



**TENDER DOCUMENT  
(e-Procurement)**

**Tender No: IISc/Tender-IDS-17-04/2022-23**

**For**

**“Supply and Installation of Office Furniture at IDR Building in IISc, Bangalore”**

**Division of Interdisciplinary Sciences  
Indian Institute of Science Bangalore – 560012**

**Website: <https://eprocure.gov.in/eprocure/app?page=Home&service=page>**

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## 1. Tender Notification

**Tender No: IISc/Tender-IDS-17-04/2022-23**

Scope of Work	<b>Supply and Installation of Office Furniture at IDR Building in IISc, Bangalore</b>
Estimated value of work	<b>Rs. 5.76 crores</b>
Period of Work Completion	3 Months
Name of the Client	Indian Institute of Science, Bangalore
Address of the Client	The Registrar Indian Institute of Science Bangalore - 560 012 Tel No. 080-2293 3688
Tender Fee	As per e-procurement portal
Submission of Tender Document	e-procurement portal- <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> Helpline no: 0120-4001005
Earnest Money to be deposited with the tender	<b>Rs. 8,64,000</b>
Last date and Time for submission of tender	9 <sup>th</sup> May 2023 4:00 PM
Date and Time of opening of Tender (Technical Bid)	10 <sup>th</sup> May 2023 4:00 PM
Pre-Bid Meeting	26 <sup>th</sup> April 4:00 to 5:00 PM – MS teams app  Request to be sent to email - <a href="mailto:dr.purchase@iisc.ac.in">dr.purchase@iisc.ac.in</a>
Date and Time of opening of Tender (Financial Bid)	Shall be intimated to technically qualified bidders through CPP portal.

## 2. Notice Inviting Tender

The Registrar, Indian Institute of Science invites tenders from eligible Bidders, for **Supply and Installation of Office Furniture at IDR Building in IISc, Bangalore.**

Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of India or any State Government of Union of India. (Authorized signatory should provide an undertaking). Tenders from joint ventures are not acceptable.

- 2.1 All Bidders shall provide the required information accurately and enough as per details in Section 4: Eligibility Criteria
- 2.2 The Tenderer shall submit the valid certificate copies of the documents as mentioned in the Chapter-4 (Eligibility criteria) in technical bid, **failing which the tender will be rejected.** If necessary, bidder shall produce all the original documents for verification.
- 2.3 The work shall be carried out as per the directions of the Project Manager identified by the purchase committee, IISc.
- 2.4 Blacklisted contractors in State / Central Govt. Departments / Autonomous bodies / Institutions are not eligible to quote, if found such tenders will be rejected. The contractors who are penalized due to delay in completion of the previous works will be rejected.
- 2.5 The successful Bidder shall execute an Agreement within 10 days from the date of receipt of intimation from this office. The Tender Document will form the part and parcel of the agreement, failing which the tender will deem to be get cancelled.
- 2.6 The material shall be approved by the Purchase Committee, IISc before execution of the work.
- 2.7 Further details of the work can be obtained from the purchase committee.
- 2.8 The rates quoted should reflect all taxes. The bid evaluation will be done inclusive of all Taxes / Cess. / Royalty etc. The statutory levies as per Govt. guidelines will be deducted. The IISc reserves the right to accept / reject any or all the tenders without assigning any reasons.
- 2.9 The work shall be commenced with all men and machinery within 30 days from the date of purchase order, failing which it would be presumed that the successful tenderer is not interested in the work and action will be taken to get the work executed through alternate agency at the risk and cost of the former Tenderer.
- 2.10 Conditional tenders will not be accepted and is liable for rejection.
- 2.11 Bidders who meet the above specified minimum qualifying criteria, shall be eligible.
- 2.12 Even though the Bidders meet the above criteria, they are subject to be disqualified if they have:
  - Made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
  - Record of poor performance such as abandoning the works, not properly completed the contract, inordinate delays in completion, litigation history, or financial failures etc.
- 2.13 **Site visit:**

The Bidder at his own responsibility is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the

Tender and entering into a contract for the project. The cost of visiting the Site shall be at the Bidder's own expense.

#### 2.14 **Tender document**

The Tender document can be downloaded from e-procurement website: <https://eprocure.gov.in/eprocure/app>. It may be noted that all subsequent notifications, changes and amendments on the project/document would be posted only on the same website. The bidders are advised to visit e-procurement portal and get familiarized with the procedure for submission of the tenders.

#### 2.15 **Content of Tender documents**

The bidders should go through the Tender Document and submit online response through e-procurement portal only.

#### 2.16 **Amendment of Tender documents**

Before the deadline for submission of tenders, the IISc may modify the tender documents by issuing corrigendum / addendum.

Such corrigendum/ addendum thus issued shall be part of the tender documents and shall be published online at e-Procurement portal.

To give prospective Bidders reasonable time in which to take corrigendum/ addendum into account in preparing.

#### 2.17 **Documents comprising the Tender**

**The Technical Bid** submitted by the Bidder shall contain the documents in a sealed envelope as follows:

- a) Earnest Money Deposit paid in the specified form as mentioned in the e- Procurement platform.
- b) b) Qualification Information as per formats to comply the task created in the e-Procurement Portal under General Terms and Conditions and Technical parameters and Documents required from Bidder.
- c) Any other documents / materials required to be completed and submitted by Bidders in accordance with these instructions. The required documents shall be filled in without exception.

**The bidder shall submit the hard copies of the documents / credentials which were uploaded in the tender portal. The tender documents shall reach the designated office within 3 days of the tender opening through CPP portal.**

**The hardcopies should be sent to the following address:**

Deputy Registrar, Purchase Section,  
Indian Institute of Science,  
Bengaluru, India - 560012

**The Financial bid shall be submitted by the bidder through e-procurement portal only and no hard copy of financial bid should be attached or disclosed.**

The contract shall be for category of works / whole works based on the priced Bill of Quantities submitted by the Bidder.

All prevailing duties, taxes, and other levies like CESS/Royalty payable by the contractor under the contract, or for any other cause, shall be included in the rates, prices and total Tender Price submitted by the Bidder.

## **2.18 Tender validity**

Tenders shall remain valid for a period not less than **180 days** after the deadline date for tender submission. A tender valid for a shorter period shall be rejected by the IISc as non-responsive.

In exceptional circumstances, prior to expiry of the original time limit, IISc may request that the Bidders may extend the period of validity for a specified additional period. The request and the Bidders' responses shall be made in writing or by email (dr.purchase@iisc.ac.in). A Bidder may refuse the request without forfeiting his earnest money deposit. A Bidder agreeing to the request will not be required or permitted to modify his tender but will be required to extend the validity of his earnest money deposit for a period of the extension, and in compliance with Clause 2.18 and 2.22 in all respects.

## **2.19 Earnest money deposit:**

The Bidder shall furnish, as part of his tender, earnest money deposit (EMD). The Bidder has to pay the Earnest Money Deposit (EMD) in the form of Demand draft drawn on "The Registrar, IISc" payable at "Bangalore".

The bidder has to scan the demand draft and submit it with Technical Bid Documents for our reference. The original DDs has to be submitted along with the hard copies of all the documents in a sealed cover as a pre-qualification bid (Technical bid) which were uploaded through e-procurement portal.

The EMD amount and tender fee will have to be submitted by the bidder taking into account the following conditions:

- a) The entire amount must be paid in a single transaction.
- b) The earnest money deposit of unsuccessful Bidders will be returned after awarding the contract to the successful bidder.

The earnest money deposit may be forfeited:

- a) If the Bidder withdraws the tender after tender opening during the period of tender validity,
- b) If the Bidder fails within the specified time limit to
  - i) Sign the Agreement; or
  - ii) Furnish the required Security deposit

## **2.20 Provisions for Micro, Small and Medium Enterprises (MSME):**

The MSME registered bidder should upload the registration certificate in the CPP portal along with the technical bid documents. The MSME registration to specify manufacturing / service of the tender item (s).

Policy is meant for procurement of only goods produced and services rendered by MSMEs. However, traders are excluded from the purview of Public Procurement Policy. The bidder must mention clearly if they are the manufacturer or a trader.

Participating Micro and Small Enterprises quoting price within price band of L1+15%, will qualify to supply a portion of requirement by bringing down price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprises.

### **2.21 Format and signing of Tender**

Successful Bidder shall sign all the pages of the tender document as a token of acceptance of all the terms and conditions of the contract.

### **2.22 Submission of Tenders**

Tenders must be submitted on-line in the e-Procurement portal by the Bidder before the notified date and time.

### **2.23 Deadline for submission of the Tenders**

The Bidder shall submit a set of hard copies of all the documents in a sealed cover to IISc required as a pre-qualification bid (Technical bid) which were uploaded through e-procurement portal. In the event of any discrepancy between them, the original uploaded document in e-procurement shall govern.

IISc may extend the deadline for submission of tenders by issuing an amendment, in which case all rights and obligations of the IISc and the Bidders previously subject to the original deadline will then be subject to the new deadline.

### **2.24 Late Tenders**

In e-procurement system, Bidder shall not be able to submit the bid after the bid submission time and date as the icon or the task in the e-procurement portal will not be available. IISc will not be liable (or) responsible for any delay due to unavailability of the portal and the Internet link.

### **2.25 Modification and Withdrawal of Tenders**

Bidder has all the time to modify and correct or upload any relevant document in the portal till last date and time for Bid submission, as published in the e-procurement portal.

The Bidder may modify or withdraw his tender before the notified last date and time of tender submission. No Tender may be modified after the deadline for submission of Tenders.

Withdrawal or modification of a Tender between the deadline for submission of Tenders and the expiration of the original period of Tender validity specified in Clause 2.21 above may result in the forfeiture of the earnest money deposit.

### **2.26 Tender Opening:**

The IISc will open all the Tenders received thro' online mode, in the presence of the Bidders or their representatives who choose to attend on the specified date, time and place specified. In the event of the specified date of Tender opening being declared a holiday for the IISc. The Tenders will be opened at the appointed time and location on the next working day.

The IISc will evaluate and determine whether each tender meets the minimum qualification eligibility criteria.

Bidder to submit all the Original Documents, which are submitted in e-procurement portal, to the IISc for verification at the time of opening of Tender. The IISc will record the Tender opening.

### **2.27 Process to be confidential**

Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced.

### **2.28 Clarification of Tenders**

To assist in the examination, evaluation, IISc may, at his discretion, ask any Bidder for clarification of his Tender. The request for clarification and the response shall be in writing or by e-mail along with the section number, page number and subject of clarification, but no change in the price or substance of the Tender shall be sought, offered, or permitted.

Subject to clause 2.31, no Bidder shall contact IISc on any matter relating to its Tender from the time of the Tender opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the IISc, he/she should do so in writing.

Any effort by the Bidder to influence the IISc in the Tender evaluation, or contract award decisions may result in the rejection of the Bidders' Tender.

#### **2.29 Examination of Tenders and determination of responsiveness**

Prior to the detailed evaluation of Tenders, IISc will determine whether each Tender (a) meets the eligibility criteria (b) is accompanied by the required earnest money deposit and; (c) is substantially responsive to the requirements of the Tender documents.

A substantially responsive Tender is one which conforms to all the terms, conditions, and specifications of the Tender documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the works; (b) which limits in any substantial way, inconsistent with the Tender documents, the IISc's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Tenders.

If a Tender is not substantially responsive, it will be rejected by the IISc., and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

#### **2.30 Correction of errors**

No corrections to the submitted bid is permitted by the portal. Tenders determined to be substantially responsive will be checked by IISc.

#### **2.31 Evaluation and comparison of Tenders**

Opening of the Financial bid will be preceded by the evaluation of the Pre-qualification Offer (Technical bid), vis-a-vis the capability, capacity and credibility of the Bidder. Evaluation of the Prequalification Offer will be done by the Evaluation Committee constituted for the purpose. After evaluation is completed, all the Bidders who are qualified will be notified and will be intimated at the time of opening of the Financial bid. Financial bid will be opened in the presence of those who choose to be present or even in the absence of any Bidder.

The IISc will evaluate and compare the Tenders as per comparative statement downloaded from e-procurement portal.

In evaluating the Tenders, the IISc. will determine for each Tender the evaluated Tender Price by adjusting the Tender Price as follows:

- a) Making any correction for errors and
- b) Making appropriate adjustments to reflect discounts or other price modifications offered

The IISc reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the Tender documents or otherwise result in unsolicited benefits for the IISc shall not be taken into account in Tender evaluation.



### **2.32 Negotiations**

The Bidder though technically qualified and whose financial offer is the lowest, fails to convince the Tender Evaluation Committee of his capability, capacity, credibility, his offer may be reviewed, and the Bidder intimated accordingly.

### **2.33 Award criteria**

Subject to Clause 2.36, the IISc will award the Contract to the Bidder whose Tender has been determined to be substantially responsive to the Tender documents and who has offered the lowest evaluated Tender Price. After technical evaluation the technically qualified bidders will be considered for opening of the financial bids provided that such Bidder has been determined to be eligible in accordance with the provisions of this tender document and subsequent technical clarifications offered by the responsive bidders.

### **2.34 Right to accept any Tender and to reject any or all Tenders**

Notwithstanding Clause 2.35, the IISc reserves the right to accept or reject any Tender, and to cancel the Tender process and reject all Tenders, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the IISc's action.

### **2.35 Notification of award and signing of Agreement**

The Bidder whose Tender has been accepted will be notified of the award by the IISc, prior to expiration of the Tender validity period by e-mail or confirmed by letter. This letter (hereinafter and in the Conditions of Contract called the "Letter of Acceptance") will state the sum that the IISc, will pay the Contractor in consideration of the execution, completion, and maintenance of the works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of clause 2.39.

The Agreement will incorporate all agreements between the IISc and the successful Bidder /Bidders. It will be kept ready for signature of the successful Bidder in the office of IISc. Following the notification of award along with the Letter of intent. The successful Bidder will sign the Agreement and deliver it to the IISc.

Upon the furnishing by the successful Bidder of the Security deposit, the IISc will issue formal purchase order.

The successful bidder is required to sign an agreement for the due fulfilment of the contract and start the work immediately on of the acceptance of his tender. A draft of the Articles of the Agreement is enclosed. The Earnest Money will be forfeited and at the absolute disposal of the Employer if the Contractor defaults from signing the Agreement of in starting the work.

### **2.36 Further Security deposit (FSD)**

Further percentage on the running bills and final bill in addition to Earnest Money Deposit shall be levied from the contractor. When the FSD deducted from R.A Bills of the contractor @ 1.5% of the bill amount exceeds Rs.1.00 Lakh, the amount in excess of Rs. 1.00 Lakh may, at the request of the bidder, be released to him against the production of the bank guarantee issued from a Scheduled Commercial Bank only for an equal amount in the prescribed form. The bank guarantee should be valid till the completion of the defect liability period.

If the security deposit is provided by the successful bidder in the form of a Bank Guarantee, it shall be issued by a Scheduled Commercial bank.

Failure of the successful Bidder to comply with the requirements of clause 2.38 shall

constitute sufficient grounds for cancellation of the award and forfeiture of the earnest money deposit.

### **2.37 Corrupt or Fraudulent practices**

The IISc requires that the Bidders observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, IISc.

- a) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
- b) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a IISc contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a IISc contract.

### **2.38 Payment Terms**

- a. First 80% against the supply of material.
  - All material (completed furniture) must be supplied within 55 days of the generation of Purchase Order (PO).
  - If the material is not supplied within 55 days, the bidder must provide a written explanation of the causes for delay.
  - The purchase committee may provide a 10 day extension for delivery of all material after review of the explanation and if they are satisfied with the reasoning
  - Further delays beyond the 10-day extension (a total of 65 days from the generation of PO) will result in a penalty fee, which will be 1% of tender value for every week of delay. That is, if there is one week of delay (delivery after 65 days but before 72 days) then the 1% of the tender value will be charged as penalty.
- b. Next, 10% after installation of all material and furniture
- c. And 10% after any testing and commissioning that may be required.
- d. It may be noted that payment from IISc may take up to 1 month after provision of appropriate invoice (such as for supply of material)

2.39 Work done as a sub- contractor under a prime contractor will not be considered for qualification. "Prime Contractor" means a firm that performs a construction work itself and that the work is directly entrusted to the firm by the owner/ government/ local body/ quasi government/ Government undertaking bodies.

### 3 Declaration of Tenderer

**Name of Work: Supply and Installation of Office Furniture at IDR Building in IISc, Bangalore.**

- 3.1 I/We, declare that specifications, plans, designs and conditions of contract on which the rates have been quoted are completely studied by me/us before submitting this tender.
- 3.2 I/We declare that I/We have inspected the work spot and have made myself/ourselves thoroughly conversant and satisfied as regards the field conditions prevalent there, regarding the materials, labour and the particulars of various leads with which the materials required to be brought for the work.
- 3.3 I/We, declare that the rates quoted for items of works for which now tenders are called for are inclusive of leads with which I/We propose to bring the materials. I/We will not have any claims for higher leads, and my/our quoted rates are with all leads and lifts etc.,
- 3.4 I/We, declare that the rates tendered by me/us for this work have not been witnessed by any other contractor/s who has/have tendered for this work.
- 3.5 I/We, declare that I/We, have understood all the conditions mentioned above and also the specifications stipulated in tender condition either by going through myself/ourselves or by getting translated into my/our own mother tongue.

## 4 Eligibility Criteria

### Technical Criteria:

- 4.1 The bidder should have satisfactorily completed as a Prime contractor during the last seven years, ending March 2022 in any State / Central Govt. Departments /PSU/ Central PSUs/ Autonomous bodies / Institutions –
- a) Three similar works each costing not less than 1 crores or completed two similar works each costing not less than 2 crores or completed one similar work costing not less than 4 crores.
  - b) Work completion certificate for having completed work of similar nature of contract certified from the competent authority not below the rank of Executive Engineer or equivalent shall be uploaded. The work completion certificate shall mention the nature of work, items of work executed, the agreement number & date, the value of work, the date of commencement, the stipulated date of completion, the actual date of completion of the work and reason for delay (if any).

### Financial Criteria:

- 4.2 The bidder should have registered for a minimum period of Five years. Proof of registration must be provided.
- 4.3 The average annual financial gross turnover should be 2 crores or above in that last three years.
- 4.4 The minimum annual financial turnover for the two consecutive years should be 2 crores or above.
- 4.5 The bidder should have not incurred any loss in more than two years.
- 4.6 The average net worth of the bidder as of **2021-22** should be not less than 4 crores. Necessary certificate by the Chartered Accountant shall be submitted.
- 4.7 The bidder should have not been blacklisted by any State / Central Govt. Departments / Autonomous bodies / Institutions. A self-declaration of the same should be provided on the company letterhead.
- 4.8 The bidder should provide a self-declaration on their company letter-head stating that they understand the payment terms set in section 2.8 (above) and agree with the payment terms as well as the penalty clauses.
- 4.9 The bidding capacity of the bidder should be 2 crores or more.

The bidder should possess the bidding capacity as calculated by the following formula.

Available bid capacity =  $A \times M \times N - B$ , where

A = Maximum value of engineering (Civil/ Electrical/ Mechanical as relevant to work being procured) works executed in any one year during the last five years (updated at the current price level), taking into account the completed as well as works in progress.

M = Multiplier Factor (usually 1.5)

N = Number of years prescribed for completion of the work in question.

B = Value (updated at the current price level) of the existing commitments and ongoing works to be completed in the next 'N' years.

- 4.10 Information on works for which tenders have been submitted and ongoing works as on the date of this Tender.

- (A) Existing commitments and on-going works:

Description of work	Place & State	Contract number & date	Name & address of the customer	Value of Contract in Lakhs	Stipulated period of completion	Value of work remaining to be completed in Lakhs	Anticipated date of completion
1	2	3	4	5	6	7	8

[Details to be furnished with necessary work order signed from concerned project in-charge not below the rank of Executive Engineer or Competent Authority. The Work order/Testimonials will be verified, if required]

(B) Works for which Tenders already submitted:

Description of work	Place & State	Name & address of the customer	Estimated value of work in lakhs	Stipulated period of completion	Date when decision is expected	Remark if any
1	2	3	4	5	6	7

4.11 Certificate from Chartered Accountant stating turn over for the last five years is also to be uploaded.

Sl.No	Year	Turn over amount	Profit / (Loss)	Remark
1	2017-18			
2	2018-19			
3	2019-20			
4	2020-21			
5	2021-22			

**Litigation and Arbitral Issues:**

- 4.12 Net pending litigations should not be more than 50% of bidder's net worth.
- 4.13 No consistent history of court/arbitral award decisions against the bidder for the last five years. A self-declaration of the same should be provided on company letterhead.
- 4.14 From the date of the Purchase Order generation, within 60 days the company should deliver, assemble, and install all materials. A self-declaration that bidder will comply with this item should be provided on the company letterhead.

