

Request for Proposal

For

“Turnkey work of development of 2 Laboratories for Environment Wing & Solar Wing of GERMI including purchase of Furniture, Electrical Work, Networking Work, Civil Work, Plumbing Work and other miscellaneous work at GERMI Gandhinagar Office”

Issued on – 17-12-2019

Pre-Bid Meeting on – 23-12-2019

Last Date for Submission of the Bid – 02-01-2020



**GUJARAT ENERGY RESEARCH & MANAGEMENT
INSTITUTE**

Energy Building,
Pandit Deendayal Petroleum University Campus
Raisan Village, Gandhinagar - 382007.

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SECTION-I: INVITATION FOR BID

1. Background

Gujarat Energy Research & Management Institute (hereinafter referred to as "GERMI"), is promoted by Gujarat State Petroleum Corporation Ltd. (GSPC), a fully integrated energy company.

GERMI is a Centre of excellence in industry learning and has been set up to develop human resource assets to cater to the petroleum and allied energy sectors, improve knowledge base of policy makers and technologists and provide a competitive edge to leaders to compete in the global arena. GERMI has already established Pandit Deendayal Petroleum University (PDU) which is actively pursuing initiatives in the areas of education and research in alternative energy resources. GERMI is in process of developing the Laboratories for Environment Wing & Solar Wing at its office in PDU Campus, Raisan Office, Gandhinagar.

2. Brief Scope of Work

Bidders shall carry out following works defined in RFP documents.

- a) Furniture for Environment Lab.
- b) Glass Partition, Civil Work, Plumbing Work & Other Misc. Work for Environment Lab.
- c) PP+FRP Duct for Environment Lab
- d) Furniture for Solar Lab.
- e) Glass Partition, Civil Work, Plumbing Work & Other Misc. Work for Solar Lab.
- f) PP+FRP Duct for Solar Lab

Further the Contractor shall, unless specifically excluded in the Contract, perform all such work and/or supply all such Goods not specifically mentioned in the Contract but that can be reasonably inferred from the Contract for satisfactory performance of the Scope of Work under the Contract as if performance of such Work and/or supply of Goods were expressly mentioned in the Contract.

3. Completion Schedule

The Work shall be completed in all respect as per RFP documents within period of 45 days from the date of issuance of LOI / Work Order.

4. Pre-Bid Meeting

The Pre-bid meeting shall be held **on 23-12-2019** at 12.00 Hrs. on following address

Gujarat Energy Research & Management Institute

1st Floor, Energy Building, PDPU Campus,
Raisan village, Gandhinagar,
Gujarat-382 007

5. General

For any clarifications on Bid documents/ procedures & pre-bid clarifications please contact following persons:

Mr. Jaimin Patel / Mr. Nilesh Patel / Dr. Abdul Rasheed

Gujarat Energy Research & Management Institute
1st Floor, Energy Building, PDPU Campus,
Raisan village, Gandhinagar,
Gujarat-382 007

Email IDs – jaimin.p@germi.res.in
nilesh.patel@germi.res.in

SECTION-II BID SECURITY (ERNEST MONEY DEPOSIT) & SALIENT FEATURES & PROCEDURE

1	Tender No	GERMI/ENM/2019/05
2	Name of work	Turnkey work of development of 2 Laboratories for Environment Wing & Solar Wing of GERMI including purchase of Furniture, Electrical Work, Networking Wok, Civil Work, Plumbing Work and other miscellaneous work a GERMI Gandhinagar Office
3	Place of work	Gujarat Energy Research and Management Institute GERMI building, PDPU Campus, Raisan, Gandhinagar, Gujarat — 382007, INDIA
4	Bid Security cum	Rs. 33,000 (Rupees Thirty Three Thousand only) in the form of Demand Draft in favour of Gujarat Energy Research and Management Institute, Gandhinagar
5	Performance Guarantee	10 % of the order value of the contract (Performance Bank Guarantee)
6	Time Period of Supply	Within 45 Days from the date of issue of Work Order / LOI
7	Last date of receipt of Tender document	Up to 02-01-2020 up to 1500 hrs
8	Pre-Bid Meeting	On 23-12-2019 at 1200 hrs.
9	Date and time of opening of Bid	On 02-01-2020 at 1600 Hrs for technical bids only, price bid will be opened for qualified technical bidders and will be intimated subsequently / later on after necessary procedure and evaluation of technical bids, if any changes will be intimated to the bidders.
10	Office where Bid is to be opened	Gujarat Energy Research & Management Institute Energy Building, PDPU Campus, Raisan, Gandhinagar - 382 007, Gujarat.

