

**भारतीय उष्णदेशीय मौसम विज्ञान संस्थान**  
**INDIAN INSTITUTE OF TROPICAL METEOROLOGY**  
(पृथ्वी विज्ञान मंत्रालय, भारत सरकार का एक स्वायत्त संस्थान)  
(An autonomous Institute under the Ministry of Earth Sciences, Govt. of India)  
पाषाण, पुणे - 411 008  
PASHAN, PUNE - 411008

**निविदा सूचना/TENDER NOTICE**

निदेशक, भारतीय उष्णदेशीय मौसम विज्ञान संस्थान, डॉ. होमी भाभा मार्ग, पाषाण, पुणे - 411 008 (भारत) पीडब्ल्यूडी/एमईएस/सीपीडब्ल्यूडी/रेलवे/पी एंड टी/ अनुभवी औद्योगिक ठेकेदारों एवं किसी अन्य समकक्ष सरकारी विभाग की अनुमोदित सूची में पंजीकृत ठेकेदारों से निम्नलिखित कार्य हेतु निविदाएं (भाग-I तकनीकी बोली, भाग - II वाणिज्यिक मूल्य बोली) आमंत्रित करते हैं :

Director, Indian Institute of Tropical Meteorology, Dr. Homi Bhabha Road, Pashan, Pune - 411008 (India) invites tenders (Part-I – Technical Bid, Part-II – commercial Price Bid) from Contractors registered in the approved list of contractors of PWD/MES/CPWD/Railways/P&T/Experienced Industrial Contractors and any other government departments in appropriate class for following work

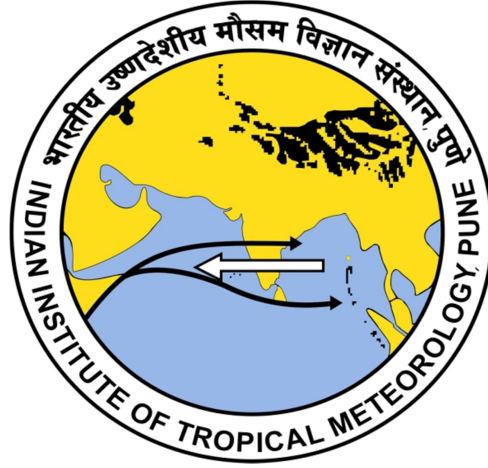
क्रम सं. Sr. No.	निविदा सूचना सं. Tender Notice No.	विवरण / Description
01.	आईआईटीएम/वक्स/एनजी/सीसीसीआर/लैब-आईसीपी-एमएस/2018-19/ओटी/03 IITM/CE/Works/NG/CCCR/Lab_ICP-MS/2018-19/OT/03	आईआईटीएम, पाषाण, पुणे में पुराजलवायु अनुसंधान हेतु ICP-MS, डाइमंड साँ मशीन एवं सैम्पल प्रोसेसिंग को रखने हेतु प्रयोगशालाओं का नवीकरण Renovation of laboratory spaces for keeping ICP-MS, diamond saw machine and a sample processing for paleoclimate research at IITM, Pashan, Pune-8.

बोली-पूर्व बैठक (ऑफलाइन) Pre-bid Meeting (Offline)	: 14 नवम्बर 2018 को 15:00 बजे : 14 <sup>th</sup> November 2018 at 15:00 hrs.
ऑनलाइन मोड पर निविदा प्रस्तुत करने की अंतिम तिथि Last date of submission of Tender on online mode	: 28 नवम्बर 2018 को 15:00 बजे : 28 <sup>th</sup> November 2018 at 15:00 hrs.
ऑनलाइन (तकनीकी बोलियाँ केवल) निविदा खोलने की तिथि	: 28 नवम्बर 2018 को 15:30 बजे
Opening of Tenders online (Technical bids only)	: 28 <sup>th</sup> November 2018 at 15:30 hrs.

संस्थान को किसी निविदा या सभी निविदाओं को बिना कारण बताए निरस्त करने का अधिकार है। विस्तृत विवरण एवं बोलियों के प्रस्तुतीकरण हेतु कृपया वेबसाइट <http://www.mstcecommerce.com/eprochome/iitm> देखें। संभावित बोलीदाताओं की जानकारी के लिए, निविदा विवरण भी इस संस्थान की वेबसाइट <http://www.tropmet.res.in> एवं सरकार का सेंट्रल प्रोक्यूरमेंट पोर्टल (सीपीपी) <http://www.eprocure.gov.in> पर भी उपलब्ध है।

The Institute reserves the right to reject any or all tenders without assigning any reason thereof. For details and submission of bids please visit website <http://www.mstcecommerce.com/eprochome/iitm>. For the information of the prospective bidders, the tender details are also available on this Institute's Website: <http://www.tropmet.res.in> and Government's Central Procurement Portal (CPP) <http://www.eprocure.gov.in>.

Sd-  
सिविल अभियंता, कृते निदेशक  
Civil Engineer, for Director  
ईमेल/Email : [civil@tropmet.res.in](mailto:civil@tropmet.res.in)



**TENDER DOCUMENT**

**FOR**

**Renovation of laboratory spaces for keeping ICP-MS, diamond saw machine and a sample processing for paleoclimate research at IITM, Pashan, Pune-8.**

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY**

**(AN AUTONOMOUS INSTITUTE OF MINISTRY OF EARTH SCIENCES, GOVERNMENT OF INDIA)**

**DR. HOMI BHABHA ROAD, PASHAN, PUNE 411 008 MAHARASHTRA, INDIA**



INDIAN INSTITUTE OF TROPICAL METEOROLOGY  
(AN AUTONOMOUS INSTITUTE OF MINISTRY OF EARTH SCIENCES, GOVERNMENT OF INDIA)  
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Website: www.tropmet.res.in

**Invitation for Bids through E-procurement**

The Indian Institute of Tropical Meteorology (IITM), Pune an autonomous body under Ministry of Earth Sciences (MoES), Govt. of India. IITM is country's premiere research Institute to generate scientific knowledge in the field of meteorology and atmospheric sciences that has potential application in various fields such as agriculture, economics, health, water resources, transportation, communications, etc. It functions as a national centre for basic and applied research in monsoon meteorology. The Director, IITM would like to invite tenders for following work from Contractors registered in the approved list of contractors of PWD/MES/CPWD/Railways/P&T/Industrial Experienced contractors and any other government department's inappropriate class for following work:

Sr. No.	Tender notice No.	Brief Description of WORK	Estimated Cost in (Rs.)	Completion Period	Quantity	Single / Two Bid
1	IITM/CE/Works/NG/CCCR/Lab_ICP-MS /2018-19/OT/03	<b>Renovation of laboratory spaces for keeping ICP-MS, diamond saw machine and a sample processing for paleoclimate research at IITM, Pashan, Pune-8.</b>	18,67,145=00	02 Month	As per Bill of Quantity (BOQ)	<b>Two</b>

1. The bid has to be submitted online on Institute's e-procurement system hosted at website <http://www.mstcecommerce.com/eprochome/iitm> as per the process mentioned on the same website. Bidder has to register on the above website & to pay the transaction fee directly to MSTC Limited to participate in the bidding process through e-procurement. Bidders are advised to follow the instructions provided in 'Vendor's Guide' available on the said e-procurement website. Bidders can contact at **022-2286 6261** for any technical queries regarding registration and submission of bid on the above portal.
2. The address for submission of technical bid only and for obtaining further information:

Civil Engineer, Indian Institute of Tropical Meteorology, Dr.Homi Bhabha Road, Pashan, Pune – 411008 (India)

3. A Pre-bid Conference will be held on schedule mentioned below. All prospective bidders are requested to kindly submit their queries to the address indicated above so as to reach to The Civil Engineer at least one day before Pre-Bid Conference.

	<b>Date</b>	<b>Time in hours (IST)</b>	<b>Venue</b>
<b>Pre-Bid Conference</b>	<b>14.11.2018</b>	<b>1500 hrs.</b>	<b>IITM, Pashan, Pune</b>

4. The Bid prepared by the Bidder shall include the following:

i)	<b>Bid Security (BS)/Earnest money Deposit (EMD): Rs. 37,500=00</b>
ii)	Forms as specified in Chapter No.8

5. All bids must be accompanied by a Bid Security as specified above and must be delivered to the above office before the date and time indicated below. In the event of the date specified for bid receipt is declared as a closed holiday, the due date for submission of bids will be the following working day at the appointed time.
6. The Schedule for Submission/Opening of Bids is as follows:-

	<b>Date</b>	<b>Time in hours (IST)</b>	<b>Submit to / Venue</b>
<b>Submission of Bids</b>	<b>28.11.2018</b>	<b>Up to 15 00 hrs.</b>	<b>As detailed at Sr. No.1</b>
<b>Opening of Bids(Technical Bid only)</b>	<b>28.11.2018</b>	<b>15 30 hrs</b>	

7. The Director, **Indian Institute of Tropical Meteorology (IITM), Pune** reserves the right to accept or reject any or all tenders / offers either in part or in full or to split the order without assigning any reasons there for. NIT has also been published on Government's Central Procurement Portal (CPP) <http://www.eprocure.gov.in> as well as this Institute's Website: <http://www.tropmet.res.in> which may also be referred for more details.

## CONTENTS OF TENDER / BIDDING DOCUMENT

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### LIST OF SHORT FORMS AND FULL FORMS

SHORT FORM	FULL FORM
BG	BANK GUARANTEE
BS	BID SECURITY
EMD	EARNEST MONEY DEPOSIT
IITM	INDIAN INSTITUTE OF TROPICAL METEOROLOGY,
CVC	CENTRAL VIGILANCE COMMISSION
EMD	EARNEST MONEY DEPOSIT
ESIC	EMPLOYEES STATE INSURANCE CORPORATION
GCC	GENERAL CONDITIONS OF CONTRACT
GOI	GOVERNMENT OF INDIA
IPC	INDIAN PENAL CODE
IT	INCOME TAX
ITB	INSTRUCTIONS TO BIDDERS
LD	LIQUIDATED DAMAGES
NIT	NOTICE INVITING TENDER
NSIC	NATIONAL SMALL INDUSTRIES CORPORATION
PS	PERFORMANCE SECURITY
SCC	SPECIAL CONDITIONS OF CONTRACT

**CHAPTER 1 -INSTRUCTIONS TO BIDDERS - TABLE OF CONTENTS**

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## A. Introduction

Instructions to bidder are broad guidelines to be followed while formulating the bid and its submission to the bidder. It also describes the methodology for opening and evaluation of bids and consequent award of contract.

### 1.1 Eligible Bidders

- 1.1.1. This Invitation for Bids is open to all contractors of PWD/MES/CPWD/Railways/P&T/Industrial Experienced contractors and any other government department's inappropriate class.
- 1.1.2. Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Client to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.
- 1.1.3. Bidders who fulfil the Eligibility Criteria mentioned in **Chapter 5** will be considered for Technical Evaluation of bids.

### 1.2 Cost of Bidding

The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the client" will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

### 1.3 Fraud and corruption

- 1.3.1. The client requires that the bidders, suppliers and contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the following are defined:

Sr. No.	Term	Meaning
(a)	Corrupt practice	The offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution.
(b)	Fraudulent practice	a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract.
(c)	Collusive practice	means a scheme or arrangement between two or more bidders, with or without the knowledge of the client, designed to establish bid prices at artificial, non-competitive levels.
(d)	Coercive practice	means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.

- 1.3.2. The client will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.

## B. The Bidding Documents

### 1.4 Cost of Bidding Documents

The bidding documents are to be downloaded from Institute's e-procurement website hosted at <http://www.mstcecommerce.com/eprochome/iitm> as per the procedure mentioned on the said website. The bidding document is free of cost however transaction fees mentioned on the website has to be paid according to the procedure mentioned at the website.

## **1.5 Content of Bidding Documents**

- 1.5.1. The services required, bidding procedures and contract terms are prescribed in the bidding documents which should be read in conjunction. The bidding documents, apart from the invitation for Bids / Notice Inviting Tender have been divided into Eight Chapters.
- 1.5.2. The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. The bidder should also inspect the site. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

## **1.6 Clarification of bidding documents**

**1.6.1. In case when there is NO PRE-BID CONFERENCE: Not applicable.**

**1.6.2. In case when there is a PRE-BID CONFERENCE: Applicable.**

- a) A prospective Bidder requiring any clarification of the Bidding Documents shall contact the client in writing at the client's address specified in the Special Conditions of Contract (SCC), latest by the date specified in the Invitation for Bids / NIT which would be deliberated as per **Clause 1.6.2 (b)** of Instructions to the Bidders. No request for clarification or query shall be normally entertained after the **Pre-Bid Conference**. Should the client deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under Clause 1.7 relating to amendment of Bidding Documents and Clause 1.19 relating to Due Date for Submission of Bids. The clarifications and amendments issued would also be hosted on the website of the client for the benefit of the other prospective bidders.
- b) A Pre-bid Conference shall be held as indicated in Invitation to Bid. All prospective bidders are requested to kindly attend the Pre-bid Conference. In order to facilitate IITM for proper conduct of the Pre-bid Conference, all prospective bidders are requested to send their Queries to [civil@tropmet.res.in](mailto:civil@tropmet.res.in) one day prior to Pre-bid Conference or may submit their queries (with envelope bearing Tender No. and Date on top and marked "Queries for Pre-bid Conference") so as to reach IITM as indicated in Invitation to Bid. IITM shall answer the queries during the pre-bid conference, which would become a part of the proceedings of the Pre-bid Conference. These proceedings will become a part of clarifications / amendments to the bidding documents and would become binding on all the prospective bidders. These proceedings would also be hosted on IITM website [www.tropmet.res.in](http://www.tropmet.res.in) for the benefit of all the prospective bidders. Before formulating and submitting their bids, all prospective bidders are advised to surf through the IITM website after the Pre-bid Conference, in order to enable them take cognizance of the changes made in the bidding document.

## **1.7 Amendment to Bidding Documents**

- 1.7.1. At any time prior to the due date for submission of bids, the client may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- 1.7.2. All prospective bidders who have downloaded the Tender Document should surf Institute's e-procurement website <http://www.mstcecommerce.com/eprochome/iitm/> from time to time to know about the changes / modifications in the Tender Document. All prospective bidders are expected to surf the website before formulating and submitting their bids to take cognizance of the amendments.



- 1.7.3. In order to allow prospective bidders reasonable time to take the amendment into account while formulating their bids, the client, at its discretion, may extend the due date for the submission of bids and host the changes on the website of the client.

**C. Preparation of bids**

**1.8 Language of Bid**

- 1.8.1. The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the client, shall be written in English language only especially when the details are technical. However, if GOI makes it mandatory under Rajbhasha Abhiyan, in that case views of Rajbhasha unit of IITM may be sought.
- 1.8.2. The bidder shall bear all costs of translation, if any, to the English language and bear all risks of the accuracy of such translation, for documents provided by the client.

**1.9 Documents Comprising the Bid**

The bid prepared by the Bidder shall include the following as per the requirement of the Tender Document:

**TECHNICAL- BID**

a	Bid Security (BS)/Earnest Money Deposit (EMD) as specified in the Invitation to Bids
b	All related documents required to fulfil Eligibility and qualification criteria as mentioned in tender documents.
c	Copy of Pre-bid MOM Duly signed and stamped on each page
d	Complete tender document duly signed and stamped on each page
e	Un-Price Schedule Form(s)/BOQ duly signed and stamped on each page for compliance purpose only without price along with necessary design and drawings if any.

**COMMERCIAL-BID**

Price Bid should contain Bid Form and Price Schedule Form(s) with Rates / Prices filled in as per Chapter 6. Price Bid must be submitted online only through e-procurement portal.

The documents comprising bid should be submitted in the **above sequence in orderly manner**.

**1.10 Bid form and Price Schedule**

The bidder shall complete the Bid Form and the appropriate Price Schedule form as given in Chapter- 6 furnished in the bidding documents. These forms must be completed without any alterations to its format and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested. The Bid Form and the appropriate Price Schedule form shall be submitted in accordance with **ITB Clause 1.18.3** of the bidding documents.

**1.11 Bid Prices**

- 1.11.1. The Bidder shall indicate basic rate and all applicable taxes on the appropriate price schedule form.
- 1.11.2. The rates quoted shall remain fixed during the contract period and shall not vary on any account.
- 1.11.3. The quotation should be only in Indian Rupees.
- 1.11.4. Bidder shall quote for all line items as per BOQ. If item listed in BOQ but not quoted by bidder; will treated that bidder total quoted price is inclusive of unquoted/missed item.

**Note:** All payments due under the contract shall be paid after deduction of statutory levies at source (like ESIC, IT [TDS], GST etc.), wherever applicable.

**1.12 Bid Currencies**

1.12.1 Prices shall be quoted in Indian Rupees only.

**1.13 Documents Establishing Bidder's Eligibility and qualifications**

1.13.1 Contractor shall produce definite proof of valid contractor license /enlistment certificate with the CPWD/State PWD/MES Railways/ Industrial experience issued by the respective enlistment authority of the concerned department for the amount not less than estimated amount of the work.

1.13.2 For works of similar nature

- (i) Average annual financial turnover for during the last 3 years ending 31<sup>st</sup> March 2018 of the previous year should be at least 30% of the estimated cost.
- (ii) Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:-

The BIDDER should have three similar completed works costing not less than the amount equal to 40% of the estimated cost.

**Or**

Two similar completed works costing not less than the amount equal to 50% of the estimated cost.

**Or**

One completed work costing not less than the amount equal to 80% of the estimated cost.

[Note: Vendor should enclose the copy of work orders, completion certificates of similar work.]

1.13.3 The Tenderer is required to furnish the documentary proof of Permanent Account Number (PAN), GST Registration No., Last three years Income tax returns copies, If the bidder is registered with the National Small Industries Corporation (NSIC), the registration number, and copy of the registration certificate purpose of registration and the validity period of registration to be submitted along with Technical Bid.

