ट्रार

## I. INVITATION FOR BID

**Indian Institute of Geomagnetism**  
**Plot No. 5, Sector 18, New Panvel (w),**  
**Navi Mumbai - 410 218**  
**Tel : 022-27484000**  
**Fax 022-27480762**

**Tender Notice No. IIG/TENDER/CCLF/06/2022**

**Dated : 25/11/2022**

Indian Institute of Geomagnetism, New Panvel, invites sealed tender bid in two bids system viz. Technical and Commercial bid separately, from eligible and reputed manufactures and / or their authorized dealers for supply of Customised Chemical Laboratory Furniture as specified in Schedule of Requirement.

The above tender document is also available on our Institute web site [www.iigm.res.in](http://www.iigm.res.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in)

The tender document shall not be issued by post. The details are given below:

Earnest money deposit	Rs. 27,000.00 by a crossed Demand Draft / Bank Guarantee in favor of The Director, Indian Institute of Geomagnetism, New Panvel
Closing date for submission of the tender	26/12/2022 upto 15.00 hrs.
Opening of the technical bids	26/12/2022 at 15.30 hrs.

Technical bids will be opened in the presence of attending tenderers on the specified date and time. The tenderers attending the opening of the tenders will sign a register of attendance. Commercial bids will be opened only, who qualifies evaluation of technical bids. Short-listed vendors will be invited to be present for opening of the commercial bids.

The representatives attending the tender opening should bring an authorization letter from the respective tenderer. Technical specification, terms and conditions and format for submitting the tender bid are described in the tender document and its Annexures. It is mandatory to bid all items asked for, in the tender.

The Director, IIG reserves the right to reject any or all the tenders without assigning any reason.

Registrar

## II. INSTRUCTIONS TO TENDERERS

### 1. Two Bid System

There should be two separate bids (Technical and Commercial). Both the bids must be submitted at the same time, giving full particulars in separate sealed envelopes. Both the envelopes containing Technical and Commercial bids must be securely sealed, stamped and submitted on or before 15.00 hrs on 26/12/2022 the address given below.

In-charge Purchase & Stores Section  
Indian Institute of Geomagnetism  
Floor, Plot No.5, Sector-18,  
Kalamboli Highway  
New Panvel  
Navi Mumbai – 410 218

Technical and Commercial bid must be separately sealed, super scribed and then submitted together in a big envelope. Failure in fulfilling this condition will disqualify the tender.

**The envelopes must be super-scribed with the following information:**

- Type of Bid (Technical or Commercial)
- Tender Reference Number
- Due Date
- Name of Vendor

**Bids received after due date and time are liable to be rejected**

#### **ENVELOPE-I (Technical Bid): 1 set**

The Technical bid should be complete in all respects and contain all information asked for, **EXCEPT THE PRICES AND COMMERCIAL INFORMATION**. The technical bid should cover all items asked in Technical bid format. The Technical bid should be complete to indicate that all products and services asked for are quoted.

#### **ENVELOPE-II (Commercial Bid): 1 set**

The Commercial Bid should give complete price/cost information and should not, contradict the technical bid in any manner. It should also contain the AMC charges, if applicable.

### 2. Qualification Criteria

Only those vendors who meet all the qualifications mentioned in “**Qualification Criteria**” of the tender are eligible to participate in the tender.



3. **Earnest Money Deposit / Bid security**

- (a) The Vendor shall deposit along with the Tender Rs. 27,000.00 (Rs. Twenty seven thousand only) of Demand Draft/Bank Guarantee, which would be retained by the Institute as Security Deposit for the due and faithful fulfillment of the contract by the successful Vendor. The Security Deposit shall be refunded to the Vendor, after submission of the Performance Bank Guarantee, on complete execution of the order. The EMD/Security Deposit will not bear any interest.
- (b) The EMD paid by the unsuccessful Vendors will be refunded to them without bearing any interest, after finalization of the tender.
- (c) If registered under MSME are exempted for EMD.

4. **Terms and Conditions**

Terms and Conditions for vendors who participate in this tender are specified in the section named “**Terms and Conditions**”. These terms and conditions are binding on all the vendors. These terms and conditions will form part of the purchase order.