SECTION-III: INSTRUCTIONS TO BIDDERS (ITB)

6. Tender documents

6.1 The Tender documents consists of the following —

- i. Invitation For Bid
- ii. Bid Security (Ernest Money Deposit) & Salient Features & Procedure
- iii. Instructions to Bidders
- iv. Terms and Conditions of the Tender
- v. Detailed Scope of Work
- vi. Forms & Procedures
- vii. Price Bid Format (SOR)

The bidder(s) is/ are expected to examine all instructions, forms and terms & conditions contained in the Tender document. Failure to furnish all information required as per the Tender document or submission of bid not substantially responsive to the Tender documents in every respect will be at the bidders' risk and may result in rejection of the bid.

7. Documents / Certificates

7.1 The bidders are required to submit technical bid enclosing therewith photocopies of following documents, failing which their bids will be summarily rejected and will not be considered any further:

- I. Registration Certificate as per existing norms (indicating the legal status — company/partnership firm/proprietorship concern, agency etc.)
- II. Copy of CST/VAT/TIN/ST/GST Registration Certificates;
- III. Copy of PAN Card;
- IV. Copies of Income Tax Return filed for last three financial years (FY 2018-19, FY 2017-18 & FY 2016-17)
- v. Copies of audited A/c Statements i.e. Balance sheets and Profit & Loss A/c for last three financial years (FY 2018-19, FY 2017-18 & FY 2016-17)
- VI. Copy of the Documents Required in Pre-Qualification Criteria as mentioned in the Clause No. 12
- VII. Bid Form as per SECTION-VII.

8. Clarification on Tender Documents

8.1 A prospective bidder requiring any clarification on the Tender Documents may notify the Commercial Department, GERMI in writing or by e-mail at the mailing address jaimin.p@germi.res.in / nilesh.patel@germi.res.in Such requests for clarifications should be sent not later than seven days prior to original or extended deadline for submission of the bids.

8.2 Explanation of the query but without identifying the source of the inquiry will be

uploaded on to GERMI website www.germi.org for the benefit of all the prospective bidders or will be intimated individually to the concerned bidder if found specific to the bidder.

- 8.3** Any clarification issued by the GERMI in response to query raised by prospective bidders shall form an integral part of this Tender document and it may amount to amendment of relevant clauses of the Tender document.

9. Amendment of Tender Documents

- 9.1** At any time prior to the dead line for submission of bids, the GERMI may for any reason, whether at its own initiative or in response to a clarification requested by the prospective bidder, modify the Tender Documents by amendment. The amendment will be uploaded on to GERMI website www.germi.org.in for the benefit of all the prospective bidders.
- 9.2** In order to give prospective bidders reasonable time for taking an amendment into account in preparing their bids, the GERMI Management may, at his discretion, extend the deadline for the submission of bids.

10. Rejection of incomplete and conditional tenders

- 10.1** The incomplete and conditional tenders will be rejected. Quoting unrealistic rates will be treated as disqualification.

11. Non transferability

- 11.1** This tender is non-transferable.

12. Minimum eligibility criteria

Bidder(s) should

- 12.1** Have an average annual turnover of Rs.66 Lacs and above, during the last three financial years. Agency should submit full Audited Annual Reports of the past 3 years (FY 2018-19, FY 2017-18, FY 2016-17)-**Supporting Documents Required - CA certified Copy of the last three years (i.e. FY 2018-19, FY 2017-18, FY 2016-17) audited financial statements or Audited Balance Sheet along with CA Certified Statement.**
- 12.2** Bidder should have positive net-worth as per last audited balance sheet ending on 31.03.19 Note: Net-worth for this purpose shall be (share capital + reserve & surplus) – (miscellaneous income + revaluation reserve) - **Supporting Documents Required - CA Certified and Audited Balance Sheet of last year ending on 31.03.19**

12.3 Bidder should have experience of providing such services since minimum last 5 years. It is compulsory to produce necessary certificate (work orders) along with the bid, failure to provide will lead to the rejection of the bids. – **Supporting Documents - Copy of Purchase Order & Completion Certificate**

12.4 Bidder should have experience of successful execution of 1 similar project having Supply/Service with at least One Work Order for providing similar work having value of Rs.33 Lacs during last 3 years ending on tender floating date - **Supporting Documents - Copy of Purchase Order & Completion Certificate**

12.5 Bidder shall not be blacklisted / banned / disqualified / declared ineligible / declared having dissatisfactory performance by any government / quasi-government authority in India for supply of materials / carrying out operations and maintenance work - **Supporting Document An undertaking by an authorized signatory of the company needs to be submitted in this regard.**

NOTE:

1. Bidders not fulfilling the above threshold criteria will not be entitled for evaluation and proposal (bid) will be out-rightly rejected.
2. Joint Ventures [JV's], Consortium or Associations shall not be permitted.
3. In submission, if any fake or fabricated documents are found, such kind of bids shall be rejected and in such cases Earnest Money Deposit of the bidder will be forfeited.
4. GERMI reserves the rights to cancel and or change the bidding process at any stage without assigning any reason. GERMI also reserves the right to reject any or all of the Bids received at its discretion, without assigning any reasons whatsoever.