For any queries regarding the tender , the specifications or any other items, please contact

Deputy Registrar, Purchase Section  
 Indian Institute of Science  
 Bengaluru, India - 560012

[dr.purchase@iisc.ac.in](mailto:dr.purchase@iisc.ac.in)

## 5. CONDITIONS OF CONTRACT

### Clause 1. Security Deposit

Estimated cost of the work put to tender	E.M.D. Percentage	F.S.D. Percentage
(i)	(ii)	(iii)
Rs. <b>5,76,00,0000</b>	1.5%	1.5%
Note : EMD + FSD to be limited to 3.0% of the contract value		

(a) Clause -1(a) The person/persons whose tender may be accepted (hereinafter called the contractor which expression shall unless the context otherwise requires, include his heirs, executors, administrators and assigns) shall pay Earnest Money Deposit indicated in Column (ii) of the table given below and shall permit Institute (a) to deduct FSD at the percentage mentioned in Column (iii) of the table given below of all moneys payable of work done under the Contract, at the time of making such payments to him/them and (b) to hold such deductions as further Security Deposit. The EMD + FSD will be limited to 3% of the contract value.

E.M.D - Earnest Money Deposit

F.S.D - Further Security Deposit

No Interest will be paid on EMD / Further Security deposit.

### Additional or Reduction in Security Deposit

The EMD for the tendered work and additional amount of Security Deposit at the rates mentioned in Sub-clause 1(a) above should be, paid by the contractor. The Purchase Committee may allow if a portion of the work is withdrawn from the Contractor under the provisions of Clause 12(a) a proportionate reduction in the amount of security Deposit.

EMD paid along with the tender shall be refunded only after the completion of the defect liability period without any interest.

1% labour cess towards workers Welfare Fund on the works expenditure will be recovered from RA bills for depositing the same to the welfare board as per Karnataka Govt. Order. Rates quoted should be inclusive of cess.

However, if the Contractor desires, agency may furnish a BG issued by a Scheduled Commercial Bank in favour of the Registrar, Indian Institute of Science, payable at Bangalore amounting to 3% of the total contract value valid up to completion of defect liability period in which case EMD deposited by them will be refunded and no recoveries towards security deposit will be effected in the running account bills.

Dues to Institute, to be set off against Security Deposit.

All compensation or other sums of money payable by the Contractor to Institute under the terms of this contract may be realized or deducted from any Security Deposit payable to him or from any sums which may be due or may become due by Institute to the Contractor on any account whatsoever and in the event of his security deposit being reduced by reason of any such realization or deduction as aforesaid, the Contractor shall, within ten days thereafter, make good in cash any sum or sums which have been deducted from his security deposit or any part thereof. Otherwise, the amount will be treated as outstanding due from the agency.

Refund of Security Deposit (EMD & FSD):

EMD paid by the contractor at the time of tendering and FSD deducted from the R.A bills at the

prescribed rates shall be refunded to the contractor immediately after the virtual completion of the work against production of bank guarantee for an equal amount from any of a Scheduled commercial Bank valid for a period as mentioned in clause (ii) below.

The bank guarantee received as stipulated in (i) above, will be treated as performance guarantee and shall be returned to the contractor after the final bill is paid or after twelve months including monsoon period from the date of virtual completion of the work during which period the work should be maintained by the contractor in good order, whichever is later. The validity of the bank guarantee shall be maintained for the above period.

iii) In case of BG's furnished towards security deposit same shall be returned after completion of the defect liability period.

## Clause 2. PENALTY FOR DELAY

### Written Order to Commence Work

After acceptance of the tender, the Purchase Committee shall issue a written order to the successful tenderer to commence the work (Purchase Order). The Contractor shall enter upon or commence any portion of work only with the written authority and instructions of the Purchase Committee. Without such instructions the Contractor shall have no claim to demand for measurements of or payment for, work done by him.

### Programme of work

The time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor. It shall be reckoned from the date of handing over the site to the Contractor not less than 75 percent of work site area comprising a continuous block. The work shall throughout the stipulated period of the contract be proceeded with, all due diligence (time being deemed to be the essence of the contract on the part of the Contractor). To ensure good progress during the execution of the work, the contractor shall be bound (in all cases in which the time allowed for any work exceeds one month) to comply with the time schedule according to the programme of execution of the work as agreed upon and enclosed by the contractor during execution of agreement.

### Review of progress and responsibility for delay etc.,

The Purchase Committee or its authorised representatives shall review the progress of all works with the contractor at least once every month. Such a review shall take into account the programme fixed for the previous week, obligations on the part of the Institute for issue of drawings etc, and also the obligations on the part of the Contractor. The review shall also examine the accumulated delays by the contractor if any and mitigation measures proposed by the contractor to overcome the delay.

### Apportioning of responsibility for delay between Contractor and Institute.

In case the progress achieved falls short by more than 25 percent of the cumulative programme, the reasons for such shortfall shall be examined and a record made thereof apportioning the responsibilities for the delay between the contractor and the Institute. This record should be signed in full and dated both by the Purchase Committee and the Contractor.

### Shortfall in progress made up subsequently.

To the extent the shortfall is assessed, as due to the delay on the part of the contractor, a notice shall be issued to him by the Purchase Committee to make up the shortfall. If the shortfall is not made up before the progress of the work is reviewed during the second month succeeding the month in which the shortfall was observed, the Contractor shall be liable to pay penalty as indicated in Clause "d" below.



Grant of extension of time.

If the delay is attributable to reasons beyond the control of the Contractor, requisite extension of time shall be granted by the Purchase Committee in accordance with Clause 5 after obtaining the approval of his higher authorities, wherever necessary.

Settlement of dispute regarding shortfall in progress.

In case of dispute between the Purchase Committee and Contractor regarding the responsibility for the shortfall in progress, the matter shall be referred to the Director IISc. The decision of the Director IISc shall be final and binding on the contractor and the Purchase Committee.

(d) Penalty for delay

In respect of the shortfall in progress, assessed as due to the delay on the part of contractor as per clauses above, the contractor shall be liable to pay as penalty an amount equal to one percent of the contract value of the balance work assessed according to the programme, for every week that the due quantity of work remains incomplete; provided always that the total amount of penalty to be paid under the provisions of this clause subjected to a maximum of 10 percent of the contract value of the entire work as shown in the tender, provided further that in the event of the contractor making up the shortfall in progress within the stipulated or extended time of completion, the penalty so recovered may be refunded on an application in writing by the contractor.

For further details, please refer to payment terms (section 2.8).

Note: If the Purchase Committee considers it necessary, he shall be entitled to take action as indicated in Clause 3 (d) also.

d.1 Liquidated damages

The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the Contract Data). The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.

If the Intended Completion Date is extended after liquidated damages have been paid, the Employer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment of bill.

(e) Adjustment of excess/over payments.

Excess/over payments as soon as they are discovered should be adjusted in the next running account bill of the contractor and in case the final bill has already been paid, the excess/over payment made shall be recovered from the Security Deposit of the contractor together with interest at such percentages as Institute may decide from time to time, from the date of such excess or over payment to the date of recovery.

**ACTION WHEN WHOLE OF SECURITY DEPOSIT IS FORFEITED**

Clause 3. In any case in which under any clause or clauses of this contract the contractor shall have

rendered himself liable to pay compensation and/or penalty amounting to the whole of his security deposit including the amount deducted in instalment from his bills as Further Security Deposit, the Purchase Committee on behalf of the Director, IISc shall have power to adopt any of the following courses as he may deem best suited in the interest of Institute.

(a) Forfeiture of Security Deposit

Without prejudice to Institute's right to recover any loss from the Contractor under sub-clauses (b) and (c) of Clause 3 of the Contract, to rescind the contract (of which rescission notice in writing to the contractor shall be conclusive evidence). And in that case, the security deposit of the contractor including whole or part of the lump sum deposited by him and also the amount deducted from his bills as Further Security Deposit, shall stand forfeited and be absolutely at the disposal of the Institute.

Debiting cost of labour and materials supplied.

To employ labour paid by the Institute and to supply materials to carry out the work or any part of the work, debiting the contractor with the cost of the labour and the price of the materials (as to the correctness of which cost and price the certificate of the Purchase Committee shall be final and conclusive against the contractor) and crediting him with the value of the work done; in all respects in the same manner and at the same rates as if it had been carried out by the contractor under terms of this contract, and in that case the certificate of the Purchase Committee as to the value of the work done shall be final and conclusive against the contractor.

Recovery of extra cost on unexecuted work

To measure up the work of the contractor and to take such part thereof as is remaining unexecuted out of his hands and to give it to another contractor to complete it in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor, if the whole work had been executed by him (as to the amount of which excess expenses the certificate in writing of the Purchase Committee shall be final and conclusive) shall be borne and paid by the original contractor and shall be deducted from any money due to him by Institute Otherwise the amount will be treated as outstanding due from the agency.

Action against unsatisfactory progress

If the contractor does not maintain the rate of progress as required under Clause 2 and if the progress of any particular portion of work is unsatisfactory even after taking action under Clause 2(c) and 2(d), the Purchase Committee shall be entitled to take action under Clause 3(b) or 3(c) at his discretion in order to maintain the rate of progress after giving the contractor 10 days notice in writing whereupon the contractor will have no claim for any loss sustained by him owing to such actions.

No compensation for loss sustained on advance action

In the event of any of the above courses being adopted by the Purchase Committee, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased, or procured any materials, entered into any agreements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract. And in case the contract shall be rescinded under the provision aforesaid the contractor shall not be entitled to recover or be paid any sum for any work thereof actually performed by him under his contract, unless and until the Purchase Committee shall have certified in writing the performance of such work and the amount payable in respect thereof, and he shall only be entitled to be paid the amount so certified.

Recovery of 1% of the contract value towards the labourer's welfare fund created by the Government of Karnataka will be effected in the running account bills of the contractor.

Clause 4. CONTRACTOR TO REMAIN LIABLE TO PAY COMPENSATION IF ACTION IS NOT

### TAKEN UNDER CLAUSE-3.

In any case in which any of the powers conferred upon the Purchase Committee by Clause 3 thereof shall have become exercisable and the same shall not have been exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor for which under any clause hereof he is declared liable to pay compensation or penalty amounting to the whole of his security deposit and the liability of the contractor for past and future compensation or penalty shall remain unaffected.

Power to take possession of or require removal of or sell contractor's properties.

In the event of the Purchase Committee taking action under sub-clause (a) or (c) of Clause 3, he may, if he so desires, take possession of all or any tools, plant, materials and stores, in or upon works or the site thereof or belonging to the contractor, or procured by him and intended to be used for the execution of the work or any part thereof, paying or allowing for the same in account at the contract rates; or in the case of contract rates not being applicable, at current market rates, to be certified by the Purchase Committee or its authorised representatives whose certificate thereof shall be final. In the alternative, the Purchase Committee or its authorised representatives may after giving notice in writing to the contractor or his clerk of the works, foreman or other authorised agent, require him to remove such tools, plant, materials or stores from the premises within a time to be specified in such notice; and in the event of the contractor, failing to comply with any such requisition, the Purchase Committee or its authorised representatives may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and at his risk in all respect, and the certificate of the Purchase Committee or its authorised representatives as to the expense of any such removal; and the amount of the proceeds and expense of any such sale shall be final and conclusive against the contractor.

### Clause 5. GRANT OF EXTENSION OF TIME

If the contractor shall desire an extension of the time for completion of the work, he shall apply in writing to the Purchase Committee before the expiry of the period stipulated in the tender or before the expiry of 30 days from the date on which he was hindered as aforesaid or on which the cause for asking for extension occurred, whichever is earlier and the Purchase Committee or other competent authority may if in his opinion, there are reasonable grounds for granting an extension, grant such extension as he thinks necessary or proper. The decision of such competent authority in this matter shall be final.

The time limit for completion of the work shall be extended commensurate with its increase in cost occasioned by alterations or additions and the certificate of the Purchase Committee or other competent authority as to such proportion shall be conclusive.

### Clause 6. ISSUE OF FINAL CERTIFICATE - CONDITIONS REGARDING

On completion of the work the contractor shall report in writing to the Purchase Committee the completion of the work. Then he shall be furnished with a certificate by the Purchase Committee of such completion, but no such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall have been executed, all scaffolding, surplus materials and rubbish, and shall have cleaned thoroughly all wood work, doors, windows, wall, floor or other parts of any building, in or upon which the work has been executed, or of which he may have had possession for the purpose of executing the work, nor until the works shall have been measured by the Purchase Committee or other competent authority, or where the measurements have been taken by his Project Engineer until they have received the approval of the Purchase Committee or other competent authority, the said measurements being binding and

conclusive against the contractor. If the contractor shall fail to comply with the requirements of this clause as to the removal of scaffolding, surplus materials and rubbish, and cleaning on or before the date fixed for the completion of the work the Purchase Committee or other competent authority may, at the expense of the contractor, remove such scaffolding, surplus materials and rubbish, and dispose of the same as he think fit and clean off such dirt etc., as aforesaid and contractor shall be liable to pay the amount of all expenses incurred but shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

Note: CLOSURE OF CONTRACT PENDING COMPLETION OF MINOR ITEMS.

In cases where it is not desirable to keep the building contract open for minor items, such as flooring in the bathrooms, etc., which can be carried out only after installation of sanitary work the main contract may be finalized after getting a supplementary agreement executed in the prescribed form by the same contractor for doing the residual work.

Clause 7. Contractor to submit bills in printed form

A bill shall be submitted by the contractor on or before 15th of each month for all items of work executed in the previous month as required by IISc. The Running account bills will be paid within three weeks from the date of submission of the bill in complete acceptable form after duly checked and certified by concerned Engineer, under normal circumstances.

All bills shall be prepared in the prescribed printed and electronic form in PDF format in quadruplicate and handed over to the Purchase Committee.

The charges to be made in the bills shall always be entered at the rates specified in the tender in full or in part as the case may be, in the case of any extra work ordered in pursuance of these conditions, and not mentioned or provided for in the tender, the charges in the bills shall be entered at the rates hereinafter provided for such work.

(b) Scrutiny of Bills and measurement of work

The details furnished by the Contractor in the bill will be completely scrutinized and the said work will be measured by the Purchase Committee or its authorised representatives in the presence of the Contractor or his duly authorized agent. The countersignature of the contractor or the said agent in the measurement book shall be sufficient proof to the correctness of the measurements, along with the Test certificates to be produced with the bill, which shall be binding on the contractor in all respects.

(c) One copy of the passed bill shall be given to the Contractor without any charge.

Clause 8. PAYMENT PROPORTIONATE TO WORK APPROVED AND PASSED.

No payment shall be made for any work estimated to cost rupees five thousand or less until after the whole of the work shall have been completed and certificates of completion given. But in the case of works estimated to cost more than Rs. 5,000 the contractor shall on submitting the bill and after due verification as per Clause 7(b) entitled to necessary Payment proportionate to the part of the work then approved and passed by the Purchase Committee or other competent authority whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor i.e. part payment of submitted RA bills is admissible to contractor. Any such reduced payment amount is admissible for adjustment in the successive RA Bills or Final Bill.

Payment at reduced rates

The rates for several items of works agreed to within shall be valid only when the items concerned are accepted as having been completed fully in accordance with the stipulated specifications. In cases

where the items of work are not accepted as so completed, The Purchase Committee or other competent authority may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on account bills.

Payment and associated bad/imperfect/unskillful or damaged works:

Any payment shall not preclude the Purchase Committee or other competent authority from requiring any bad, unsound imperfect or unskillful work to be removed or taken away and reconstructed or re-erected nor shall any such payment be considered as an admission for the due performance of the Contract or any part thereof in any respect or the accruing of any claim, nor shall it conclude determine or affect in any other way the powers of the Purchase Committee or other competent authority as to the final settlement and adjustment of the accounts, or otherwise or in any other way vary or affect the contract.

Submission of Final bill and its settlement

The contractor shall submit the final bill within one month from the date of actual completion of the work in all respects. His claims shall be settled within five months from the date of submission of the bill in complete acceptable form after duly checked and certified by concerned Engineer, under normal circumstances.

Disputed items

Note: The contractor shall submit a list of the disputed items within 30 days from the disallowance thereof and if he fails to do this, his claim shall be deemed to have been fully waived and absolutely extinguished.

Clause 9. Definition of Work:

The expression 'Work' or 'Works' where used in these conditions, shall unless there be something in the subject or context repugnant to such construction, be construed to mean the work or works contracted to be executed under or in virtue of the contract, whether temporary or permanent and whether original, altered, substituted or additional.

Work to be executed in accordance with specifications, drawings, orders etc.

The contractor shall execute the whole and every part of the work in the most sound and substantial and workmanlike manner, and in strict accordance with the specifications both as regards materials and workmanship. The contractor shall also conform exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Purchase Committee or other competent authority and lodged in his office and to which the contractor shall be entitled to have access at such office, or on the site of the work for the purpose of inspection during office hours. The contractor shall also be responsible for the delivery of structure in sound conditions and the execution of the work strictly in accordance with the specifications of the work.

Action where there is no specification

In the case of any class of work for which there is no such specification, then in such a case of the work shall be carried out in all respects in accordance with the instructions and requirements of the Purchase Committee or other competent authority.

Work as per Specifications and IS Codes.

The detailed specification, which forms a part of contract, accompanies the tender document. In carrying out the various items of work as described in Schedule B of the tender documents and the

additional, substituted, altered items of work, this detailed specification shall be strictly adhered to, supplemented by relevant provisions of Indian standard specifications, the code of practice; etc., The Indian standard specification, National Building Code and the code of practice to be followed shall be the latest versions of those listed in the detailed technical specifications. Any class of work, not covered by the detailed technical specifications, shall be executed in accordance with the instructions and requirements of the Purchase Committee and the relevant provisions of the Indian standard specifications.

Clause 10. Alteration in quantity of work, specifications and designs, Additional work, deletion of work

(i) The Purchase Committee shall have power to make any alternations in, omissions from additions to or substitutions for the original specification, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work. For that purpose or if for any other reason it shall in his opinion be desirable, he shall have power to order the Contractor to do and the contractor shall do any or all the following: -

Increase or decrease the quantity of any work included in the contract.

Omit any such work.

Change the character or quality or kind of any such work,

Change the levels, lines, positions and dimensions of any part of the work,

Execute additional work of any kind necessary for the completion of the works and

change in any specified sequence, methods or timing of construction of any part of the work.

Contractor bound by Purchase Committee instructions

The Contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing signed by the Purchase Committee or other competent authority and such alteration shall not in any way vitiate or invalidate the contract.

Standard Quantity Take-off (SQT)

Contractor within 14 days of Issue of LOI to submit the Project Manager & seek approval for the Standard quantity Take-off sheets for all the items mentioned in the Tender BOQ, after due referencing the Tender/ GFC drawings and the Technical Specification. Upon approval, the SQT shall remain the base document for initiating any change orders/ variation in accordance to Clause 31, tracking the daily project progress, and for the measurement sheets.

Orders for variations to be in writing

No such variations shall be made by the Contractor without an order in writing of the Purchase Committee; provided that no order in writing shall be required for increase or decrease in the quantity of any work where such increase or decrease is the result of the quantities exceeding or being less than those stated in the 'Schedule B' provided also that if for any reason the Purchase Committee shall consider it desirable to give any such order verbally, the Contractor shall comply with such order without any confirmation in writing of such verbal order given by the Purchase Committee, whether before or after the carrying out of the order, shall be deemed to be an order in writing within the meaning of the clause; provided further that if the Contractor shall within seven days confirm in writing to the Purchase Committee and if such confirmation is not contradicted in writing within fourteen days by the Purchase Committee, it shall be deemed to be an order in writing by the Purchase Committee.

a) Any additional work which the contractor may be directed to do in the manner above specified as

part of the work shall be carried out by the Contractor on same conditions in all respects on which he agreed to do the main work and same rates as are specified in the tender for the main work. However, change in the Undertaking rates tendered and accepted shall be considered in respect of items under which the quantity of work performed exceeds tendered quantity by more than 25 percent and this actual change in rate will be restricted only to such excess quantity (i.e. beyond 125 percent of the tendered quantity).