5. **Non-transferable Tender**

This tender document is not transferable. Only the party who has purchased this tender form shall be entitled to quote.

6. **No Commitment to Accept Lowest or Any Bid**

IIG, New Panvel, Navi Mumbai shall be under no obligation to accept the lowest or any other bid received in response to this tender and reserves its right to reject any or all bids including incomplete bids without assigning any reason whatsoever. IIG, New Panvel, Navi Mumbai is not obliged to meet and have discussions with any vendor and / or to entertain any representations

7. **Clarification of Bids**

To assist the scrutiny, evaluation and comparison of bids, IIG, New Panvel, Navi Mumbai may, at its discretion, ask some or all vendors for clarification on the bids submitted by them. The request for such clarifications and the vendor response shall necessarily be in writing only.

8. **Preliminary Scrutiny**

Bids not meeting the qualification criteria will be rejected.

IIG , New Panvel, Navi Mumbai will scrutinize the bids received to determine whether they are complete and as per the tender requirement, whether technical documentation as asked for and required to evaluate the bid has been submitted, whether the documents have been properly signed, and whether items are bided as per the tender requirements.

IIG, New Panvel, Navi Mumbai shall have the right, at its discretion, to waive any minor non-conformity or any minor irregularity in the bid if it is in the larger interest of the Institute. This waiver shall be binding on all the vendors and IIG, New Panvel, Navi Mumbai reserves right for such waivers.

9. **Modification and Withdrawal of Bids**

Vendors may modify or withdraw their bids any time before the last date and time specified for receipt of bids. No bid shall be allowed to be modified after the closing date and time for submission of bids.

10. **Order Cancellation**

IIG reserves its right to cancel the order in the event of one or more of the following conditions

1. Delay in delivery beyond the specified period for delivery.
2. Serious discrepancy in Hardware noticed during the delivery/installation.

In addition to the cancellation of the purchase order, IIG reserves the right to appropriate the damages from the vendor.

11. **Submission of Technical Details**

It is mandatory to provide the technical details in the exact format of **Annexure A** as given in this tender.

**The bid may not be evaluated by IIG, New Panvel, Navi Mumbai in case of non-adherence to the format or partial submission of technical information.**

**IIG, New Panvel, Navi Mumbai** shall not allow/permit changes in the technical specifications by the vendors once submissions are submitted and tenders opened. The relevant product information, brand and model number bided, printed product brochure, technical specification sheets etc. should be submitted along with the bid. Failure to submit this information along with the bid could result in disqualification.

12. **Opening of Technical bid**

Technical bids received within the prescribed closing date and time will be opened in the presence of vendor's representatives who choose to attend the opening of the bid on the specified date and time in this tender document. The vendor's representatives present shall sign a register of attendance. The representative attending the tender opening should bring an authorization letter from the respective tenderer. The bidders will be allotted 10 minutes time each for technical presentation for their quoted product.

13. **Erasures or Alterations**

**The bids containing erasures or alterations are liable to be rejected. Technical details must be completely filled up. Correct technical information of the product being bided must be provided. Filling up of the Technical Details Form using terms such as "OK", "accepted", "noted", "as given in brochure/manual" is not acceptable. IIG New Panvel, Navi Mumbai, may treat bids as not adhering to these guidelines as unacceptable.**

14. **Make, Models & Part numbers**

It is mandatory to provide make, model and part numbers of all items and their subcomponents as asked in the technical specification. The bid may not be evaluated and/or will be liable for rejection in case of non submission or partial submission of make, model and part numbers of the items bided. **Please note that substituting required information by just brand name is not enough.**

15. **Documentation**

Brochures/Manuals/CD/Technical specifications etc. in support of the technical compliance must be submitted.

16. **Short-listing of Vendors**

IIG, New Panvel, Navi Mumbai will prepare a short-list of technically qualifying vendor and commercial bids of only these vendors will be opened. IIG New Panvel, Navi Mumbai will intimate the date and time of opening of commercial bids only to the vendors whose bid is technically acceptable.

17. **Commercial bid validity**

The bid should hold good for a period of 90 days from the date of the opening of the commercial bid.