12.6 However, it is informed that mere fulfilment of minimum eligibility criteria does not entitle the firm to demand that their financial bid be evaluated.

12.7 Any relaxation in the eligibility criteria shall be at the discretion of GERMI Management.

13. Cost of Bidding

13.1 The Bidder shall bear all costs associated with the preparation and submission of its bid pursuant to these bidding documents and Owner shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process

14. Language of Bid

14.1 The bid prepared by the bidders and all correspondence and documents relating to the bid exchanged by the bidder with the GERMI shall be written in English only.

15. One Bid per Bidder

- 15.1** A bidder shall submit only one bid in the same bidding process. A bidder who submits or participates in more than one bid will cause all the proposals, in which the bidder has participated to be disqualified.
- 15.2** Unless otherwise specified in the RFP, alternative bids shall not be considered.

16. Documents comprising the bid

The bids prepared by the bidder shall comprise of (i) Bid Security Fees (ii) technical bid and (iii) the financial bid.

- i. Bid Security Fees in accordance with Clause No.18
- ii. The technical bid should be sealed in a separate cover and super scribed "**Technical bid for Turnkey work of development Laboratories for Environment Wing & Solar Wing of GERMI**". All the information/ documents sought should be provided with the technical bid. The documents / information sought should be in the same serial order as given in the technical bid.
- iii. The financial bid shall specify the rates / prices in the format shown in the financial bid/price schedule (Schedule-VII).

N.B. All the documents submitted in the bid must be legible and self-attested, Otherwise the bid is likely to be rejected.

17. Bid Prices

- 17.1** The rates/ prices should be quoted in Indian Rupees only in words as well as figures. Any kind of taxes or charges as applicable should be quoted separately. If these levies are included in the price quoted without giving the break up details such bids will summarily be rejected.
- 17.2** Only one price should be quoted and if more than one price is quoted under different options the rate quoted by him in the first option only will be valid and considered for evaluation.

18. Bid Security (EMD)

- 18.1** Bid Security of Rs.33,000 in the form of demand draft from any scheduled bank drawn in favour of "**Gujarat Energy Research and Management Institute**" payable at Gandhinagar shall accompany the bid.
- 18.2** Bid Security shall remain valid for a period of **90 days**.

- 18.3** A bid received without it shall be rejected as non-responsive at the bid opening stage and returned to the bidder unopened.
- 18.4** Bid Security for lesser amount / not submitted in the manner prescribed will be rejected and returned to the bidder.
- 18.5** The Bid security of the unsuccessful bidder will be discharged / returned to them within **30 days** after finalization and award of the contract without any interest.
- 18.6** The bid security may be forfeited:
- i. If a bidder withdraws his bid during period of bid validity specified in the Tender document
 - ii. In the case of successful bidder, if the bidder fails to:
 - a. Sign the contract or accept the work order
 - b. Furnish the Performance security within the specified time in the document.

19. Signing of the bids

- 19.1** The bid shall be typed or printed. All pages of the Tender document shall be numbered consecutively and shall be signed and stamped by the bidder as proof of having read the contents therein and in acceptance thereof.
- 19.2** All entries in the bid form should be legible and filled clearly. If the space for furnishing information is not sufficient, separate sheet duly signed by the authorized signatory may be attached.
- 19.3** The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the bidder in which case corrections shall be signed by the person / persons signing the bid.

20. Submission of Bid

- 20.1** The bid shall be submitted in accordance with the procedure detailed herein:
- i. Specified documents shall be enclosed in envelope of appropriate size each of which shall be sealed.
 - ii. **Envelope No.1** Shall contain the Bid Security as indicated in clause 18 of these instructions to bidders.
 - iii. **Envelope No.2 Shall** contains all the information and documents in the same serial order as shown in the technical bid. A covering letter also may accompany the technical bid.
 - iv. **Envelope No.3** shall contain the rates / prices of the items duly filled in (schedule of rates) on company's letter head and signed and stamped. The bidder must fill up quoted price against each item in the spaces provided in the respective columns.
N.B. Price should not be indicated in any of the documents enclosed in envelope 1 and / or 2.

- 20.2** All the above envelopes shall bear the Name of the Work as described in the Notice

inviting tenders i.e. **Bid for Turnkey work of development Lab for Environment Wing & Solar Wing of GERMI** along with Tender Number, and shall be sealed in a fourth envelope (fourth envelope also should bear the name of the work as described above along with tender number, due date and time) and addressed to The Director General, Gujarat Energy Research and Management Institute, 1st Floor, GERMI Building, Knowledge Corridor, Raisan, Gandhinagar, Gujarat - 382007 and must reach on time. If the date on which the tender is opened for acceptance is declared to be a holiday, the tenders shall be deemed to remain open for acceptance till the next working day.