(b) Rate for excess quantity beyond 125 percent of tendered quantity

The Additional quantity which exceeds 125 percent of the tendered quantity shall be paid at the rates entered in or derived from Schedule of Rates prevalent at the time of executing additions and alterations plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates (KPWD) of the year in which the tender is accepted (as per the comparative Statement prepared at the time of acceptance of the tender).

(c) Rates for additional, substituted, altered items of work

If the additional, substituted or altered work includes any class of work for which no rate is specified in the contract, then such work shall be carried out at the rates specified for or derived from similar item of work in the agreement. In the absence of similar items in agreement, rate shall be as specified for or derived from similar items in the schedule of rates of KPWD prevalent at the time of execution of such additional substituted or altered items of works, plus or minus the overall percentage of original tendered rates over the current schedule of rates of (KPWD) the year in which tender is accepted as mentioned in sub clause (b) above. With regard to the question whether the additional, substituted or altered item/items of work/works is / are similar or not, to that/those in the agreement / in the Schedule of Rates of KPWD and the decision of the Purchase Committee shall be final and binding on the contractor.

(D) Determination of rates for items not found in Estimate or Schedule of Rates

If the rates for additional, substituted or altered work cannot be determined in the manner specified in sub clauses (b) and (c) above, then the contractor shall within 7 days of the date of receipt by him of the order to carry out the work, inform the Purchase Committee of the rates which it is his intention to charge for such class or work, supported by analysis of the rate or rates claimed. Thereupon the Purchase Committee shall determine the rate or rates on the basis of observed data and failing this, on the basis of prevailing market rates. Under no circumstances the contractor shall suspend the work on the plea of non- settlement of rates for items falling under this clause. In the event of any dispute regarding the rates for such items the decision of Purchase Committee shall be final.

Working out the data rates for non-SR/ non tendered items shall be based on the procedures laid down in the standard rate analysis format of KPWD Bangalore circle Bangalore. The data rates shall be approved by the Purchase Committee and shall be binding on the contractor.

Clause 11. TIME LIMITS UNFORSEEN CLAIMS

Under no circumstances whatever shall the contractor be entitled to any compensation from Institute on any account unless the contractor shall have submitted claim in writing to the Purchase Committee or other competent authority within 30 days of the cause of such claim occurring.

Clause 12. NO CLAIM TO ANY PAYMENT OR COMPENSATION FOR DELETION OF WHOLE OR PART OF WORK

If at any time after the execution of the contract documents, the Purchase Committee or other competent authority shall, for any reason whatsoever, require the whole or any part of the work as specified in the tender, to be stopped for any period or require the whole or part of the work (i) not to be carried out at all or (ii) not to be carried out by the tendered contractor, he shall give notice in writing of the fact to the contractor who will thereupon suspend or stop the work totally or partially as the case may be. In any such case, except as provided hereunder, the contractor shall have no claim to any payment of compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not so derive in consequence of the full amount of the work not having been carried out, or on account of any loss that he may be put on account of materials purchased or agreed to be purchased, or for unemployment of labour recruited by him. He shall not also have any claim for compensation by reason of any alterations having been made in the original specifications, drawings, designs and instructions, which may involve any curtailment of the work, as originally contemplated.

Payment for materials already purchased or ordered by contractor.

Where, however, materials have already been purchased or agreed to be purchased by the contractor before receipt by him the said notice the contractor shall be paid for such materials, at the rates determined by the Purchase Committee or other competent authority provided they are not in excess of requirements and are of approved quality, and/or shall be compensated for the loss, if any, that he may be put to, in respect of materials agreed to be purchased by him, the amount of such compensation to be determined by the Purchase Committee or other competent authority whose decision shall be final.

Labour charges during stoppage of work

If the contractor suffers any loss on account of his having to pay labour charges during the period during which the stoppage of work has been ordered under this clause, the contractor shall on application, be entitled to such compensation on account of labour charges as the Purchase Committee or other competent authority, whose decision shall be final, may consider reasonable. Provided that the contractor shall not be entitled to any compensation on account of labour charges if in the opinion of the Purchase Committee or other competent authority, the labour could have been employed in the same locality by the contractor for the whole or part of the period during which the stoppage of the work has been ordered as aforesaid.

Time limit for stoppage of work

The period of stoppage ordered by the Purchase Committee or other competent authority should not ordinarily exceed six months. Thereafter the portion of works stopped may be treated as deleted from this agreement if a notice in writing to that effect is given to the Purchase Committee or other competent authority by the contractor within seven days after the expiry of the above period.

Execution of work deleted:

The portion of work thus deleted may be got executed from the same contractor on supplemental agreement on mutually agreed rates, which shall not exceed current Schedule of Rates plus or minus tender percentage.

Clause 13. ACTION AND PENALTY IN CASE OF BAD WORK

If at any time before the security deposit is refunded to the contractor, it shall appear to the Purchase Committee or other competent authority that any work has been executed with unsound, imperfect or



unskilful workmanship or with materials of inferior quality, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for, or are otherwise not in accordance with the contract, it shall be lawful for the Purchase Committee or other competent authority to intimate this fact in writing to the contractor and then notwithstanding the fact that the work, materials or articles complained of may have been paid for, the contractor shall be bound forthwith to rectify, or remove and reconstruct the work so specified on whole or in part as the case may require, or if, so required shall remove the materials or articles at his own charge and cost and in the event of his failing to do so within a period to be specified by the Purchase Committee or the competent authority in the written intimation aforesaid, the contractor shall be liable to pay a penalty not exceeding one percent on the amount of the estimate for every day not exceeding ten days during which the failure, so continues and in the case of any such failure the Purchase Committee or other competent authority may rectify or remove, and re-execute the work or remove and replace the materials or articles complained of, as the case may be at the risk and expense in all respects of the contractor should the Purchase Committee or other competent authority for any valid reasons consider that any such inferior work or materials as described above is to be accepted or made use of, it shall be within his discretion to accept the same at such reduced rates he may fix thereof.

#### Clause 14. WORK TO BE OPEN TO INSPECTION - CONTRACTOR OR RESPONSIBLE AGENT TO BE PRESENT

(a) All works under or in course of execution or executed in pursuance of the contract shall at all time be open to the inspection and supervision of the Purchase Committee or other competent authority and his Engineer-in-charge, and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Purchase Committee or other competent authority to visit the work shall have been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing present for the purpose. Orders given to the contractor duly authorized agent shall be considered to have the same force and effect as if they had been given to the contractor himself.

(b) Employment of Minimum technical staff

The Contractor shall employ the following technical staff during execution of this work. The contractor shall employ different types of such technical personnel as may be required and sufficient for execution of work and directed by the Purchase Committee to ensure efficient execution of work.

The technical staff so employed, should be available at site whenever required by Engineer in-charge to take instructions.

If the contractor fails to employ the technical staff as aforesaid, he shall be liable to pay a sum of Rs. 25000 (Rupees Twenty thousand only) for each month of default in the case of Graduate Engineers and Rs. 15000 (Rupees Ten thousand only) for each month of default in case of Diploma Holders.

If the Contractor himself possesses the required qualification and is available at the site for receiving instructions from the Purchase Committee and other competent authority vide sub-clause (a) above it will not be necessary for the technical staff to be available at site for receiving instructions.

#### Clause 15. NOTICE TO BE GIVEN BEFORE WORK IS COVERED UP

The contractor shall give not less than five days' notice in writing before covering up or otherwise placing beyond the reach of the measurement any work in order that the same may be measured; and correct dimensions thereof taken before the same is so covered up or placed beyond the reach of measurement, and shall not cover up or place beyond the reach of measurement, and work without the

consent in writing of the Purchase Committee or other competent authority or his Project Engineer in charge of work; and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained, the same shall be uncovered at the contractor's expense, and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed.

Clause 16. CONTRACTOR LIABLE FOR DAMAGE DONE, AND FOR IMPERFECTIONS FOR TWELVE MONTHS AFTER CERTIFICATE OF COMPLETION

If the Contractor or his workmen or servants shall break, deface, injure or destroy any part of a building in which they may be working, or any building, road fence, enclosure or grassland or cultivated ground contiguous to the premises on which the work or any part thereof is being executed, or if any damage shall be done to the work, while it is in progress from any cause whatever or if any imperfections become apparent in it within Twelve months of the grant of a certificate of completion, final or otherwise, by the Purchase Committee or other competent authority the contractor shall make good the same at his own expenses, or in default the Purchase Committee or other competent authority may cause the same to be made good by other workmen, and deduct the expenses from any sums that may be due or may thereafter become due to the contractor, or from his Security Deposit or the proceeds of sale thereof, or of a sufficient portion thereof.

The Defects liability period shall be extended for as long as defects remain to be corrected. Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Institute.

Clause 17. CONTRACTOR TO SUPPLY PLANT, LADDERS, SCAFFOLDINGS, ETC., AND IS LIABLE FOR DAMAGES ARISING FROM NON-PROVISION OF LIGHT, FENCING ETC

The contractor shall supply at his own cost all materials, plant, tools, appliance, implements, ladders, scaffolding, and temporary works required for the proper execution of the work whether in the original, altered or substituted form and whether included in the specification, or other documents forming part of the contract or referred to in these conditions or not, and which may be necessary for the purpose of satisfying or complying with the requirements of the Purchase Committee or other competent authority as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore, to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works, and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or the materials. Failing this, the same may be provided by the Purchase Committee or other competent authority at the expense of the contractor and expense may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof, or of a sufficient portion thereof. The contractor shall provide necessary fencing and lights required to protect the public from accident, and shall also be bound to bear the expense of defense of every suit, action or other legal proceedings, that maybe brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and costs which may be awarded in any suit, action or proceedings to any person, or which may with the consent of the contractor be paid for compromising any claim by any such person.

Clause 18. Measures for prevention of fire

The contractor shall not set fire to any standing jungle, trees, brushwood or grass without a written permit from the Competent Authority of IISc. When such permission is given, and also in all cases

when destroying cut or dug up trees, brushwood grass, etc., by fire the contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property.

Clause 19. Liability of contractor for any damages done in or outside work Area.

Compensation for all damages done by contractor or his men whether in or beyond the limits of Institute property including any damage caused by spreading of fire mentioned in Clause 18 shall be estimated by the Competent Authority of IISc and the estimate, subject to the decision of the Director on appeal shall be final and the contractor shall be bound to pay the amount of the assessed compensation on demand failing which the same will be recovered from the contractor as the damages in the manner prescribed in clause 1(c) or deducted by the competent authority from any sums that may be due or become due from Institute to the contractor under this contract or otherwise.

The contractor shall bear the expenses of defending any action or other legal proceedings that may be brought by any person for injury sustained by him owing to neglect of precautions to prevent the spread of fire and shall pay any damages and cost that may be awarded by the court in consequence.

Clause 20. Work on Notified Holiday

No work shall be done on any notified holiday without the sanction in writing of the Purchase Committee or other competent authority.

Clause 21. WORK NOT TO BE SUBLET

(a) The contract shall not be assigned or sublet by the contractor. However, any specific portion of the work which is of a specialized nature and normally not executable by a general contractor could be got done by the specialized agencies which are executing such works, after obtaining the specific approval of the Purchase Committee in writing in each case. Such consent to sublet the work, if given, shall not relieve the contractor from any liability or obligation under the contract and he shall be responsible for the acts, defaults and neglects of any sub-contractor or his agents, servants or workmate as fully as if they were the acts, defaults or neglects of the contractor, his agents, servants or workmen.

Consequences of subletting work without approval, becoming insolvent, bribing etc., by contractor and action against the contractor.

If the contractor shall assign or sublet his contract or any portion thereof without the specific approval of the Purchase Committee or attempts to do so or become insolvent or commence any proceedings to get himself adjudicated as insolvent or make any composition with his creditors or attempts so to do or if any bribe, gratuity, or indirectly be given, promised or offered by the contractor or any of his servants or agents to any officer or person in the employ of Institute in any way relating to his office or employment or if any such officer or person in the employment or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Purchase Committee or other competent authority may thereupon by notice in writing rescind the contract and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of Institute and the same consequences shall ensure as if the contract had been rescinded under Clause 3 here of and in addition, the contractor shall not be entitled to recover or be paid for any work actually performed under contract.

Recovery of excess payments based on excess measurements and action against contractor.

Whenever it is noticed that excess payments have been made to the contractor based on excess measurements recorded in the measurement book and countersigned by the contractor or his duly

authorized agent, action shall be taken to recover the excess payments together with interest immediately. Action may also be taken to remove the name of the contractor from the approved list of contractors and also to black list him.

Change in classification of excavations accepted not permitted.

Once the measurements mentioning the classification of the excavations are recorded in the measurement book and the same is signed by the contractor or his authorized agent in token of acceptance, no request for reclassification by the contractors shall be entertained.

Criminal proceedings against IISc Officer and Contractor for the lapses.

Institute also reserve the right to initiate criminal proceedings against the concerned Institute Officers who are directly responsible for the lapse and the contractors who have colluded with the officers of the Institute in the lapse and fraudulently received amounts not due to them legitimately.

Clause 22. SUM PAYABLE BY WAY OF COMPENSATION TO BE CONSIDERED AS REASONABLE COMPENSATION WITHOUT REFERENCE TO ACTUAL LOSS.

All sums payable by a contractor by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied for the use of Institute without reference to the actual loss or damage sustained and whether any damage has or has not been sustained.

Clause 23. SETTLEMENT OF DISPUTES -TIME LIMIT FOR DECISION

If any dispute or difference of any kind whatsoever were to arise between the Purchase Committee and the contractor regarding the following matters namely,  
The meaning of the specification's designs, drawing and instructions herein before mentioned,  
The quality of workmanship or materials used on the work and  
Any other question, claim right, matter, thing whatsoever, in any way arising out of or relating to the contract, designs, drawings, specification, estimates, instructions, or orders, or those conditions, failure to execute the same whether arising during the progress of the work, or after the completion, termination or abandonment thereof, the dispute shall, be referred to the Director, IISc within a period of 15 days for settlement.

Director's decision final.

Subject to other form of settlement hereafter provided, the Director's decision in respect of every dispute or difference so referred shall be final binding upon the contractor. The said decision shall forthwith be given effect to and contractor shall proceed with the execution of the work with all due diligence.

Remedy when Director's decision is not acceptable to contractor.

In case the decision of the Director is not acceptable to the contractor, he may approach the Law Court at Bangalore for settlement of dispute after giving due written notice in this regard to the Director within a period of ninety days from the date of receipt of the written notice of the decision of the Director. Further, the Bangalore courts alone shall have the exclusive jurisdiction.

Time limit for notice to approach Court of law by contractor

If the Director has given written notice of his decision to the contractor and no written notice to

approach the law court has been communicated to him by the contractor within a period of ninety days from receipt of such notice, the said decision of Director shall be final and binding upon the contractor. Time limit for notice to approach law court by contractor when decision is not given by Director, IISc as at (b).

If the Director fails to give notice of his decision within a period of ninety days from the receipt of the contractor's request in writing for settlement of any dispute or difference as aforesaid, the Contractor may within ninety days after the expiry of the first named period of ninety days approach the Law Courts at Bangalore giving due notice to the Director.

Contractor to execute and complete work pending settlement of dispute.

Whether the claim is referred to the Director or to the Law Courts, as the case may be, the contractor shall proceed to execute and complete the works with all due diligence pending settlement of the said dispute or differences.

Obligations of the Purchase Committee and contractor shall remain unsettled during considerations of dispute.

The reference of any dispute or difference to the Director or the Law Court may proceed notwithstanding that the works shall then be or be alleged to be complete, provided always that the obligations of the Purchas Committee and the contractor shall not be altered by reason of the said dispute or difference being referred to the Director or the Law Court during the progress of the works.

#### Clause 24. CONTRACTOR TO PAY COMPENSATION UNDER WORKMEN'S COMPENSATION ACT.

The contractor shall be responsible for and shall pay any compensation to his own workmen payable under the relevant Workmen's Compensation Act for injuries caused to the workmen. If Institute pays such compensation on behalf of the contractor it shall be recoverable by Institute from the contractor under as per relevant clauses.

Contractor to pay expenses of providing medical aid to workmen.

The contractor shall be responsible for and shall pay the expenses of providing medical aid to any workman who may suffer a bodily injury as a result of an accident. If Institute incurs such expenses, the same shall be recoverable from the contractor forthwith and be deducted without prejudice to any other remedy of Institute, from any amount due or that may become due to the contractor.

#### Clause 25. CONTRACTOR TO PROVIDE PERSONAL SAFETY EQUIPMENT FIRST AID APPARATUS, TREATMENT etc.

The contractor shall provide all necessary personal safety equipment and first aid apparatus for the use of the persons employed on the site and shall maintain the same in good condition suitable for immediate use, at any time and shall comply with the following regulations in connection therewith: -

The worker will be required to use the equipment so provided by the contractor and the contractor shall take adequate steps to ensure proper use of the equipment by those concerned.

When work is carried on in proximity to any place where there is a risk of drowning; all necessary steps shall be taken for the prompt rescue of any person in danger.

Adequate provision shall be made for prompt first - aid treatment of all injuries likely to be sustained during he course of the work.

Clause 26. Minimum age of persons employed by contractor (a): No contractor shall employ Any person who is under age of 18 years.

Who does not produce a valid certificate of vaccination against epidemic diseases in respect of himself/ herself as well as all the members of his/her family.

The contractor shall provide potable water facilities to the workers. Similar amenities shall be provided to the workers engaged on large works in urban area.

Removal of persons not satisfying conditions (a) (i) & (ii)

The Purchase Committee or other competent authority is authorized to direct the removal or to remove through - his own agency, from the work any person referred to in sub-clauses (a) above not satisfying these conditions and no responsibility shall be accepted by the Institute for any delay caused in the completion of the work by such directions for removal.

Payment of fair and reasonable wages by contractor.

The contractor shall pay fair and reasonable wages, which shall not be less than the minimum wages fixed by Govt. of India from time to time to the workmen employed by him in the contract undertaken by him. In the event of any dispute arising between the contractor, and his workmen on the ground that the wages paid are not fair and reasonable the dispute shall be referred without delay to the Purchase Committee or other competent authority, who shall decide the same. The decision shall not in any way affect the conditions in the contract regarding the payment to be made by Institute at the agreed tender rates.

Clause 27. CONTRACTOR NOT ENTITLED TO ANY CLAIM OR COMPENSATION FOR DELAY IN EXECUTION OF WORK IN BORROW PITS.

The contractor shall not be entitled to claim compensation if there is any delay in the execution of the work on account of water standing in borrow pits and Compartments. The rates are inclusive for hard or cracked soil, excavation in mud, sub-soil water or water standing in borrow pits and no claim for extra rate shall be entertained, unless otherwise specified.

Clause 28. METHOD OF PAYMENT OF BILLS

Payment to contractors shall be made by RTGS by the Institute.

Clause 29. SET OFF AGAINST ANY CLAIM OF INSTITUTE

Any sum of money due and payable to the contractor (including the security deposit refundable to him) under this contract may be appropriated by the Institute and set off against any claim of Institute in respect of a payment of a sum of money arising out of or under any other contract made by the contract with the Institute.

Clause 30. RATES INCLUSIVE OF GST AND LABOUR CESS AND ROYALTY

The rates to be quoted by the contractor shall be inclusive of all taxes like GST, Labour cess, Royalty etc. No extra payment on this account will be made to the contractor. However, base value of the item and the GST has to be mentioned separately.

All quarry fees, octroi duties levied by the state or any local body or authority and ground rent, if any, charged for stacking materials should be paid by the contractor.

Clause 31. IMPORTANCE OF SAFETY

In addition to Contractor's Contractual Obligations on Safety as per the relevant clauses stated, The

Contractor shall comply with all safety standards to the satisfaction of the Employer's Representative.

In respect of all labour, directly or indirectly employed on the project for the performance and execution of the Contractor's Work under the Contract, the Contractor shall at its own expense arrange for all the safety provisions as listed in (i) Safety codes of C.P.W.D. and Bureau of Indian Standards, (ii) The Electricity Act, (iii) The Mines Act, and Regulations, Rules and Orders made there under and such other acts as applicable. Precautions as stated in the safety clause are the minimum necessary and shall not preclude the Contractor taking additional safety precautions as may be warranted for the particular type of work or situations. Also mere observance of these precautions shall not absolve the Contractor of his liability in case of loss or damage to property or injury to any person including but not limited to the Contractor's labour, the Employer's, Architect's, Employer's Representative's and Project Manager's representatives or any member of the public or resulting in the death of any of these.