18. **Fixed Price**

The bid shall be on a fixed price basis, inclusive of all taxes and levies. No price variation should be asked for relating to increase in customs duty, dollar price variation etc.

19. **Payment terms**

Payment will be made on supply of material, installation and successful commissioning of the systems and submission of Performance Bank Guarantee.

20. **Support capability in India**

Vendor should provide information regarding their after sales support infrastructure in India such as office address and contact details.

21. **Force Majeure**

The vendor shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that it's delay in performance or other failure to perform its obligations under the contract is the result of an event of force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Vendor and not involving the vendor's fault or negligence and not foreseeable. Such events may include, but are not limited to, Acts of God or of public enemy, acts of Government of India in their sovereign capacity, acts of war, and acts of IIG either in fires, floods, strikes, lock-outs and freight embargoes.

If a Force Majeure situation arises, the Vendor shall promptly notify IIG in writing of such conditions and the cause thereof immediately. Unless otherwise directed by IIG in writing, the Vendor shall continue to perform his obligations under the Contract as far as it is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

In such a case, the time for performance shall be extended by a period(s) not less than duration of such delay. If the duration of delay continues beyond a period of three months, IIG and the vendor shall hold consultations with each other in an endeavor to find a solution to the problem. Notwithstanding the above, the decision of IIG shall be final and binding on the vendor.

### Format for Technical Bid

The Technical bid should be made in an organized, structured and neat manner and should not contain any price information. Brochures/leaflets etc. should not be submitted in loose form. All the documents submitted for technical bid must be duly signed and stamped by the vendor.

The format for submission of technical bid is as follows:

1. Index of the documents enclosed.
2. Covering letter as per **Annexure C** on Vendor's letter head.
3. EMD of Rs. 27,000.00 (Rs. Twenty seven thousand only)
4. Technical compliance of the quoted model as per specifications given in **Annexure A**.
5. Details of the vendor, as per **Annexure D**.
6. Manufacturer's Authorization Form (if applicable) as per **Annexure E**.
7. Warranty details.
8. Technical Documentation (Product Brochures, leaflets, manuals etc.).
9. Software details, if any.
10. Vendor's two years Financial Details (audited balance sheets/turn over etc.) and other supporting financial documents.
11. Details regarding support capability in India.
12. Tender documents signed and stamped on each page.
13. Client list with details, of the quoted model supplied to research organization in the last 5 years.

### Format for Commercial Bid

The commercial bid must not contradict the technical bid in any manner. The format for submission of Commercial bid is as follows:

1. Index of the documents enclosed
2. Commercial bid as per Annexure B. This must contain all price information.
3. Undertaking by the vendor on agreement of payment terms given in the tender.

### **III. TERMS AND CONDITIONS**

#### **1. Qualification Criteria**

1. Prices should include transportation, installation, and maintenance for 2 years, including all manufacturing flaws.
2. Maximum educational discount.
3. Quoted price should be in Indian Rupees only.
4. The laboratory fume hoods must confirm to the following regulations and standards.  
**ASHRAE 110-2016**, American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Method of Testing Performance of Laboratory Fume Hoods.
5. At least 2 Customer feedback forms stating the quality of work and overall feedback of Project Values of at least 20 Lacs.
6. Bidder/ parent company has to submit: A). Test Report: Furniture to be type tested as per **SEFA-8 standard** by a third-party. B). Test Report: Fume Hood to be type-tested as per **ASHRAE 110** by a third-party.
7. Additional Certificate: **ISO – 9001: 2015; ISO – 14001:2015; ISO 45001:2018** certification should also be submitted by the bidder/parent company.
8. The bidder or its parent company in India or abroad should have a well-established (their own) in house manufacturing unit for the steel lab furniture and fume hood, quality management system as per International standards providing the products and services on the continuous basis at least for the last 7 years. The bidder or its parent company in India or abroad should possess the current/valid approval for such items manufacturing facility by a statutory certifying authority, like factory inspector etc.
9. The Vendors / Bidders should not have incurred any loss during the last 5 (five) years (as of 31st March, 2022). Profit after Tax should be positive for the above mentioned period.