20.3 All the envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened, if required.

20.4 The bidder shall seal the bid.

21. Deadline for submission of bids

21.1 Bids must be submitted to the Director General, GERMI on or before the prescribed date and time i.e. on or before 02-01-2020 by 1500 hrs.

21.2 No bids will be received/ accepted after the expiry of the prescribed date and time for submission of the bids.

21.3 GERMI management may, at his discretion, extend the deadline for submission of bids through the issuance of an amendment for the reasons mentioned therein in which case all rights and obligations of the GERMI and the bidders previously subject to the deadlines shall thereafter be subject to the new deadline as extended.

21.4 The responsibility for submission of the bids in time would rest with the bidder.

21.5 Telegraphic / Fax offers will be treated as defective, invalid and rejected. Only detailed complete bids received prior to the closing time and date of the bids will be taken as valid.

21.6 Bids received, if any, by the GERMI after the prescribed deadline/extended deadline for submission will be returned unopened to the bidder.

22. Modification and withdrawal of bids

22.1 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity.

22.2 No bid may be substituted in the interval between the deadline for submission of bids and the expiration of the period of bid validity.

22.3 A Bidder shall not modify a bid subsequent to its submission. No Bidder shall submit any modified price bid subsequent to the submission of the bid, except in circumstances specified by Owner in this regard in this document or expressly called by Owner. Any such revision of technical bid and price bids without Owner requesting the Bidder to do so will be summarily rejected and not considered in the bid evaluation.

23. Bid Opening and Evaluation

23.1 Envelop No.1 containing the bid security shall be opened by the Committee **at 5.00 P.M on the last date for submission of the bids** in the presence of the bidders or their representatives duly authorized by the bidder who wish to be present. If the Bid Security is not found as prescribed the bid shall be summarily rejected.

23.2 Envelop No. 2 containing the technical bid shall then be opened. Bids shall be numbered serially. The bidder's names, documents submitted/ not submitted and such other details as the Committee, at its discretion may consider appropriate shall be announced at the bid opening.

23.3 The Technical Committee shall examine/ evaluate the technical bids to determine whether they (i) fulfill the eligibility criteria, (ii) submitted the requisite documents (iii) meet the terms and conditions specified, (iv) complied with all the instructions contained therein, etc. **For the purpose of this clause a substantially responsive bid is one which conforms to all the terms and conditions of the Tender document without material deviation.**

23.4 The **financial bids** of technically qualified bidders only will be recommended for opening and consideration by the empowered Committee. The said Committee will evaluate the bids to determine whether (i) they are complete; (ii) the requisite bid securities have been furnished; (iii) the bids have been properly signed and stamped; and (iv) the bids are generally in order.

23.5 Envelop No.3: Containing the sealed price bid of bidders whose bid is found to be generally in order and substantially responsive shall be opened at a subsequent date (after completion of the analysis of the technical bids and recommendations thereof) to be intimated in advance to such eligible bidders.

23.6 Only summary of prices quoted by the bidders will be read out.

24. Process to be confidential

24.1 After the public opening of bids, information relating to the examination, clarification, evaluation and comparisons of bids and recommendations concerning the award of contract shall not be disclosed to bidders or other persons not officially concerned with such process.

24.2 Any effort by the bidder to influence the GERMI in the process of examination, clarification, evaluation and comparison of bids and decision concerning award of

contract may result in the rejection of the bidder's bid.

25. Clarification of Bids

25.1 GERMI, if necessary, will obtain clarification on the bid by requesting for such information/clarifications from any or all Bidders, either in writing or through personal contact, as may be necessary, and the bidders are advised to refrain from contacting by any means GERMI and / or their employees / representatives on their own, on matters related to bids under consideration. Bidders will not be permitted to change the substance of Bids after opening of Bids.

26. Determination of Eligibility & Responsiveness

26.1 The empowered Committee will determine whether the bid is substantially responsive to the requirements of the Tender documents. For the purpose of this clause, a substantially responsive bid is one which conforms to all the terms & conditions and specifications of the Tender documents without any deviation or reservation.

26.2 A bid which in relation to the cost estimates of the empowered Committee is unrealistically priced and which cannot be substantiated satisfactorily by the bidder may be rejected as non-responsive.

27. Evaluation and Comparison of Bids

27.1 Owner shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.

27.2 Bidders shall note that no preference of any nature will be given to any Bidder notwithstanding any custom, usage or instructions to the contrary.