The Contractor shall institute and implement to the satisfaction of the Project Manager a construction safety programme, including:

Preparing a Site-specific written safety programme consistent with the EHS Plan, Indian law and best practices. As a minimum, the programme shall require applicable safety equipment for all workers, use of barriers and barricades around potentially dangerous areas, protection of workers working under elevated conditions, accident reporting, first aid provisions etc.

Weekly safety reviews and 'risk assessments' shall be carried out in conjunction with the Project Manager and the Employer in order to identify potential safety hazards and to mitigate against them. Attending weekly or as scheduled safety meetings at site conducted by the site safety representative of project manager

The Contractor will be required to provide all personnel entering the Site an Identity and safety rules card and verbal explanation of the safety programme.

Requiring all Sub-Contractors and other workers under the responsibility of the Contractor (including the Vendors or later phases of the construction of the Project) to adhere to the written safety programme as per approved format.

Experienced safety officers with adequate number of supporting personnel shall be appointed by the Contractor for full time on the site during the Contract period.

#### NON-COMPLIANCE OF REGULATIONS

If the Project Manager or the Employer's Representative notifies the Contractor of non-compliance with the foregoing regulations, the Contractor shall immediately, if so directed, or in any event not more than eighteen (18) hours after receipt of such notice, make all reasonable efforts to correct such non-compliance. If the Contractor fails to do so, the Employer may suspend all or any part of the Work. When the Contractor has undertaken satisfactory corrective action, Employer shall lift the suspension of the Work. The Contractor shall not claim any extension of time to complete the Work or additional fees due to any such work suspension.

The Client reserves the right to levy penalty if the safety norms such as not wearing helmets, safety gloves/belts/shoes/jackets. etc., even after a written notice by the enforcing authority, a penalty of Rs. 10,000/- per day per event or till the safety norms are adhered to in addition to stopping of work till the safety norms are adhered.

Clause 32 Refund of Security Deposit (EMD & FSD):

The Security Deposit lodged/paid by a Contractor shall be refunded to him after the final bill is paid or after the successful completion of defect liability period, during which period the work should be maintained by the Contractor in good order, whichever is later.

#### Clause 33. PENALTY FOR DELAY

##### Written Order to Commence Work

After acceptance of the tender, The Purchase Committee, shall issue a written order to the successful tenderer to commence the work. The Contractor shall enter upon or commence any portion of work only with the written authority and instructions of The Purchase Committee. Without such instructions the Contractor shall have no claim to demand for measurements of or payment for, work done by him.

##### Programme of work

The time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor. It shall be reckoned from the date of handing over the site to the Contractor not less than 75 percent of work site area comprising a continuous block. The work shall throughout the stipulated period of the contract be proceeded with, all due diligence (time being deemed to be the essence of the contract on the part of the Contractor). To ensure good progress during the execution of the work, the contractor shall be bound (in all cases in which the time allowed for any work exceeds one month) to comply with the time schedule according to the programme of execution of the work as agreed upon and enclosed to the agreement.

##### Review of progress and responsibility for delay etc.,

The Purchase Committee shall review the progress of all works with the contractor during the first fortnight of every month. Such a review shall take into account the programme fixed for the previous month, obligations on the part of the Contractor.

##### Apportioning of responsibility for delay between Contractor and Institute.

In case the progress achieved falls short by more than 25 percent of the cumulative programme, the reasons for such shortfall shall be examined and a record made thereof apportioning the responsibilities for the delay between the contractor and the Institute. This record should be signed in full and dated both by The Purchase Committee and the Contractor.

#### Clause 34 BAR CHART / CPM CHART:

BAR chart /CPM chart shall be produced during agreement by the contractor. According to the bar chart work is to be executed otherwise penalty will be levied for the delay of work



## 6. THE ARTICLES OF AGREEMENT

This Agreement is made at Bangalore, on this ---- day of ----- in the year -----  
-----.

BY AND BETWEEN

**INDIAN INSTITUTE OF SCIENCE** herein referred as IISc, a Trust registered under the Charitable Endowments Act, 1890, a deemed University and an autonomous Institution funded by the Ministry of Education, Government of India having its office at **Sir C.V Raman Road, Malleswaram, BANGALORE 560 012**, (hereinafter referred to as the IISc which expression shall unless repugnant to the context or meaning thereof, mean and include its successors in interest, trustees and permitted assigns) of the ONE PART

AND

M/s-----, hereinafter referred to as the "CONTRACTOR", (which expression shall unless repugnant to the context or meaning thereof, mean and include their partners, their respective heirs, executors, administrators and assigns) on the OTHER PART.

### RECITALS

A. WHEREAS the IISc is desirous of getting the work of **Supply and Installation of Office Furniture at IDR Building in IISc, Bangalore** (hereinafter called the work) executed by the Contractor at the rates quoted by him amounting to **Rs. -----**  
----- (Rupees ----- only) inclusive of all Taxes which is -----% the estimated amount put to tender.

B. WHEREAS the Contractor has agreed to execute the aforesaid work on terms and conditions mentioned herein and subject to Tender Conditions of Contract and in accordance with the particular specifications, general notes and the schedule of quantities, schedule of rates, payment, and penalty condition, to the satisfaction of the IISc

**NOW THIS AGREEMENT WITNESSETH AND THE PARTIES HERETO AGREE AND SOLEMNLY AFFIRM AS FOLLOWS:**

1. In consideration of the payment to be made to them as hereinafter provided, the contractor shall, subject to the terms, conditions, specifications, schedule of quantities, drawings, etc., more particularly stated in the Schedules aforesaid, execute and complete the work within **3 Months** for the work after 10 days of issuance of work order or from the date of handing over of site, whichever is later.

2. IISc shall pay to the contractor such sums as shall become payable hereunder at the time and in the manner specified in the conditions contained in the schedule aforesaid.

3. The time allowed for carrying out the work as entered in the tender Agreement shall be strictly observed by the contractor and shall be deemed to be the essence of the contract on the part of the contractor and shall be reckoned from 10 days after the date on which the work order to commence the work is issued to the Contractor or the date of handing over of site, whichever is later. The work shall throughout the stipulated period of the contract be proceeded with all due diligence and the Contractor shall pay compensation an amount equal to one percent, or such smaller amount, as the Director, Indian Institute of Science (whose decision shall be final) may

decide on the amount of estimated cost of the whole work as shown in the tender for every day that the work remains un-commenced or unfinished, after proper dates.

4. The contractor shall ensure good progress during the execution of the work be bound in all cases in which the time allowed for any work exceeds one month (save for special jobs) to complete one-eighth of the whole work before, one-fourth of the whole time allowed under the contract has elapsed, three-eighths, of the work before one-half of such time has elapsed, and three-fourths of the work before three-fourths of such time has elapsed.

However, for special jobs if a time schedule has been submitted by the contractor and the same has been accepted by the Purchase Committee the contractor shall comply with the said schedule. In the event of the Contractor failing to comply with the conditions he shall be liable to pay as compensation an amount equal to one percent or such smallest amount, as the Director, Indian Institute of Science (Whose decision in shall be final), may decide on the said estimated cost of the whole work for every day that the due quantity of work remains incomplete; provided always that the entire amount of compensation to be paid under the provisions of this clause shall not exceed seven and a half (7.5) percent of the estimated value of the contract as shown in the tender, provided further that in the event of contractor making up the short fall in progress within the stipulated or extended time of completion, the penalty so recovered may be refunded on an application in writing by the Contractor.

5. The Purchase Committee or its authorized representative shall review the progress of all works with the contractor once every week. Such a review shall take into account the programme fixed for the previous week, obligations on the part of the Institute for issue of drawings etc., and also the obligations on the part of the Contractor. The review shall also examine the accumulated delays by the contractor if any and mitigation measures proposed by the contractor to overcome the delay. In case the progress achieved falls short by more than 25 percent of the cumulative programme, the reasons for such shortfall shall be examined and a record made thereof apportioning the responsibilities for the delay between the IISc and the contractor. This record should be signed in full and dated both by the Purchase Committee and the Contractor.

6. Indian Institute of Science, without prejudice to its rights under the contract in any respect of any delay or inferior workmanship or otherwise, or to any claim for damages in respect of any breaches of the Contract and without prejudice to any rights of remedies under any of the provisions of this contract or otherwise and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases: -

- (i) If the contractor having been given by the Purchase Committee, a notice in writing to rectify reconstruct or replace any defective work or that the work is being performed in any inefficient or otherwise improper or unworkmanlike manner, shall omit to comply with the requirements of such notice for a period of seven days of such notice thereafter or if the contractor shall delay or suspend the execution of the work so that in the judgment of the Purchase Committee (which shall be final and binding) either they will be unable to secure completion of the work by the date for completion of the work or they had already failed to complete the work by that date.
- (ii) If the Contractor being a company passes a resolution or if the Court passes an order to wind up the company or if a receiver or a manager is appointed on behalf of the creditors of the company or under circumstances which entitles the Court or the creditors to appoint a receiver or manager which would entitle the Court to make a winding-up order.
- (iii) If the Contractor commits breach of any of the terms or conditions of this contract.

- (iv) If the contractor assigns or sublets without written approval of the Purchase Committee or becomes insolvent.

**The Purchase Committee, on behalf of the Director of the Institute shall have powers: -**

- a) To determine or rescind the Contract as aforesaid (in which termination or recession notice in writing to the Contractor underhand of the Purchase Committee shall be conclusive evidence). Upon such determination or recession, the security deposit of the Contractor shall be liable to be forfeited and shall absolutely be at the disposal of Institute.
- (a) To employ labour paid by the Institute and supply materials to carry out the work or any part by debiting the Contractor with the cost of the labour and the price of the materials (of the amount of which cost and price certified by the Purchase Committee, shall be final and conclusive against the Contractor) and crediting him with the value of the work done in all respect on the same manner and at the same rates as if it has been carried out by the contractor under the term of his contract. The certificate of the Purchase Committee as to the value of the work done shall be final and conclusive against the contractor, provided always that action under the sub-section shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the Institute are less than the amount payable to the contractor at his agreement rates, the difference shall not be paid to the Contractor.
- (b) After giving notice to the contractor to measure up the work of the contractor and to take such part thereof as shall be un-executed out of their hands and to give it to another contractor to complete in which case any expenses which may be incurred in excess a sum of which would have been paid to the original contractor if the whole work had been executed by him (of the amount of which excess the certificate in writing of the Purchase Committee shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any monies due to him from the Institute under this contract or any other account whatsoever, of from his security deposit or the proceeds of sales thereof, or a sufficient part thereof as the case may be.

In the event of any one or more of the above courses being adopted by the Purchase Committee, the contractor shall have no claim to compensation for any loss sustained by them by reason of having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case of action is taken under any of the provisions, aforesaid, the contractor shall not be entitled to recover or be paid any sum for work thereto/for actually performed under this contract unless the Purchase Committee has certified in writing the performance of such work and the value payable in respect thereof and they shall only be entitled to be paid the value so certified.

7. The schedules above mentioned include the General Rules and Directions to Contractors and the following documents, viz.,
- i) Letter of Intent
  - ii) Letter of Acceptance
  - iii) Purchase Order
  - iv) Conditions of Contract
  - v) Contractor's Bid - Bill of Quantities
  - vi) Technical Specifications
  - vii) Drawings

- viii) The pre-Bid meeting proceedings and corrigendum
  - ix) Any other document listed in the Contract Data as forming part of the contract shall form an integral part of the agreement and the decision of the Purchase Committee in reference to all matters of a dispute as to material and workmanship shall be final and binding on both the parties.
8. The IISc reserves the right of altering the drawings of the works and of adding to or omitting any item of work from or of having portions of the same carried out departmentally or otherwise and such alterations or variations shall not violate this agreement.
  9. This agreement comprises the work aforesaid, and all subsidiary works connected therewith even though such works may not be shown on the schedule appended hereto.
  10. In the event the contractor or their employees, agents, sub-contractors deface or destroy the property or the establishment belonging to IISc, the same shall be made good by the contractor at their own expenses.
  11. The Contractor shall ensure cleanliness at the premises of IISc ensure cleaning of site and removal of debris every week. In any event the contractor ceases to comply the foregoing the IISc shall ensure the site cleaned at the expense of the contractor.
  12. The Contractor shall at all-time be responsible for the safety of their employees, agents, sub-contractors, and in any event during the commission of work or in their due course of work the IISc shall not be held responsible. The contractor shall defend, indemnify and hold the Institute harmless from any liability or damage, lawsuits, penalties imposed by any State or Central Government or statutory body or by a third party for reasons of violation of any of statutory provisions or requirements by the contractor.
  13. The Contractor shall adhere to the working conditions and its scope strictly and any act not in confirmation with the scope of work which is mutually accepted by both the parties shall only be done after prior approval and acceptance in writing by the Director.
  14. The Contractor shall at any time be responsible for the completion of work in time, also the contractor shall be responsible to submit the final bill within one month after completion of the work.
  15. Notwithstanding anything contained in the tender submitted by the contractor, all the clauses of this agreement shall be binding on both parties.
  16. Where counter-terms and conditions, printed or copied, are offered by the contractor, the same shall not be deemed to have been accepted by the IISc, unless specific written acceptance thereof is furnished by the IISc. Notwithstanding the foregoing, no verbal agreement or inference from a conversation with any office members/representatives/employees of the IISc before, during, or after the execution of the agreement, shall in any way affect or modify any of the terms/obligations contained herein.
  17. In the event the contract is terminated by the IISc due to any aforementioned act/omission on the part of the contractor, or for any reason whatsoever, the IISc shall be entitled to engage the services of any other person, agency or Contractor to meet its requirement, without prejudice to its rights including claim for damages against the Contractor.
  18. This agreement can be terminated by IISc with the prior written notice of Seven (7) days in the event of a breach of any of its terms of this agreement and even otherwise this Agreement may be terminated by IISc by giving a minimum of 7 days prior written notice to the Contractor.
  19. The IISc shall be indemnified for all losses due to commissions and omissions of persons deployed by the contractor. If any loss or damage is caused to the IISc on account of any negligence, carelessness, acts of omissions. commissions of contractors, its employees or staff, the same shall be made good by the contractor. The contractor shall defend, indemnify and

hold the Institute harmless from any liability or damage, lawsuits, penalties imposed by any State or Central Government or statutory body or by a third party for reasons of violation of any of statutory provisions or requirements by the contractor. The IISc shall not be liable for any damage or compensation payable to any workmen or to any person as a consequence of this work and the IISc shall be completely indemnified accordingly.

20. The contractor shall pay wages directly to its personnel. The contractor shall also ensure that no amount by way of commission or otherwise is deducted from the wages of the workmen. The contract labourers deployed by the agency shall not involve in any theft/pilferage/damage to Institute property. After necessary investigations, if proved that the contractor or their personnel are responsible for the incident, the contractor is liable and will be penalized to the extent of the value of the loss and additionally Rs. 50,000/- for each such incident.
21. All terms and conditions, the scope of work, and other conditions as mentioned in the tender document will be diligently complied with by the contractor. The terms and conditions, the scope of work, and other conditions mentioned in the tender documents shall form a part and parcel of this agreement.
22. The Contractor hereby agrees and affirms that during or subsequent to the performance of the duties under this Agreement, the Contractor shall maintain confidentiality and shall not divulge, communicate, use or appropriate any of the IISc Information, except to the extent necessary for the Contractor to fulfil his obligations or duties to the IISc under this Agreement. The Contractor shall not cause transmission, removal or transfer of tangible embodiments of, or files from the IISc place of business, without the prior written consent of the IISc and shall not disclose any information of the IISc to any third party.
23. In case of disputes including all questions relating to the performance of the obligations under this agreement and all the dispute and differences which shall arise either during or after the agreement period or other matters arising out of or relating to this agreement or payments to be made in pursuance thereof shall be decided by the Director of IISc whose decision shall be binding on the contractor. The Contractor hereby agrees to be bound by the decision of the Director.

24. **COURTS:**

Courts of appropriate jurisdiction situated in Bangalore City shall have exclusive jurisdiction

25. **GOVERNING LAW**

This Contract shall be governed by the Law of India for the time being in force.

IN WITNESS WHEREOF the parties hereto have set their respective hands the day and the year here in above written.

In the presence of:  
Witness 1:

Signed by for and on behalf of the said Contractor.

**(Company Name)**

In the presence of:

Signed by for and on behalf of the IISc.

Witness 2:

REGISTRAR  
INDIAN INSTITUTE OF SCIENCE  
BANGALORE-12

**INDIAN INSTITUTE OF SCIENCE, BANGALORE-12**  
**ITEM RATE TENDER FOR WORK**

I/We, hereby tender for the execution for the Indian Institute of Science, Bangalore-12 of the works specified in the under mentioned memorandum within the time specified in such memorandum at the rates specified therein and in accordance, in all respects, with the specifications, designs, drawings and instructions in writing which have been read by me/read and explained to me and with such materials as provided for by and in all other respects in accordance with such conditions as for as possible.

**MEMORANDUM OF WORK**

1.	General Description	<b>Supply and Installation of Office Furniture at IDR Building in IISc, Bangalore</b>
2.	Estimated Cost	<b>Rs. 5,76,00,000</b>
3.	Earnest Money	<b>Rs. 8,64,000</b>
4	Date of Commencement of work	Within ten days from the date of issue of work order or the date of handing over the site whichever is later
5	Frequency of interim Certificate and payment	Once in every month.
6.	Further Security Deposit	<b>1.5 %</b> on the running account bills and final bill in addition to Earnest Money Deposit. When the F.S.D. deducted from the RA bills of the Contractor @ 1.5 % of the bill amount exceeds Rs.1.00 lakhs, the amount in excess of Rs.1.00 lakh may, at the request of the Contractor, be released to him against the production of a bank guarantee issued by a Scheduled Commercial Bank only for an equal amount in the prescribed form. The bank guarantee should be valid till the completion of the defect liability period.
5.	Time allowed for the completion of work in all respects from the date of commencement of work	3 Months
6	Bills Of Quantities.	As per enclosure.
7	Defects liability period /release of security deposit.	The security deposit lodged/paid by a contractor shall be refunded to him after the final bill is paid or after twelve months from the date of completion of the work, during which period the work so executed should be maintained by the contractor in good order, whichever is later.
8	Period for payment of Bill.	Four weeks from the date of submission of each bill by the Contractor.

9	Period for submitting the final Bill.	One month from the date of virtual completion of the work by the Contractor.
10	Specifications.	The work shall be carried out strictly in accordance with the enclosed specifications and wherever items are not covered by those specifications in accordance with specifications/drawings /designs/requirements and directions.

I/We hereby agree to abide by and fulfil all the terms and provisions of the conditions contained in the articles of agreement, which have been read by me/us or in default thereof to forfeit and pay to the Registrar, Indian Institute of Science or his successors the sums of monies mentioned in the said conditions.

The sum of **Rs. 8,64,000 (Rupees Eight Lakhs Sixty Four Thousand only)** has been deposited by demand draft as Earnest Money the full value which is to be absolutely forfeited to the Registrar or his successors in Office should I/We fail to commence the work specified in the above memorandum and complete the same.

Dated this **xx<sup>rd</sup> day of xxxxxx 2023**.

**Signature of the Contractor**

**Witness to Contractor/s Signature:**

NAME  
ADDRESS  
OCCUPATION

The above tender is hereby accepted by me on behalf of the Indian Institute of Science, Bangalore-12.

**REGISTRAR  
INDIAN INSTITUTE OF SCIENCE  
BANGALORE.**

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## 7. TECHNICAL SPECIFICATION

The work shall be carried out as per CPWD / KPWD Specification and relevant IS codes. In case of discrepancy between technical specification and BOQ, the BOQ prevails.