1.13.4 **The firms who have been registered with National Small Industries Corporation are exempted from paying the Earnest Money deposit. For this they have to submit the attested copy of the valid exemption certificate issued in their name by the NSIC.**

1.13.5 A copy of latest Income Tax Clearance Certificate from Income Tax Department is to be put in Technical Bid.

1.13.6 The successful bidder will be responsible for all activities on the site as per safety norms and building code.

1.13.7 Government/labour Act- The successful bidder will follow all the government labour acts which are in force at present and introduce from time to time.

1.13.8 Water for the work will be supplied for execution of work. If there is scarcity of water, then contractor have to arrange water at its own cost.

1.13.9 The Electricity for the execution of the work will be provided on chargeable basis. Sub meter and required cable to be arranged by successful bidder.

1.13.10 While filing the commercial bids, the contractors should consider all the applicable taxes and should mention the total cost accordingly.

1.13.11 The bidder shall furnish, as part of its bid, documents establishing the bidders' eligibility to bid and its qualification to perform the contract if its bid is accepted.

1.13.12 Conditional tenders / offers shall not be accepted.

**1.14 Documents establishing Goods Eligibility and conformity to bidding documents**

1.14.1 Bidder shall submit compliance declaration on their letter head stating that they will comply all the terms and conditions as of tender documents and meet the technical specification as specified in BOQ.

**1.15 Bid Security (BS) / Earnest Money Deposit (EMD)**

1.15.1. The Bidder shall furnish, as part of its bid, a Bid security (BS) / Earnest Money Deposit (EMD) of amount as specified in NIT in the form of a Bank Guarantee / Demand Draft drawn on any Scheduled / Commercial / Nationalized Bank in favour of the Director, **The Indian Institute of Tropical Meteorology (IITM), Pune**, The scan copy of the Bid Security / Earnest Money Deposit (EMD) has to be uploaded in the e-procurement website of the Institute and Original copy of the same has to be kept in the Technical Bid envelop which needs to be submitted on or before date submission of bids. Alternately EMD amount can be deposited in IITM, Pune account by RTGS/NEFT/SWIFT. The details of online transfer may be communicated to IITM Pune immediately.

1.15.2. Bids submitted without BS/EMD will stand rejected. BS/EMD will not be accepted in the form of cash / cheque or any other form other than DD/Banker's Cheque/TDR/Bank Guarantee as per Chapter-8: **Annexure A**. No interest is payable on BS/EMD.

1.15.3. The bid security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the Bid security's forfeiture.

1.15.4. The bid security shall be in Indian Rupees. The bid security shall be in one of the following forms at the bidders' option:

(a)	A Bank Guarantee (BG) issued by a Nationalized / Scheduled bank operating in India in the form provided in the bidding documents and valid for 45 days beyond the validity of the bid. In case a bidder desires to submit a BG issued from a foreign bank, then the same should be confirmed by a Nationalised / Scheduled Indian bank; <p style="text-align: center;"><b>OR</b></p>
(b)	A Banker's cheque or demand draft in favour of the <b>client</b> issued by any Nationalised / Scheduled Indian bank / <p style="text-align: center;"><b>OR</b></p>
(c)	EMD amount can be deposited in IITM, Pune account by RTGS/NEFT/SWIFT. Account No. : 11099449733 Bank Name and address : STATE BANK OF INDIA IFSC Code : SBIN000454 Swift Code : SBININBB238

1.15.5. The bid security shall be payable promptly upon written demand by the client in case the conditions listed in the **ITB clause 1.15.11** are invoked.

1.15.6 The bid security should be submitted in its original form. Copies shall not be accepted.

1.15.7 Bid security / EMD is mandatory requirement and exemption is applicable to the firms registered with NSIC only for the BIDDERS who have valid registration with NSIC.

1.15.8 The Bid Security of unsuccessful bidder will be discharged / returned as promptly as possible but positively within a period of 30 days after the expiration of the period of bid validity or placement of order whichever is later, without any interest.

- 1.15.9 The successful Bidder's bid security will be discharged upon the Bidder furnishing the Performance Security, without any interest. Alternatively, the BS could also be adjusted against Performance
- 1.15.10 Security, if it is paid through Demand Draft / Banker's Cheque.
- 1.15.11 In case a bidder intimates at the time of tender opening in writing that the bid security is kept inside the financial bid, then in such cases, the technical bid of the party would be accepted provisionally till opening of the financial bids with which the party has attached the bid security.
- 1.15.12 The bid security may be forfeited:

(a)	If Bidder withdraws or amends or modifies or impairs or derogates its bid during the period of bid validity specified by the Bidder on the Bid Form; <b>OR</b>
(b)	In case of successful Bidder, if the Bidder fails to furnish order acceptance within 15 days of the order or fails to sign the contract and / or fails to furnish Performance Security within 21 days from the date of contract / order.

- 1.15.13 Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the client with a covering letter to compare with the original BG for the correctness, genuineness, etc.

**1.16 Period of Validity of Bids**

- 1.16.1. Bids shall remain valid for minimum of **120 days** after the date of bid opening prescribed by the client. A bid valid for a shorter period shall be rejected by the client as non-responsive.
- 1.16.2. In exceptional circumstances, the client may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by fax or e-mail). The bid security provided shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.
- 1.16.3. Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

**1.17 Format and Signing of Bid**

- 1.17.1. The bids may be submitted as **Two-bid** as specified in the Invitation for Bids / NIT through e-procurement system hosted at website <http://www.mstcecommerce.com/eprochome/iitm> as per the process mentioned on the same website.
- 1.17.2. In case the bids are invited on two-bid system, the Bidder shall submit the bids in two separate parts. First part shall contain Technical bid comprising all documents listed under clause relating to Documents Comprising the Bid excepting bid form and price schedule forms. The second part shall contain the Price-Bid comprising Bid Form and Price Schedule forms. **The Bidder shall prepare two copies of the technical bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate & the copies of the documents submitted as a part of Technical Bid in e-procurement system should reach IITM, Pune within 5 working days from the last date of submission of bids on e-procurement system. However, it may please be noted that price bid must be submitted**

**through e-procurement portal only; no hard copy of price bid will be acceptable in any case.**

- 1.17.3. The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be initialled by the person or persons signing the bid.
- 1.17.4. Any interlineations, erasures or overwriting shall be valid only if they are initialled by the person or persons signing the bid.

#### **D. Submission and sealing of Bids**

##### **1.18 Submission of Bids**

**1.18.1.** The bidders may submit their bids online on Institute's e-procurement portal hosted at [http://www.mstcecommerce.com/eprochome/hild/buyer\\_login.jsp](http://www.mstcecommerce.com/eprochome/hild/buyer_login.jsp) and duly sealed technical bids (with soft copy) along with Earnest Money Deposit may be submitted generally by post or by hand at the Institute on or before last date of submission of bids.

a) **The soft copy of the Technical Bid has to be submitted on Institute e-procurement site <http://www.mstcecommerce.com/eprochome/iitm> as per the instruction given at the site.**

b) Price has to be filled on Institute's e-procurement site <http://www.mstcecommerce.com/eprochome/iitm>. The scanned copy of dully filled in and signed Price Bid has to be uploaded on the above e-procurement site. The prices filled in the e-procurement site will be treated final and shall be binding to the vendor.

c) Bidders are advised to follow the instructions provided in "Vendor's Guide" available on the said e-procurement website. For any query / technical help regarding MSTC E-procurement portal, bidders may directly contact to the following officials of MSTC Limited :-

- |     |                                                                                                            |                  |   |                |
|-----|------------------------------------------------------------------------------------------------------------|------------------|---|----------------|
| i)  | Jamil Akhtar, Senior Manager<br><a href="mailto:jakhtar@mstcindia.co.in">jakhtar@mstcindia.co.in</a>       | - (022) 22022096 | / | +91-9869043055 |
| ii) | Smt. Lisbeth Dias, Sr. Manager<br><a href="mailto:lpadickan@mstcindia.co.in">lpadickan@mstcindia.co.in</a> | - (022) 22883501 | / | +91-9820158988 |

##### **1.18.2. Sealing of Bids in the case of bids invited on Two bid basis:**

a) Technical Bid should contain documents as listed in Clause- 1.9 **without mentioning Prices** on Bid Form and Price Schedule Form(s). The Bidder shall seal the original Bid and copy Bid, duly marking the Bids as "original" and "copy". The original and copy Bids shall then be sealed in the **Envelope** and marked as **Technical Bid**.

b) Price Bid should contain Bid Form and Price Schedule Form(s) with Rates / Prices filled in as per Chapter 6. Price Bid must be submitted online only through e-procurement portal.

##### **1.18.3. Marking of Envelopes for submission of Technical Bids :**

a) The Technical bid envelope shall be addressed to the client indicated in the Special Conditions of Contract (SCC).

b) The name and address of the bidder, Tender No., due date and a warning "Do not open before \_\_\_\_\_" to be completed with the time and date as specified in the invitation for bids.

c) Envelope should be super scribed with

- Tender Notice Number: \_\_\_\_\_
- Due Date \_\_\_\_\_ Time \_\_\_\_\_
- Name of the Vendor \_\_\_\_\_
- Addressed To:  
**THE DIRECTOR  
THE INDIAN INSTITUTE OF TROPICAL METEOROLOGY,  
Dr.HOMI BHABHA ROAD, PASHAN,  
PUNE-411 008 (MAHARASHTRA)- INDIA**

**1.18.4.** If Technical Bid envelope is not sealed and marked as required above, the client will assume no responsibility for the bid's misplacement or premature opening of the submitted bid. In such cases, bids received in open condition within the due date and time will be accepted at the risk of the bidder if the same is presented to the Civil Engineer before expiry of the due date and time of opening of the bids.

**1.19. Due date for Submission of Bids**

1.19.1. Bids must be received by the client at the address specified in NIT not later than the time and date specified in NIT. In the event of the specified date for the submission of Bids being declared a holiday for the client, the Bids will be received up to the appointed time on the next working day.

1.19.2. The client may, at its discretion, extend the due date for submission of bids by amending the bid documents in accordance with Clause relating to Amendment of Bidding Documents in which case all rights and obligations of the client and Bidders previously subject to the due date will thereafter be subject to the due date as extended.

1.19.3. The online tender should be submitted strictly as per the terms and conditions and procedures laid down in the website <http://www.mstcecommerce.com/eprochome/iitm> e-procurement portal of the Institute.

1.19.4. Bidders may also refer instructions towards terms and conditions and procedures for bidding through e-procurement portal <http://www.mstcecommerce.com/eprochome/iitm>.

**1.20. Submission of Bids**

1.20.1. Online submission of the bid will not be permitted on the e-procurement portal after expiry of submission time and the bidder shall not be permitted to submit the same by any other mode.

1.20.2. The copies of the documents submitted as a part of Technical Bid in e-procurement system should reach IITM, Pune within 5 working days from the last date of submission of bids on e-procurement system. The bids shall be liable to reject if the document not received within stipulated deadline and the uploaded online bid on the portal shall be considered as non-responsive and shall not be processed further. In case of any discrepancy between online uploaded technical bid and hard copy submitted at this Institute, the online copy shall be considered as final.

## **1.21 Withdrawal, substitution and Modification of Bids**

- 1.21.1. The Withdrawal, substitution and Modification of Bids is permitted as per the provisions of the e-procurement system.
- 1.21.2. No bid may be withdrawn, substituted, or modified in the interval between the due date for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form or any extension thereof.

## **E. Opening and Evaluation of Bids**

### **1.22 Opening of Bids by the client**

- 1.22.1. Opening of Bids by the client will be done as per the provisions of the e-procurement system.  
In the event of the specified date of Bid opening being declared a holiday for the client, the Bids shall be opened at the appointed time and location on the next working day. In case of two-bid, the Price bid shall be opened only after technical evaluation.
- 1.22.2. Bidders interested in participating in the bid opening process, should witness the tender opening process on e-procurement system.

### **1.23 Confidentiality**

- 1.23.1. Information relating to the examination, evaluation, comparison and post qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until Award of the Contract.
- 1.23.2. Any effort by a Bidder to influence the client in the examination, evaluation, comparison, and post qualification of the bids or contract award decisions may result in the rejection of its Bid.

### **1.24 Clarification of Bids**

To assist in the examination, evaluation, comparison and post qualification of the bids, the client may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted. However, no negotiation shall be held except with the lowest bidder, at the discretion of the client. Any clarification submitted by a bidder in respect to its bid which is not in response to a request by the client shall not be considered.

### **1.25 Preliminary Examination**

- 1.25.1. The client shall examine the bids to confirm that all documents and technical documentation requested in **ITB Clause 1.9** have been provided, and to determine the completeness of each document submitted.
- 1.25.2. The client shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the offer shall be rejected.

(a) All the tenders received will first be scrutinized to see whether the tenders meet the basic requirements as incorporated in the tender enquiry document. The tenders, who do not meet the basic requirements, will be treated as non-responsive and ignored. The following are some of the important points, for which a tender may be declared as non-responsive and will be ignored, during the initial scrutiny:

i	The Bid is unsigned
ii	The bidder has not agreed to some essential condition(s) incorporated in the tender.

- (b) Bid Form and Price Schedule Form, in accordance with **ITB Clause 1.10**. In case of two-bid system these forms shall be examined after opening of the Price Bids of the technically qualified bidders.

**1.26 Responsiveness of Bids**

- 1.26.1. Prior to the detailed evaluation, the client will determine the substantial responsiveness of each bid to the bidding documents. For purposes of this clause, a substantive responsive bid is one, which conforms to all terms and condition of the bidding documents without material deviations, reservations or omissions. A material deviation, reservation or omission is one that:

(a)	affects in any substantial way the scope, quality of items specified in the Tender; <b>OR</b>
(b)	limits in any substantial way, inconsistent with the Bidding Documents, the client's rights or the Bidder's obligations under the Proposed Contract; <b>OR</b>
(c)	if rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

- 1.26.2. The client's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

- 1.26.3. If a bid is not substantially responsive, it will be rejected by the client and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation or omission.

**1.27 Non-Conformity, Error and Omission**

- 1.27.1. Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.

- 1.27.2. Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify non-material non-conformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

- 1.27.3. Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:

(a)	if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
(b)	if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
(c)	if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.



- 1.27.4. Provided that a bid is substantially responsive, the Purchaser may request that a bidder may confirm the correctness of arithmetic errors as done by the Purchaser within a target date. In case, no reply is received then the bid submitted shall be ignored and its Bid Security may be forfeited.

**1.28 Examination of Terms & Conditions, Technical Evaluation**

- 1.28.1. The Purchaser shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.
- 1.28.2. The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with **ITB Clause 1.14**, to confirm that all requirements specified in Chapter 4 of the Bidding Documents have been met without any material deviation or reservation.
- 1.28.3. If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Bid is not substantially responsive in accordance with **ITB Clause 1.26**, it shall reject the Bid.

**1.28.4. [ Note: Bidder shall quote in Indian currency Only]**

**1.29 Evaluation and comparison of bids**

- 1.29.1 The client shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.
- 1.29.2 To evaluate a Bid, the client shall only use all the factors, methodologies and criteria defined below. No other criteria or methodology will be used.
- 1.29.3 The bids shall be evaluated on the basis of final landing cost which shall be arrived as under:

i)	The price shall be quoted as per price bid format by motioning basic cost and all applicable taxes etc.
----	---------------------------------------------------------------------------------------------------------

**1.30 Comparison of Bids**

The Purchaser shall compare all substantially responsive bids to determine the lowest valuated bid, in accordance with **ITB Clause 1.29**.

**1.31 Contacting the Purchaser**

- 1.31.1 Subject to **ITB Clause 1.24**, no Bidder shall contact the client on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.
- 1.31.2 Any effort by a Bidder to influence the client in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

**1.32 Post qualification**

- 1.32.1 In the absence of pre-qualification, the client will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in **ITB Clause 1.13**.

- 1.32.2 The determination will take into account the Eligibility & Qualification criteria listed in the bidding documents and will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the client deems necessary and appropriate.
- 1.32.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid.

#### **F. Award of contract**

##### **1.33 Negotiations**

Normally, there shall not be any negotiation. Negotiations, if at all, shall be an exception and only in the case of items with limited source of supply. Negotiations shall be held with the lowest evaluated responsive bidder. Counter offers tantamount to negotiations, shall be treated at par with negotiations.

##### **1.34 Award Criteria**

Subject to **ITB Clause 1.37**, the Purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

- 1.35 DEVIATION:** Additional work/any deviation beyond work order quantities requires prior approval of purchaser before execution of such work. The permissible overall deviation from the work order value is 10% of such deviation should not be executed at site without prior approval of the Institute authority.

##### **1.36 Purchaser 's right to accept any Bid and to reject any or all Bids**

The Purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders.

##### **1.37 Notification of Award**

- 1.37.1 Prior to the expiration of the period of bid validity, the client will notify the successful bidder in writing by registered letter or by cable or telex or fax or e mail that the bid has been accepted and a separate work order shall follow through post.
- 1.37.2 Until a formal contract is prepared and executed, the notification of award should constitute a binding contract.
- 1.37.3 Upon the successful Bidder's furnishing of the signed Contract Form and Performance Security pursuant to **ITB Clause 1.40**, the Client will promptly notify each unsuccessful Bidder and discharge its bid security.

##### **1.38 Signing of Contract**

- 1.38.1 Promptly after notification, the Purchaser shall send the successful Bidder the Work Order.
- 1.38.2 Within twenty-one (21) days of date of the Work Order, the successful Bidder shall enter into Contract Agreement as per Chapter 7.

##### **1.39 Order Acceptance**

- 1.39.1 The successful bidder should submit Order acceptance within 15 days from the date of issue of work Order, failing which it shall be presumed that the vendor is not interested and his bid security is liable to be forfeited pursuant to **ITB Clause 1.15.11**.

1.39.2 The order acceptance must be received within 15 days. However, the Purchaser has the powers to extend the time frame for submission of order acceptance and submission of Performance Security (PS). Even after extension of time, if the order acceptance / WO are not received, the contract shall be cancelled and limited tenders irrespective of the value shall be invited from the responding firms after forfeiting the bid security of the defaulting firm, where applicable, provided there is no change in specifications. In such cases the defaulting firm shall not be considered again for re-tendering in the particular case.