#### **2. Manufacturer's Authorization form**

Vendors, other than the manufactures must submit a letter of authority from their principals that they have been authorized to quote on behalf of the manufacturer as per Annexure E.

#### **3. Warranty**

The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.

The warranty will commence from the date of installation of equipment and acceptance of the same by IIG, New Panvel, Navi Mumbai.

The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects. Upon receipt of such notice, the Supplier shall, within a reasonable period of time expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

If having been notified, the Supplier fails to remedy the defect within a reasonable period of time; the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

6. **Performance Bank Guarantee**

Successful bidder is required to give a Performance Bank Guarantee to the tune 3% of order value valid for warranty period by way of Demand Draft.

7. **Spare parts**

The vendor will make the parts for the systems available for a further period of two years on completion of warranty period. If any of the peripherals / components is not available during/after the warranty period, the substitution shall be carried out with peripherals/components of equivalent or higher capacity.

8. **Indemnity**

The vendor shall indemnify, protect and save IIG, New Panvel, Navi Mumbai against all claims, losses, cost, damages, expenses action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of Customised Chemical Laboratory Furniture supplied by him.

9. **Guarantees**

The vendor should guarantee that the Customised Chemical Laboratory Furniture delivered to IIG, New Panvel, Navi Mumbai is brand new, including all components. In the case of software, the vendor should guarantee that the software supplied to IIG, New Panvel, Navi Mumbai is licensed and legally obtained. All hardware and software must be supplied with original and complete printed documentation.

10. **Right to Alter Quantities**

IIG, New Panvel, Navi Mumbai, reserves the right to alter the hardware quantities specified in the tenders at the time of placing the order, based on the actual requirement under the same terms and conditions and at the approved tender rates without claiming any considerations whatsoever.

11. **Repeat Orders**

IIG, New Panvel, Navi Mumbai, reserves the right to place a repeat order on the vendor under the same terms and condition within a period of six months from the date of acceptance of installation by IIG.

12. **Hardware Failure**

If during the warranty period, any equipment has a hardware failure on four or more occasions in a quarter, it shall be replaced by equivalent new equipment by the vendor at no cost to IIG.

13. **Installation**


Should be carried out by Supplier's skilled team with ductwork design, fitting, fixing of blower, commissioning & testing of the same. **Only space, electric, water connection and cement platform (for placing the blower) will be provided by the buyer.** All other civil work required for the installation should be clearly mentioned by the supplier and also should be exclusively borne by the supplier.