27.3 Bids shall be evaluated on the basis of net cost to owner.

28. Technical evaluation

28.1 GERMI shall evaluate the technical bids to determine whether they are complete, whether documents have been furnished, properly signed and whether the bids are generally in order.

28.2 Prior to financial evaluation, the GERMI will determine the substantial responsiveness of each bid to the Tender document. For the purpose of this clause, a substantially responsive bid is one which conforms to all the terms, conditions and specifications of the Tender documents without any deviation or reservation. The determination of

bid's responsiveness shall be based on the contents of the bid itself without recourse to extrinsic evidence.

28.3 A bid determined as substantially non responsive will be rejected by the GERMI and shall not subsequent to the bid opening be made responsive by the bidder by correction of the non-conformity.

29. Financial evaluation and comparison of substantially responsive technical bids

29.1 The GERMI shall shortlist those who are eligible and submitted substantially responsive technical bids for opening of financial bid. Successful bidders would be called to attend opening of financial bids. **The financial bids of unsuccessful bidders would not be opened.**

29.2 Bids determined to be substantially responsive will be checked for any arithmetical errors in computation and summation. Errors will be dealt as follows:

- i. Where there is discrepancy between amounts in figures and in words, amount in words will govern;
- ii. Incorrectly added totals will be corrected;
- iii. In case there is any inconsistency between the rate and the value extended (after multiplication with the tender quantity), the rate quoted shall prevail;
- iv. If a bidder does not accept the correction of errors as outlined above, his bid is liable for rejection.

29.3 The GERMI may waive any minor infirmity or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.

30. Contacting the GERMI officials

30.1 From the time of bid opening to the time of contract award, if any Bidder wishes to contact the Owner on any matter related to its bid, it should do so in writing.

30.2 Any effort by a Bidder to influence the Owner in the Owner's bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidder's bid.

31. Award of Contract

31.1 The contract shall be awarded with the approval of the competent authority to the bidder whose bid has been determined to be eligible and to be substantially responsive to the Tender documents and who has offered the lowest evaluated bid (**subject to the selection of the sample by the empowered committee**) provided further the bidder has the capability and resources effectively to carry out the contract works.

31.2 Notwithstanding the above Clause 31.1, Owner reserves the right to negotiate the terms

and contract including the prices before award of the Contract and if negotiations with the lowest evaluated party fails, the Owner may proceed to negotiate with the next lowest Bidder.

32. Owner's right to vary quantities at time of Award

32.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and/or Services originally specified in Price Bid Format (SOR), without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.

33. Right to accept / reject any or all Bids

33.1 Notwithstanding anything contain, GERMI management reserves the right to accept or reject any bid including the lowest and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligations to inform the affected bidder or bidders of the grounds for the said action.

34. Notification of Award

34.1 GERMI will notify the successful bidder in writing by issuing Letter of Award and/or Purchase Order that their bid has been accepted. Issuance of the Letter of Award or Purchase Order, whichever is earlier, by GERMI will constitute the formation of a Contract.

34.2 Contractor shall proceed to start the work immediately from the date of issuance of Contract and complete the work in all the aspects as per scope, within Project Completion scheduled defined in the tender.

35. Issuing of work order

35.1 Within (7) days of the notification of award by the successful bidder shall sign, date & return the same to the owner as a token of acknowledgement.

36. Performance Bank Guarantee

36.1 The Contractor shall furnish, within thirty (30) days from the date of issuance of Contract, a performance guarantee of 10% of Contract value, in prescribed format of (Form E-3) for the timely Delivery/ execution and satisfactory performance of the Contract. The Performance Bank Guarantee shall be valid till sixty (60) days beyond the defect liability/ warranty period/ contract term.

36.2 Bidder shall submit Performance Bank Guarantee (PBG) issued by any Indian Public

Sector Banks/ IDBI/ Axis/ HDFC/ ICICI/ Kotak Mahindra Bank/ Yes Bank.

- 36.3** Failure of the successful Bidder to submit the above-mentioned Performance Bank Guarantee or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event Owner may award the Contract to the next lowest evaluated Bidder, whose offer is substantially responsive and is determined by Owner to be qualified to perform the Contract satisfactorily.
- 36.4** GERMI shall have an unqualified option under this guarantee to invoke the bank guarantee and claim the amount there under in the event of the Contractor failing to honour any obligation under this Contract and/or in respect of any amount due from the Contractor.

37. Annulment of the Award

- 37.1** Failure of the successful bidder to comply with any of the requirements shall constitute sufficient ground for the annulment of award and forfeiture of the bid security in which event the GERMI may make the award to any other bidder at the discretion of the GERMI or call for new bids.
- 37.2** GERMI reserves the right to disqualify the Contractor for a suitable period who habitually failed to supply the required services in time. Further, the Contractor whose items do not perform satisfactorily may also be disqualified for a suitable period as decided by the GERMI.
- 37.3** GERMI reserves the right to blacklist a bidder for a suitable period in case he fails to honour his bid without sufficient grounds.