**1.40 Performance Security**

Within 21 days of receipt of the notification of award / Work Order as per the GCC Clause 2.12, the contractor shall furnish Performance Security for the amount specified in SCC, valid for the time **120 days**.

## CHAPTER 2A

### CONDITIONS OF CONTRACT

#### GENERAL CONDITIONS OF CONTRACT

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**Note: The General Conditions of Contract shall form the part of Work Order / Contract.**

## **A. GENERAL CONDITIONS OF CONTRACT**

### **2.1. Definitions**

The following words and expressions shall have the meanings hereby assigned to them:

<b>Sr. No.</b>	<b>Words / Expressions</b>	<b>Meaning</b>
(a)	Contract	The Contract Agreement entered into between the Purchaser and the contractor, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
(b)	Contract Documents	The documents listed in the Contract Agreement, including any amendments thereto.
(c)	Contract Price	The price payable to the Supplier Contractor as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
(d)	Day	Calendar day
(e)	Completion	The fulfilment of the Related Services by the Contractor in accordance with the terms and conditions set forth in the Contract.
(f)	GCC	The General Conditions of Contract.
(g)	Goods	All Goods required to be used as specified in BOQ and as per terms and conditions of contract.
(h)	Services	The services incidental to the supply of the goods, such as transportation, insurance, installation, training and initial maintenance and other such obligations of the Contractor under the Contract.
(i)	SCC	The Special Conditions of Contract.
(j)	Subcontractor	Any natural person, private or government entity or a combination of the above to which any part of the goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
(k)	Supplier	The natural Person, Private or Government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
(l)	Client	The Director, The Indian Institute of Tropical Meteorology (IITM), Pune an autonomous body under Ministry of Earth Sciences (MoES), Govt. of India. as specified in SCC
(m)	The final destination	The place named in the SCC.

### **2.2 Contract Documents**

2.2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

2.2.2 Successful bidder shall have to enter into Contract Agreement on Rs.500/- non judicial stamp paper as per Contract Form given in Chapter 7 within 21 days of placement of work Order having value Rs. 5 lakh and above.

### 2.3 **Fraud and Corruption**

The client requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy,

(a) The terms set forth below are defined as follows:

I	Corrupt practice	The offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution
II	Fraudulent practice	A misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract
III	Collusive practice	A scheme or arrangement between two or more bidders, with or without the knowledge of the Borrower, designed to establish bid prices at artificial, non-competitive levels
IV	Coercive practice	Harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract

(b) The client will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.

### 2.4 **Joint Venture, Consortium or Association/Amalgamation/Acquisition, Patent Indemnity etc.**

If the contractor is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the client for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium or association. The composition or the constitution of the joint venture, consortium or association shall not be altered without the prior consent of the client.

#### 2.4.1. **Amalgamation/Acquisition etc.:**

In the event the Manufacturer/Supplier proposes for amalgamation, acquisition or sale its business to any firm during the contract period, the Buyer/Successor of the Principal Company are liable for execution of the contract and also fulfilment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. You may confirm this condition while submitting the bid.

#### 2.4.2 **Indemnity Bond**

In order to safeguard the interest of IITM, the contractor should submit Indemnity Bond as given in Chapter-8 (Annexure-H) on Rs.500/- non judicial stamp paper within 21 days of placing of the order for work Order having value Rs. 5 lakh and above.

#### 2.4.3 **Patent Indemnity**

a) The Supplier shall, subject to the Client's compliance with GCC Sub-Clause 2.4.3(a), indemnify and hold harmless the Client and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

(I)	the installation of the Goods by the Supplier or the use of the Goods in India
<b>AND</b>	
(II)	the sale in any country of the products produced by the Goods

- b) If any proceedings are brought or any claim is made against the Purchaser, the Purchaser shall promptly give the Supplier a notice thereof and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claims.

**2.5 Scope of Work**

Scope of Work (as specified in the Chapter-4 clause 4.2)

**2.6 Contractor's Responsibilities**

The contractor shall execute all the works as per Clause 2.5 within specified completion period and as per terms and conditions of contract.

**2.7 Contract price**

Prices charged by the contractor for tendered/BOQ items shall not vary from the prices quoted by the contractor in its bid/Contract agreement.

**2.8 Copy Right**

The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the contractor herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the contractor by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

**2.9 Application**

These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

**2.10 Standards**

The work executed under this Contract shall conform to the standards mentioned in the Technical Specifications, Schedule of Requirements/BOQ and as per other terms and condition of contract.

**2.11 Use of Contract Documents and Information**

**2.11.1** The contractor shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the client in connection therewith, to any person other than a person employed by the contractor in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.

**2.11.2** The Contractor shall not, without the Purchaser's prior written consent, make use of any document or information enumerated above except for purposes of performing the Contract.

**2.11.3** Any document, other than the Contract itself, enumerated above shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

**2.12 Performance Security (PS)**

- 2.12.1 Within 21 days of receipt of the notification of award of contract. The Contractor shall furnish performance security for the required amount and validity accordance with the work order only.
- 2.12.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the contractor's failure to complete its obligations under the Contract.
- 2.12.3 The Performance Security shall be denominated in Indian Rupees.
- 2.12.4 The Performance security shall be in one of the following forms:

(a)	A Bank guarantee issued by a Nationalized / Scheduled bank located in India; in the form provided in the bidding documents.
<b>OR</b>	
(b)	A Banker's cheque or Account Payee demand draft; in favour of the purchaser.

- 2.12.5 The performance security will be discharged by the Purchaser and returned to the contractor not later than 60 days following the date of completion of the work, including any warranty obligations, unless specified otherwise in SCC, without levy of any interest.
- 2.12.6 In the event of any contract amendment, the contractor shall, within 21 days of receipt of such amendment, furnish the amendment to the performance security, rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter.
- 2.12.7 The order confirmation should be received within 15 days from the date of notification of award. However, the Purchaser has the powers to extend the time frame for submission of order confirmation and submission of Performance Security (PS). **Even after extension of time, if the order acceptance and PS are not received, the contract shall be cancelled and limited tenders irrespective of the value would be invited from the responding firms after forfeiting the bid security of the defaulting firm, where applicable provided there is no change in specifications. In such cases the defaulting firm would not be considered again for re-tendering in the particular case.**
- 2.12.8 Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, and then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the client with a covering letter to compare with the original BG for the correctness, genuineness, etc.

**2.13 Installation, commissioning and testing**

The work executed under this Contract shall conform to the standards mentioned in the Technical Specifications, Schedule of Requirements/BOQ and as per other terms and Condition of contract.

**2.14 Work Completion Schedule.**

The work shall be completed within **60 days** from the date of handing over of site for work commencement.



**2.15 Insurance: Insurance of Manpower deployed at site including supervisory staff Employed by Contractor.**

- 2.15.1 The contractor shall provide in the joint names of employer and contractor , insurance cover from the start date to the end of defect liability period which are due to the contractors risk,
  - a) Loss of or damage to the works ,Plants and Materials;
  - b) Loss of or damage to the Equipment
  - c) Loss of or damage of property except works, plants materials and equipment in connection with the contract and
  - d) Injury or death of person working on the site of work. This also includes the supervisory staff employed by the Employer.
- 2.15.2 Policies and Certificates for Insurance shall be delivered by the Contractor to the Employer before start date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.
- 2.15.3 If the contractor does not provide any of the policies and certificates required, Employer may affect the insurance which the contractor should have provided and recovered the premiums by the employers has to be paid from payment due for otherwise due to the contractor or if no payment is due the payment of the premium shall be debt due.
- 2.15.4 Alterations to the terms of insurance shall not be made without approval of employer.
- 2.15.5 Both parties shall comply with any conditions of the Insurance policy.

**2.16 Transportation** The supplier shall make his own arrangements for the transportation of material at site and after completion of work remove the unwanted material from the site and hand over the clear site.

**2.17 Incidental services:-** The supplier may be required to provide any or all of the services including training if any as specified in chapter 4 clause 4-2

The supplier may be required to provide any or all of the services, including training, if any as specified in chapter4: clause-4.2

**2.18 Spare Parts** Supplier shall confirm the availability on spares parts if any needed during/after the defect liability period.

**2.19 Warranty/Defect liability period:**

Defect liability period of the work shall be 12 month from the date of handing/taking over the clear site after successful completion of the work. Contractor will rectify the defects noticed during the defect liability period free of cost.

**2.20 Terms of Payment:**

2.20.1 The method and conditions of payment to be made to the supplier under this contract shall be referred as specified in the SCC.

**2.21 Change Orders and Contract Amendments**

2.21.1. The client may at any time, by written order given to the contractor pursuant to Clause on Notices of the GCC make changes within the general scope of the Contract in any one or more of the following:

a)	Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Client;
b)	The method of shipping or packing;
c)	The place of delivery; and/or
d)	The Services to be provided by the Supplier.
e)	The delivery schedule.

2.21.2. If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the contractor for adjustment under this clause must be ascertained within fifteen (15) days from the date of the supplier's receipt of the purchaser's change order.

2.21.3. No variation or modification in the terms of the contract shall be made except by written amendment signed by the parties.

**2.22 Assignment**

The supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the purchaser's prior written consent.

**2.23 Subcontracts**

The Supplier shall notify the client in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or duties or obligation under the Contract.

**2.24 Extension of time**

2.24.1 The work shall be completed within the completion period only as specified in tender; however in case a time extension request if needed may be submitted with proper justification for consideration and decision of competent authority in this regard will final and binding.

2.24.2. If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the work and performance of Services, the supplier shall promptly notify the client in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may, at its discretion, extend the supplier's time for performance with or without penalty, in which case the extension shall be ratified by the parties by amendment to the Contract.

2.24.3. Except as provided under the Force Majeure clause of the GCC, a delay by the supplier in the performance of its delivery obligations shall render the purchaser liable to the imposition of penalty pursuant to Penalty Clause of the GCC unless an extension of time is agreed upon pursuant to above clause without the application of penalty clause.

**2.25. Penalty clause**

Subject to GCC Clause on Force Majeure, if the supplier/contractor fails to deliver/execute any or a part of the supply/work within the period(s) specified in the Contract, the purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to the percentage specified in SCC.

**2.26. Termination for Default**

2.26.1. The purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier/contractor, terminate the Contract in whole or part:

(a)	If the supplier/contractor fails to deliver any or all of the Goods/work within the period(s) specified in the contract, or within any extension thereof granted by the client pursuant to GCC Clause on Extension of Time;
(b)	If the supplier/contractor fails to perform any other obligation(s) under the Contract

(c)	If the supplier/contractor, in the judgment of the purchaser has engaged in corrupt or fraudulent or collusive or coercive practices as defined in GCC Clause on Fraud or Corruption in competing for or in executing the Contract.
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2.26.2. In the event the purchaser terminates the contract in whole or in part, he may take recourse to any one or more of the following action:

(a)	The Performance Security/EMD will be forfeited;
(b)	The purchaser may procure/execute, upon such terms and in such manner as it deems appropriate, Goods/work similar to those undelivered, and the supplier shall be liable for all available actions against it in terms of the contract.
(c)	However, the supplier shall continue to perform the contract to the extent not terminated.

**2.27. Force Majeure**

2.27.1. Notwithstanding the provisions of GCC Clauses relating to Extension of Time, Penalty and Termination for Default the Supplier shall not be liable for forfeiture of its Performance Security, Liquidated Damages or Termination for Default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

2.27.2. For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the contractor that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the contractor. Such events may include, but not be limited to, acts of the client in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

2.27.3. If a Force Majeure situation arises, the contractor shall promptly notify the client in writing of such conditions and the cause thereof within 21 days of its occurrence. Unless otherwise directed by the client in writing, the contractor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

2.27.4. If the performance in whole or in part or any obligations under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party may at its option terminate the contract without any financial repercussions on either side.

**2.28. Termination for Insolvency**

The Purchaser may at any time terminate the Contract by giving written notice to the supplier/contractor, if the supplier/contractor becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier/contractor, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the client.

**2.29. Termination for Convenience**

The supplier/contractor, by written notice sent to the contractor, may terminate the Contract, in whole or in part, at any time. The notice of termination shall specify that termination is for the client's convenience, the extent to which performance of the contractor under the Contract is terminated, and the date upon which such termination becomes effective.

**2.30. Settlement of Disputes**

- 2.30.1. The purchaser and the supplier/contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 2.30.2. If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier/contractor may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods/work under the Contract.
- 2.30.3. The dispute settlement mechanism / arbitration proceedings shall be concluded as under:

(a)	In case of Dispute or difference arising between the client and a contractor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director <b>The Indian Institute of Tropical Meteorology (IITM), Pune</b> and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to the Contract.
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- 2.30.4. The venue of the arbitration shall be the place from where the purchase/work order or Contract is issued.
- 2.30.5. Notwithstanding any reference to arbitration herein,

(a)	the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; <b>and</b>
(b)	the purchaser shall pay the contractor any monies due the Supplier.

**2.31 Governing Language**

The Contract shall be written in English language which shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the English language only.

**2.32 Applicable Law / Jurisdiction**

The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction as specified in SCC.

**2.33 Notices**

- 2.33.1 Any notice given by one party to the other pursuant to this contract / order shall be sent to the other party in writing or by cable, telex, FAX, e-mail or / and confirmed in writing to the other party's address specified in the SCC.
- 2.33.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

## **2.34 Taxes and Duties**

- 2.34.1 For goods/works component Manufactured within India, the supplier/contractor shall be entirely responsible for all taxes, duties, license fees, etc., incurred till its final manufacture / production.
- 2.34.2 If any tax exemptions, reductions, allowances or privileges may be available to the supplier/contractor in India, the purchaser shall make its best efforts to enable the supplier/contractor to benefit from any such tax savings to the maximum allowable extent.
- 2.34.3 All payments due under the contract shall be paid after deduction of statutory levies (at source) (like ESIC, IT, etc.) wherever applicable.

## **2.35 Right to use Defective Goods**

If after delivery, installation and within commissioning & acceptance and within warranty/defect liability period, the operation or use of the goods/works proves to be unsatisfactory, the purchaser shall have the right to continue to operate or use such goods/works until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the purchaser operation.

## **2.36 Site preparation and installation/work commencement:**

The site will be handed over to supplier/contractor along with all inventories if any and keys for work commencement. Supplier/contractor has to take over the site for commence of work and after successful completion of work the supplier/contractor has to handed over the completed site to purchaser.

- 2.37 Integrity Pact:** N.A. for contract value less than Rs. 5.00 Crores.

## CHAPTER 2B

### SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC):

SL No.	Special Condition of Contract (SCC)	
1.	<b>The Purchaser/Client is:</b>  THE DIRECTOR INDIAN INSTITUTE OF TROPICAL METEOROLOGY Dr. HOMI BHABHA ROAD, PASHAN, PUNE-411 008 (MAHARASHTRA) – INDIA	
2.	<b>The Final Destination is: (Please specify the exact work location).</b>  INDIAN INSTITUTE OF TROPICAL METEOROLOGY Dr.HOMI BHABHA ROAD, PASHAN, PUNE-411 008 (MAHARASHTRA) – INDIA	
3.	<b>EMD/BID Security: Rs. 37,500=00 (Rupees thirty seven thousand five hundred only) in the form as specified in tender.</b>	
4.	<b>Performance Security:</b> The amount of the <b>Performance Security</b> shall be <b>5% of the contract value</b> , valid up to 60 days after the date of completion of contract obligations including warranty/defect liability obligations.	
5.	<b>Deviation:</b> Additional work/any deviation beyond work order quantities requires prior approval of the IITM authorities before execution of such work. The permissible overall deviation from the work order value is 10% and such deviation should not be executed at site without prior approval of Institute's authority.	
6.	<b>SAFTY:</b> The successful bidder will be responsible for all activities on the site as per safety norms and building code.	
7.	<b>Extra/Non tendered item:</b> Non tendered items will be executed with prior approval of the competent authority. The procedure of payment of non tendered items will be material cost + labour cost + applicable taxes + contractors profit maximum up to 10%.	
8.	<b>Liquidity damages/Penalty:</b> If the work is not completed by the supplier within the stipulated completion period mentioned in the work order, the contractor shall pay liquidated damage of 1% per week subject to maximum of 10% of the work order value in case of delays beyond the accepted completion period for reasons solely attributed to contractor.	
9.	<b>Payment Terms:</b> The method and conditions of payment to be made to the contractor under this Contract shall be as follows: 1) No Advance payment will be made. 2) No Price escalation will be granted during the period of contract. 3) One running bills and after that 2nd & final bill [Total 02 bills] maximum 02 bills may be submitted by the contractor or for payment during the period of contract. 4) 5% amount from each bill will be deducted as <b>retention money</b> which will be released after completion of defect liability period. However <b>performance security</b> will be released with final bill. 5) The documents to be submitted along with final bill viz. final bill hard and soft copy, completion certificate, site clearance certificate, No claim certificate, inventory list, keys, as built drawing and equipment manual along with guaranty /warranty certificate etc.	
10.	<b>Defect liability period:</b> The defect liability period shall be: 12 months The defect liability period shall remain valid for <b>Twelve (12)</b> months from the date of handing over the completed site to the Institute.	
GCC 2.26.1	(a)	As time is the essence of the contract, Delivery period mentioned in the work Order should be strictly adhered to. Otherwise EMD/PS will be forfeited and also Liquidity damages clause will be applicable /enforced.
	(b)	IITM reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the EMD/PS.
	(c)	The <b>maximum</b> amount of <b>penalty</b> shall be <b>10%</b> of the work order value of work order in case of delays beyond the accepted completion period.
GCC 2.33.1	The <b>place of jurisdiction</b> is <b>Pune</b> , India.	
GCC 2.34.1	<b>For notices</b> , the contact address is  THE DIRECTOR INDIAN INSTITUTE OF TROPICAL METEOROLOGY Dr.HOMI BHABHA ROAD, PASHAN, PUNE-411 008 (MAHARASHTRA)- INDIA <b>Telephone #</b> : 0091-20-25904200 <b>Facsimile number</b> : 0091-20- 2586-5142 <b>E-mail address:</b> <a href="mailto:civil@tropmet.res.in">civil@tropmet.res.in</a>	
GCC 2.39.4	<b>The integrity pact is not to be signed.</b> However, efforts must be made to realize the objectives & spirits thereof.	