## ANNEXURE – A

1. Fume hood	Comply Yes/No
<p>General Chemistry Fume Hood Type: Low Constant Volume; with chemical storage base cabinet and <u>apparatus holding grid</u>.</p> <p>Overall Dimensions with base cabinet: 1500 mm W X 900 mm D X 2400 mm H .</p> <p>Fume Hood dimensions: 1500 mm W X 900 mm D X 1555 mm H</p> <p>Base Cabinet dimensions: 710 mm W X 600 mm D X 655 mm H with Castors – 2nos</p> <p>Inside Fume Hood working volume: 1220 mm W X 650 mm D X 1180 mm H.</p>	
<p>Material: Galvanized iron (GI) as per IS 277: 2003 standard of.</p> <p>Includes below accessories:-</p>	
<p>a) <u>Granite Worktop</u> ~18 mm thick. Chemical resistant splash &amp; spillage proof dished ‘Jet Black Granite’ worktop. Skirting of 15 mm from all sides for no chemical spillage.</p>	
<p>b) <u>Electrical Socket</u> = 03 nos, ‘North West’ make (230 V, 6/16 A, 50 Hz), 3 nos. North West’ make MCBs with blower NO/NC switch. Cables &amp; wires should be ‘Fire Retardant’ grade.</p>	
<p>c) <u>LED Tube light</u> fitting 20Watt - 01 no</p>	
<p>d) <u>Utility Valves</u> (polyurethane (PU))- 04 nos.  1 for Raw water (PU)  1 for Nitrogen (PU)  1 for Vacuum (Teflon)  1 for Compressed Air (PU)</p>	
<p>e) <u>Exhaust system</u> - Baffle for efficient flow of gases.</p>	
<p>f) <u>Sink</u> - Oval shaped 100 mm X 200 mm, Worktop will have sink sealed with silicon sealant for drainage with water tap on left back side of worktop. Sink will have a trap for waste collection. Dimensions: 13.5”L×13.5”W×10”D.</p>	
<p>g) <u>Power Rating</u>, 15 amps 240 Volts.</p>	
<p>h) <u>Level adjusting screws</u> - Made of SS Bolts to adjust the fume hood level by ± 10 mm.</p>	
<p>i) <u>Noise Level</u> - &lt; 70db at 1 meter from fume hood.</p>	
<p>j) <u>CENTRIFUGAL BLOWER</u> - (For air suction of <u>1 Fume Hood and 1 Chemical Storage Cabinet</u>) - Silent PP + FRP high efficiency remote blower, consisting of continuous rating motor and chemical resistant impeller.</p>	
<p>k) <u>Powder coating</u>: Pre-treated with 8 tank chemical processes and powder coated with highly chemical resistant material having appropriate dry film thickness.</p>	
<p>l) <u>Corner Post</u>: Triangular profiled Corner Post should be placed on Left and Right Hand Side of the Fume hood for the utility line fittings and electrical receptacles.</p>	
<p>m) <u>Liner</u> - Phenolic resin Laminate (6 mm Thick)</p>	
<p>n) <u>Sash</u> -Toughened Sash: Vertical rising sash counter balanced with pulley and counter-weight system. Toughened Float Glass sash (5 mm thick). Smooth and light sash operation. Clear openable height = 750 mm.</p>	

o) <b>Maintenance ports</b> - i. Openable top panel for easy maintenance of tube light and flow control valve, ii. service panel for maintenance of utility valves and tubing.	
p) <b>Internal nozzles</b> - Fittings should be coated with Brass powder to avoid the intermingling of the flexible tubes. Also the taps should be tapered in shape to use with flexible tubing of sizes from ¼” to ½” in dia, to provide greater flexibility to the user.	
q) <b>Chemical Storage Base Cabinet</b> - (Ventilated on Castors), Base cabinet should be ready to receive the fume hood at its top. It should have following features: Completely made from 1mm thick GI sheet with Highly corrosion resistant epoxy powder coating, 60-80 microns thickness. Cabinet integral work walls will be Special chemical & heat resistant, smooth finish, easily cleanable panels made out of durable PRL sheets. <b>Two exhaust ports connected to the fume hood exhaust system internally.</b> One removable horizontal partition to store chemicals. PP Trays for chemical storage. Overall Dimensions: 710 mm W X 600 mm D X 655 mm H with Castors – <b>2 nos.</b>	
r) <b>Apparatus Holding Grid</b> (Lattice Assembly) - A grid made up of Duralumin Powder coated rod (Dia. 12.7 mm) to hold the apparatus. It should cover the entire length of the fume hood and should be built-in at fume hood backside. Installed at the distance of 150 mm from backside of fume hood.	
s) <b>Cable entering port</b> - For easy access of cables from fume hood to electrical sockets.	
<b>2. Chemical Storage Cabinet</b>	
<p>Floor Mounted Full Height Chemical Storage Cabinets (2 Glass Door, Phenolic Resin Laminate Liner, 5 Shelves) 1000 mm (L) x 460 mm (D) x 1800 mm (H)</p> <p><u>Blower &amp; Ducting (Common for items 1 and 2 )</u> 800 CFM Centrifugal Blower - Static Pressure 50mm WC, 1440 RPM, 3 Phase 1 HP with motor for air suction in Cluster of 1 Fume Hood and 1 Chemical Storage Cabinet. PP+FRP Ducting &amp; Duct supports including of brackets, clamps and other hardware etc.</p>	