SECTION-IV: TERMS AND CONDITIONS OF THE TENDER

38. Definitions

The following words and expressions shall have the meanings assigned to them except where the context otherwise requires:

- 38.1** "Agency" or "Contractor" shall mean the bidder to whom the Notification of Award has been issued by the Owner.
- 38.2** "Applicable Laws" shall mean any law, legislation, statute, act, by-laws, rule, regulation, ordinance, order, decree, protocol, notification, policy, by-law, administrative guideline, ruling, instruction, directive, consent, license, approval, permit, judgment, court order, treaty or any interpretation thereof by any Governmental Authority or Person acting under the authority of any Governmental Authority in India, as may be in force and effect during the subsistence of the Contract.
- 38.3** "Approved" shall mean approved in writing including subsequent written confirmation of previous verbal approval and "Approval" means approval in writing including aforesaid.
- 38.4** "Arbitration Act" shall mean the Arbitration and Conciliation Act, 1996 as applicable in India and (or any enactment/amendment replacing/amending such Arbitration Act) and rules and regulations made there under.
- 38.5** "Bid" means, the offer submitted by the Bidder against this Bidding Document.
- 38.6** "Bidder" means a Bidder that has submitted a Bid to the Owner, in relation to the Project.
- 38.7** "Completion" means the fulfilment of the Scope of Work by the Contractor in accordance with the terms and conditions set forth in the Contract.
- 38.8** "Completion Period" means time period specified by the Owner in tender documents for the completion of work.
- 38.9** "Completion Certificate" shall mean the certificate to be issued by the Officer-in-Charge or its Authorized representative when the works have been completed in accordance with the contract and to the satisfaction of Officer-in-Charge or its authorized representative.
- 38.10** "Contract means the LOA and/or PO issued by Owner to Contractor for awarding the work, with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- 38.11** "Contract Documents" means the documents listed in the LOA and/or PO including Tender documents and any amendments thereto.

- 38.12** "Contract Value" or "Contract Price" shall mean the price payable to the Contractor under the Contract for the full and proper performance of his entire contractual obligations.
- 38.13** "Contractor's Equipment" means any and all plant, facilities, equipment, implements, supplies, structures, material, machinery, tools, apparatus, appliances or things of every kind required in or purchased, rented or furnished for or in connection with installation, completion and maintenance of Facilities and not constituting Plant and Equipment.
- 38.14** "Defect Liability Period" means the period of validity of the warranties and guarantees given by the Contractor commencing at Completion of the Facilities or a part thereof by the Owner, during which the Contractor is responsible for defects with respect to the Facilities (or the relevant part thereof).
- 38.15** "Effective Date" shall be the date of issuance of Letter of Award or Purchase Order whichever is earlier by Owner".
- 38.16** "Goods" shall mean articles, materials, equipment, design and drawings, data and other property to be supplied by Contractor to complete the contract.
- 38.17** "Gross Negligence" shall mean (i) the failure to perform a manifest duty, in reckless disregard of or wanton indifference to the consequences to the life, health, safety or property of another; or (ii) any act or failure to act which, was in reckless disregard of or wanton indifference to the consequences to the life, health, safety or property of another.
- 38.18** "Owner" or "Purchaser" means Gujarat Energy Research & Management Institute (GERMI) having its registered office at PDPU Campus, Raysan, Gandhinagar, Gujarat.
- 38.19** "Purchase Order" shall mean the detailed Order issued by the Owner to the successful Bidder.
- 38.20** "Warranty Period" means the period of validity of the warranties and guarantees given by the Contractor commencing at Acceptance of the Goods or Services or a part thereof by Owner, during which the Contractor is responsible for defects with respect to the Goods or Services (or the relevant part thereof) as provided in the Contract.

39. Application

- 39.1** The general conditions shall apply in contracts made by the GERMI for the hiring of Services.

40. Standards

- 40.1** The services provided under this contract shall conform to the general standards applicable on hiring of people on wages as per the laws of India.

40.2 The bidder should furnish all the details of applicable standards and weather they have followed the same or not.

41. Insurance

41.1 For its risks and liabilities assumed hereunder, the Contractor shall, at its own expense procure and maintain as a minimum, the insurances of their personnel as set out in this clause or as may be required under Applicable Laws, and ensure that they remain in full force and effect throughout the Term of the Contract.

41.2 The provisions of this clause shall in no way limit the liability of the Contractor under the Contract or Applicable Laws.