### a. INTRODUCTION:

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#### i. SCOPE OF WORK:

Scope of work covered under this specification comprises of manufacture, supply and installation of furniture and other related interior design articles including accessories as per relevant drawings, specification furnished here in and schedule of items attached herewith. Supply of furniture and partition shall be grouped under the following subcategories:

Pouf seating  
Coffee table  
Highchair  
Collaboration area table  
Workstations  
Executive chair  
Visitor chair  
Centre table  
Tall storage cabinet  
Soft board / pin board  
Writing board  
Meeting hall table  
Low height storage unit  
Tv units for 40 pax conference room  
Filing cabinet  
Canteen chair  
Canteen table  
Canteen -Overhead unit  
1 Base unit  
Aluminium skirting  
Classroom chair  
Classroom desk and chair system  
Teacher's desk  
Reception table  
Reception area two-seater sofa: Teapoy

Seminar hall chair Overhead

bookshelf Lockers

However, the scope of work shall not be limited to only the scope mentioned above. Contractor shall supply all items required to complete work up to the satisfaction of owner/engineer.

All furniture and partitions shall be supplied as per attached accommodation layout drawings.

The components of the whole installation are required to be provided by one supplier. Any special tools required for installation purposes are to be identified and provided by the supplier. The supplier is to provide detailed assembly instructions, in hard copy if required.

The owner reserves the right to award the contract in separable parts.

#### **ii. RELATED WORK**

- iii. Contractor shall co-ordinate and co-operate with the following other trades:
- iv. Floor finishing work
- v. Electrical installation/ HVAC/IBMS
- vi. Telephone and data cable installation
- vii. False ceiling work
- viii. Painting and other wall finishes

#### **ix. QUALITY ASSURANCE AND SUPERVISION**

Contractor shall submit evidence of experience with manufacture and installation of similar furniture and other related work as defined in scope of work. Contractor shall undertake installation under the direct supervision of a competent persons engaged by the manufacturer.

#### **x. GUARANTEE**

Bidder shall install the whole of the furniture system to the satisfaction of the client / Engineer-in-charge and warrants the furniture system installed using good materials and with all due care and professional skill and further warrants against: -

- i) Faulty components/parts,
- ii) Paint cracking piling etc.,
- iii) Plastic laminate/veneer delimitation,
- iv) Fabric durability and colour fastness, rust and
- v) Structural failure of panel

Bidder shall give guarantee against any defects whatsoever and howsoever arising for a period of one (1) year from the date of completion of the project.

Bidders shall make good all such defects appearing within the said one (1) year from the date of completion of the project at his own expense and to the satisfaction of the client / Engineer-in-charge. If the Bidder refuses, neglects or fails to do so, for any reason whatsoever within such time as may be specified at the complete discretion of the client in a notice in writing from the client to make good any such defect, the client shall be entitled to engage others to make good the same at the risk and cost of Bidder and charge the cost thereof to the bidder.

The contractor shall guarantee the furniture items and all other interior design items against any defects or failures that may arise due to faulty design, defective material employed, or poor workmanship involved on their part for a period of 12 months from the date of delivery to the owner.

In case of supplier's guarantee being applicable, they shall either arrange to repair the defective parts of the furniture at their cost or supply new ones in compensation free of charge at the earliest. The supplier shall provide further guarantee of 12 months in receipt of such parts replaced.

Parts supplied for replacement in pursuance to the guarantee shall be delivered free of cost by the supplier through quickest possible means.

- **DELIVERY, STORAGE AND HANDLING**

Contractor shall supply all material to place of installation in undamaged condition. All items to be protected and plastic wrapped and shall be handled with care. Contractor shall deliver directly to place of installation and shall not store material at site. Items found to be faulty or damaged shall be replaced immediately by the contractor.

- **CONSTRUCTION SCHEDULE**

Contractor shall comply with delivery and installation schedules. Contractor shall deliver materials to site when the area is practically complete including floor

finishes, door and window installation, wall and ceiling finishes, painting and electrical installation.

- **WORK IMPLEMENTATION**

- 1..1 Examination**

Prior to manufacture, the contractor shall confirm all dimensions and floor levels, compare them with the drawings and notify the manufacturer of any changes. Such deviation shall be brought to the notice of the owner immediately by the contractor. Start of work shall mean total acceptance of conditions by the contractor.

- 1..2 Preparation**

Contractor shall provide polythene or building paper to surfaces which may be damaged by the installation. Other installation, equipment and finishes shall be protected.

### **1..3 Installation**

Furniture and components shall be installed in accordance with agreed layout, design, any written variation order, tendered installation technique and schedule. Contractor shall ensure that horizontal surfaces are truly level throughout.

### **1..4 Inspection**

Contractor shall arrange for inspection by the owner at times mutually agreed. Such inspection shall preferably be before installation of electrical and data wiring.

### **1..5 Cleaning**

Contractor shall touch-up scratched, or discoloured finishes as required and directed.

### **1..6 Completion**

On Completion Contractor shall:

- Remove all debris and packaging from the site.
- Protect all furniture installation up to handover date.
- Organize an inspection.
- Leave all components clean and in operable condition.

Show owner how all adjustment mechanisms operate and provide adequate number of keys to the owner.

- **SUBMITTALS**

Shop drawings of all furniture/desk/table system shall be submitted to client / Engineer-in-charge for approval and post the approval, fabrication of same shall be started.

- **MOCK- UP**

Mock-up of all the furniture system, all types of chairs, pouf seating, coffee tables, reception tables, lockers, storages and the items mentioned in the bill of quantities shall be submitted for approval by the contractor to the client / Engineer-in-charge.

- **EXCLUSIONS:**

Wire management including wiring, all sockets for electrical, telephone and LAN network is not in the scope of bidder.

- **GENERAL SPECIFICATIONS:**

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- The partition/panel and workstation system shall create a pleasant and flexible environment that facilitates and accommodates change, accepts growth, and allows the employer to effectively use their space. It shall be responsive to changing needs and future requirements.
- The furniture shall be of the minimum required sizes, thickness, materials, and finish as shown on drawings and as specified.

- **STURDINESS:**

Entire furniture system shall be rigid and free from vibration in a variety of layouts and are of sturdy construction and fine engineering details and shall be stable against tipping.

- **RE-CONFIGURATION:**

Entire system of construction/erection of the furniture shall facilitate easy storage, assembly and re-erection without any decrease in performance. All components shall be designed for easy removal and repositioning.

- **MAINTENANCE:**

The furniture system shall be durable and easy to clean with detergents safely without effecting the finishes and maintain with replaceable parts.

- **QUALITY:**

The furniture system shall be of good quality and finish and shall be designed with rounded/angled corners, edges with no projections likely to catch on clothing etc. and for safer softer feel.

- **SUSPENDED COMPONENTS:**

All suspended components shall be complete with all necessary brackets. Mounting brackets shall be easily latched and unlatched to reposition the suspended Units up and down on the panel. Each suspended Unit shall have a safety catch to prevent them from being accidentally dislodged.

- **DRAWERS AND SHUTTERS:**

- All drawers and shutters shall have handles or recessed pulls of superior quality finish and shall be provided with central locking mechanism with single key operation for one workstation. All the shop drawings shall be approved by engineer in charge before the fabrication.

- All movable parts of drawers shall have resilient plastic bumpers to prevent metal to metal contact and ensure quiet operation. Ball bearing or other approved gliding system/standard hardware fittings shall be also provided for quiet sliding operations.
- Drawers where provided, will glide one below the other shall be designed for instant installation and repositioning.
- All hardware shall be of standard make and high quality. Bidder shall obtain approval of Engineer in charge for all hardware.

- **COMPONENTS AND SPARES:**

Product components and spare parts of system shall be of modular concept and shall be readily available. Bidders shall give a guarantee for the availability of spare parts and components after the completion of project.

- **METAL COMPONENTS:**

All metal components (frame, supports, metal bodies of storage, keyboard trays etc) shall be made out of CRCA (Cold Rolled Cold Annealed) Mild Steel of reputed manufacturer, approved by Engineer In Charge, treated with Seven Tank Anti Rust treatment. These shall be finished with powder coating of epoxy paint of approved colour and minimum thickness of 80 micron.

Seven Tank Anti Rust Treatment:

Step-1: Metal components dipped in sodium carbonate and alkaline phosphate to remove oil for 90 seconds at 60 degrees centigrade (+/-10%).

Step-2: Rinsing with water at normal temperature for 90 seconds.

Step-3: Dipping in phosphoric acid solution at 45 degree centigrade (+/- 10%) for 10 minutes minimum for de-rusting.

Step-4: Rinsing as specified above.

Step-5: Components to undergo phosphating by dipping in phosphating tank containing iron hydrogen phosphate dissolved in phosphoric acid at normal temperature for minimum 5 minutes.

Step-6: Rinsing as specified above.

Step-7: Dipping components in chromic phosphoric acid with residueing agent chemical at temperature of 80 degree centigrade (+/- 10%) for minimum period of 60 seconds.

- **LAMINATE:**

Laminate shall be high pressure post formed, factory applied and resistant to scratch, impact, moisture damp, chemical and cigarette scorching, Matt finished, decorative type of approved colour and minimum 1 mm thick unless otherwise specified. The veneer shall be of specified / approved grain, solid trimming, stained to client's approval and finished with copolymer liquid plastic dressings.

- **LOCKING SYSTEM:**

All the locks shall be of standard make and shall be provided with minimum two numbers of keys for each lock.

- **UPHOLSTERY:**

This will be of first-class standard workmanship with webbing, no sag springs, coiled springs, padding and filling as specified on drawing. Covering fabrics will be sewn, tufted, and corded as per the industry standards.

- **FABRIC:**

Fabric shall be sourced from reputed manufacturer of approved colour, make, design and texture.

- **DRAWINGS:**

Successful Bidder shall furnish shop drawings / working drawings and obtain approval for all the furniture system before taking up the manufacturing of system. Bidder is required to modify the drawings, add, or delete some members, component if desired by Engineer in charge. Any other drawings/documents as and when required by Engineer in charge shall be furnished by Bidder.

- **PERSPECTIVE VIEW**

Successful Bidder is required to furnish minimum two perspective views from two different angles for each module. These perspectives shall be rendered in various colour schemes for approval of Engineer in charge. Final views shall be furnished in A-3 size for reference showing all the features of furniture system.

- **TECHNICAL DATA SHEETS:**

Bidder is required to submit Tentative Proposal along with schematic drawings for each workstation module, storage unit, partition system, Technical Data Sheets for all the material/systems propose to install, along with bid. This shall include List of Manufacturers for all the raw materials and sources. Successful Bidder shall submit any other data as and when required by Engineer in charge.

- **MOCK-UP:**

Successful Bidder shall construct a mock-up of the furniture system as per specifications and approved drawings prior to commencement of the final manufacturing process for furniture system for the purpose of pre-assessing by the client of its quality. The aforesaid mock-up when approved by the client shall be of the minimum reference standard of workmanship, which would provide for the installation of the furniture system

### 10.3. FURTHER TECHNICAL SPECIFICATION FOR FURNITURE SYSTEM

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- **POUF SEATING**

- 1.1 **Seat padding:**

- Providing 450 mm diameter and 400mm high Pouf Seating exclusively made out of wooden / metal frame structure covered with high density polyethylene foam dressed in Chenille /leatherette upholstery.

- 1.2 **Sewing:**

- With matching thread, overlooking removable for washing or correction of approved colour and make as approved by the Engineer-in-charge. Avoid sharp edges nail or screw pointing out of the surface.

- **COFFEE TABLE**

Coffee table made from 25mm thick particleboard board with moisture proof carcass finished with Post formed lamination of minimum 1-mm thickness on top and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge supported by SS legs with satin finish rounded at edges rubber bushes of approved colour and make. avoiding sharp edges nail or screw pointing out of the surface.

- **HIGHCHAIR**

- 1.1 **Seat framing and support:**

- Ergonomically designed made from rounded metal frame/pipe of gauge 18, powder coated with backrest. The backrest shall be sturdy and rigid and capable of supporting. Wherever required vertical/horizontal supports shall be provided. with approved colour finish.

- 1.2 **Seat padding:**

- Seating made from 25mm thick particle board base with high density foam covered with approved colour chenille upholstery and powder coated metal leg shall be secured with rubber bushes. Avoiding sharp edges nail or screw pointing out of the surface.

- **COLLABORATION AREA TABLE:**

- 1.1 **Tabletop:**

- All the work surfaces shall be of minimum 25 mm thick particleboard board finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. All the work surfaces shall be with capability of



having panel hung system, shall be sturdy and rigid. Wherever required vertical/horizontal supports shall be provided. All the free-standing work surfaces shall be provided with levelling guides. Cantilever powder coated brackets and side modesty panel shall support the work surfaces with built-in stainless-steel screws or other approved means of fixing.

### **1..2 Metal legs:**

Entire structure shall be supported by 16-gauge powder coated metal of approved colour and Make.

## **• WORKSTATIONS**

### **1..1 Tabletops: (As per enlarged drawings)**

All the work surfaces shall be of minimum 25 mm thick commercial plywood/ particle board with Laminated finished, Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. All the work surfaces shall be sturdy and rigid against vibration and capable of supporting heavy electronic equipment. Wherever required vertical/horizontal supports shall be provided. All the free-standing work surfaces shall be provided with levelling guides.

Cantilever powder coated brackets shall support the work surfaces. They should be capable of being assembled on either side of partition. The side work surface shall be rigidly fixed to the main work surface with properly designed brackets and built-in stainless-steel screws or other approved means of fixing. Work surfaces shall be provided with necessary opening for cables cable manager and sockets for as per the requirements.

For Cabins: Vertical wire management system with flip cover with back box with provision of fixing power and data sockets on tabletop. Furniture vendor to coordinate with the main electrical contractor of IDR building before finalising the module of switches in the furniture system.

For Workstations: It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling in the raceway and 50mm grommet matching the tabletop colour shall be provided on the tabletop. Cable tray shall be provided below the top panel for easy installation of data/LAN sockets. Port shall also be provided for charging mobile phones.

### **1..2 Metal modesty panel:**

Powder coated metal modesty panels of 18-gauge steel along the aisles and open ends supported by powder coated metal legs attached with mounting clips and built- in stainless-steel screws or other approved means of fixing.

### **1..3 Storage unit:**

Storage unit with 15 mm thick commercial plywood finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. Storage unit consist of two drawers with required accessories like guide block, raceway, locking system and other supporting accessories with recessed handles. Unit shall be supported by rubber bushes. Color and Make as per the approval of Architect.

### **1..4 Screen:**

Soft board

400 mm high made up of 12mm thick cork mounted over 12mm thick comm. ply & finished with fabric of approved Make and colour.

Sandwiched Toughened glass

8mm thick toughened glass sandwiched with approved colour opaque film attached to the main unit by SS satin finish glass clamps secured with locking pin.

### **• EXECUTIVE CHAIR:**

**Design:** Ergonomically assessed and certified by approved Ergonomists Certification / standardisation:

- Approved and meets the valid standard of Ergonomics.
- Quality Office-certification as per ISO 9001:2000 standards Environment certification of the company as per ISO 14001.

### **1..1 Mechanism:**

Seat and backrest follow the movements of the user synchronously thus ensuring the correct seated posture. Infinite adjustment of the backrest counter pressure by means of side tension control, for body weight of approximately 125kg. The synchronise movement can be locked in five positions. Seat depth adjustment (5.0cm) by means of sliding seat (can be locked in five positions) Seat tilt adjustment (-1 or -4 degrees)

### **1..2 Armrests:**

T-Armrests with adjustable height (10cm) and width (2.5cm) without the use of tools armrest pads made of soft polyurethane (PU). Armrest pads shall be made of soft polyurethane (PU).

### **1..3 Ecology:**

All materials should be environmentally sound, easily separable and recyclable. Over 50% of all the materials used should be recycled. It should contain no hazardous

substances (no PVC, chrome VI, lead or mercury). All expendable parts must be replaceable so as to greatly increase the life cycle of the product. . The powder coatings used should be free from volatile (explosion), organic compounds and heavy metals. Changeable upholstery and cushions to increase the product life cycle. All components should be replaceable and some of them can be retrofitted.

#### **1..4 Seat:**

Ergonomically moulded upholstery with 5cm thick breathable polyurethane (PU) moulded foam, CFC and CHC free. Foam thickness 55kgs/m<sup>3</sup> Premium seat with straight, upholstery outline, changeable.

#### **1..5 Backrest:**

Ergonomically formed, flexible plastic high backrest frame providing head rest with breathable, dampness regulative mesh material made of 100% Polyester. Lumbar support cushion to provide additional support and protection to back.

#### **1..6 Upholstery covers:**

Seat cover not glued, mesh backrest.

#### **1..7 Safety gas unit:**

Seat back rest height 112-125cm

#### **1..8 Castors:**

Metal legs with SS finish attached with five armed twin castors and height adjustable lever.

- **VISITOR CHAIR:**

**Design:** Ergonomically assessed and certified by approved Ergonomists Certification / standardisation:

- Approved and meets the valid standard of Ergonomics.
- Quality Office-certification as per ISO 9001:2000 standards Environment certification of the company as per ISO 14001.

#### **1..1 Mechanism:**

Seat and backrest follow the movements of the user synchronously thus ensuring the correct seated posture. Infinite adjustment of the backrest counter pressure by means of side tension control, for body weight of approximately 125kg. The synchronise movement can be locked in five positions. Seat depth adjustment (5.0cm) by means of sliding seat (can be locked in five positions) Seat tilt adjustment (-1 or -4 degrees)

### **1..2 Armrests:**

T-Armrests with adjustable height (10cm) and width (2.5cm) without the use of tools armrest pads made of soft polyurethane (PU). Armrest pads shall be made of soft polyurethane (PU).

### **1..3 Ecology:**

All materials should be environmentally sound, easily separable and recyclable. Over 50% of all the materials used should be recycled. It should contain no hazardous substances (no PVC, chrome VI, lead or mercury). All expendable parts must be replaceable so as to greatly increase the life cycle of the product. . The powder coatings used should be free from volatile (explosion), organic compounds and heavy metals. Changeable upholstery and cushions to increase the product life cycle. All components should be replaceable and some of them can be retrofitted.

### **1..4 Seat:**

Ergonomically moulded upholstery with 5cm thick breathable polyurethane (PU) moulded foam, CFC and CHC free. Foam thickness 55kgs/m<sup>3</sup> Premium seat with straight, upholstery outline, changeable.

### **1..5 Backrest:**

Ergonomically formed, flexible plastic high backrest frame with breathable, dampness regulative mesh material made of 100% Polyester. Lumbar support cushion to provide additional support and protection to back.

### **1..6 Upholstery covers:**

Seat cover not glued, mesh backrest.

### **1..7 Safety gas unit:**

Seat back rest height 40-52cm

### **1..8 Castors:**

Metal legs with SS finish attached with five armed twin castors and height adjustable lever.

- **CENTRE TABLE**

25 mm thick particle board finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed supported by 18 gauge powder coated metal legs, rubber bushes and required accessories. Colour Make as approved by Architect.

- **TALL STORAGE CABINET:**

Storage Top is made up of 25 mm thick particle board finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on

lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. Storage carcass & shutter is 18mm thick with back in 9mm thick Prelaminated Particle board. Storage is having four openable shutters with locking arrangement & 18mm thick. pre laminated particle board creating two horizontal shelves up to 750mm high. And 8mm Glass shutters with magnetic catches and glass door SS hinges overlay at the top portion with four horizontal shelf. Bottom Rubber protection support should be provided. executed as per the drawings provided. Color Make as approved by Architect.

- **SOFT BOARD/PIN BOARD**

Providing and fixing factory finished soft boards with wooden edge lipping. The 12mm thick, soft board shall be fixed on 12mm thick exterior grade MDF backed cork sheet. The soft board is finally finished in fabric with 3mm thick foam backing and fixed, the soft board shall be held with proprietary gripper as per the manufacture's specification adhering to the design intent.

- **WRITING BOARD**

**1.1 Glass surface:**

6 mm thick wall mounted toughened glass with the highest resistance to ink stains, pen marks, scratches and dents back painted with water based white paint with spray painting technique which will allow the uniform painting on the glass surface without leaving the dark patches. To make sure the paint sticks, it's imperative that either an adhesion be applied first, or that the sheet is baked afterward.

Magnetic backing is achieved by applying 2-3 thick layers of magnetic paint which has an acrylic primer containing metal particles. Magnetic quality allows writing and posting of messages with dry-erase markers and rare earth magnets.

**1.2 Attachments:**

Frameless design with removable pen tray mounted with concealed mounting (CM) or Stainless-steel glass clamps (GC).

**1.3 Fixing:**

The glass shall be fixed with SS satin finished standoff fixing/direct fixing hardware matching to the depth of the softboard fixed adjacent to it.