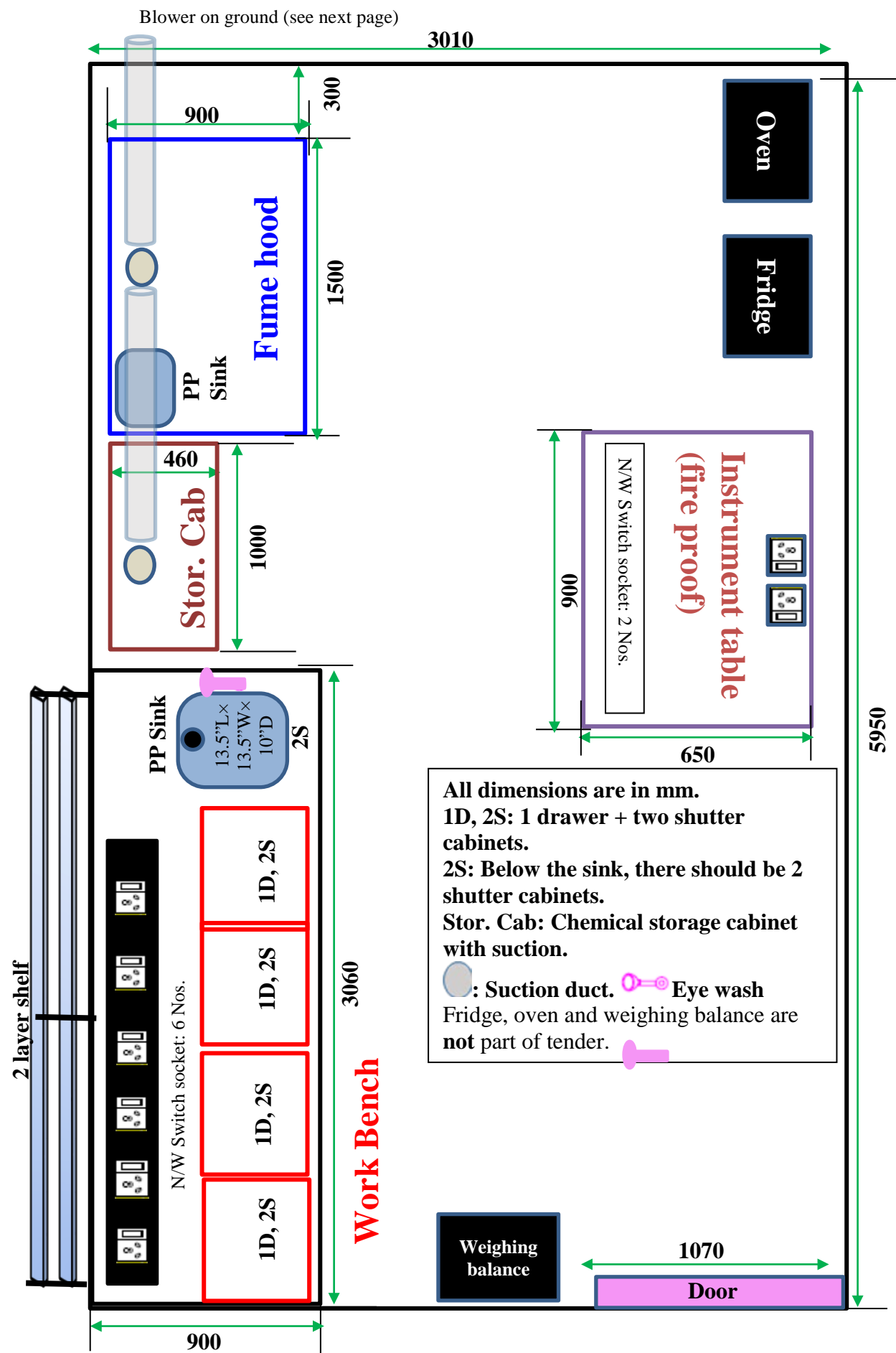
<b>3. Work Bench (Lab Furniture)</b>	
Granite worktop (16 to 18 mm), ~ 37 sq. feet.	
Two layer chemical shelf at the wall side end on the entire table.	
1 Drawer & 2 Shutters- 600 mm(L) X 775 mm(HT) with plinth- 4 Nos.	
2 Shutters Sink Unit - 600 mm(L) X 775 mm(HT) with plinth- 1 Nos.	
Eye wash unit- 1 Nos.	
Elect Trunking Box Str. Single side Without wiring (Wall Table)1200 mm(L) X 120 mm(W) X 120 mm(H), Nos. 2 Elect. Socket With Switch 6/16 Amp, – 6 Nos.	
<b>4. Working table (Fire proof)</b> Material: Stainless steel    Length: 90 cm, Width: 65 cm, Height (from floor): 85 cm.	