41.3 The Contractor shall be responsible for and shall save, indemnify, defend and hold harmless the GERMI, their respective officers, directors, employees, agents and other persons with whom GERMI may be associated from and against all Claims, losses, damages, costs (including legal costs) expenses and liabilities in respect of:

41.4 Loss of or damage to property of the Contractor whether owned, hired, leased or otherwise provided by the Contractor arising from or relating to the performance of the Contract;

41.5 Personal injury including death or disease to any person employed or engaged by the Contractor arising from or relating to the performance of the Contract.

42. Indemnity

42.1 The Contractor shall be responsible and liable at all times, including time in storage, in transit, or at Owner's Site location, for damage to or destruction of Material, Equipment and any other property of Contractor or any of its Subcontractors and their respective employees or agents, unless such loss, damage or destruction is caused by or contributed to by the gross negligence or the wilful misconduct of the Owner.

42.2 The Contractor shall indemnify and keep the Owner harmless from any and all losses and claims arising out of or any delay, failure or default of the Contractor in connection with the Contract or other obligations hereunder directly or indirectly associated herewith and/or arising from all claims, losses, liabilities, costs (including legal costs), damages, liabilities and expenses of every kind and nature relating to such loss or damage in respect of:

- a. personal injury, illness or death of any of Contractor's personnel (except if directly caused by the Gross Negligence or Willful Misconduct of Owner);

- b. loss or damage to Contractor's property (except if directly caused by the Gross Negligence or Willful Misconduct of Owner);
- c. Loss or damage caused to the Owner and/or cost incurred by the Owner (including in respect of any injury to the person or property of any third party) on account of failure of the Contractor to perform its obligations / duties/ responsibilities in accordance with and / or as envisaged in the Contract;
- d. Failure by Contractor to proceed with work in accordance with the determinations, instructions and clarifications of Owner pending disagreement, dispute, protest, request for arbitration/ court proceedings;
- e. Breach of Applicable Laws by the Contractor;
- f. Negligence or Willful Misconduct by the Contractor;
- g. Breach/ infringement by Contractor of any intellectual property right;
- h. Breach of any confidentiality obligations by Contractor;
- i. Non-payment of dues payable to its Sub-contractors/suppliers/vendors etc.

42.3 The obligations of Contractor to indemnify and hold harmless Owner from and against claims referred to in this Clause or other provisions of this Contract shall not be limited or reduced by any insurance provided in Contract, except to the extent that the proceeds of any such insurance shall be applied to reduce claims made against Owner.

42.4 If any proceedings are brought or any claim is made against the Owner that might subject the Contractor to liability under this Clause, the Owner shall promptly give the Contractor a notice thereof and the Contractor may at its own expense and in the Owner's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

42.5 If the Contractor fails to notify the Owner within seven (7) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Owner shall be free to conduct the same on its own behalf at Contractor's cost. Unless the Contractor has so failed to notify the Owner within the seven (7) day period, the Owner shall make no admission that may be prejudicial to the defence of any such proceedings or claim.

42.6 The Owner shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all expenses incurred in so doing.

42.7 Should the Owner have to pay any money or incur any other liability in respect of such claims or demands as aforesaid, the amount so paid and the costs incurred by the Owner, it shall be charged to and forthwith reimbursed by the Contractor and the Contractor shall not be at liberty to dispute or question the right of the Owner to make such payments notwithstanding the same may have been made without the consent or authority of the Contractor.

42.8 In this Clause:

the term "Owner" shall deemed to include its affiliates, other owner appointed contractors, personnel, officers, directors, employees and agents but shall not include Contractor; and

the term "Contractor" shall deemed to include all its subcontractors, personnel, officers, directors, employees and agents but shall not include Owner

The provisions of this Clause and any other provision under this Contract providing for an indemnity shall survive termination of the Contract.

43. Limitation of Liability

43.1 The final payment by the Owner in pursuance of the Contract terms shall not mean release of the Contractor from all his liabilities under the Contract. The Contractor shall be liable and committed under this Contract to fulfil all his liabilities and responsibilities, till such time the Contract Performance Guarantee is released by the Owner.

43.2 Provided that the Contractor shall continue to remain responsible for all liabilities which arise on account of Gross Negligence, Wilful Misconduct, breach or fraud, even beyond the release of Performance Bank Guarantee. However, the Contractor shall not be liable to the Owner for any indirect or consequential loss provided that this exclusion shall not apply to any obligation of the Contractor to pay any Penalty / Liquidated Damages to the Owner. Except in the case of Gross Negligence or Wilful Misconduct or fraud, the aggregate liability of the Contractor to the Owner under the Contract shall not exceed the total Contract Price.

However, this limitation of liability shall not limit the liability to 100% of the Contract Price and the Contractor shall continue to remain responsible for all liabilities beyond 100% of the Contract Price which arise on account of;

1. The cost of repairing or replacing goods/ material supplied by the Contractor, or
2. Any obligation of the Contractor to indemnify the Owner with respect to infringement of intellectual property rights, or
3. Breach of Applicable Laws.