- **MEETING HALL TABLE:**

**1.1 Worktops: (as per detailed drawings)**

All the work surfaces shall be of minimum 25 mm thick commercial plywood finished with Post formed lamination of minimum 1-mm thickness on top and front

and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. All the work surfaces shall be sturdy and rigid against vibration and capable of supporting heavy electronic equipment. Wherever required vertical/horizontal supports shall be provided. All the free-standing work surfaces shall be provided with levelling guides. Work surfaces shall be provided with necessary opening for to fix modules of Power and data Sockets Pop up boxes at regular intervals on table top as per the requirements indicated in the BOQ.

### **1..2 Metal modesty panel:**

Powder coated metal modesty panels of 18-gauge at the centre to accommodate the wiring and cable managers, supported by powder coated metal legs attached with mounting clips and built-in stainless-steel screws or other approved means of fixing. Bottom of the leg is secured with rubber bushes.

- **LOW HEIGHT STORAGE UNIT**

25 mm thick particle board finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed with two units each consist of one horizontal divisions with two shutters and recessed handles, Soft-Close concealed Hinges, wire manager and supporting accessories. The entire unit is supported by four castors which will help the unit for easy movement. executed as per the drawings provided. Color Make as approved by Architect.

- **TV UNITS FOR 40 PAX CONFERENCE ROOM**

Providing and fixing factory-made TV unit with 25mm thk. machine pressed pre laminated commercial plywood top with 2mm thick PVC lipping with four vertical units with four shutters bifurcated by a vertical separator. The entire unit consists of two horizontal divisions each accessorized by recessed handles, Soft-Close concealed Hinges , wire manager, supporting accessories and castors for easy movement .Colour, Make and design as approved by Architect.

- **FILING CABINET:**

Structure with 25 mm thick particleboard board finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. Cabinet with four shutters with middle portion of 25mm thick machine pressed prelaminated particle board. Shutters with 18mm thick particle board and prelamination on both the sides. locking facility, SS handles, Soft-Close Concealed Hinges and supporting accessories. Colour Make as approved by Architect.

- **CANTEEN CHAIR:**

Factory made medium back chairs with a back inner / outer shell made out up of recyclable polypropylene monolithic seat is to be fixed to the frame with sheet metal screws. The framework is to be fixed to the legs with rubber protector. Hand rest attached with the SS legs with snap type of fittings, colour and Make as approved by the Architect. Colour shall not fade at least for 10 years; it shall not get brittle as year passes.

- **CANTEEN TABLE:**

25mm thick particle board finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. Attached with SS legs and stain finish with all required accessories complementing the canteen chair. Colour and Make as approved by the Architect.

- **CANTEEN -OVER HEAD UNIT 1:**

Factory made over head unit with prelaminated machine pressed heat & moisture resistance base made up of 25mm thick prelaminated particle board at top and sides, 14mm thick one side laminated at back supported by intermediate support and shutters of 15mm thick. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. Shutters shall be designed with recessed handles, soft close concealed hinges and supporting accessories indicated as per drawings. Colour and Make as approved by the Architect.

- **BASE UNIT**

Base unit shall be designed below granite countertop as executed on site. Furniture vendor to co ordinate with main contractor for fixing of granite platform over the base unit. Unit shall be made up of 25mm thk moisture resistant prelaminated commercial plywood on the underside with moisture proof carcasses at two levels i.e. at 1050 mm and 800 mm respectively as indicated in drawings , 11mm moisture resistant prelaminated commercial plywood on the rear side (Ply on one side), 18 mm moisture resistant prelaminated commercial plywood on the front side and shorter side(Ply on both sides)18mm thk prelaminated commercial plywood of vertical support between the storage and 18mm thick machine pressed prelaminated plywood of horizontal shutter with 2mm thick PVC edge binding of approved type, hot and machine pressed. Supported with recessed door handles, soft close concealed hinges and supporting accessories indicated as per drawings. Number of shutters and horizontal partitions shall be as per the drawings provided by the architect.

*Note: Granite top is already executed in the civil package.*

- **CLASSROOM CHAIR:**

Factory-made classroom chairs with powder coated 18gauge MS powder coated metal frame, seat and backrest with cushion made up of ergonomically moulded upholstery with 5cm thick breathable polyurethane (PU) moulded foam, CFC and CHC free. Foam thickness 55kgs/m<sup>3</sup> Premium seat with straight, upholstery outline, changeable. One arm attached with 12mm thk. Pre polished wood foldable writing pad attached to powder coated metal arm, chair supported by four 18-gauge MS metal powder coated legs with rubber bushes. Colour and Make as approved by the Architect.

- **CLASSROOM DESK AND CHAIR SYSTEM**

Chair: Factory-made classroom chairs with powder coated 18gauge MS powder coated metal frame, seat and backrest with cushion made up of ergonomically moulded upholstery with 5cm thick breathable polyurethane (PU) moulded foam, CFC and CHC free. Foam thickness 55kgs/m<sup>3</sup> Premium seat with straight, upholstery outline, changeable. Arm with soft PU foam attached to powder coated metal arm, chair supported by four 18-gauge MS metal powder coated legs with rubber bushes. Colour and Make as approved by the Architect.

Alternate Desk-chair combination: All the work surfaces shall be of minimum 25 mm thick particle board finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. 18-gauge powder coated metal legs (or same particle board with lamination also permitted) secured with rubber bushes and metal modesty panels of 18-gauge steel at the front sides supported by mounting clips and built-in stainless-steel screws or other approved means of fixing.

- **TEACHER'S DESK:**

All the work surfaces shall be of minimum 25 mm thick particle board finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. 18-gauge powder coated metal legs secured with rubber bushes and metal modesty panels of 18-gauge steel along the sides supported by mounting clips and built-in stainless-steel screws or other approved means of fixing.

- **RECEPTION TABLE**

Aesthetically appealing factory-made reception table shall be made up of 25 mm thick commercial plywood finished with post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture with two level desk one at 1050mm level and 750 level respectively with provision of two separate vertical and horizontal cable manager , flip box and switch board at table top secured with 2mm thick PVC edge binding of approved type, hot and machine pressed. Side storage units of 15mm thick machine pressed



partition board with shutter, soft close concealed hinges and drawers with locking system, SS handles, drawer channels etc. Table shall be supported by prelaminated frames with modesty panel of the same material along the sides. Colour, design and Make as approved by the Architect.

- **RECEPTION AREA TWO-SEATER SOFA:**

Two seater sofa with medium back shall be made up of appropriate metal or wood framework, high density thick polyurethane foam cushions for seat and back, Chenille/ leatherette upholstery, padded armrests etc all complete of approximate size 1400 mm width, 600 mm depth, 740 mm back rest height and 400 mm seat height.

- **TEAPOY**

Teapoy made up of 8 mm thk. toughened glass with chamfered edge (bevelled edge) fitted to the frames with SS glass stud. The base shall be made up of prelaminated commercial plywood frame connected with 4 Nos of vertical members tied to each other with horizontal members at bottom secured with rubber bushes and horizontal surface at the bottom to keep the newspaper. Color and Make as approved by the Architect.

- **SEMINAR HALL CHAIR**

Heavy duty fully upholstered seminar hall chairs 520mm centre to centre supported with powder coated metal frames, individually moulded seat with back cushions made up of polyurethane foam with density 50±5 kg per cubic meter covered with approved upholstery. Push back mechanism is enabled by high performance coil springs. The armrest is made up of soft PU armrest mounted on powder coated metal arms with metal fastener. The chair rest on the ground on two side panel frames made out of upholstered 6mm particle board, the side panel board is grouted to the floor by anchor bolt system.

(The item specifies 11 no of chairs in one row)





- **OVER HEAD BOOKSHELF:**

25 mm thick particle board finished with Post formed lamination of minimum 1-mm thickness on top and front and 0.8 mm thickness on lower side of approved colour/texture. All the other exposed edges of the board shall be sealed by minimum 2mm thick PVC edge binding of approved type, hot and machine pressed. Unit with one horizontal division and equal vertical divisions supported by vertical units with 8mm thick toughened glass shutters with magnetic catches and glass door SS Hinge Overlay at the top portion secured with locking facility, executed as per the drawings provided. Color Make as approved by Architect.

- **LOCKERS**

Lockers of size 1500mm X 2000mmX450mm, each unit with 500mm X 500mm X450mm made up of 18-gauge mild cold rolled steel, free from imperfections with powder coat finish. Side frames shall be 18 gauge formed into 1" wide face channel shapes with a continuous vertical door strike, integral with the frame on both sides of the opening. Shutter shall be 18-gauge steel formed with a full channel shape on the lock side to fully conceal the lock bar, channel formation on the hinge side and right- angle formation across the top and bottom. Locker doors shall be ventilated by louvers on the face of each door, top and bottom. The body of the locker consists of 22-gauge upright sheets, backs, top, bottom and shelves. Each locker shall have a polished aluminium number plate with black numerals not less than 1/2" high. Plates shall be attached with rivets to the lower surface within the recessed handle pocket. Each unit shall comprise with unique locking system with two key sets and master key. Doors and exposed body parts shall be finished with suitable enamel paint. The inside and outside parts of the frame and shutter shall be powder coated as per the colour finalised by client/Engineer-in-charge.

**10.4. REFERENCE IMAGES**

Sr. No.	Description	Reference image
1	Pouf seating	
2	High Chair	
3	Executive chair	
4	Visitors Chair	

5	Centre Table	
6	Tall Cabinet	
7	Writing board	
8	Low height cabinet	
9	TV unit ( In 40 seater conference room )	

10	Filing cabinet	
11	Sofa	
12	Canteen Chair	
13	Classroom Chair	
14	Classroom Desk and Chair system	

15	Teacher's Desk	
167	Reception Table	
17	Teapoy	
18	Seminar hall chair	
19	Lockers	

## **TENDER DRAWINGS, DRAWINGS FOR APPROVAL & COMPLETION DRAWINGS**

The drawings provided to the bidder with the tender documents give a general scheme of the system and are not meant to be the working drawings. The contractor shall furnish the shop drawings to be sent to the Engineer in charge, of all the equipment/ layouts after award of the contract and the same shall be approved by the Engineer in charge. No work shall be allowed to be executed without the approved shop drawings.

### **i) Tender Drawings**

The drawings appended with the tender documents are intended to show the areas to be conditioned, space allotted for various equipment, tentative cable and pipe routes. The equipment offered shall be suitable for installation in the spaces shown in these drawings.

ii) Drawings for approval on award of the work

The contractor shall prepare & submit required sets of relevant drawings and get them approved from the Engineer-in-charge before the start of the work. The approval of drawings however does not absolve the contractor not to supply the equipment/ materials as per agreement, if there is any contradiction between the approved drawings and agreement.

Three sets of the relevant laminated drawings shall be submitted by the contractor while handing over the installation to the Department.

Documents to be furnished along with submission of tender document

i) Quality assurance plan for equipment to be submitted by the contractor.

Data to be furnished by the contractor after the award of contract and before installation

i) Schedule of drawings and documents to be submitted for review, approval and information with submission dates.

ii) Quality Assurance Plan (QAP).

iii) The drawing or documents shall include all design data and information furnished in data sheets.

### **Site and Other Data**

#### **Location**

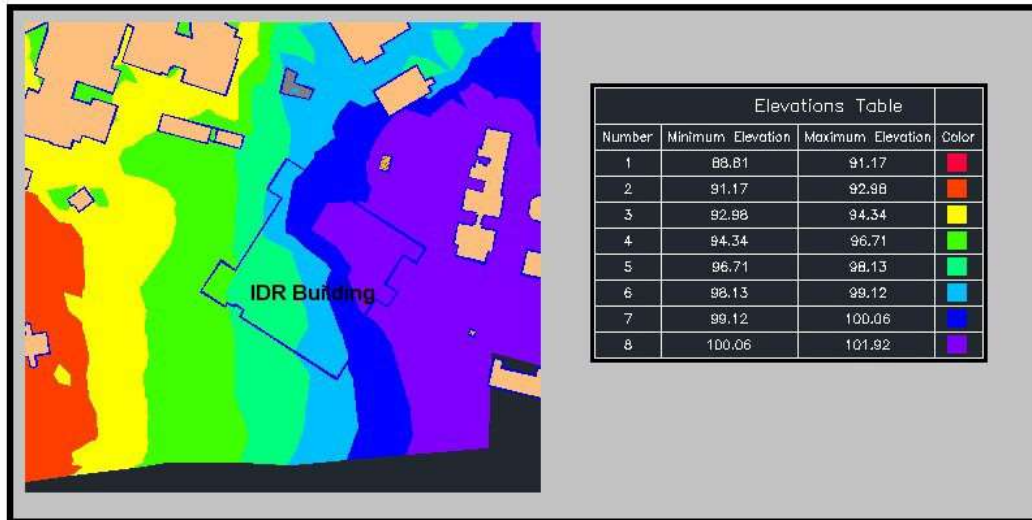
The works are situated at permanent campus site of IISc Bangalore on CV Raman Road, Bangalore 560012

#### **IISc Campus Topography & Climate**

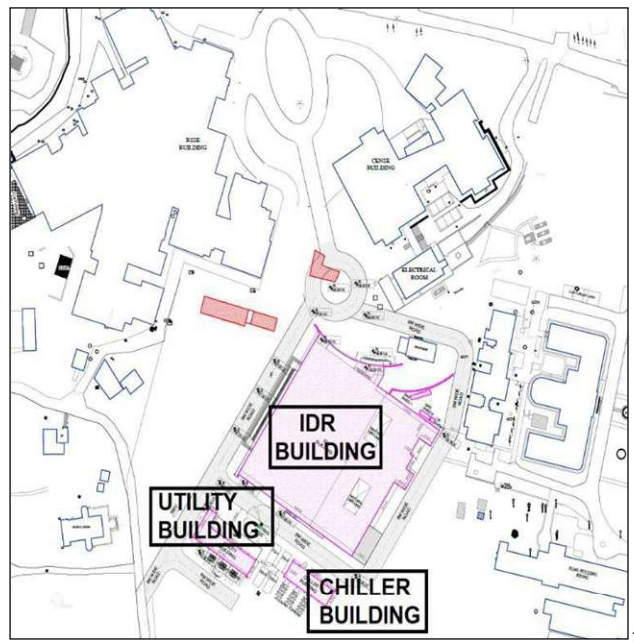
A micro study of the campus topography shows system of natural surface run off towards South Western side of site. Type of soil is Very Stiff to Hard, reddish/yellowish/whitish – brown sandy silt soil. The wind pressure is 33m/sec. The rainfall data shows 90 mm/hr [ For a 1-hour period (Peak) ]. The Mean of hottest month temperature is 38 deg C and Mean of coldest month temperature is 14 deg C.

Topography of the site





Project Layout



### 11. Approved Makes

This section provides details of the Approved Vendors/Approved makes for bought-out items, which form a part of this enquiry package.

BIDDER shall clearly indicate the makes of all bought-out items and shall at no point in time during execution deviate from those indicated in the offer document.

#### INDIGENOUS MATERIALS

SL. NO.	ITEM	BRAND/MAKE
1	PLYWOOD (ALL GRADES)/BLOCK BOARD / FLUSH SHUTTERS	CENTURYPLY
		GREENPLY
		ARCHIDPLY
		UNIPLY
		SOMANIPLY
2	PARTICLE BOARDS	CENTURYPLY
		ARCHIDPLY
		SOMANI
		DURATUFF
3	DECORATIVE LAMINATES	CENTURY LAMINATE
		MERINO
		GREENLAM
4	GLASS – LEAR/TOUGHENED / FROSTED/MIRROR	SAINT GOBAIN
		AIS
SL. NO.	ITEM	BRAND/MAKE
5	ACRYLIC EMULSION PAINT/ SOFT SHEEN ENAMEL/ SYNTHETIC ENAMEL	ASIAN
		BERGER
		NEROLAC
		DULUX
6	HI-GLOSS METAL PAINT	MRF
		BERGER
		AKZONOBEL
7	MELAMINE POLISH WATER BASED	MRF/ASIAN
8	<b>HARDWARE AND FITTINGS</b>	
a	PATCH FITTINGS (TOP PATCH, BOTTOM PATCH, LOCK)	DORMA
		GEZE
		HAFELE
		HETTICH
b	CONCEALED TOWER BOLT	DORMA

		GEZE
		HAFELE
		HETTICH
c	MULTIPURPOSE LOCK	DORMA
		GEZE
		HAFELE
		HETTICH
d	CABINET HINGE (AUTO CLOSING)	HAFELE
		HETTICH
e	DRAWER SLIDE SYSTEM (METABOX)	HAFELE
		HETTICH
f	SCREWS	
	Joinery works	NETTLEFOLD IS 1365, GI screws
	Hardware, Fittings	SS STAR HEAD SCREW AS PER MANUFACTURERS SPECIFICATION
9	FROSTED FILM/ ANTISKID FILM/ MIRROR TAPE/ VINYL GRAPHICS	3M
10	GLASS SEALANT	DOWCORNING
		GE
		3M
		LG
11	ALUMINIUM SECTIONS	JINDAL / HINDALCO / BHORUKA
12	GI - SECTIONS	SAINT GOBAIN - GYPROC
13	MS SECTIONS	TATA
		JINDAL/JSW
<b>SL. NO.</b>	<b>ITEM</b>	<b>BRAND/MAKE</b>
14	CERAMIC COATED WRITING BOARD – REGULAR/ MAGNETIC	ALKON
15	SOFTBOARD	CELOTEX / CHISEL / JOLLY BOARD
15	FABRIC	RESPONSE / COMARADE
17	ADHESIVES FOR JOINERY WORKS	FEVCOL SH / FEVICOL SPEEDEX / SR 998
		JEEVANJOR (VAMICOL)

**FURNITURE**

<b>SL. NO.</b>	<b>ITEM</b>	<b>BRAND/MAKE</b>
1	MODULAR FURNITURE WORKS (INCLUDES STORAGES)	GODREJ / WIPRO / NEELKAMAL/FEATHERLITE / Approved equivalent MAKE
2	CHAIRS	FEATHERLITE/ WIPRO NEELKAMAL/GODREJ / Approved equivalent MAKE
3	LOOSE FURNITURE WORKS	Selected furniture series to be named by IISc for procurement
4	LOCKERS	GODREJ / WIPRO / NEELKAMAL/Approved equivalent MAKE

**Note:** Contractor needs to get approval for manufacturers / make / brands / from the Engineer-In-Charge prior to initiating procurement required for execution.