### **CHAPTER 3**

(To be filled by the bidder and enclosed with the Technical Bid)

#### **SCHEDULE OF REQUIREMENT**

**The schedule of requirement must clearly specify the time frame required to complete the work by the bidder (with reference to scope of work given in 4.2 of chapter 4 ) if the contract is awarded for the offer/proposal submitted by the bidder in response to this tender**

A) Time frame required for completion of work after the award of work /Execution of contract Agreement

<b>Sr.No.</b>	<b>Activity</b>	<b>Time frame</b>
1.	Site preparation and handing over of site for work commencement	
2.	Execution of work (Bar chart should be submitted )	
3	Completion of work by bidder	
4.	Site clearance and Handing over of site after successful work completion	

PLACE: \_\_\_\_\_

Signature of the Bidder: \_\_\_\_\_

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

## CHAPTER 4

### SPECIFICATIONS AND TECHNICAL DETAILS

4.1 Same as BOQ as mentioned in CHAPTER 3 [Note: The bid will be treated as **incomplete** if bidder has **not quoted** for all the components given in BOQ and **the incomplete bid will be rejected summarily**.

Sr. no.	Description	Qty	Unit
<b>A)</b>	<b>Dismantling Work</b>		
1	Dismantling aluminium partitions with aluminum doors including disposal of unserviceable surplus material out of office premises and stacking of serviceable material within 500 meters lead as directed by Engineer-in-charge. (Location : G-113)	37	sq.m.
2	Dismantling doors (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 500 metres lead : Of area 3 sq. metres and below (Location : G-120 & 122)	1	each
3	Dismantling windows (steel or wood) shutter with glass panes including chowkhats, architrave, holdfasts etc. complete and stacking within 500 metres lead : Of area beyond 3 sq. metres (Location : G-120 & 122)	2	each
4	Dismantling false floor including disposal of unserviceable surplus material out of office premises and stacking of serviceable material within 500 meters lead as directed by Engineer-in-charge. (Location : G-113)	75.5	sq.m.
5	Demolishing brick work manually/ by mechanical means including stacking of serviceable material within office premises and disposal of unserviceable material out of office premises as per direction of Engineer-in-charge. ( Location : G-120)	2	cum
6	Removing of existing wall paper having approximate area 100 sq.m. including stacking of serviceable material within office premises and disposal of unserviceable material out of office premises as per direction of Engineer-in-charge. ( Location : G-113)	1	Job
7	Dismantling chequered concrete tile work in floors and skirting laid in cement mortar including stacking material within 500 metres lead and disposal of unserviceable material out of office premises as per direction of Engineer-in-charge. For thickness of tiles 10 mm to 25 mm (Location : plinth protection and G-113)	17	sq.m.
8	Demolishing cement concrete (base of AC) and in plinth protection manually/ by mechanical means including disposal of material out of office premises as per direction of engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) ( Location : Outside of lab)	1.75	cum
9	Removing of existing false ceiling tiles and refixing the same tiles after cleaning all dust form tiles, cleaning of sides and ceiling surfaces above false ceiling including levelling & resecuring of existing false ceiling including necessary fitting fixtures as per site requirement approximate false ceiling area is 75 sq.m and to complete in all respect. (Location : G-113)	1	Job
10	Removing of existing window blinds of approx. size 2.4mx1.6m each including stacking of serviceable material within office premises and disposal of unserviceable material out of office premises as per direction of Engineer-in-charge. ( Location : G-113)	5	nos.
11	Removing of existing wall furniture of approx. size 2.45m x 0.46m (Qty. 01nos.) and 1.53m x 0.46m (Qty. 01nos.) including stacking of serviceable material within office premises and disposal of unserviceable material out of office premises as per direction of Engineer-in-charge. ( Location : G-113)	1	Job
<b>B)</b>	<b>Civil work</b>		
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	3.5	cum



2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)	8	cum
3	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand) ( Location : G-120)	1.5	cum
4	Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level. ( Location : G-120)	4	sq.m.
5	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut granite for window sills and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups and fixing with araldite or silicon sealant including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite (jet black/telephone black ) and Area of slab over 0.50 sqm [ Location : G-113 and G-120 ]	5	sq.m.
6	Tile on tile : Supply and Fixing antiskid Vitrified double charged floor tiles Size 600x600mm on floors and skirting (standard thickness as per manufacturer specification) 4-6 inches with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness Providing and laying vitrified floor tiles with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc. complete all as directed by Engineer-in-charge. [Make:Jhonson/Somani/Kajariya/NITCO/R.A.K/BELL]( Location : G-113)	84	sq.m.
7	Providing and fixing 10 mm thick and (300 mm x 300 mm) in size <b>acid and/or alkali resistant tiles</b> of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile (Location: G-120)	27	sq.m.
8	Providing and fixing 10 mm thick and(300 x 300)mm in size acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile (Location: G-120)	3.5	sq.m.
9	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer with synthetic enamel paint all complete. ( Location : For cylinder cage )	800	Kg
10	Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer with synthetic enamel paint, including welding and bolted with special shaped washers, plates, fastners etc. complete. Hot finished welded type tubes (Location: Outdoor shed enclosure)	890	Kg
11	Providing and fixing pre-coated semi corrugated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required with necessary chamfer at joint of sheet and wall for proper way to rain water wherever required. (Location: Outdoor shed enclosure and over cylinder cage)	55.5	sq.m.
12	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angles 40x40x6 mm for diagonal braces (Location: Outdoor shed enclosure)	3	sq.m.

13	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm ( Location : For cylinder cage )	32	sq.m.
14	15 mm cement plaster on rough side of single or full brick wall finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand) ( Location : G-120)	10	sq.m.
15	Providing and applying one coat of primer and two or more coat of <b>luster paint</b> over plastered surface of internal walls for internal painting, including scrapping with sand papering of existing oil bound distemper and preparing the surface smooth including necessary repairs to scratches, cracks with birla white putty and POP etc. complete Cleaning the splashses on floors, walls, doors, windows, glass panes, grills etc. curing where required, providing scaffolding, ladders, ropes protecting till handing over, all as directed by Engineer-in-charge. [ Make : Asian / Burger / Nerolac / Dulux ] (Location: G-120,G-113 & G-104)	350	sq.m.
16	Providing and applying one or more coat of synthetic enamel paint over mild steel surfaces including preparation of old painted surfaces ( scraping with sand papering etc.) of required colour for grills etc. with scaffolding, ladders, ropes all as directed by Engineer-in-charge. [ Make : Asian / Burger / Nerolac / Dulux ] (Location: G-120,G-113 & G-104)	62	sq.m.
17	Providing and fixing in position approved make fully glazed aluminum windows partly sliding and partly fixed ( as per existing design) manufactured out of HE 9 WP high grade aluminum alloy sections (Zindal make) confirming to I.S. specifications with sub frame framing 100x40 mm, sliding sections of 25 mm series with mitered shutter joints including glass as described below, nylon moldings inside, concealed mid lock, nylon rollers, approved quality PVC lining for glass, handle, hinges and weather strips with all necessary fixtures, powder coating 50 microns thk. Of approved shade from approved agency, sealing the crevices around the frame with approved sealant, fixtures and fastenings, cleaning etc. complete. (Location: G-120)		
	A) Three track three shuttered window with 5 mm thick clear glass of 'Modi' make.	9	sq.m.
18	Providing and fixing vertical blinds including all necessary fittings.[ Location : G-104, G-113 and G-120 ]	21	sq.m.
19	Providing and fixing Aluminium section 2.5"x1.5" powder coated partly 6mm thick glass and partly both side pre-laminated 12mm thick board including necessary fittings such as rubber gaskets, aluminium beeding etc.complete in all respect all as Directed by engineer-In- charge. ( Location : G-113)	495	sq.ft.
20	Providing and fixing Aluminium section 2.5"x2" powder coated sliding shutter(7"x4") with partly in 6mm thick glass and partly 12mm thick both side pre-laminated board including necessary fittings and fixtures such as handles, locks, sliding runner, rubber gasket, aluminium beeding etc.complete in all respect all as Directed by engineer-In-charge. ( Location : G-113 & G-120)	90	sq.ft.
21	Providing and fixing working platform width 2'6"x height 2'6" with below storage in 18mm thick ply on top and 18mm thick <b>granite top</b> and for sides, bottom & front with 18mm thick ply both side laminate , edge laminate/ lipping including necessary support, fittings, fixtures such as aluminum profile, hinges, magnet , key locks etc. complete in all respect all as Directed by engineer-In- charge. [ Location : G-104, G-113 and G-120 ]	66	rft.
22	Providing and fixing working platform width 2' x height 2'6" in 18mm thick ply on top and 12mm thick ply at back side with both side laminate , edge laminate/ lipping including necessary support at 3 ft c/c of 5'6" fixing to floor with drawer pedestal having three compartments necessary fixtures and fittings complete in all respect all as Directed by engineer-In- charge.(Location : G-113)	41	rft.
23	Providing and fixing over head storage depth 2'6" x width 1'3" with 18mm thick ply board for top, bottom sides and front openable shutters and back side 12mm thick plyboard with both side laminate , necessary vertical support at 3' c/c including edge laminate / lipping , all necessary support fittings fixtures such as aluminum profile, hinges, magnet , key locks etc. complete in all respect all as Directed by engineer-In-charge.[ Location : G-120 ]	38	rft.
24	Fixing only window grills after cutting/ removing of glass panel from outside face of room of existing window size appr.( 2.2m x 1.8m) with necessary fittings and fixtures like additional flats, bolts, nails, rigid bar etc. complete in all respect.	2	No.

25	Providing and fixing same size ( 2.67m x 2.14m) of wall furniture with same material used and in same colour of sunmika/ laminate so as to match the symmetry of laboratory.	1	Job
26	Providing and fixing false ceiling sheets of same size, colour, texture, design, pattern in the existing slots of tube lights having approximate area 72 sq.ft. [ Location : G-113]	1	Job
27	Removing and refixing of existing drainage chamber cover in concrete with frame complete in all respect as per engineer in charge.	1	Job
28	Door polish with frame & Re-securing : Polishing of previously polished wooden surfaces. Scraping, cracks & joint filling , sand paper grinding etc. to make the surface even & smooth for polishing & applying two or more coats of ordinary/ regular polish of approved brand and manufacture including edges, sides of the existing doors.Also re-securing of doors due to increased floor level of filling work and make it operational complete.	4	No.
29	Providing and fixing fixtures for MS gate aldrops of 16mm thick rigid rod including one coat of steel primer and two coats of synthetic enamel paint etc. complete.	6	No.
30	Providing and fixing fixtures for MS gate, tower bolt, including one coat of steel primer and two coats of synthetic enamel paint etc. complete.	24	No.
31	Providing and fixing fixtures for MS gate, hinges including one coat of steel primer and two coats of synthetic enamel paint etc. complete.	36	No.
<b>C)</b>	<b>Water Supply, Plumbing and HVAC:</b>		
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings(tee, elbow, reducers, connectors etc.) including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 25 mm nominal outer dia Pipes	48	meter
2	Providing & fixing various types of valve & other brass fittings etc complete.		
	A)brass stop cock of approved quality 20mm	2	No.
	B) <b>15mm dia C.P. angle cock</b> of approved make with C.P. wall flange & also 15mm C.P. connector pipes from Angle Stop cock to CP fixture etc. complete as approved by Architect/Engineer-in-charge.Item to include all fixing accessories,men material and lift all levels., installed complete.	3	No.
3	Supplying,installing, testing and commissioning of <b>CP sink cock swan neck with swivel spout</b> etc., all complete as directed by Engineer.	3	No.
4	Supplying and fixing ceramic laboratory basin/sink in granite (in rectangle 630x450 with maximum clear depth) including necessary plumbing work with required fitting and plumbing material etc. such as brackets, stop cocks, waste coupling etc. complete in all respect all as directed by engineer-in-charge. [ Location : G-104 and G-120 ]	3	No.
5	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3	each
6	Providing and fixing <b>PVC pipe</b> (6 Kg/sqcm) of 110mm dia below and approved make as waste water carry pipe with all specials, accessories and joints like tee, bends etc. with solvent cement solution according to manufacturer's specification.complete as approved by Engineer-in-charge. Item to include all fixing accessories, men material, fixing to existing line and lift all levels., installed complete.	20	rmt
7	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31mm single piece moulded with height of 270 mm,effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	3	each
8	Making connection of drain or sewer line with existing chamber or manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 100 to 250 mm diameter	3	each

9	Providing and fixing <b>PVC pipe</b> of 40mm dia approved make as waster water from basin/sink down take pipe with all specials, accessories and joints like tee, bends etc. with solvent cement solution according to manufacturer's specification.complete as approved by Engineer-in-charge. Item to include all fixing accessories, men material, fixing to existing line and lift all levels., installed complete.	3	rmt
<b>D) Electrical Work</b>			
1	Providing and fixing 125A 4P rating and 36 KA breaking capacity MCCB with thermomagnetic release and terminal spreaders in IP 54 duly powder coated MCCB enclosure box including drilling holes & fixing on wall at MDB.	1	Job
2	Supply and end termination of 4x35sqmm AL armoured cable from MDB busbar to 125A 4P MCCB including appropriate lugs, glands, nut bolts & proper saddling of cable upto MCCB box at MDB.	6	Mtr.
3	Providing and fixing 125A 4P rating and 36 KA breaking capacity MCCB and 4x150A Cu busbar box. Busbar providing at upper side of IP 54 duly powder coated MCCB enclosure box including drilling holes & fixing on wall making connection at ICPMS lab.(Make proper connection/termination of 4x35sqmm AL armoured cable from 125A MCCB to 4x150A Cu busbar including appropriate lugs, glands, nut bolts as required.)	1	Job
4	Supply and end termination of 4x35sqmm AL armoured cable from MDB to ICPMS lab on wall surface & clamped with 1mm thick saddle to cable.(Make proper termination of 4x35 sqmm AL armoured cable to 125A MCCB at MDB and ICPMS lab including appropriate lugs, glands, nut bolts as required.)	40	Mtr.
5	Supply and installation of 4 pole 40A 4P MCB in 4P metal enclosure box in ELDB and connection to MCB from UPS busbar with proper lugs, nut bolts, washers as required. (Supply for UPS Power)	1	No.
6	Supply and installation of 63A 2P MCB in 2P metal enclosure box in ICPMS lab and connection to MCB from busbar with proper lugs, nut bolts, washers as required. (Supply for instrument UPS Power incomer)	1	No.
7	Supply and installation of 4 pole 63A 4P MCB in 4P metal enclosure box in ICPMS lab and connection to MCB from busbar with proper lugs, nut bolts, washers as required. (Supply for room)	1	No.
8	Supplying and fixing 12 way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with finned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. For Raw power with 4P 63A MCB-01,SP 20 A MCB- 05,SP 16A MCB -03 Nos. at ICPMS lab.(Connection for 12 way DB from Busbar with appropriate lugs, nut bolts, washers as required at ICPMS lab.)	1	No.
9	Supplying and fixing 8 way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with finned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. For Raw power with 4P 40A MCB-01,SP 10 A MCB- 04Nos. at ICPMS lab.(Connection for 8 way DB from Busbar with appropriate lugs, nut bolts, washers as required at ICPMS lab.)	1	No.
10	Supplying and fixing 8 way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with finned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. For UPS power with 4P 32A MCB-01,SP 10 A MCB- 04Nos. at ICPMS lab.	1	No.
11	Supplying and fixing 8 way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with finned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. DB for instrument output UPS power with 2P 63A MCB-01,SP 32A MCB- 05Nos. at ICPMS ab.(Connection from instrument UPS output to 2P 63A MCB with appropriate lugs, nut bolts, washers as required at ICPMS lab.)	1	No.
12	Supply and installation of Neema socket with top with 32A 2P MCB including enclosure box.(Connection from 8 way instrument UPS DB 32A MCB to 32A MCB Neema socket at ICPMS lab)	2	No.
13	Supplying and fixing 12 way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with finned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. For Raw power with 4P 63A MCB-01,SP 16 A MCB- 05,SP 10A MCB -03 Nos. at room.	1	No.