**TESTING :** All fume hoods should be “factory tested”. Also, “Onsite Validation” should be carried out to ensure working of fume hood as per international norms. “Tracer gas containment testing’ can be asked to be carried out at vendor’s factory.

**WARRANTY :** Minimum **Two years** warranty against all manufacturing defects from the date of installation.

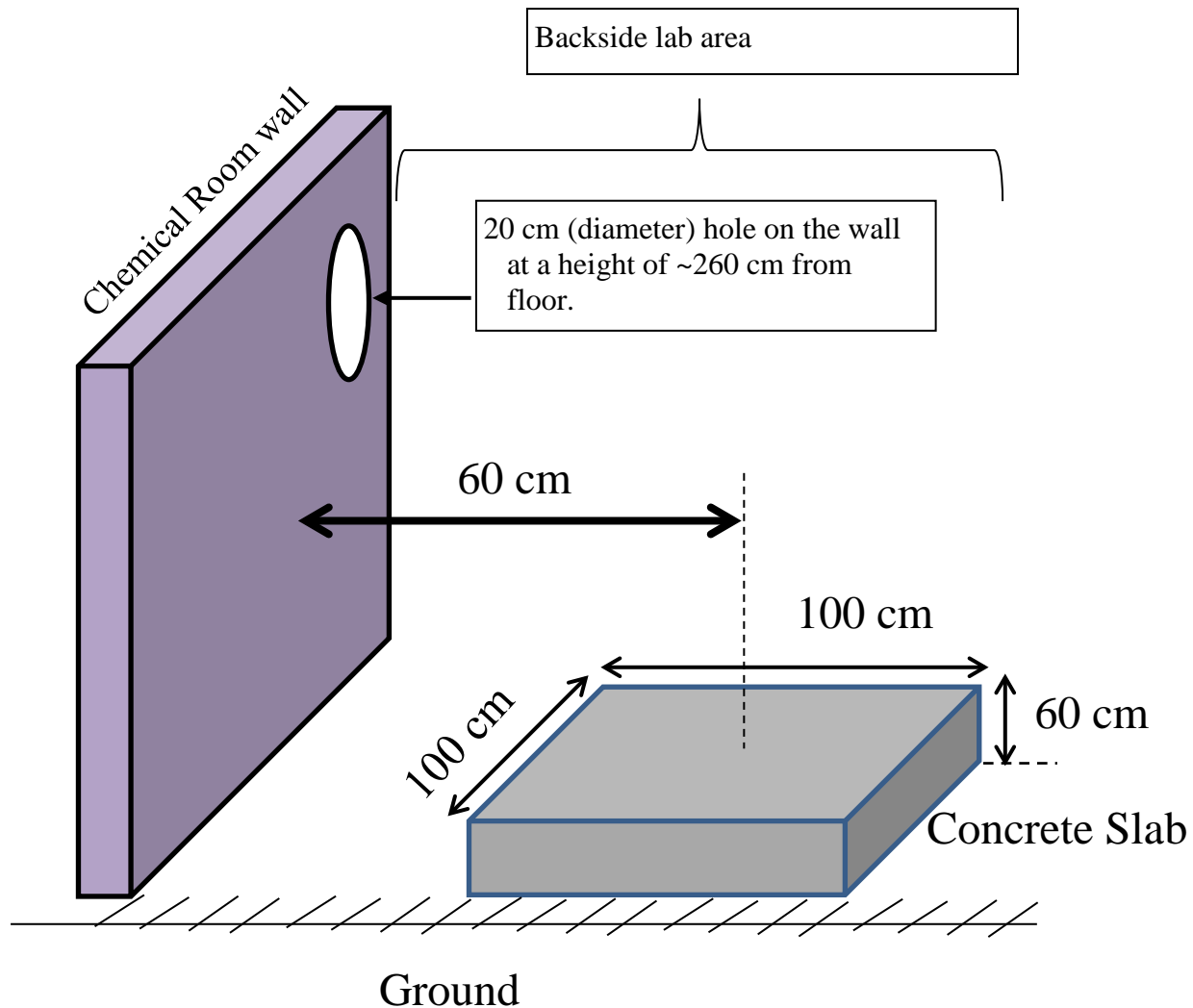
**DELIVERY :** As soon as possible after the release of PO (within six weeks).