Validate		Print		Help		Item Rate BoQ				
Tender Inviting Authority: Registrar IISc, Bangalore										
Name of Work : Supply and Installation of Office Furniture at IDR building in IISc, Bangalore.										
Tender No: IISc/Tender-IDS-23-02/2022-23										
Name of the Bidder/ Bidding Firm/ Company :										
<p><b>Notes for bidder:</b></p> <p>1) The bidder shall quote rates for all the items. Rates quoted shall be firm and valid even if the contract is split.</p> <p>2) The quantities of various items indicated are only approximate and payment will be made on the basis of actual quantity executed. The quantities of the individual items can vary to any extent and the purchaser is at liberty to delete any item.</p> <p>3) This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender.</p> <p>4) Bidders are allowed to enter the Bidder Name, Basic Rate and GST percentage for each item only.</p> <p>5) For all general notes full description and other details Bidder must refer BOQ in tender document and quote accordingly.</p> <p><b>Additional Notes:</b></p> <p><b>Base rate mentioned in the BOQ will not be negotiated during the execution stage. The bidder will bring sample of equivalent price range for approval from client or Engineer-In-Charge.</b></p> <p><b>Basic Rates exclusive of all taxes but delivered at site.</b></p> <p><b>Fabric to be Rs 650 per Rmt</b></p> <p><b>Leatherette to be Rs 900 per Sqm</b></p> <p><b>Laminats to be Rs 450 per Sqm</b></p> <p><b>PU Foam infill density shall be minimum 40 kg/m3</b></p> <p><b>All the substructure metal works mentioned in SS shall be of SS 304 grade</b></p> <p><b>Rate to be inclusive of Scotchgard Treatment to all the fabric furniture's.</b></p>										
Sl. No.	Item Description	Item Code / Make	Quantity(3)	Units	Basic rate per unit ( Figures To be entered by the Bidder)	Rate %	Amount inclusive of GST	Amount in word		
1	2	3	4.00	5	13	16	53	55		
1	<p><b>Pouf Seating</b></p> <p>Providing 450mm diameter and 400mm high Pouf Seating made out of metal frame structure ,wooden finish with high density foam of Chenille /leatherette upholstery with matching thread , Overlooking removable for washing or correction of approved color and Make as approved by the Engineer-in -charge. Avoid sharp edges nail or screw pointing out of the surface.</p> <p>Refer Tender document for reference image.</p>	Item 1	180.00	Each			0.00	INR Zero Only		
2	<p><b>High chair</b></p> <p>Providing 400 mm dia high stool chair ergonomically designed made out of rounded metal structure with powdercoated finish, backrest welded with approved colour finish and seating made out of high density foam with approved colour chenille upholstery and rubber bushes. Avoiding sharp edges nail or screw pointing out of the surface.</p> <p>Refer Tender document for reference image.</p> <p>Size : 400mm dia with 750mm height.</p>	Item 2	20.00	Each			0.00	INR Zero Only		
3	<p><b>Executive Chair:</b></p> <p>Providing Ergonomically assessed rotating chair with adjustable head support attached to ergonomically formed, flexible plastic backrest frame supporting regulative mesh material made of 100% Polyester with tilting mechanism. The Lumbar support cushion to provide additional support at the back. T armrest with armrest pads made of soft polyurethane with adjustable height. Ergonomically moulded polyester upholstery covering breathable polyurethane (PU) moulded foam of thickness: 5cm of seating supported by metal legs with SS finish attached with five armed twin castors and height adjustable lever as indicated in image , Color and Make as per the approval of Engineer-in -charge.</p> <p>Refer Tender document for reference image.</p>	Item 3	140.00	Each			0.00	INR Zero Only		
4	<p><b>Visitor's Chair:</b></p> <p>Providing Ergonomically assessed rotating chair with ergonomically formed, flexible plastic backrest frame supporting regulative mesh material made of 100% Polyester with tilting mechanism. The Lumbar support cushion to provide additional support at the back, Plastic T armrest with adjustable height, ergonomically moulded polyester upholstery covering breathable polyurethane (PU) moulded foam of thickness: 5cm seating supported by metal legs with ss finish attached with five armed twin castors and height adjustable lever as indicated in image , Color and Make as per the approval of Engineer-in -charge.</p> <p>Refer Tender document for reference image.</p>	Item 4	1400.00	Each			0.00	INR Zero Only		
5	<p><b>Classroom Chair:</b></p> <p>Providing factorymade classroom chairs with powder coated pipe M5 metal frame , seat and backrest with cushion made up of high density foam with one arm attached with 12 mm thk. foldable writing pad made up of prepolished wood attached to powder coated metal arm, chair supported by four powder coated metal legs with rubber bushes. Colour and Make as approved by the Engineer-in -charge.</p> <p>Refer Tender document for reference image.</p> <p><b>OR</b></p> <p><b>Classroom Desk and Chair system:</b></p> <p>Chair: Providing factorymade classroom chairs with powder coated pipe M5 metal frame with attached arms, seat and backrest made up of high density foam supported by four powdercoated metal legs with rubber bushes.</p> <p>Desk: Providing and fixing 25mm thk. machine pressed prelaminated particle board table top with 2mm thk PVC edge lipping with powder coated metal legs secured with rubber bushes. Front portion of table secured with metal modesty panel. Each unit shall comprise of a table and chair.</p> <p>Refer Tender document for reference image.</p>	Item 5	310.00	Each			0.00	INR Zero Only		
6	<p><b>Seminar hall chair</b></p> <p>Providing and fixing heavy duty fully upholstered seminar hall chairs 520mm centre to centre supported with powder coated metal frames, individually moulded seat with back cushions made up of polyurethane foam covered with approved upholstery . Foldable writing pad made up of 25mm thk machine pressed prelaminated particle board secured with 2mm thick PVC lipping attached to powder coated metal armrest with metal fastner. The chair rest on the ground on two side panel frames made out of upholstered 6mm partial board , the side panel board is grouted to the floor by anchor bolt system.</p> <p>(The item specifies 11 no of chairs in one row and the quantity mentioned is number of rows.)</p> <p>Refer Tender document for reference image.</p>	Item 6	10.00	Each			0.00	INR Zero Only		
7	<p><b>Sofa</b></p> <p>Providing 1400mm X 600mm two seater sofa with medium back rest and arm rest made out of wooden/metal frame structure with high density foam padding Chenille/ leatherette upholstery supported by chrome plated metal legs with rubber bushes of approved color and Make.</p> <p>Size :1400x600 mm</p> <p>Refer Tender document for reference image.</p>	Item 7	50.00	Each			0.00	INR Zero Only		
8	<p><b>Canteen Chair:</b></p> <p>Providing factorymade medium back chairs with a back inner / outer shell made out up of recyclable polypropylene along with handrest attached with the SS legs with snap type of fittings, end of the legs secured with rubber protector, colour and Make as approved by the Engineer-in -charge. Colour shall not fade at least for 10 years, it shall not get brittle as year passes.</p> <p>Refer Tender document for reference image.</p>	Item 8	36.00	Each			0.00	INR Zero Only		
9	<p><b>Coffee table:</b></p> <p>Providing and fixing factory made 800mm dia coffee table made out of 25mm machine pressed prelaminated particle board table top with moisture proof carcass secured with 2mm thick PVC lipping supported by SS legs rounded at edges rubber bushes of approved color and make. avoiding sharp edges nail or screw pointing out of the surface.</p> <p>Table size: 800 dia with 450mm height</p>	Item 9	45.00	Each			0.00	INR Zero Only		
10	<p><b>Centre Table:</b></p> <p>Providing and fixing factorymade 1100mm dia machine pressed prelaminated particle board table top with moisture proof carcass with 2mm thick PVC edge lipping supported by powder coated metal legs , rubber bushes and equired accessories. Color Make as approved by Engineer-in -charge.</p> <p>Refer Tender document for reference image.</p> <p>Size of table: Dia 1100mm , Height 750mm</p>	Item 10	90.00	Each			0.00	INR Zero Only		
11	<p><b>Collaboration area Table type 1 :</b></p> <p>Providing and fixing factorymade linear table of 600mm wide and 25mm thick pre laminated machine pressed particle board with 2mm thick PVC edge lipping supported by powdercoated metal legs with side modesty panel and intermediate supports of approved color and Make.</p> <p>Size :5400 mmm X 600mm</p>	Item 11	1.00	Each			0.00	INR Zero Only		

Sl. No.	Item Description	Item Code / Make	Quantity(3)	Units	Basic rate per unit (Figures To be entered by the Bidder)	Rate %	Amount inclusive of GST	Amount in word
12	<b>Collaboration area Table type 2:</b> Providing and fixing factorymade linear table of 600mm wide and 25mm thick pre laminated machine pressed particle board with 2mm thick PVC edge lipping supported by powdercoated metal legs with side modesty panel and intermediate supports of approved color and Make. Size: 6400mm X 600mm	Item 12	1.00	Each			0.00	INR Zero Only
13	<b>Collaboration area Table type 3 :</b> Providing and fixing factorymade linear table of 600mm wide and 25mm thick pre laminated machine pressed particle board with 2mm thick PVC edge binding supported by powdercoated metal legs with side modesty panel and intermediate supports of approved color and Make. Size: 12500mm X 575mm	Item 13	1.00	Each			0.00	INR Zero Only
14	<b>Collaboration area Table type 4 :</b> Providing and fixing factorymade linear table of 600mm wide and 25mm thick pre laminated machine pressed particle board with 2mm thick PVC edge binding supported by powdercoated metal legs with side modesty panel and intermediate supports of approved color and Make. Size: 12125mm X 600 mm	Item 14	1.00	Each			0.00	INR Zero Only
15	<b>Meeting Hall Table: Type-1</b> Providing and fixing aesthetically appealing factory made modular table of 25mm thk. machine pressed Pre laminated commercial plywood top with provision to fix 10 Module Power& data Socket Pop up boxes -10 nos at regular intervals on table top, with 2mm thick edge binding supported by powder coated metal legs with modesty panel at the center to accommodate cable and wiring system, provision for the vertical and horizontal wire management with all metal surfaces being finished with powder coating of approved colour.Colour, design and Make shall be as approved by the Engineer-in-charge. Size(2100 mm x8000 mm)-Conference room-40 Pax	Item 15	1.00	Each			0.00	INR Zero Only
16	<b>Meeting Hall Table: Type-2</b> Providing and fixing aesthetically appealing factory made modular table of 25mm thk. machine pressed Pre laminated commercial plywood top with provision to fix 4 Module Power&data Socket Pop up boxes -4 nos at regular intervals on table top, with 2mm thick edge binding supported by powder coated metal legs with modesty panel at the center to accommodate cable and wiring system, provision for the vertical and horizontal wire management with all metal surfaces being finished with powder coating of approved colour.Colour, design and Make shall be as approved by the Engineer-in-charge. Meeting room table(1200x5250 mm)-Meeting Room -20 Pax	Item 16	4.00	Each			0.00	INR Zero Only
17	<b>Meeting Hall Table: Type-3</b> Providing and fixing aesthetically appealing factory made modular table of 25mm thk. machine pressed Pre laminated commercial plywood top with provision to fix 3Module Power&data Socket Pop up boxes -3nos at regular intervals on table top, with 2mm thick edge binding supported by powder coated metal legs with modesty panel at the center to accommodate cable and wiring system, provision for the vertical and horizontal wire management with all metal surfaces being finished with powder coating of approved colour.Colour, design and Make shall be as approved by the Engineer-in-charge. Meeting room table(2000x3000 mm)-Meeting Room -20 Pax	Item 17	1.00	Each			0.00	INR Zero Only
18	<b>Meeting Hall Table: Type-4</b> Providing and fixing aesthetically appealing factory made modular table of 25mm thk. machine pressed Pre laminated commercial plywood top with provision to fix 4Module Power&data Socket Pop up boxes -4 nos at regular intervals on table top, with 2mm thick edge binding supported by powder coated metal legs with modesty panel at the center to accommodate cable and wiring system, provision for the vertical and horizontal wire management with all metal surfaces being finished with powder coating of approved colour.Colour, design and Make shall be as approved by the Engineer-in-charge. Meeting room table(1000x6000 mm)-Meeting Room -20 Pax	Item 18	7.00	Each			0.00	INR Zero Only
19	<b>Meeting Hall Table: Type-5</b> Providing and fixing aesthetically appealing factory made modular table of 25mm thk. machine pressed Pre laminated commercial plywood top with provision to fix 3Module Power&data Socket Pop up boxes -3 nos at regular intervals on table top, with 2mm thick edge binding supported by powder coated metal legs with modesty panel at the center to accommodate cable and wiring system, provision for the vertical and horizontal wire management with all metal surfaces being finished with powder coating of approved colour.Colour, design and Make shall be as approved by the Engineer-in-charge. Meeting room table(1000x3750 mm)-Meeting Room -10 Pax	Item 19	2.00	Each			0.00	INR Zero Only
20	<b>Canteen Table:</b> Providing 1000mm dia factory make 25mm thk. prelaminated machine pressed heat & moisture resistance table side full rounded top with 2mm thk PVC edge lipping with SS legs and required accessories complementing the canteen chair colour and Make as approved by the Engineer-in -charge. Refer Tender document for reference image. Size: 1000mm dia X 750mm height	Item 20	9.00	Each			0.00	INR Zero Only
21	<b>Teacher's Desk:</b> Providing factory made desk with 25mm thk. machine pressed prelaminated particle board table top with 2mm thick pvc edge lipping with powder coated metal legs secured with rubber bushes and modesty panel on all the sides. Storage unit with lockable two drawers supported by required accessories. Size: 2000mmX 600mm Refer Tender document for reference image. Reference Drawing No :TCE.11858A-AC-1014-IW-10228	Item 21	4.00	Each			0.00	INR Zero Only
22	<b>Reception Table</b> Providing and fixing aesthetically appealing factorymade reception table made up of 25mm thick machine pressed prelaminated commercial plywood with two level desk one at 1050mm level and 750 level respectively with provision of two separate vertical and horizontal cable manager, cable cubby and provision of opening for switch board at table top secured with 2mm thick PVC edge binding. Side storage units Storage unit of 15mm thk machine pressed partition board with shutter, soft close concealed hinges and drawers with locking system, SS handles, drawer channels. Table shall be supported by prelaminated frames with modesty panel of the same material along the sides. Colour, design and Make as approved by the Engineer-in -charge. Size: 3100mmX 1800mm x1050/750mm (height) Refer Tender document for reference image. Reference Drawing No :TCE.11858A-AC-1014-IW-10229	Item 22	1.00	Each			0.00	INR Zero Only

Sl. No.	Item Description	Item Code / Make	Quantity(3)	Units	Basic rate per unit (Figures To be entered by the Bidder)	Rate %	Amount inclusive of GST	Amount in word
23	<b>Teapoy</b> Providing centre table with table top of 8 mm thk.toughened glass with champhered edge (bevelled edge) fitted to the frames with necessary arrangement. The base shall be made up of prelaminated commercial plywood frame connected with 4 Nos of vertical members tied to each other with horizontal members at bottom secured with rubber bushes and horizontal surface at the bottom to keep the newspaper. Color and Make as approved by the Engineer-in-charge. Size:900mm X450mm Refer Tender document for reference image.	Item 23	40.00	Each			0.00	INR Zero Only
24	<b>L Shaped Desk:</b> Providing and fixing factory made L shape modular desking system of size 2100 X 1750 X 600mm & 750 (ht)mm - 25mm thk. Pre laminated machine pressed Commercial plywood table top with 2mm thick PVC edge lipping with powder coated metal legs supported by MS cross beam.Metal modesty panels along the aisles and open ends, vertical wire management, flip cover with back box with provision of fixing power and data sockets on table top with all metal surfaces being finished with powder coating of approved colour. Storage unit of 15mm thick machine pressed prelaminated commercial plywood with 2mm thick PVC edge lipping, with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) all the accessories and locking system with rubber protectors as shown in drawing. Bidder to note that table support shall not be rested on storage and shall be independent. Color and Make as per the approval of Engineer-in-charge. Reference Drawing Number :TCE.11858A-AC-1014-IW-10210	Item 24	73.00	Each			0.00	INR Zero Only
25	<b>Modular Desk Type 1 A:</b> Providing and fixing modular Linear desking system of each unit of size 2000X1600X600 & 750 (ht)mm Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be made up of 400 mm high made up of 12mm thick cork mounted over 12mm thick comm.ply on either sides & finished with fabric of approved colour. If Softboard is mounted only on one side then the other side shall be finished with prelaminated particle board. Table which is close to aisle and not having low height storage will have end modesty panel. Table which are partition facing will have modesty panel. All Non sharing workstation will have front modesty panel with all metal surfaces being finished with powder coating of approved colour. Bidder to note that table support shall not be rested on storage and shall be independent. Storage unit of 15mm thick machine pressed partition board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors. Colour and Make as approved by the Engineer-in-charge. Size of cluster : 3925mm X3200mm Reference Drawing Number :TCE.11858A-AC-1014-IW-10211	Item 25	1.00	Each			0.00	INR Zero Only
26	<b>Modular Desk Type 2:</b> Providing and fixing modular Linear desking system with each unit of size 2000X1600X600 & 750 (ht)mm Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be low height privacy screen of 8mm thick sandwiched toughened glass of height 400 mm on main spine with 3 nos brackets, metal modesty panels along the aisles and open ends with all metal surfaces being finished with powder coating of approved colour. Storage unit with 15mm thk.machine pressed pre laminated particle board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors as shown in drawing. Bidder to note that table support shall not be rested on storage and shall be independent. Colour and Make as approved by the Engineer-in-charge. Size of cluster : 3925mm X1600mm Reference drawing number :TCE.11858A-AC-1014-IW-10212	Item 26	12.00	Each			0.00	INR Zero Only
27	<b>Modular Desk Type 2 A:</b> Providing and fixing modular Linear desking system with each unit of size 2000X1600X600 & 750 (ht)mm Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be made up of 400 mm high made up of 12mm thick cork mounted over 12mm thick comm.ply on either sides & finished with fabric of approved colour. If Softboard is mounted only on one side then the other side shall be finished with prelaminated particle board. Table which is close to aisle and not having low height storage will have end modesty panel. Table which are partition facing will have modesty panel. All Non sharing workstation will have front modesty panel with all metal surfaces being finished with powder coating of approved colour. Bidder to note that table support shall not be rested on storage and shall be independent. Storage unit of 15mm thick machine pressed partition board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors. Colour and Make as approved by the Engineer-in-charge. Size of cluster : 3925mm X1600mm Reference Drawing Number :TCE.11858A-AC-1014-IW-10213	Item 27	2.00	Each			0.00	INR Zero Only
28	<b>Modular Desk Type 3:</b> Providing and fixing modular Linear desking system of each unit of size 2000X1600X600 & 750 (ht)mm Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be low height privacy screen of 8mm thick sandwiched toughened glass of height 400 mm on main spine with 3 nos brackets, metal modesty panels along the aisles and open ends with all metal surfaces being finished with powder coating of approved colour. Storage unit with 15mm thk.machine pressed pre laminated particle board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors as shown in drawing. Bidder to note that table support shall not be rested on storage and shall be independent. Colour and Make as approved by the Engineer-in-charge. Size of cluster : 2000mm X1600mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10214	Item 28	179.00	Each			0.00	INR Zero Only
29	<b>Modular Desk Type 3 A:</b> Providing and fixing modular Linear desking system with each unit of size 2000X1600X600 & 750 (ht)mm Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be made up of 400 mm high made up of 12mm thick cork mounted over 12mm thick comm.ply on either sides & finished with fabric of approved colour. If Softboard is mounted only on one side then the other side shall be finished with prelaminated particle board. Table which is close to aisle and not having low height storage will have end modesty panel. Table which are partition facing will have modesty panel. All Non sharing workstation will have front modesty panel with all metal surfaces being finished with powder coating of approved colour. Bidder to note that table support shall not be rested on storage and shall be independent. Storage unit of 15mm thick machine pressed partition board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors. Colour and Make as approved by the Engineer-in-charge. Size of cluster : 2000mm X1600mm Reference Drawing Number :TCE.11858A-AC-1014-IW-10215	Item 29	12.00	Each			0.00	INR Zero Only



Sl. No.	Item Description	Item Code / Make	Quantity(3)	Units	Basic rate per unit (Figures To be entered by the Bidder)	Rate %	Amount inclusive of GST	Amount in word
30	<p><b>Modular Desk Type 4A:</b>  Providing and fixing modular Linear desking system of mentioned size (1835x675+1325x675) &amp; 750 mm high  Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be made up of 400 mm high made up of 12mm thick cork mounted over 12mm thick comm.ply on either sides &amp; finished with fabric of approved colour. If Softboard is mounted only on one side then the other side shall be finished with prelaminated particle board. Table which is close to aisle and not having low height storage will have end modesty panel. Table which are partition facing will have modesty panel. All Non sharing workstation will have front modesty panel with all metal surfaces being finished with powder coating of approved colour.  Bidder to note that table support shall not be rested on storage and shall be independent. Storage unit of 15mm thick machine pressed partition board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big) with rubber protectors. Colour and Make as approved by the Engineer-in -charge.  Size of cluster : (1835x675+1325x675) &amp; 750 mm  Reference Drawing Number :ICE.11858A-AC-1014-IW-10216</p>	Item 30	1.00	Each			0.00	INR Zero Only