14	Wiring for circuit/ submain wiring along with earth wire with the following sizes of modular insulated copper conductor, single core multistrand wires in surface in 25 mm PVC casing capping/conduit.		
14.1	Wiring for Air Conditioner with 2 X 4 sq. mm + 1 X 4 sq. mm earth cu flexible wire. (Wiring for AC from RAW power 12 way DB 20A MCB to suitable ISI make AC boxes).	45	Mtr.
14.2	Wiring for UPS Power with 4 X 4 sq. mm + 1 X 4 sq. mm earth cu flexible multistrand wire. (Wiring for UPS power from ELDB to 8 way UPS DB at ICPMS lab includes connection at both sides with proper lugs.)	25	Mtr.
14.3	Wiring for 12 way RAW Power DB with 4 X 6 sq. mm + 1 X 6 sq. mm earth cu flexible multistrand wire. (Wiring for RAW power from busbar to 12 way RAW power DB at ICPMS lab includes connection at both sides with proper lugs.)	6	Mtr.
14.4	Wiring for 8 way RAW Power DB with 4 X 4 sq. mm + 1 X 4 sq. mm earth cu flexible multistrand wire. (Wiring for RAW power from busbar to 8 way RAW power DB at ICPMS lab includes connection at both sides with proper lugs.)	10	Mtr.
14.5	Wiring for RAW Power with 4 X 4 sq. mm + 1 X 4 sq. mm earth cu flexible multistrand wire. (Wiring from 63A 4P MCB (ICPMS lab) to 12 way DB at room includes connection at both sides with proper lugs.)	25	Mtr.
14.6	Wiring for 16A power point with 2 X 4 sq. mm + 1 X 4 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from 8 way instrument UPS output power 32A MCB to boards & Neema socket).	20	Mtr.
14.7	Wiring for 16A power point with 2 X 4 sq. mm + 1 X 4 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from 12 way RAW power DB to boards at room).	10	Mtr.
14.8	Wiring for 6 Amp Switch/Socket 2 X 2.5 sq. mm + 1 X 1.5 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from RAW power 8way DB 10A MCB to boards).	12	Mtr.
14.9	Wiring for 6 Amp Switch/Socket 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from UPS power 8way DB 10A MCB to boards).	35	Mtr.
14.10	Wiring for 15 Amp Switch/Socket & AC box 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from RAW power 12way DB 16A MCB to boards & AC box at room).	40	Mtr.
15	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core multistrand cable in surface / recessed medium class PVC casing capping/conduit, with modular switch, modular plate, suitable Modular box and earthing the point with 1.5 sq.mm FRLS modular insulated copper conductor single core cable etc. as required. <b>Note:1.:Each Light points/fan points etc shall be considered as one Light points.</b>	17	Point
16	Supplying and fixing following modular switch/socket/ regulator/ blanking plate on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
16.1	5/6 A switch	48	Nos.
16.2	15/16 A switch	15	Nos.
16.3	3 pin 5/6 A socket outlet	48	Nos.
16.4	6 pin 15/16 A socket outlet	15	Nos.
16.5	Two module stepped type electronic fan regulator	1	Nos.
16.6	Modular blanking plate	24	Nos.
17	Supplying and fixing following size/ modules, modular modular box alongwith modular base & cover plate for modular switches & socket on surface etc.as required.		
17.1	12 Module (200mmX150mm)	11	Nos.
17.2	8 Module (125mmX125mm)	2	Nos.
17.3	6 Module (200mmX75mm)	12	Nos.
17.4	ISI make AC enclosure box with industrial top & socket	6	Nos.
18	Supply of wall mounting fan at ICPMS lab	2	Nos.
19	Supply of capacitor type 1200 mm sweep ceiling fan complete with down rod, blades, shakle etc.at room.	1	Nos.
20	Supply of 36W LED batten light 4 feet tube fitting at room	8	Nos.
21	Supply and installation of 16sqmm single core cu cable for UPS incoming & outgoing terminal connection with proper lugs at both sides.	30	Mtr.

22	Supply and fixing of LED Light fittings in 2feetx2feet false ceiling sheet with capacity 24W 230V 2x2 ft and fitting should be aesthetelcally look good . Fitting should be approved by Incharge electrical before installation. <b>Note- Two light fittings should be on one switch.</b>	16	Nos.
23	Providing & Earthing using maintenance free earth electrode with chemical treatment 3mtr. long 85mm Dia. pure cu electrode UES make or equivalent. Including boring of hole upto 3.5 mtrs. in all types of strata as required as directed by electrical in-charge. (Scope including excavation by Machines /Boaring, Chemical powder etc) <b>Note- Voltage between Neutral to Earth must have below 2volts.</b>	3	Nos.
24	Supplying & laying 25sqmm single core cu cable through DWC pipe underground or on wall from Earth electrode to UPS & RAW power panel. (Including connection at both sides with proper lugs, nut bolts, washers, excavation, refilling, saddling work as required =03 Nos.) as directed by electrical in-charge.	50	Mtr.

**4.3** Scope of work and Technical specification as referred above sr.no. 1, 2 and 3.

Removing of existing windows and fixing new aluminium windows power coated with grill and granite to all the windows front side of the Phase II building of the Institute

**4.4** Completion period of the work **60 days** from the date of handing over the site for execution of the work.

**4.5** Commercial evaluation of bid

The bid will be treated as incomplete if bidder has not quoted for all the components given in scope of supply (clause 4.2) and the incomplete bid will be rejected. The bidder should also quote for all incidental services if any. The bid will be commerciality evaluated for the components of the scope of work.



**CHAPTER 6 ( A ) :- PRICE SCHEDULE**

**NAME OF WORK: Renovation of laboratory spaces for keeping ICP-MS, diamond saw machine and a sample processing for paleoclimate research at IITM, Pashan, Pune-8.**

<b>Sr. No</b>	<b>Description</b>	<b>Total quoted price of the work Inclusive of applicable Taxes etc complete in all respect as per 6B in (Rs.)</b>
1.	<b>Renovation of laboratory spaces for keeping ICP-MS, diamond saw machine and a sample processing for paleoclimate research at IITM, Pashan, Pune-8.</b>	

**Note:** The prices mentioned at above should exactly be submitted at e-procurement web site ( Price Bid) and soft copy of price schedule along with relevant chapter 6A & 6B have to be uploaded on e-procurement web portal. The prices submitted on e-procurement web site will be treated as final and compression will be based on same prices only.

**Signature of Authorised Person with seal**



**CHAPTER 6 (B):- PRICE SCHEDULE**

**BILL OF QUATITIES (BOQ) FOR Renovation of laboratory spaces for keeping ICP-MS, diamond saw machine and a sample processing for paleoclimate research at IITM, Pashan, Pune-8.**

Sr. no.	Description	Qty	Unit	Basic Rate Rs.	CGST Rs.	SGST Rs.	Total Rate Rs.	Amount Rs.
<b>A)</b>	<b>Dismantling Work</b>							
1	Dismantling aluminium partitions with aluminum doors including disposal of unserviceable surplus material out of office premises and stacking of serviceable material with in 500 meters lead as directed by Engineer-in-charge. (Location : G-113)	37	sq.m					
2	Dismantling doors (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 500 metres lead : Of area 3 sq. metres and below (Location : G-120 & 122)	1	each					
3	Dismantling windows (steel or wood) shutter with glass panes including chowkhats, architrave, holdfasts etc. complete and stacking within 500 metres lead : Of area beyond 3 sq. metres(Location : G-120 & 122)	2	each					
4	Dismantling false floor including disposal of unserviceable surplus material out of office premises and stacking of serviceable material with in 500 meters lead as directed by Engineer-in-charge. (Location : G-113)	75.5	sq.m					
5	Demolishing brick work manually/ by mechanical means including stacking of serviceable material within office premises and disposal of unserviceable material out of office premises as per direction of Engineer-in-charge.( Location : G-120)	2	cum					
6	Removing of existing wall paper having approximate area 100 sq.m. including stacking of serviceable material within office premises and disposal of unserviceable material out of office premises as per direction of Engineer-in-charge.( Location : G-113)	1	Job					
7	Dismantling chequered concrete tile work in floors and skirting laid in cement mortar including stacking material within 500 metres lead and disposal of unserviceable material out of office premises as per direction of Engineer-in-charge. For thickness of tiles 10 mm to 25 mm (Location : plinth protection and G-113)	17	sq.m					
8	Demolishing cement concrete (base of AC) and in plinth protection manually/ by mechanical means including disposal of material out of office premises as per direction of engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)( Location : Outside of lab)	1.75	cum					
9	Removing of existing false ceiling tiles and refixing the same tiles after cleaning all dust form tiles, cleaning of sides and ceiling surfaces above false ceiling including levelling & resecuring of existing false ceiling including necessary fitting fixtures as per site requirement approximate false ceinling area is 75 sq.m and to complete in all respect. (Location : G-113)	1	Job					
10	Removing of existing window blinds of approx. size 2.4mx1.6m each including stacking of serviceable material within office premises and disposal of unserviceable material out o foffice premises as per direction of Engineer-in-charge. ( Location : G-113)	5	nos.					

11	Removing of existing wall furniture of approx. size 2.45m x 0.46m (Qty. 01nos.) and 1.53m x 0.46m (Qty. 01nos.) including stacking of serviceable material within office premises and disposal of unserviceable material out of office premises as per direction of Engineer-in-charge. ( Location : G-113)	1	Job					
B)	<b>Civil work</b>							
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	3.5	cum					
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)	8	cum					
3	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand) ( Location : G-120)	1.5	cum					
4	Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level. ( Location : G-120)	4	sq.m					
5	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut granite for window sills and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups and fixing with araldite or silicon sealant including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite ( jet black/telephone black ) and Area of slab over 0.50 sqm [ Location : G-113 and G-120 ]	5	sq.m					
6	Tile on tile : Supply and Fixing antiskid Vitrified double charged floor tiles Size 600x600mm on floors and skirting (standard thickness as per manufacturer specification) 4-6 inches with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness Providing and laying vitrified floor tiles with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc. complete all as directed by Engineer-in-charge. [Make:Jhonson/Somani/Kajariya/NITCO/R.A.K/BELL]( Location : G-113)	84	sq.m					
7	Providing and fixing 10 mm thick and (300 mm x 300 mm) in size <b>acid and/or alkali resistant tiles</b> of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile (Location: G-120)	27	sq.m					
8	Providing and fixing 10 mm thick and (300 x 300)mm in size acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile (Location: G-120)	3.5	sq.m					

9	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer with synthetic enamel paint all complete. ( Location : For cylinder cage )	800	Kg					
10	Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer with synthetic enamel paint, including welding and bolted with special shaped washers, plates, fastners etc. complete. Hot finished welded type tubes (Location: Outdoor shed encloser)	890	Kg					
11	Providing and fixing precoated semi corrugated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required with necessary champer at joint of sheet and wall for proper way to rain water wherever required. (Location: Outdoor shed encloser and over cylinder cage)	55.5	sq.m					
12	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces (Location: Outdoor shed encloser)	3	sq.m					
13	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm ( Location : For cylinder cage )	32	sq.m					
14	15 mm cement plaster on rough side of single or full brick wall finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand) ( Location : G-120)	10	sq.m					
15	Providing and applying one coat of primer and two or more coat of <b>luster paint</b> over plastered surface of internal walls for internal painting, including scrapping with sand papering of existing oil bound distemper and preparing the surface smooth including necessary repairs to scratches, cracks with birla white putty and POP etc. complete Cleaning the splashses on floors, walls, doors, windows, glass panes, grills etc. curing where required, providing scaffolding, ladders, ropes protecting till handing over, all as directed by Engineer-in-charge. [ Make : Asian / Burger / Nerolac / Dulux ] (Location: G-120,G-113 & G-104)	350	sq.m					
16	Providing and applying one or more coat of synthetic enamel paint over mild steel surfaces including preparation of old painted surfaces ( scraping with sand papering etc.) of required colour for grills etc. with scaffolding, ladders, ropes all as directed by Engineer-in-charge. [ Make : Asian / Burger / Nerolac / Dulux ] (Location: G-120,G-113 & G-104)	62	sq.m					

17	Providing and fixing in position approved make fully glazed aluminum windows partly sliding and partly fixed ( as per existing design) manufactured out of HE 9 WP high grade aluminum alloy sections (Zindal make) confirming to I.S. specifications with sub frame framing 100x40 mm, sliding sections of 25 mm series with mitered shutter joints including glass as described below, nylon moldings inside, concealed mid lock, nylon rollers, approved quality PVC lining for glass, handle, hinges and weather strips with all necessary fixtures, powder coating 50 microns thk. Of approved shade from approved agency, sealing the crevices around the frame with approved sealant, fixtures and fastenings, cleaning etc. complete. (Location: G-120)							
	A) Three track three shuttered window with 5 mm thick clear glass of 'Modi' make.	9	sq.m					
18	Providing and fixing vertical blinds including all necessary fittings.[ Location : G-104, G-113 and G-120 ]	21	sq.m					
19	Providing and fixing Aluminium section 2.5"x1.5" powder coated partly 6mm thick glass and partly both side pre-laminated 12mm thick board including necessary fittings such as rubber gaskets, aluminium beeding etc.complete in all respect all as Directed by engineer-In- charge. ( Location : G-113)	495	sq.ft					
20	Providing and fixing Aluminium section 2.5"x2" powder coated sliding shutter(7'x4') with partly in 6mm thick glass and partly 12mm thick both side pre-laminated board including necessary fittings and fixtures such as handles, locks, sliding runner, rubber gasket, aluminium beeding etc.complete in all respect all as Directed by engineer-In- charge. ( Location : G-113 & G-120)	90	sq.ft					
21	Providing and fixing working platform width 2'6"x height 2'6" with below storage in 18mm thick ply on top and 18mm thick <b>granite top</b> and for sides, bottom & front with 18mm thick ply both side laminate , edge laminate/ lipping including necessary support, fittings, fixtures such as aluminum profile, hinges, magnet , key locks etc. complete in all respect all as Directed by engineer-In-charge. [ Location : G-104, G-113 and G-120 ]	66	rft.					
22	Providing and fixing working platform width 2' x height 2'6" in 18mm thick ply on top and 12mm thick ply at back side with both side laminate , edge laminate/ lipping including necessary support at 3 ft c/c of 5'6" fixing to floor with drawer pedestal having three compartments necessary fixtures and fittings complete in all respect all as Directed by engineer-In- charge.(Location : G-113)	41	rft.					
23	Providing and fixing over head storage depth 2'6" x width 1'3" with 18mm thick ply board for top, bottom sides and front openable shutters and back side 12mm thick plyboard with both side laminate , necessary vertical support at 3' c/c including edge laminate / lipping , all necessary support fittings fixtures such as aluminum profile, hinges, magnet , key locks etc. complete in all respect all as Directed by engineer-In- charge.[ Location : G-120 ]	38	rft.					
24	Fixing only window grills after cutting/ removing of glass panel from outside face of room of existing window size appr.( 2.2m x 1.8m) with necessary fittings and fixtures like additional flats, bolts, nails, rigid bar etc. complete in all respect.	2	No.					
25	Providing and fixing same size ( 2.67m x 2.14m) of wall furniture with same material used and in same colour of sunmika/ laminate so as to match the symmetry of laboratory.	1	Job					
26	Providing and fixing false ceiling sheets of same size, colour, texture, design, pattern in the existing slots of tube lights having approximate area 72 sq.ft. [ Location : G-113]	1	Job					
27	Removing and refixing of existing drainage chamber cover in concrete with frame complete in all respect as per engineer in charge.	1	Job					

28	Door polish with frame & Re-securing : Polishing of previously polished wooden surfaces. Scraping, cracks & joint filling , sand paper grinding etc. to make the surface even & smooth for polishing & applying two or more coats of ordinary/ regular polish of approved brand and manufacture including edges, sides of the existing doors. Also re-securing of doors due to Increased floor level of tilling work and make it operational complete.	4	No.					
29	Providing and fixing fixtures for MS gate aldrip of 16mm thick rigid rod including one coat of steel primer and two coats of synthetic enamel paint etc. complete.	6	No.					
30	Providing and fixing fixtures for MS gate, tower bolt, including one coat of steel primer and two coats of synthetic enamel paint etc. complete.	24	No.					
31	Providing and fixing fixtures for MS gate, hinges including one coat of steel primer and two coats of synthetic enamel paint etc. complete.	36	No.					
<b>C)</b>	<b>Water Supply, Plumbing and HVAC:</b>							
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings(tee, elbow, reducers, connectors etc.) including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 25 mm nominal outer dia Pipes	48	met er					
2	Providing & fixing various types of valve & other brass fittings etc complete.							
	A)brass stop cock of approved quality 20mm	2	No.					
	B) 15mm dia C.P. angle cock of approved make with C.P. wall flange & also 15mm C.P. connector pipes from Angle Stop cock to CP fixture etc. complete as approved by Architect/Engineer-in-charge.Item to include all fixing accessories,men material and lift all levels., installed complete.	3	No.					
3	Supplying,installing, testing and commissioning of CP sink cock swan neck with swivel spout etc., all complete as directed by Engineer.	3	No.					
4	Supplying and fixing ceramic laboratory basin/sink in granite (in rectangle 630x450 with maximum clear depth) including necessary plumbing work with required fitting and plumbing material etc. such as brackets, stop cocks, waste coupling etc. complete in all respect all as directed by engineer-in-charge. [ Location : G-104 and G-120 ]	3	No.					
5	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3	each					
6	Providing and fixing PVC pipe (6 Kg/sqcm) of 110mm dia below and approved make as waste water carry pipe with all specials, accessories and joints like tee, bends etc. with solvent cement solution according to manufacturer's specification.complete as approved by Engineer-in-charge. Item to include all fixing accessories, men material, fixing to existing line and lift all levels., installed complete.	20	rmt					
7	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31mm single piece moulded with height of 270 mm,effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	3	each					

8	Making connection of drain or sewer line with existing chamber or manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 100 to 250 mm diameter	3	each					
9	Providing and fixing <b>PVC pipe</b> of 40mm dia approved make as waster water from basin/sink down take pipe with all specials, accessories and joints like tee, bends etc. with solvent cement solution according to manufacturer's specification.complete as approved by Engineer-in-charge. Item to include all fixing accessories, men material, fixing to existing line and lift all levels., installed complete.	3	rmt					
<b>D) Electrical Work</b>								
1	Providing and fixing 125A 4P rating and 36 KA breaking capacity MCCB with thermomagnetic release and terminal spreaders in IP 54 dully powder coated MCCB enclosure box including drilling holes & fixing on wall at MDB.	1	Job					
2	Supply and end termination of 4x35sqmm AL armoured cable from MDB busbar to 125A 4P MCCB including appropriate lugs, glands, nut bolts & proper saddling of cable upto MCCB box at MDB.	6	Mtr.					
3	Providing and fixing 125A 4P rating and 36 KA breaking capacity MCCB and 4x150A Cu busbar box. Busbar providing at upper side of IP 54 dully powder coated MCCB enclosure box including drilling holes & fixing on wall making connection at ICPMS lab.(Make proper connection/termination of 4x35sqmm AL armoured cable from 125A MCCB to 4x150A Cu busbar including appropriate lugs, glands, nut bolts as required.)	1	Job					
4	Supply and end termination of 4x35sqmm AL armoured cable from MDB to ICPMS lab on wall surface & clamped with 1mm thick saddle to cable.(Make proper termination of 4x35 sqmm AL armoured cable to125A MCCB at MDB and ICPMS lab including appropriate lugs, glands, nut bolts as required.)	40	Mtr.					
5	Supply and installation of 4 pole 40A 4P MCB in 4P metal enclosure box in ELDB and connection to MCB from UPS busbar with proper lugs, nut bolts, washers as required. (Supply for UPS Power)	1	No.					
6	Supply and installation of 63A 2P MCB in 2P metal enclosure box in ICPMS lab and connection to MCB from busbar with proper lugs, nut bolts, washers as required. (Supply for instument UPS Power incomer)	1	No.					
7	Supply and installation of 4 pole 63A 4P MCB in 4P metal enclosure box in ICPMS lab and connection to MCB from busbar with proper lugs, nut bolts, washers as required. (Supply for room)	1	No.					
8	Supplying and fixing 12 way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. For Raw power with 4P 63A MCB-01,SP 20 A MCB- 05,SP 16A MCB -03 Nos. at ICPMS lab.(Connection for 12 way DB from Busbar with appropriate lugs, nut bolts, washers as required at ICPMS lab.)	1	No.					
9	Supplying and fixing 8 way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. For Raw power with 4P 40A MCB-01,SP 10 A MCB- 04Nos. at ICPMS lab.(Connection for 8 way DB from Busbar with appropriate lugs, nut bolts, washers as required at ICPMS lab.)	1	No.					