Lab Layout



## Concrete slab on the outside of the drilling room.

This foundation will be made on the backside of the chemical lab room (See the previous page). It is needed for placing the fume hood blower (motor). This job will be done by IIG. The supplier should provide IIG with the precise dimensions of the slab that is needed for the blower.



### **Annexure C - Covering letter format**

Date:\_\_\_\_\_

Bid Reference No.:\_\_\_\_\_

To:

In-Charge Purchase & Stores  
Indian Institute of Geomagnetism,  
Plot No. 5, Sector 18, New Panvel (W),  
Navi Mumbai 410218

Dear Sir,

**Tender Ref:**

**Having examined the tender document including all Annexures the receipts of which is hereby duly acknowledged, we, the undersigned, bid to supply, deliver and commission the Customised Chemical Laboratory Furniture in conformity with the said tender in accordance with the Schedule of Prices indicated in the commercial bid and made part of this bid.**

We agree to abide by this bid till 90 days from the date of opening of the commercial bid by Indian Institute of Geomagnetism (IIG) Plot No. 5, Sector 18, New Panvel (W), Navi Mumbai 410218.

Until a formal Purchase Order is issued, this bid, together with IIG's return acceptance thereof shall constitute a binding contract between us.

We understand that IIG is not bound to accept the lowest or any bid without assigning any reason whatsoever.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2022

Signature: \_\_\_\_\_

(in the Capacity of:) \_\_\_\_\_

Duly authorized to sign the bid for and on behalf of  
\_\_\_\_\_

### Annexure D – Details of the Vendor

Details filled in this form must be accompanied by sufficient documentary evidence, in order to facilitate Indian Institute of Geomagnetism, Plot No. 5, Sector 18, New Panvel (W), Navi Mumbai 410218 to verify the correctness of the information.

S. No	Item	Details
1	Name of Company	
2	Postal Address	
3	Telephone and mobile numbers	
4	Constitution of the Company	
5	Name and designation of the person authorized to make commitments to IIG Plot No. 5, Sector 18, New Panvel (W), Navi Mumbai 410218	
6	Email Address	
7	Year of commencement of Business	
8	GST Number	
9	Income Tax Number	
10	Whether direct manufacturer or authorized dealer/agent	
11	Name and Address of manufacturer	
12	Location of Manufacturing facility	
13	Brief description of facilities for manufacture, production, inspection, testing and quality assurance	
14	Brief description of after sales service facilities available with the vendor <b>(Please refer section 8 of Instructions to Vendors)</b>	

### **Annexure E – Manufacturer’s Authorization Form (MAF)**

No. \_\_\_\_\_ dated \_\_\_\_\_

To,

In-Charge Purchase & Stores  
Indian Institute of Geomagnetism,  
Plot No. 5, Sector 18, New Panvel (W),  
Navi Mumbai 410218

Dear Sir,

Tender Reference No. \_\_\_\_\_

We \_\_\_\_\_ who are  
established and reputed manufactures of \_\_\_\_\_ having factories  
at \_\_\_\_\_ and \_\_\_\_\_ do hereby authorize  
M/s \_\_\_\_\_ (Name and address of  
Agent/Dealer) to bid their quotation, negotiate and conclude the contract with you against the  
above tender.

We hereby extend our full guarantee and warranty as per terms and conditions of the tender  
and the contract for the equipment and services bided against this tender by the above firm.

Yours faithfully,

(Name)

For and on behalf of

M/s \_\_\_\_\_  
(Name of manufactures)

Note: This letter of authority should be on the letterhead of the manufacturer(s) and should  
be signed by a competent person representing the manufacturer.