Sl. No.	Item Description	Item Code / Make	Quantity(3)	Units	Basic rate per unit (Figures To be entered by the Bidder)	Rate %	Amount inclusive of GST	Amount in word
31	<b>Modular Desk Type 5:</b> Providing and fixing modular Linear desking system with each unit of size 2000X1600X600 & 750 (ht) Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be low height privacy screen of 8mm thick sandwiched toughened glass of height 400 mm on main spine with 3 nos brackets, metal modesty panels along the aisles and open ends with all metal surfaces being finished with powder coating of approved colour. Storage unit with 15mm thk.machine pressed pre laminated particle board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors as shown in drawing. Bidder to note that table support shall not be rested on storage and shall be independent. Colour and Make as approved by the Engineer-in -charge. Size of cluster : 3118x2000mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10217	Item 31	14.00	Each			0.00	INR Zero Only
32	<b>Modular Desk Type 6:</b> Providing and fixing modular Linear desking system of each unit of size 2000X1600X600 & 750 (ht)mm Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be low height privacy screen of 8mm thick sandwiched toughened glass of height 400 mm on main spine with 3 nos brackets, metal modesty panels along the aisles and open ends with all metal surfaces being finished with powder coating of approved colour. Storage unit with 15mm thk.machine pressed pre laminated particle board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors as shown in drawing. Bidder to note that table support shall not be rested on storage and shall be independent. Colour and Make as approved by the Engineer-in -charge. Size of cluster : 3125mm X3925mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10218	Item 32	7.00	Each			0.00	INR Zero Only
33	<b>Modular Desk Type 7:</b> Providing and fixing modular Linear desking system of each unit of size 2000X1600X600 & 750 (ht)mm Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be low height privacy screen of 8mm thick sandwiched toughened glass of height 400 mm on main spine with 3 nos brackets, metal modesty panels along the aisles and open ends with all metal surfaces being finished with powder coating of approved colour. Storage unit with 15mm thk.machine pressed pre laminated particle board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors as shown in drawing. Bidder to note that table support shall not be rested on storage and shall be independent. Colour and Make as approved by the Engineer-in -charge. Size of cluster : 3125mm X4000mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10219	Item 33	2.00	Each			0.00	INR Zero Only
34	<b>Modular Desk Type 8:</b> Providing and fixing modular Linear desking system of size 2525X1925X600 & 750 (ht)mm Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be low height privacy screen of 8mm thick sandwiched toughened glass of height 400 mm on main spine with 3 nos brackets, metal modesty panels along the aisles and open ends with all metal surfaces being finished with powder coating of approved colour. Storage unit with 15mm thk.machine pressed pre laminated particle board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors as shown in drawing. Bidder to note that table support shall not be rested on storage and shall be independent. Colour and Make as approved by the Engineer-in -charge. Size of cluster : 2525mmX1925mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10220	Item 34	1.00	Each			0.00	INR Zero Only
35	<b>Modular Desk Type 9:</b> Providing and fixing modular Linear desking system of size 1195X1600X600 & 750 (ht)mm Table Top - 25 mm thick machine pressed Pre Laminated particle board with 2mm thick PVC edge lipping on all exposed sides, Support - powder coated leg with Supporting MS cross Beam. It shall have vertical and horizontal wire management system with openings for sockets to access the power and data sockets connection for easy access. There shall be separator for data and voice cabling and raceway and 50mm grommet matching the table top colour. Table front and side separator partition shall be low height privacy screen of 8mm thick sandwiched toughened glass of height 400 mm on main spine with 3 nos brackets, metal modesty panels along the aisles and open ends with all metal surfaces being finished with powder coating of approved colour. Storage unit with 15mm thk.machine pressed pre laminated particle board with 2 drawers along with locking system and drawer channels, recessed handles and supporting accessories (top one small and bottom one big ) with rubber protectors as shown in drawing. Bidder to note that table support shall not be rested on storage and shall be independent. Colour and Make as approved by the Engineer-in -charge. Size of cluster : 1195mmX1600 mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10221	Item 35	1.00	Each			0.00	INR Zero Only
36	<b>Linear Table Type 1</b> Providing and fixing factorymade 25mm thick machine pressed prelaminated particle board table top with vertical and horizontal wire management system and 50mm grommet matching the table top colour with openings for sockets to access the power and data sockets connection for easy access, secured with 2mm thick PVC edge binding supported by powdercoated metal support system with modesty panel at the sides and footrest as per required angle, Color and Make as per the approval of the Engineer-in -charge. Size : 1500mm X600mmX 750mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10222	Item 36	14.00	Each			0.00	INR Zero Only
37	<b>Linear Table Type 2</b> Providing and fixing factorymade 25mm thick machine pressed prelaminated particle board table top with vertical and horizontal wire management system and 50mm grommet matching the table top colour with openings for sockets to access the power and data sockets connection for easy access, secured with 2mm thick PVC edge binding supported by powdercoated metal support system with modesty panel at the sides and footrest as per required angle, Color and Make as per the approval of the Engineer-in -charge. Size : 1800mm X 600mmX 750mm + 600mmx300mmx750mm Reference Drawing Number: TCE.11858A-AC-1014-IW-10223	Item 37	1.00	Each			0.00	INR Zero Only
38	<b>Linear Table Type 3</b> Providing and fixing factorymade 25mm thick machine pressed prelaminated particle board table top with vertical and horizontal wire management system and 50mm grommet matching the table top colour with openings for sockets to access the power and data sockets connection for easy access, secured with 2mm thick PVC edge binding supported by powdercoated metal support system with modesty panel at the sides and footrest as per required angle, Color and Make as per the approval of the Engineer-in -charge. Size : 1700mm X 600mmX 750mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10224	Item 38	1.00	Each			0.00	INR Zero Only
39	<b>Linear Workstation- Type 4</b> Providing and fixing factory workstation each of size of 900mmX 650 mmX 750mm made 25mm thk. Pre laminated machine pressed particle board table top secured by 2mm thick PVC edge lipping with with vertical and horizontal wire management system and 50mm grommet matching the table top colour with openings for sockets to access the power and data sockets connection for easy access and 8mm thick sandwiched toughened glass at the centre of two workstations fixed with two brackets at the table top supported by powder coated metal units with footrest of required angle and modesty panel between two workstations and the workstation on the aisle side. Color Make as approved by Engineer-in -charge. Size of cluster : 900mm x1300mm X750mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10225	Item 39	8.00	Each			0.00	INR Zero Only
40	<b>Linear Workstation- Type 5</b> Providing and fixing factory workstation each of size of 900mmX 650 mmX 750mm made 25mm thk. Pre laminated machine pressed particle board table top secured by 2mm thick PVC edge lipping with with vertical and horizontal wire management system and 50mm grommet matching the table top colour with openings for sockets to access the power and data sockets connection for easy access and 8mm thick sandwiched toughened glass at the centre of two workstations at the table top supported by powder coated metal units with footrest of required angle and modesty panel at side which is facing the aisle. Color Make as approved by Engineer-in -charge. Size : 900mm X 650mmX 750mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10226	Item 40	3.00	Each			0.00	INR Zero Only

Sl. No.	Item Description	Item Code / Make	Quantity(3)	Units	Basic rate per unit ( Figures To be entered by the Bidder)	Rate %	Amount inclusive of GST	Amount in word
41	<b>Linear Workstation- Type 5A</b> Providing and fixing factory workstation each of size of 900mmX 650 mmX750mm made 25mm thk. Pre laminated machine pressed particle board table top secured by 2mm thick PVC edge lipping with vertical and horizontal wire management system and 50mm grommet matching the table top colour with openings for sockets to access the power and data sockets connection for easy access, supported by powder coated metal units with footrest of required angle and modesty panel at side which is facing the aisle. Color Make as approved by Engineer-in -charge. Size : 900mm X 650mmX 750mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10226	Item 41	42.00	Each			0.00	INR Zero Only
42	<b>Linear workstation -Type 6</b> Providing and fixing factory made each unit measuring 1200mm X 600mmX750mm, 25mm thk. machine pressed Pre laminated particle board table top secured by 2mm thick PVC edge lipping with vertical and horizontal wire management system and 50mm grommet matching the table top colour with openings for sockets to access the power and data sockets connection for easy access with low height privacy screen of 8mm thick sandwiched toughened glass of height 400 mm on main spine with 3 nos brackets supported by powder coated metal units with footrest of required angle and modesty panel at side and centre. Color Make as approved by Engineer-in -charge. Cluster Size: (1200x1200x750mm) Reference Drawing Number : TCE.11858A-AC-1014-IW-10227	Item 42	248.00	Each			0.00	INR Zero Only
43	<b>Tall Storage Cabinet</b> Providing and fixing factorymade storage cabinet of 25mm thick prelaminated machine pressed particle boards secured with 2mm thick PVC edge lipping with four numbers of horizontal units with 8mm thick glass shutters with magnetic catches and glass door SS Hinge Overlay at the top portion and Four prelaminated shutters for the storage (750mm height) at the bottom with locking facility, SS handles, Soft-Close Concealed Hinges and supporting accessories, executed as per the drawings provided. Color Make as approved by Engineer-in -charge. Refer Tender document for reference image. Storage Unit size L-1500mm, D-450mm, H-2100 mm) Reference Drawing Number TCE.11858A-AC-1014-IW-10232	Item 43	68.00	Each			0.00	INR Zero Only
44	<b>Filing cabinet :</b> Providing and fixing factorymade machine pressed prelaminated particle board storage cabinet and middle support made up of 25mm thick machine pressed prelaminated particle board and 18mm thk four number of shutters with locking facility, SS handles, Soft-Close Concealed Hinges and supporting accessories. 450mm high intermediate shelves all in 18mm thickness particle board. Color Make as approved by Engineer-in -charge. Refer Tender document for reference image. Storage Unit size W-2950mm,D-450mm, H- 2100mm) Reference Drawing Number :TCE.11858A-AC-1014-IW-10233	Item 44	1.00	Each			0.00	INR Zero Only
45	<b>Low height Storage cabinet</b> Providing and fixing factory made storage unit with 25mm thk. machine pressed pre laminated particle board top with 2mm thick PVC lipping with two units each consist of one horizontal divisions with two shutters and recessed handles, Soft-Close concealed Hinges, wire manager and supporting accessories.The entire unit is supported by four castors which will help the unit for easy movement, executed as per the drawings provided. Color Make as approved by Engineer-in -charge. Refer Tender document for reference image. Size: 1500mm X 450mm X800 mm Reference Drawing Number TCE.11858A-AC-1014-IW-10230	Item 45	14.00	Each			0.00	INR Zero Only
46	<b>TV unit-In Conference room 40 Fax</b> Providing and fixing factory made TV unit with 25mm thk. machine pressed pre laminated commercial plywood top with 2mm thick PVC lipping with four units with four shutters bifurcated by a vertical separator. Each consist of two horizontal divisions each accessoried by recessed handles, Soft-Close concealed hinges, wire manager, supporting accessories and castors for easy movement. Color, Make and design as approved by Engineer-in -charge. Refer Tender document for reference image. Size: 2700mm X 450mm X800 mm Reference Drawing No: TCE.11858A-AC-1014-IW-10231	Item 46	1.00	Each			0.00	INR Zero Only
47	<b>Over Head Book Shelf:Type-1</b> Providing and fixing factory made over head book shelf with 25mm thk. machine pressed pre laminated particle board structure with one horizontal division of intermediate shelves with 18mm thk particle board with laminate at sides, and equal vertical divisions supported by vertical units with 8mm thick glass shutters with magnetic catches and glass door SS Hinge with satin finish Overlay at the top portion secured with locking facility, executed as per the drawings provided. Color Make as approved by Engineer-in -charge. Size: 1800mm X 450mm X600 mm Reference Drawing Number :TCE.11858A-AC-1014-IW-10237(SHEET 1 OF 2)	Item 47	2.00	Each			0.00	INR Zero Only
48	<b>Over Head Book Shelf:Type-2</b> Providing and fixing factory made over head book shelf with 25mm thk. machine pressed pre laminated particle board structure with one horizontal division of intermediate shelves with 18mm thk particle board with laminate at sides, and equal vertical divisions supported by vertical units with 8mm thick glass shutters with magnetic catches and glass door SS Hinge with satin finish Overlay at the top portion secured with locking facility, executed as per the drawings provided. Color Make as approved by Engineer-in -charge. Size: 7250mm X 450mm X600 mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10237(SHEET 2 OF 2)	Item 48	2.00	Each			0.00	INR Zero Only
49	<b>Over Head Book Shelf:Type-3</b> Providing and fixing factory made over head book shelf with 25mm thk. machine pressed pre laminated particle board structure with one horizontal division of intermediate shelves with 18mm thk particle board with laminate at sides, and equal vertical divisions supported by vertical units with 8mm thick glass shutters with magnetic catches and glass door SS Hinge with satin finish Overlay at the top portion secured with locking facility, executed as per the drawings provided. Color Make as approved by Engineer-in -charge. Size: 2200mmX 450mm X600mm+ 725mmX450mm X600mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10237(SHEET 2 OF 2)	Item 49	1.00	Each			0.00	INR Zero Only
50	<b>Over Head Book Shelf:Type-4</b> Providing and fixing factory made over head book shelf with 25mm thk. machine pressed pre laminated particle board structure with one horizontal division and equal vertical divisions supported by vertical units with 8mm thick glass shutters with magnetic catches and glass door SS Hinge Overlay at the top portion secured with locking facility, executed as per the drawings provided. Color Make as approved by Engineer-in -charge. Size: 5700 X 450mm X600 mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10237 (SHEET 1 OF 2)	Item 50	3.00	Each			0.00	INR Zero Only
51	<b>Over Head Book Shelf:Type-5</b> Providing and fixing factory made over head book shelf with 25mm thk. machine pressed pre laminated particle board structure with one horizontal division and equal vertical divisions supported by vertical units with 8mm thick glass shutters with magnetic catches and glass door SS Hinge Overlay at the top portion secured with locking facility, executed as per the drawings provided. Color Make as approved by Engineer-in -charge. Size: 6300X 450mm X600 mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10237 (SHEET 1 OF 2)	Item 51	1.00	Each			0.00	INR Zero Only
52	<b>Book Storage:Type-1</b> Providing and fixing factorymade machine pressed prelaminated particle board book shelf with 10 shutters with 4 verticals of 25mm thick machine pressed prelaminated particle board. Shutters with 8 mm thk toughened glass attached to the prelaminated particle board frame with locking facility, SS handles, Soft-Close Concealed Hinges and supporting accessories, 6 equal horizontal divisions of 18mm thickness particle board. Color Make as approved by Engineer-in -charge. Size : 3000mmX 600mmX 2100mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10238(SHEET 1 OF 2)	Item 52	1.00	Each			0.00	INR Zero Only
53	<b>Book Storage:Type-2</b> Providing and fixing factorymade machine pressed prelaminated particle board book shelf with 10 shutters with 4 verticals of 25mm thick machine pressed prelaminated particle board. Shutters with 8 mm thk toughened glass attached to the prelaminated particle board frame with locking facility, SS handles, Soft-Close Concealed Hinges and supporting accessories, 6 equal horizontal divisions of 18mm thickness particle board. Color Make as approved by Engineer-in -charge. Size : 2700mmX 600mmX 2100mm Reference Drawing Number : TCE.11858A-AC-1014-IW-10238(SHEET 2 OF 2)	Item 53	1.00	Each			0.00	INR Zero Only
54	<b>Over Head Unit 1-Canteen area</b> Providing and fixing factory made over head unit with prelaminated machine pressed heat & moisture resistance base made up of 25mm thick prelaminated board at top and sides, 14mm thick with single side laminated at back with intermediate support and shutters of 15mm thick secured with PVC edge binding supported with recessed door, soft close concealed hinges and supporting accessories indicated as per drawings .colour and Make as approved by the Engineer-in -charge. Full Unit size: 7635mmX350mmX750mm Reference Drawing No : TCE.11858A-AC-1014-IW-10234	Item 54	1.00	Each			0.00	INR Zero Only

Sl. No.	Item Description	Item Code / Make	Quantity(3)	Units	Basic rate per unit (Figures To be entered by the Bidder)	Rate %	Amount inclusive of GST	Amount in word
55	<b>Over Head Unit 2</b> Providing and fixing factory made over head unit with prelaminated machine pressed heat & moisture resistance base made up of 25mm thick prelaminated board at top and sides, 14mm thick with single side laminated at back with intermediate support and shutters of 15mm thick secured with PVC edge binding supported with recessed door, soft close concealed hinges and supporting accessories indicated as per drawings. colour and Make as approved by the Engineer-in-charge. Size : 4950mm X 350mm X 600mm Reference drawing number : TCE.11858A-AC-1014-IW-10234	Item 55	1.00	Each			0.00	INR Zero Only
56	<b>Base Unit Type 1 (Canteen Area)</b> Providing and fixing base unit below granite counter top with 25 thk moisture resistant prelaminated ply on the underside with moisture proof carcasses at two levels at 1050 mm and 800 mm respectively, 18 mm moisture resistant prelaminated ply on the front side and shorter side 18mm thk prelaminated ply of vertical support between the storage and 18mm thick machine pressed prelaminated ply of horizontal shutter with 2mm thk PVC edge lipping supported with recessed door, soft close concealed hinges and supporting accessories indicated as per drawings. Number of shutters and horizontal partitions shall be as per the drawings provided by the Engineer-in-charge. Full Unit size: 6670mmX600mmX1050mm Note: Granite top is executed in the civil package. Reference Drawing No : TCE.11858A-AC-1014-IW-10235	Item 56	1.00	Each			0.00	INR Zero Only
57	<b>Base Unit Type 2</b> Providing and fixing base unit below granite counter top with 25 thk moisture resistant prelaminated ply on the underside with moisture proof carcasses, 11mm moisture resistant prelaminated ply on the rear side (Ply on one side), 18 mm moisture resistant prelaminated ply on the front side and shorter side(Ply on both sides)18mm thk prelaminated ply of vertical support between the storage and 18mm thick machine pressed prelaminated ply of horizontal shutter with 2mm thk PVC edge lipping supported with recessed door, soft close concealed hinges and supporting accessories indicated as per drawings. Number of shutters and horizontal partitions shall be as per the drawings provided by the Engineer-in-charge. Full Unit size: (7640x600 +1370x600)x 750mm Note: Granite top is executed in the civil package. Reference Drawing No : TCE.11858A-AC-1014-IW-10235	Item 57	1.00	Each			0.00	INR Zero Only
58	<b>Base Unit type 3</b> Providing and fixing base unit below granite counter top with 25 thk moisture resistant prelaminated ply on the underside with moisture proof carcasses, 11mm moisture resistant prelaminated ply on the rear side (Ply on one side), 18 mm moisture resistant prelaminated ply on the front side and shorter side(Ply on both sides)18mm thk prelaminated ply of vertical support between the storage and 18mm thick machine pressed prelaminated ply of horizontal shutter with 2mm thk PVC edge lipping supported with recessed door, soft close concealed hinges and supporting accessories indicated as per drawings. Number of shutters and horizontal partitions shall be as per the drawings provided by the Engineer-in-charge. Full Unit size: 3350mmx600mmx 750mm Note: Granite top is executed in the civil package. Reference Drawing Number : TCE.11858A-AC-1014-IW-10236	Item 58	4.00	Each			0.00	INR Zero Only
59	<b>Lockers:</b> Providing lockers of size 1500mm X 2000mmX450mm, each unit with 500mmX 500mmX450mm mild cold rolled steel, free from imperfections with powder coat finish, each locker shall have an individual door and frame, an individual top, bottom, back and shelves with common intermediate uprights separating units with separate doors ventilated by louvers on the face of each door with handle, locking system, number plate, master key and supporting hinges. Refer Tender document for reference image. Reference Drawing Number : TCE.11858A-AC-1014-IW-10239	Item 59	50.00	Each			0.00	INR Zero Only
60	<b>Soft Board / Pin Board</b> Providing and fixing factory finished soft boards with wooden edge lipping. The 12mm thick soft board shall be fixed on 12mm thick exterior grade MDF backed cork sheet. The soft board is finally finished in fabric with 3mm thick foam backing and fixed, the soft board shall be held with proprietary gripper as per the manufactures specification adhering to the design intent drawings. Size:900mm X 1200mm.	Item 61	71.00	Each			0.00	INR Zero Only
61	<b>Writing board -Type 1</b> 6 mm thick wall mounted toughned glass with the highest resistance to ink stains, pen marks, scratches and dents backpainted with white paint and magnetic backing frameless design fixed with SS satin finished stand off fixing/direct fixing hardware with removable pen tray mounted with ss accessories. Refer Tender document for reference image. Size: 1500mm X 900mm	Item 62	68.00	Each			0.00	INR Zero Only
62	<b>Writing board Type 2</b> 6 mm thick wall mounted toughned glass with the highest resistance to ink stains, pen marks, scratches and dents backpainted with white paint and magnetic backing frameless design fixed with SS satin finished stand off fixing/direct fixing hardware with removable pen tray mounted with ss accessories. Refer Tender document for reference image. Size: 2000mm X 900mm	Item 63	8.00	Each			0.00	INR Zero Only
<b>Total in Figures</b>							0.00	
<b>Quoted Rate in Words</b>							<b>INR Zero Only</b>	