10	Supplying and fixing 8 way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. For UPS power with 4P 32A MCB-01,SP 10 A MCB- 04Nos. at ICPMS lab.	1	No.					
11	Supplying and fixing 8 way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. DB for instrument output UPS power with 2P 63A MCB-01,SP 32A MCB- 05Nos. at ICPMS ab.(Connection from instrument UPS output to 2P 63A MCB with appropriate lugs, nut bolts, washers as required at ICPMS lab.)	1	No.					
12	Supply and installation of Neema socket with top with 32A 2P MCB including enclosure box.(Connection from 8 way instrument UPS DB 32A MCB to 32A MCB Neema socket at ICPMS lab)	2	No.					
13	Supplying and fixing 12 way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. For Raw power with 4P 63A MCB-01,SP 16 A MCB- 05,SP 10A MCB -03 Nos. at room.	1	No.					
14	Wiring for circuit/ submain wiring along with earth wire with the following sizes of modular insulated copper conductor, single core multistrand wires in surface in 25 mm PVC casing capping/conduit.							
14.1	Wiring for Air Conditioner with 2 X 4 sq. mm + 1 X 4 sq. mm earth cu flexible wire. (Wiring for AC from RAW power 12 way DB 20A MCB to suitable ISI make AC boxes).	45	Mtr.					
14.2	Wiring for UPS Power with 4 X 4 sq. mm + 1 X 4 sq. mm earth cu flexible multistrand wire. (Wiring for UPS power from ELDB to 8 way UPS DB at ICPMS lab includes connection at both sides with proper lugs.)	25	Mtr.					
14.3	Wiring for 12 way RAW Power DB with 4 X 6 sq. mm + 1 X 6 sq. mm earth cu flexible multistrand wire. (Wiring for RAW power from busbar to 12 way RAW power DB at ICPMS lab includes connection at both sides with proper lugs.)	6	Mtr.					
14.4	Wiring for 8 way RAW Power DB with 4 X 4 sq. mm + 1 X 4 sq. mm earth cu flexible multistrand wire. (Wiring for RAW power from busbar to 8 way RAW power DB at ICPMS lab includes connection at both sides with proper lugs.)	10	Mtr.					
14.5	Wiring for RAW Power with 4 X 4 sq. mm + 1 X 4 sq. mm earth cu flexible multistrand wire. (Wiring from 63A 4P MCB (ICPMS lab) to 12 way DB at room includes connection at both sides with proper lugs.)	25	Mtr.					
14.6	Wiring for 16A power point with 2 X 4 sq. mm + 1 X 4 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from 8 way instrument UPS output power 32A MCB to boards & Neema socket).	20	Mtr.					
14.7	Wiring for 16A power point with 2 X 4 sq. mm + 1 X 4 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from 12 way RAW power DB to boards at room).	10	Mtr.					
14.8	Wiring for 6 Amp Switch/Socket 2 X 2.5 sq. mm + 1 X 1.5 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from RAW power 8way DB 10A MCB to boards).	12	Mtr.					
14.9	Wiring for 6 Amp Switch/Socket 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from UPS power 8way DB 10A MCB to boards).	35	Mtr.					

14.10	Wiring for 15 Amp Switch/Socket & AC box 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth copper flexible wire to surface mounted modular box.(Wiring for boards from RAW power 12way DB 16A MCB to boards & AC box at room).	40	Mtr.					
15	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core multistrand cable in surface / recessed medium class PVC casing capping/conduit, with modular switch, modular plate, suitable Modular box and earthing the point with 1.5 sq.mm FRLS modular insulated copper conductor single core cable etc. as required. <b>Note:1..Each Light points/fan points etc shall be considered as one Light points.</b>	17	Point					
16	Supplying and fixing following modular switch/socket/ regulator/ blanking plate on the existing modular plate & switch box including connections but excluding modular plate etc. as required.							
16.1	5/6 A switch	48	Nos.					
16.2	15/16 A switch	15	Nos.					
16.3	3 pin 5/6 A socket outlet	48	Nos.					
16.4	6 pin 15/16 A socket outlet	15	Nos.					
16.5	Two module stepped type electronic fan regulator	1	Nos.					
16.6	Modular blanking plate	24	Nos.					
17	Supplying and fixing following size/ modules, modular modular box alongwith modular base & cover plate for modular switches & socket on surface etc.as required.							
17.1	12 Module (200mmX150mm)	11	Nos.					
17.2	8 Module (125mmX125mm)	2	Nos.					
17.3	6 Module (200mmX75mm)	12	Nos.					
17.4	ISI make AC enclosure box with industrial top & socket	6	Nos.					
18	Supply of wall mounting fan at ICPMS lab	2	Nos.					
19	Supply of capacitor type1200 mm sweep ceiling fan complete with down rod, blades, shakle etc.at room.	1	Nos.					
20	Supply of 36W LED batten light 4 feet tube fitting at room	8	Nos.					
21	Supply and installation of 16sqmm single core cu cable for UPS incoming & outgoing terminal connection with proper lugs at both sides.	30	Mtr.					
22	Supply and fixing of LED Light fittings in 2feetx2feet false ceiling sheet with capacity 24W 230V 2x2 ft and fitting should be aesthetelcally look good . Fitting should be approved by Incharge electrical before installation. <b>Note- Two light fittings should be on one switch.</b>	16	Nos.					
23	Providing & Earthing using maintenance free earth electrode with chemical treatment 3mtr. long 85mm Dia. pure cu electrode UES make or equivalent. Including boring of hole upto 3.5 mtrs. in all types of strata as required as directed by electrical in-charge.(Scope including excavation by Machines /Boaring, Chemical powder etc) <b>Note- Voltage between Neutral to Earth must have below 2volts.</b>	3	Nos.					



24	Supplying & laying 25sqmm single core cu cable through DWC pipe underground or on wall from Earth electrode to UPS & RAW power panel. (Including connection at both sides with proper lugs, nut bolts, washers, excavation, refilling, saddling work as required =03 Nos.) as directed by electrical in-charge.	50	Mtr.					
							Total =	

**Note: The prices quoted against above BIL OF QUANTITIES (BOQ) should exactly be submitted at e-procurement website (Price Bid) and soft copies of price schedule have to be uploaded on e-procurement web portal. The prices submitted on e-procurement website will treated as final and comparison will based on the said prices only.**

## CHAPTER 7

### Contract Form/Agreement Format:

This agreement, made the \_\_\_ day of \_\_, 2018 between Indian Institute of Tropical Meteorology, Homi Bhabha road, Pashan, Pune (hereinafter called \_ the Employer) II of the one part and M/s. ----- II of the part

Whereas the Employer is desirous that the Contractor execute -----at Indian Institute of Tropical Meteorology, Pashan, Pune (hereinafter called \_ the Works II) and the Employer has accepted the Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein, at a Contract Rs. -----

THIS AGREEMENT WIRNESSETH as follows:

1. In this Agreement, words and expression shall have the same meaning as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the works and remedy any defects therein conformity in all aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works and the remedying the defects wherein the contract Price or such other sum as may become payable under the provisions of the Contractor at the times and in the manner prescribed by the contract.
4. The contractor shall not be responsible for any delays due to changes in drawings, specifications, scope of work or any other reasons attributable to the client, his representatives and other contractors. The contractor shall also not be responsible for any delays occurring due to force majeure situations during the execution of the work.
5. **Non tendered items:** The Rate for non-tendered items will be arrived as per following material cost at site + labour cost + taxes + 10% overhead & profit. Non tendered items will be executed only with prior approval of Institute's authority.
6. **DEVIATION:** Additional work/any deviation beyond work order quantities requires prior approval of the IITM authorities before execution of such work. The permissible overall deviation from the work order value is 10% and such deviation should not be executed at site without prior approval of Institute's authority.
7. **PENALTY CLAUSE:** If the Contractor fails to carry out the work as per specifications mentioned in the BOQ within the due date, the contractor is liable to pay liquidated damages of one percent, per every week delay subject to a maximum of 10% of work order value and such money will be deducted from any money due or which may become due to the supplier. Completion period will be calculated from the date of handing the site to contractor for execution of work.
8. Other terms and conditions will be applicable as per Tender document and issued work order No ----- dated on-----

9. The Director, Indian Institute of Tropical Meteorology, Pune will be the final authority to decide the appropriate action and it will be binding on the Vendor. Decision of Director, IITM in regard of interpretation of the terms and conditions shall be final and binding on the vendor.

In witness whereof the parties thereto have caused this Agreement to be executed the day and Year first before written.

Signed and delivered for and on behalf of  
M/s. -----  
Pashan

Signed and delivered for and on behalf of  
Indian Institute of tropical Meteorology,

1) Signature  
Name:  
  
Address:

1) Signature  
Name:

2) Signature  
Name:

2) Signature  
Name:

**CHAPTER 8**

**(I) OTHER STANDARD FORMS**

<b>Sr. No.</b>	<b>Name of the Form</b>	<b>Annexure</b>
1	Bidder Information Form	A
2	Bid Security Form / Earnest Money Deposit	B
3	Performance Statement Form	C
4	Deviation Statement Form	D
5	Service Support Detail Form	E
6	Bid Form	F
7	Performance Security Form	G
8	Indemnity Bond	H
9	Eligibility Certificate	I
10	Non Black List Certificate	J

**NOTE: The Successful Bidder shall submit Documents with reference to Annexure – H, I & J after Award of Contract as mentioned in Purchase Order.**

**Bidder Information Form**

(a) [The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted. This should be done of the letter head of the firm]

Date : [insert date (as day, month and year) of Bid Submission]

Tender No .:[insert number from Invitation for bids]

01.	Bidder's Legal Name [insert Bidder's legal name]
02.	In case of JV, legal name of each party: [insert legal name of each party in JV]
03.	Bidder's actual or intended Country of Registration: [insert actual or intended Country of Registration]
04.	Bidder's Year of Registration: [insert Bidder's year of registration]
05.	Bidder's Legal Address in Country of Registration: [insert Bidder's legal address in country of registration]
06.	Bidder's Authorized Representative Information  Name: [insert Authorized Representative's name]  Address: [insert Authorized Representative's Address]  Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers]  Email Address: [insert Authorized Representative's email address]
07.	Attached are copies of original documents of:  Articles of Incorporation or Registration of firm named in 1, above.

Signature of Bidder \_\_\_\_\_

Name \_\_\_\_\_

Business Address \_\_\_\_\_

**BID SECURITY FORM**

Whereas

\_\_\_\_\_

(hereinafter called the tenderer)

has submitted their offer dated

\_\_\_\_\_

for the supply of \_\_\_\_\_  
(hereinafter called the tender)

Against the Client's Tender No. \_\_\_\_\_  
KNOW ALL MEN by these presents that WE

of \_\_\_\_\_ having our registered office  
at

\_\_\_\_\_ are bound unto \_\_\_\_\_ (hereinafter called the  
"Client")

In the sum of \_\_\_\_\_

For which payment will and truly to be made to the said Client, the Bank binds itself, its successors  
and assigns by these presents. Sealed with the Common Seal of the said Bank this  
\_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

THE CONDITIONS OF THIS OBLIGATION ARE:

(1)	If the tenderer withdraws or amends or modifies or impairs or derogates from the Tender in any respect within the period of validity of this tender.
(2)	If the tenderer having been notified of the acceptance of his tender by the Client during the period of its validity
(3)	If the tenderer fails to furnish the Performance Security for the due Performance of the contract.
(4)	Fails or refuses to accept/execute the contract.

We undertake to pay the Client up to the above amount upon receipt of its first written demand, without the Client having to substantiate its demand, provided that in its demand the Client will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

\_\_\_\_\_  
(Signature of the authorized officer of the

Bank)

Name and designation of the officer  
Seal, name & address of the Bank and address of

the Branch

**Note: Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Client with a covering letter to compare with the original BG for the correctness, genuineness, etc.**

**PERFORMANCE STATEMENT FORM**

**Details of similar works executed during past 3 years in India & Abroad**

**Name of the Firm** \_\_\_\_\_

SL. No.	Work Order Placed by (full address of Client)	Work Order No. and date	Name of work	Value of Work Order	Value of Actual work done	Date of completion as per Work Order	Date of actual completion of delivery	Remarks indicating reasons for late completion, if any	Name of Contact person along with Telephone No., FAX No. and e-mail address

**Note: Copy of Work Order and work completion certificate issued by the client to be enclosed for reference.**

Signature and Seal of the manufacturer/Bidder .....

Place :

Date :

**DEVIATION STATEMENT FORM**

**PART –I**

The following are the particulars of deviations from the requirements of the tender specifications:

<b>CLAUSE</b>	<b>DEVIATION</b>	<b>REMARKS (INCLUDING JUSTIFICATION)</b>

Place:

Date:

Signature and seal of the  
Manufacturer/Bidder

**NOTE:**

Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".



**PART – II**  
**(Refer Clause 1.25 of Tender Document)**

<b>Sr.No.</b>	<b>TENDER REQUIREMENT</b>	<b>COMPLIANCE</b>	<b>Document Submitted</b>
1	Bid is Signed	Yes / No	Yes / NA
2	EMD as specified as per NIT	Yes / No	Yes / NA
3	This is to certify that we are eligible to bid for this tender as per clause No.1.1 (As per Chapter 8 Annexure-I)	Yes / No	Yes / NA
4	Bid Validity (120 days after the date of Bid opening)	Yes / No Bid valid up to _____	Yes / NA
5	Agree to submit Performance Security 5% of Work Order Value as per Clause 2.12.1	Yes / No	Yes / NA
6	Bidder Information Form enclosed as per Chapter 8: Annexure –A	Yes / No	Yes / NA
7	Certification of non-black listing (Self Certification) as specified in (Chapter 8 Annexure-J)	Yes / No	Yes / NA
8	Performance Statement Form enclosed as per Annexure-C of Chapter 8 with reference to Chapter 5 - 3(i)	Yes / No	Yes / NA
9	Service Support details enclosed as per Annexure F of Chapter 8 with reference to Chapter 5 - 4(c) & 4(d)	Yes / No	Yes / NA
10	Copies of PAN as specified in Chapter 5- 3(ii)-(a)	Yes/No	Yes/NA
11	Copies of last three year income tax returns as specified in Chapter 5- 3(ii)-(b)	Yes/No	Yes/NA
12	Copies of GST Registration certificate as specified in Chapter 5- 3(ii)-(c)	Yes/No	Yes/NA
13	If registered with NSIC, enclose a copy of valid registration as specified in Chapter 5- 3(ii)-(d)	Yes / No	Yes / NA
14	Work completion schedule/BAR Chart as specified in Chapter 5- 3(ii)-(d)	Yes / No	Yes / NA

**SERVICE SUPPORT DETAIL FORM**

<b>Sr. No.</b>	<b>List of similar type of equipments serviced in the past 3 years</b>	<b>Address, Telephone Nos., Fax No. and e-mail address of the buyer</b>	<b>Nature of training Imparted/ service provided</b>	<b>Name and address of service provider</b>

Signature and Seal of the manufacturer/Bidder.....

Place :

Date :

**Bid Form**

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date : [insert date (as day, month and year) of Bid Submission]

Tender No. :

To : Director, IITM, Pune

We, the undersigned, declare that:

(a)	We have examined and have no reservations to the Bidding Documents, including Addenda No.: [insert the number and issuing date of each Addenda]
(b)	We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services [insert a brief description of the Goods and Related Services] as specified in Chapter 4
(c)	The total price of our Bid, excluding any discounts offered in item (d) below, is: [insert the total bid price in words and figures, indicating the various amounts and the respective currencies]
(d)	The discounts offered and the methodologies for their application are: <b>Discounts.</b> If our bid is accepted, the following discounts shall apply. [Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]
(e)	Our bid shall be valid for the period of time specified in ITB Clause 1.16, from the date fixed for the bid submission due date in accordance with ITB Clause 1.19 and it shall remain binding upon us and may be accepted at any time before the expiration of that period
(f)	If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 1.41 and GCC Clause 2.12 for the due performance of the Contract
(g)	The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(If none has been paid or is to be paid, indicate "none.")

(h)	We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
(i)	We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed : [insert signature of person whose name and capacity are shown]  
In the capacity of [insert legal capacity of person signing the Bid Submission Form]

Name : [insert complete name of person signing the Bid Submission Form]

Duly authorized to sign the bid for and on behalf of: [insert complete name of Bidder]  
Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ [insert date of signing]

**PERFORMANCE SECURITY FORM**

**MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY**

To,  
.....

WHEREAS .....  
(name and address of the supplier) (here in after called "the supplier") has undertaken, in pursuance of contract no. .... dated .....to supply (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of ..... (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the ..... day of ....., 20.....

(Signature of the authorized officer of the Bank)

.....  
Name and designation of the officer

.....  
Seal, name & address of the Bank and address of the Branch

**Note: Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Client with a covering letter to compare with the original BG for the correctness, genuineness, etc.**

**INDEMNITY BOND**

No. -----  
----

Date:-----

**1) Amalgamation/Acquisition**

In the event of M/s. -----proposes for amalgamation, acquisition or sale of its business to any other firm during this contract period, M/s.----- and proposed Buyer/Successor of the Principal Company are liable to execute, fulfill contractual obligations without any deviations. For this purpose M/s. -----/M/s.----- and proposed Buyer/Successor of the Principal Company shall indemnify itself to the Director, INDIAN INSTITUTE OF TROPICAL METEOROLOGY , Pune to fulfill the contractual obligations as per the terms of the IITM Global Tender and quotation of M/s. -----No. ----- dated-----and INDIAN INSTITUTE OF TROPICAL METEOROLOGY P.O. No.-----dated----- . The contractual obligations are supply, installation, commissioning, warranty maintenance/replacement of spares, accessories etc. as per the above mentioned Purchase Order.

**2) Joint Venture, Consortium or Association**

If the Supplier is a joint venture, consortium, or association, all the parties shall be jointly and severally liable to the IITM for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the IITM.

**3) Patent Indemnity**

The Supplier shall, subject to IITM's compliance and indemnify and hold IITM and its employees and officers harmless from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which IITM may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: (a) the installation of the Goods by the Supplier or the use of the Goods in India; and (b) the sale in any country of the products produced by the Goods.

For M/s. -----  
Principal Supplier.

For M/s. -----  
Indian Agent.

**Eligibility Certificate**

This is to certify that we are not associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Client to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids / Tender No. \_\_\_\_\_ dated \_\_\_\_\_.

Authorised Signatory

Name: \_\_\_\_\_

Designation:

\_\_\_\_\_

**Non-Black listing Self Certificate**

This is to certify that M/s. \_\_\_\_\_ has not been blacklisted by any Central / State Government Department / organization in last 3 years.

Authorised Signatory

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

## ANNEXURE - K

This is an E- Procurement event of IITM, Pune. The E-Procurement service provider is MSTC Ltd., 225C, A.J.C. Bose Road, Kolkata-700 020.

Bidders are requested to read the terms & conditions of this tender before submitting their online tenders. Bidders who do not comply with the conditions with documentary proof (wherever required) will not qualify in the Tender process for opening of Commercial bid.

### **Process of E-Tender :**

A) Registration: The process involves Bidder's registration with MSTC E- Procurement portal which is free of cost. Only after registration, the Bidder(s) can submit his/their bids electronically. Electronic Bidding for submission of Technical Bid as well as Commercial Bid will be done over the internet. The Bidder should possess Class III signing type digital certificate. Bidders have to make their own arrangement for bidding from a P.C. connected with Internet. MSTC is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature)

SPECIAL NOTE: THE TECHNICAL BID, COMMERCIAL BID HAVE TO BE SUBMITTED ON-LINE AT [www.mstcecommerce.com/eprochome/iitm](http://www.mstcecommerce.com/eprochome/iitm)

- Bidders are required to register themselves online with [www.mstcecommerce.com/eprochome/iitm/](http://www.mstcecommerce.com/eprochome/iitm/) -> Register as vendor -- Filling up details and creating own user id and password and submit the details.
- Bidders will receive a system generated mail confirming their registration in their email which has been provided during filling the registration form.

In case of any clarification, please contact IITM, Pune /MSTC, (before the scheduled time of the e- tender).

### **Contact person (IITM ):**

**A. K. Saxena**

Scientist - D

Telephone No. : 020 25904335

### **Contact person (MSTC Ltd):**

1. Jamil Akhtar,

Senior Manager - (022) 22022096 / +91-9869043055

email - [jakhtar@mstcindia.co.in](mailto:jakhtar@mstcindia.co.in)

2. Smt. Lisbeth Dias

Sr. Manager

Tel No: 022 22883501 / +91-9820158988

email: [lpadickan@mstcindia.co.in](mailto:lpadickan@mstcindia.co.in)

B) System Requirement:

System Requirements are indicated under Vendor Guide available on Login Page of Website: [www.mstcecommerce.com/eprochome/iitm](http://www.mstcecommerce.com/eprochome/iitm) Latest version of Java software to be downloaded and installed in the system. Security level should be medium To enable ALL active X controls and disable 'use pop up blocker' under Tools→Internet Options→custom level (Please run IE settings from the page [www.mstcecommerce.com](http://www.mstcecommerce.com) once). Prospective vendors are suggested to refer to "Vendor Guide" at [www.mstcecommerce.com/eprochome/iitm](http://www.mstcecommerce.com/eprochome/iitm).

- Part I Technical bid will be opened electronically on specified date and time as given in the NIT. Bidder(s) can witness electronic opening of bid.
- Part II Commercial bid will be opened electronically of only those bidder(s) whose Part-I Technical Bid is found to be acceptable by IITM, Pune. Such bidder(s) will be intimated date of opening of Part-II Commercial bid, through valid email confirmed by them.



<ul style="list-style-type: none"> <li>• All entries in the tender should be entered in online Technical &amp; Commercial Formats without any ambiguity.</li> </ul>
<p><u>C) Special Note towards Transaction fee:</u> Transaction fee is to be paid by RTGS/NEFT to MSTC Limited. Vendor required to use link "Transaction Fee Payment" for generating. The detail procedure and to generate Challan for bank account details can be checked under Vendor Guide provided on Login Page of Website : <a href="http://www.mstcecommerce.com/eprochome/iitm">www.mstcecommerce.com/eprochome/iitm</a> OR Vendor Guide Can be Downloaded from below URL: <a href="http://www.mstcecommerce.com/eprochome/Vendor-Guide-V5.pdf">http://www.mstcecommerce.com/eprochome/Vendor-Guide-V5.pdf</a></p> <ul style="list-style-type: none"> <li>• NOTE: The bidders should submit the transaction fee ON OR BEFORE THE PRESCRIBED DATE as they will be authorized for bid submission only after receipt of transaction fee by MSTC.</li> <li>• Click on Transaction Fee Payment -&gt; Select event no from the drop down box -&gt; Select NEFT/ RTGS or Online Payment. On selecting NEFT, the vendor shall generate a challan by filling up a form. The vendor shall remit the transaction fee amount as per the details printed on the challan without making change in the same. Take the printout of the challan and make the payment. There shall be auto authorization of payment. Bidder shall be receiving a system generated mail.</li> <li>• Bidders may please note that the transaction fee should be deposited by debiting the A/C of the bidder only; transaction fee deposited from or by debiting any other party's a/c will not be accepted. Transaction fee is non-refundable.</li> <li>• In case of failure to submit the payment towards Transaction fee for any reason, the Bidder, will not have the access to online E-Tender.</li> </ul>
<p><u>D) All notices, /corrigendum and correspondence to the bidder(s) shall be sent by email only during the process till finalization of tender by IITM, Pune. Hence the bidders are required to ensure that their corporate email I.D. provided is valid and updated at the stage of registration of Bidder with MSTC (i.e. Service Provider). Bidders are also requested to ensure validity of their DSC (Digital Signature Certificate).</u></p>
<p><u>E) E-Tender cannot be accessed after the due date and time mentioned in NIT.</u></p>
<p><u>F) Bidding in E-Tender:</u></p> <ul style="list-style-type: none"> <li>• Bidder(s) need to submit necessary Transaction fees to be eligible to bid online in the E-Tender. Transaction fees are non refundable.</li> <li>• The process involves Electronic Bidding for submission of Technical and Commercial Bid</li> <li>• The bidder(s) who have submitted the above fees can only submit their Technical Bid and Commercial Bid through internet in MSTC website <a href="http://www.mstcecommerce.com/eprochome/iitm/">www.mstcecommerce.com/eprochome/iitm/</a> → Vendor Login → My menu → Auction Floor Manager → live event → Selection of the live event</li> <li>• The bidder should allow to run an application namely enApple by accepting the risk and clicking on run. This exercise has to be done twice immediately after opening of Bid floor. Then they have to fill up Common terms/Commercial specification and save the same. After that clicking on the Technical bid. If this application is not run then the bidder will not be able to save/submit his Technical bid.</li> <li>• After filling the Technical Bid, bidder should click 'save' for recording their Technical bid. Once the same is done, the Commercial Bid link becomes active and the same has to be filled up and then bidder should click on "save" to record their Commercial bid. Then once both the Technical bid &amp; Commercial bid has been saved, the bidder can click on the "Final submission" button to register their bid</li> </ul>

- Bidders are instructed to use 'Attach Docs' link to upload documents in document library. Multiple documents can be uploaded. Maximum size of single document for upload is 5 MB.

G) In all cases, bidder should use their own ID and Password along with Digital Signature at the time of submission of their bid.

H) During the entire E-Tender process, the bidders will remain completely anonymous to one another and also to everybody else.

I) The E-Tender floor shall remain open from the pre-announced date & time and for as much duration as mentioned above.

J) All electronic bids submitted during the E-Tender process shall be legally binding on the bidder. Any bid will be considered as the valid bid offered by that bidder and acceptance of the same by the Buyer will form a binding contract between Buyer and the Bidder for execution of supply.

K) It is mandatory that all the bids are submitted with digital signature certificate otherwise the same will not be accepted by the system.

L) Client reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part as the case may be without assigning any reason thereof.

M) Submission of bid in the E-Tender floor by any bidder confirms his acceptance of terms & conditions for the tender.

- Unit of Measure (UOM) is indicated in the E-Tender. Rate to be quoted should be as per UOM indicated in the E-Tender floor.

- The Client has the right to cancel this E-Tender or extend the due date of receipt of bid(s) without assigning any reason thereof.

- The online tender should be submitted strictly as per the terms and conditions and procedures laid down on website [www.mstcecommerce.com/eprochome/iitm/](http://www.mstcecommerce.com/eprochome/iitm/) of MSTC Ltd.

- The bidders must upload all the documents required as per terms of NIT / Tender Document. Any other document uploaded which is not required as per the terms of the NIT / Tender Document shall not be considered. The bid will be evaluated based on the filled-in technical & commercial formats.

- The documents uploaded by bidder(s) will be scrutinized. In case any of the information furnished by the bidder is found to be false during scrutiny, appropriate punitive action / legal action can also be taken against defaulting bidders.

- Bidders are requested to read the Bidder guide and see the video in the page [www.mstcecommerce.com/eprochome/iitm/](http://www.mstcecommerce.com/eprochome/iitm/) to familiarize them with the system before bidding.

## CHAPTER 9

# **Tender Drawing and Images for the reference.**



IMAGE - I

IMAGE - I







M. PUNE  
A. PUNE

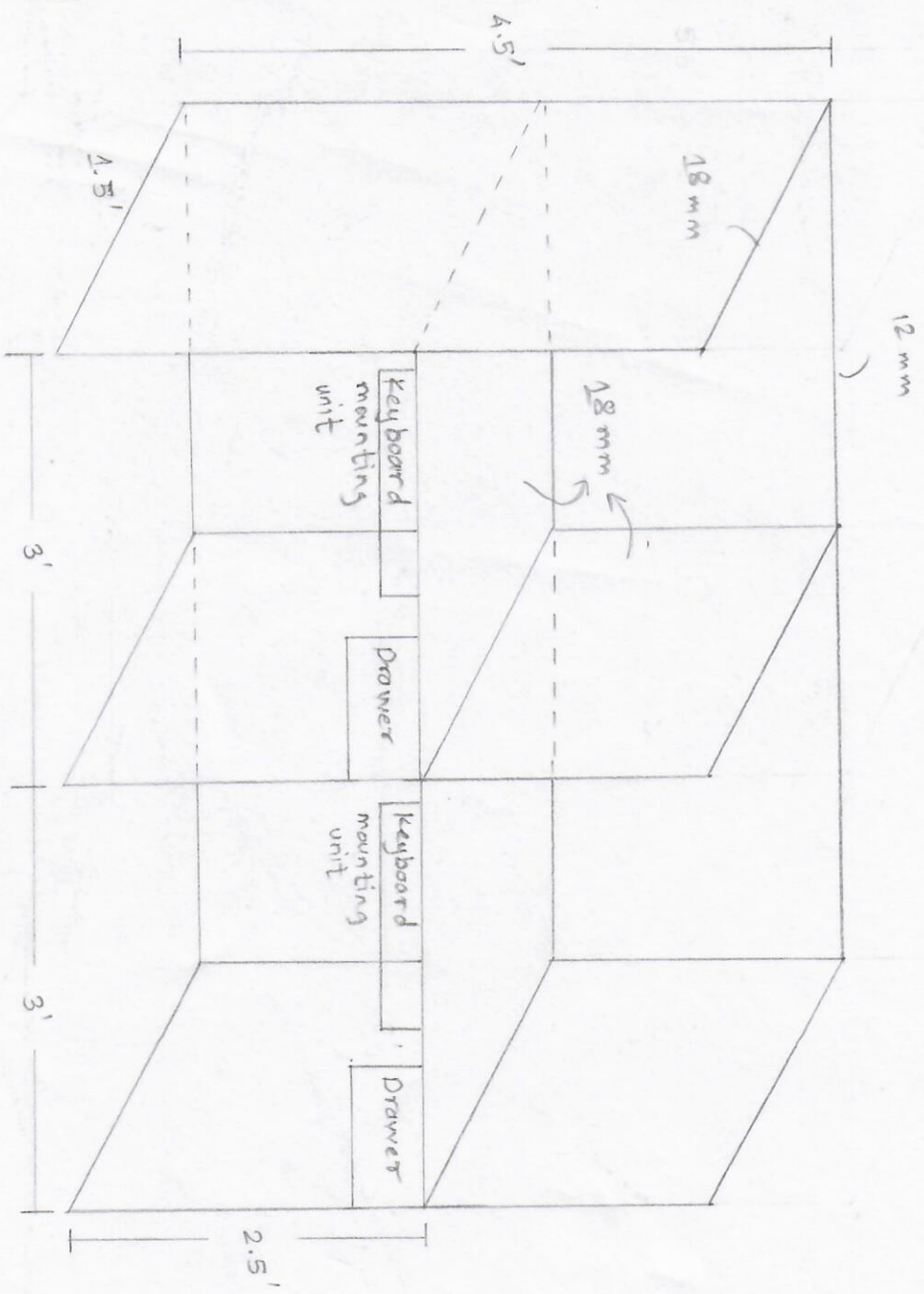
IMAGE - III





IMAGE - II

514



Drawer size - 1' x 6"  
Keyboard mounting unit - 20" x 9"

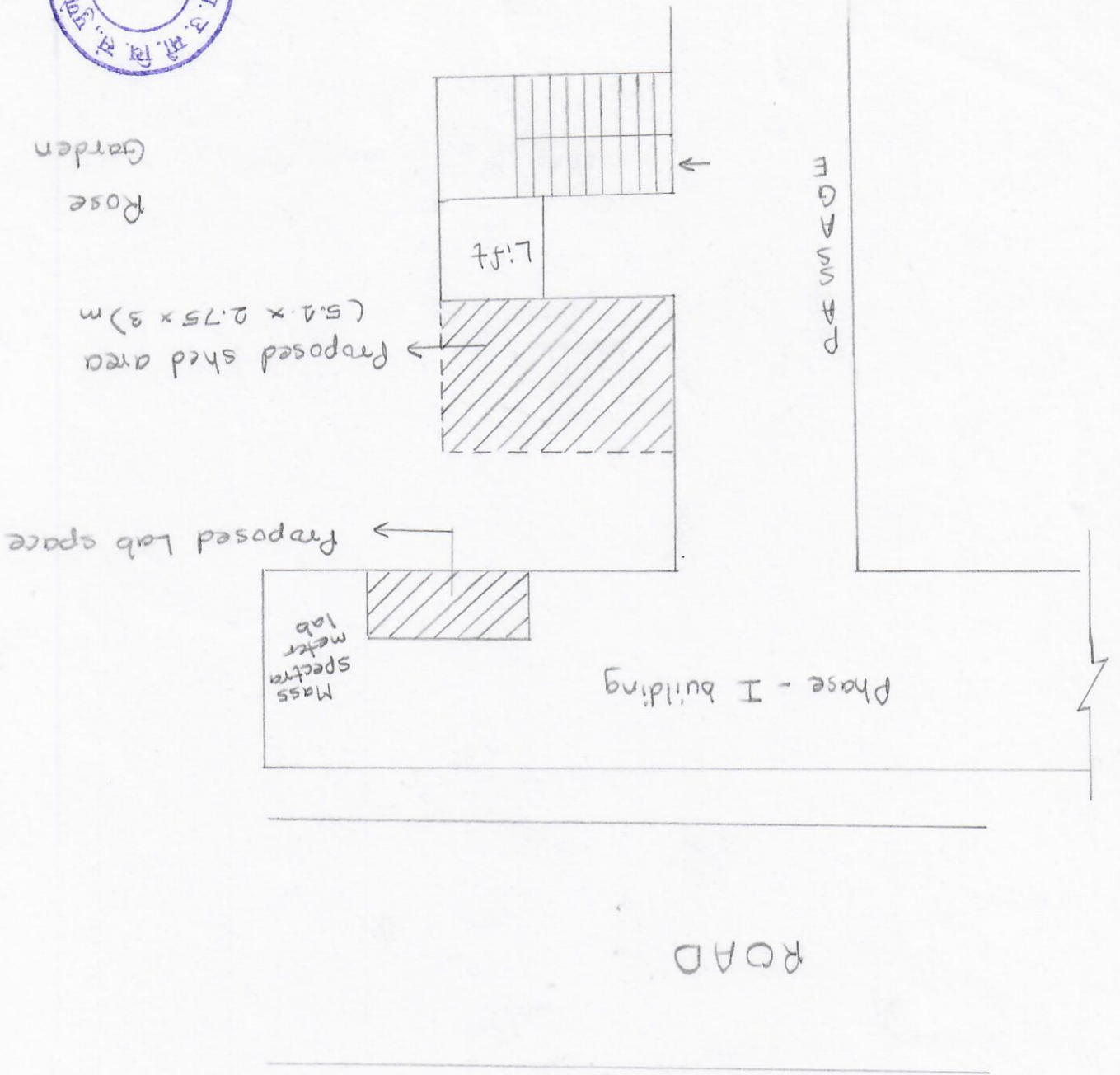
Working platform in G-113

Drawing - I



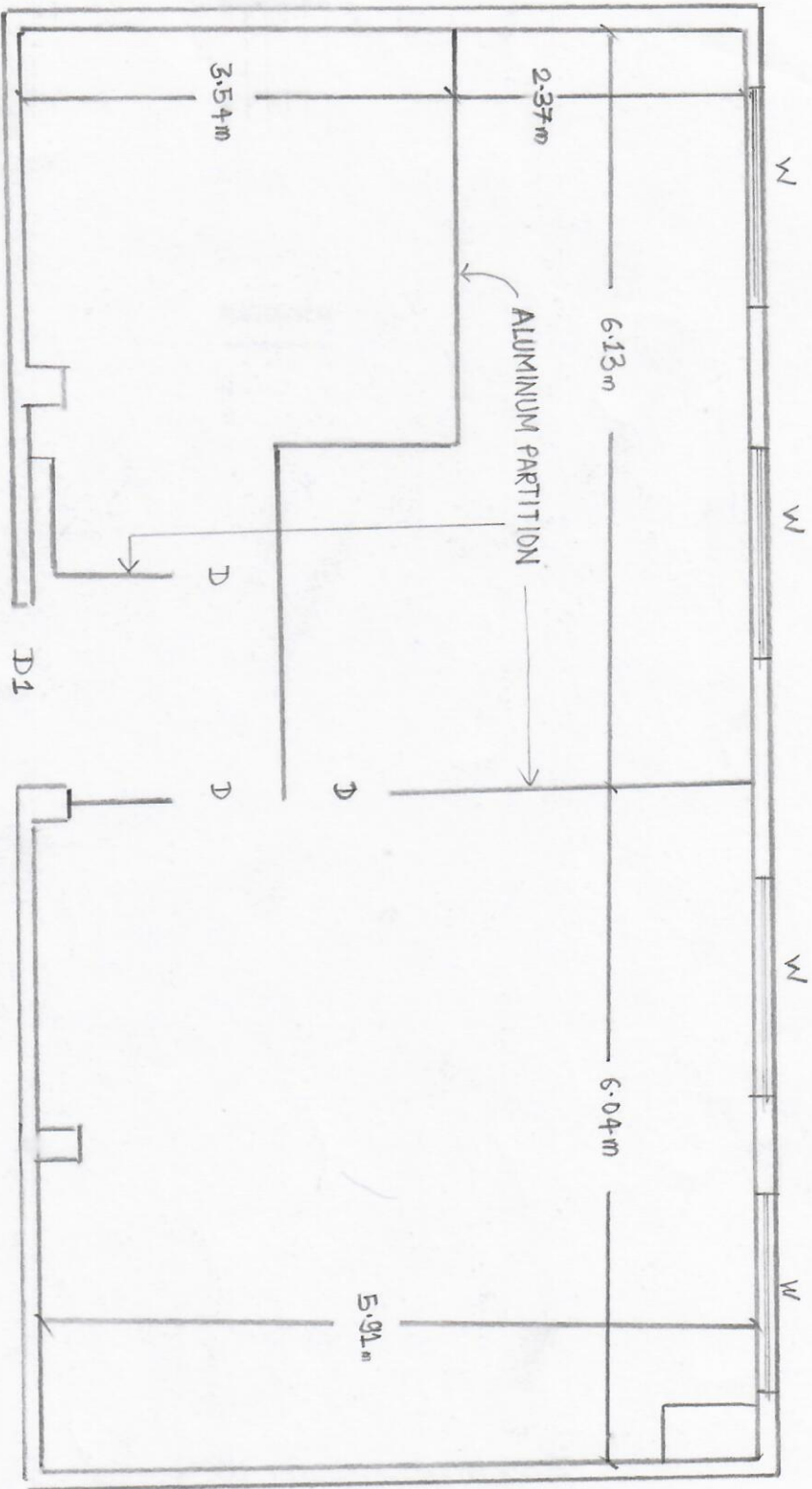


Site layout for shed portion.



LIP

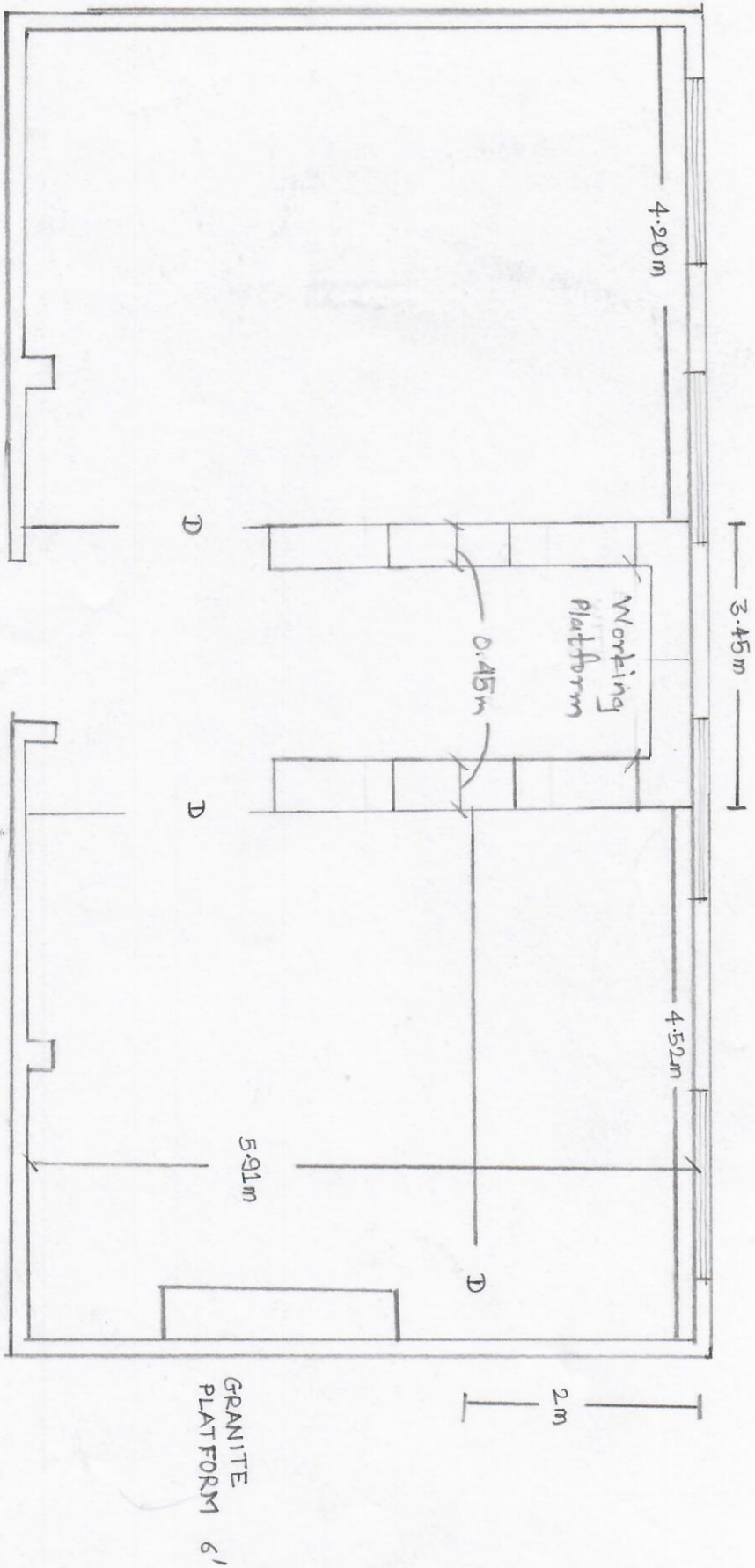




EXISTING LAYOUT G-113

- 1] ALUMINUM PARTITION TO BE REMOVED.
- 2] FALSE FLOORING TO BE REMOVED.

D - 1m x 2.13m  
D1 - 1.48m x 2m  
W - 2.2m x 1.8m



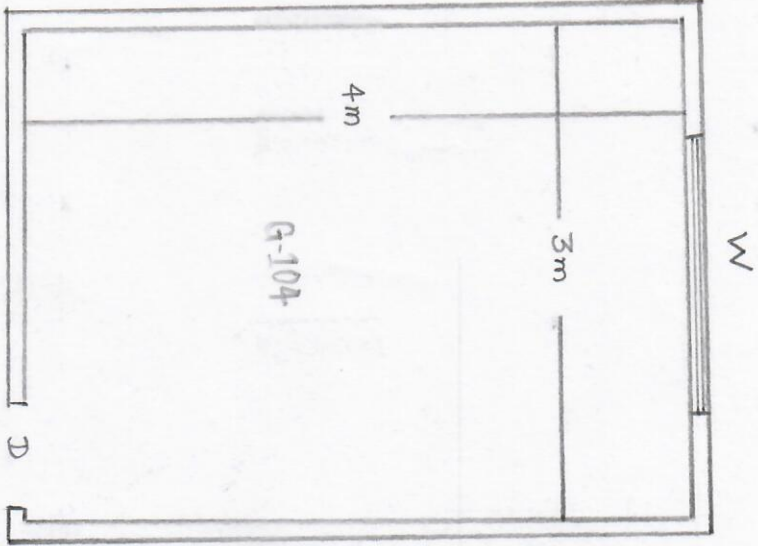
PROPOSED LAYOUT

G-113

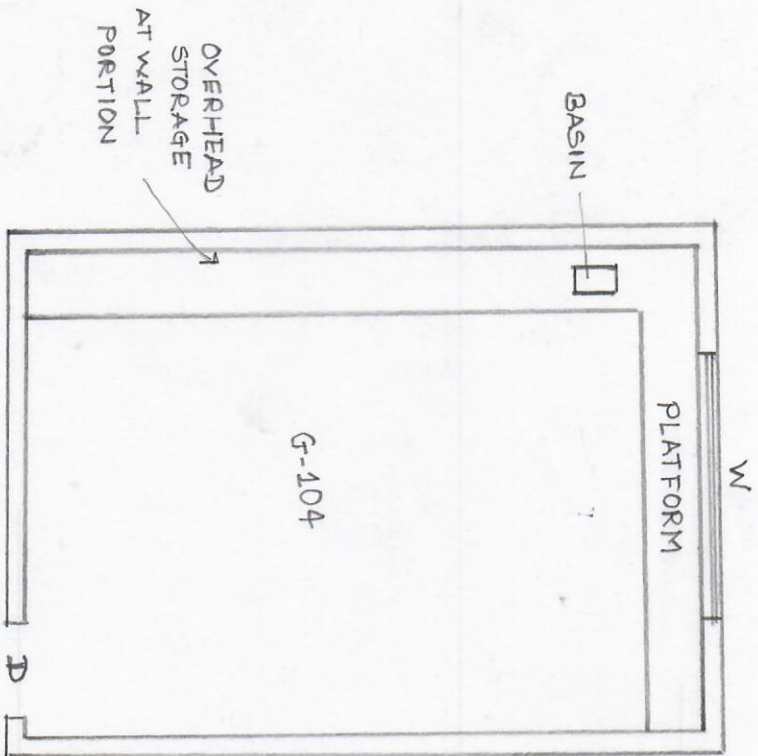
D - SLIDING DOOR OF 4'



EXISTING PLAN



PROPOSED PLAN

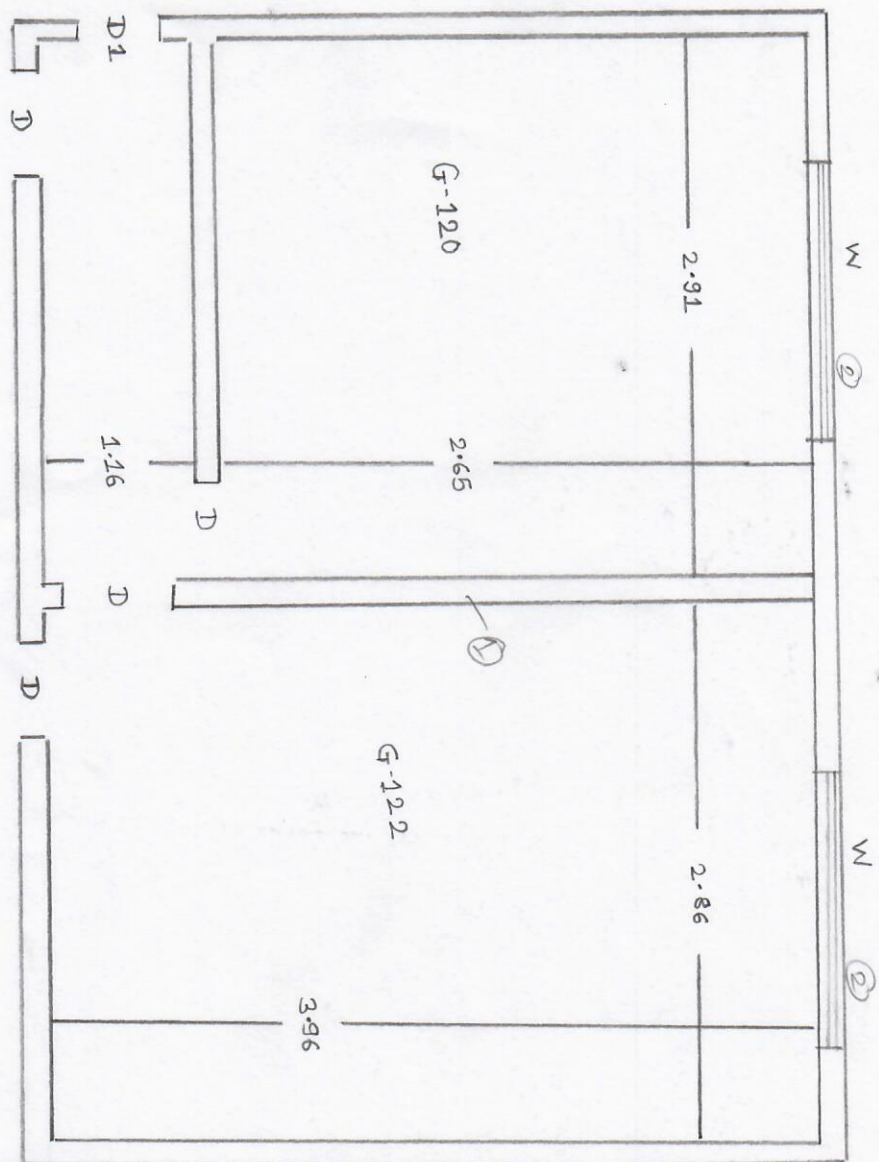


W - 2.2m x 1.8m  
D - 0.9m x 2m





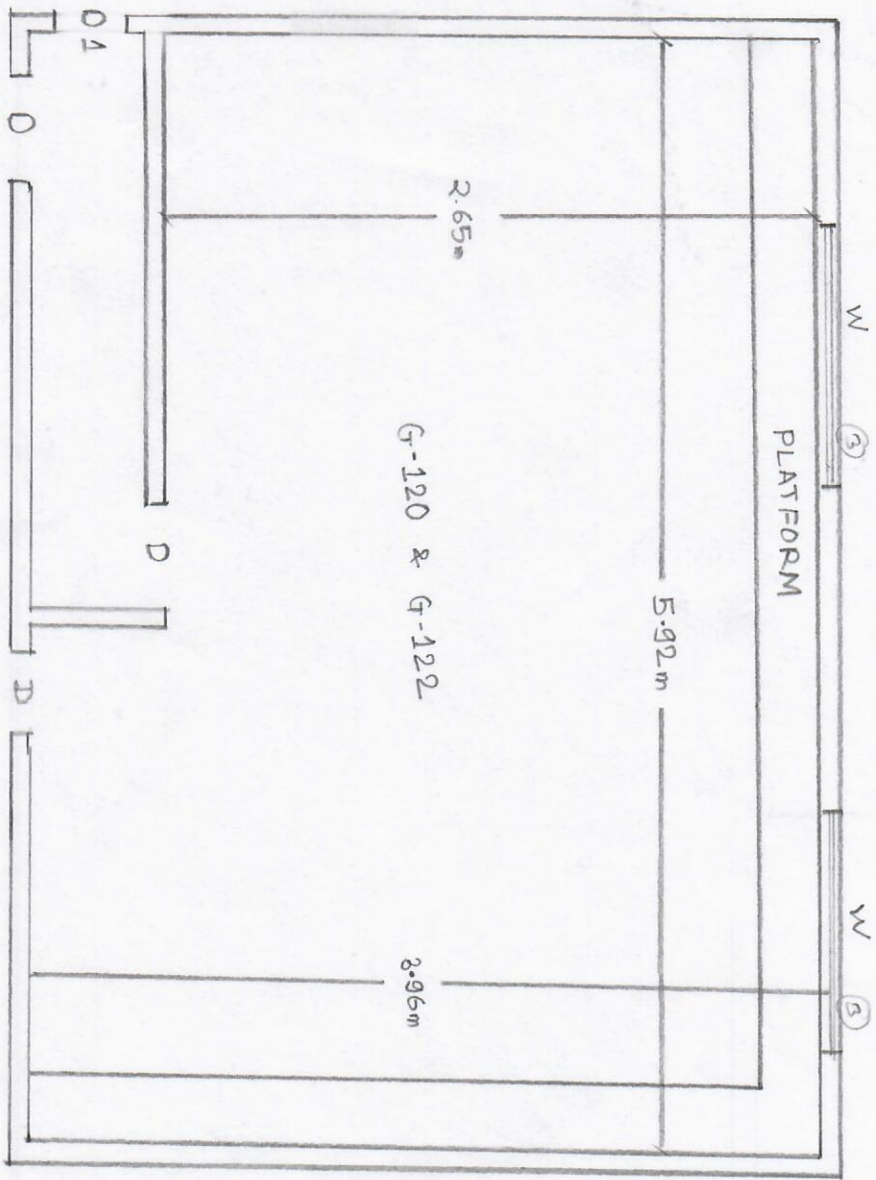
- 1] CENTRAL WALL TO BE REMOVED.
- 2] WINDOW TO BE REMOVED.



EXISTING PLAN

G-120 & 122

D-0.9m x 2m  
D1- 0.70m x 2m  
W- 2.2m x 1.8m



PROPOSED PLAN  
G-120 & 122

- 1] OVERHEAD STORAGE AT WALL PORTION
- 2] THREE WATER POINTS, MIN. 2 BASIN WITH OUTLET CONNECTION
- 3] FIXING NEW ALUMINIUM WINDOWS