4. Breach of confidentiality requirements set forth in this Agreement or Applicable Law, or
5. In case of negligence, breach, fraud, Gross Negligence or Wilful Misconduct of the Contractor.

44. Termination for Default

44.1 The GERMI may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Contractor, terminate this contract in whole or in part, if

- i. the Contractor fails to deliver the quality service within the time period(s) specified in the work order., or any extension thereof granted by the GERMI;
- ii. the Contractor fails to perform any other obligation(s) under the Contract; and
- iii. the Contractor, in either of the above circumstances, does not remedy his failure within a period of 15 days (or such longer period as the GERMI may authorize in writing) after receipt of the default notice from the GERMI.

44.2 In the event the GERMI terminates the contract in whole or in part GERMI may hire, upon such terms and in such manner as it deems appropriate, services similar to those undelivered and the Contractor shall be liable to the GERMI for any excess cost for such similar services. However, the Contractor shall continue the performance of the contract to the extent not terminated.

45. Termination for Convenience

45.1 Owner may terminate the Contract either in whole or part without assigning any reason after giving notice in writing of Seven (7) days to the Contractor. Upon termination, the Contractor shall stop all work on receipt of such notice of termination, unless directed otherwise by Owner. Upon such Termination, the Contractor shall be paid compensation only for the Work already performed in accordance with the provisions of the Contract till the effective date of the termination of the Contract as per the notice of the termination issued by the Owner to the Contractor and approved by the Owner. However in no event such payment shall exceed the Contract Value.

46. Settlement of disputes

46.1 All disputes, differences and questions arising out of or in any way touching or concerning this agreement or subject matter thereof or the representative rights, duties or liability of the parties shall be referred to the sole arbitration of the Director General, GERMI or any person nominated by him. The arbitration shall be in accordance with the Arbitration and Conciliation Act, 1996. The arbitrator shall be entitled to extend the time of arbitration proceedings with consent of the parties. No part of the agreement shall be suspended on the ground of pending arbitration proceedings.

47. Assignment

47.1 This Contract shall be binding upon and shall inure to the benefit of the Parties hereto and their respective successors and duly permitted assignees. The Contractor shall not, without the express prior written consent of the Owner, assign to any other party the Contract or any part thereof, or any right, benefit, obligation or interest therein or there under. Provided, nevertheless, that any such consent shall not relieve the Contractor from any obligation, duty or responsibility under the Contract.

47.2 The Owner hereby reserves its right to assign to any other party whatsoever, the Contract or any part thereof, or any right, benefit, obligation or interest therein or there under with prior written intimation to the Contractor and the Contractor hereby agrees to give full effect to such assignment and to enter into such Contracts and provide such information, documents, consents as are reasonably customary and required by the assignees in connection with such assignments.

48. Liquidated damages

48.1 If the Contractor for any reason other than Force Majeure, fails to timely mobilise Personnel / manpower at Designated Site as per the time schedule mentioned in the work order or any other date notified by the GERMI or fails to timely commence, continue or perform the Service in accordance with the terms of this Contract or if the Agency repudiates the Contract before completion of the Services in accordance with the Contract or otherwise commits the breach of any of the provisions of the Contract, the GERMI may without prejudice to any other right or remedy, shall have

a right to seek payment from the Contractor and the Contractor shall pay to GERMI, as ascertained and agreed liquidated damages, and not by way of penalty, point five percentage (0.5%) of total Order Value for each week or part thereof of such late commencement of the Service or each interruption of Service up to a maximum of Ten percent (10%) of total Contract Price. The payment of liquidated damages pursuant to this section shall not affect the rights of GERMI as per Contract or Applicable laws including the following rights to:

- i. Terminate the Contractor or a portion or part of the Service thereof at any time during the Term of the Contract and/or,
- ii. Recover damages resulting from Contractor's breach of any of the provisions hereof and/or,
- iii. Get the Service done by any other contractor at the risk and cost of the Contractor and/or.
- iv. Invoke Performance Security Deposit or any other security provided by the Contractor and/or,
- v. Recover actual and/ or amount payable by the GERMI to its contractors or Subcontractors or third party for standby charge and / or rentals for the services relating to the Service.

48.2 By way of abundant caution, it is clarified that in addition to recovering liquidated damages, GERMI may exercise any one or more of its rights mentioned above as per the Contract and the Applicable Law.

49. Defect Liability/ Warranty Period

49.1 The Contractor warrants that the Facilities or any part thereof shall be free from defects in the engineering, materials supplied and of the work executed.

49.2 The Defect Liability Period shall be Twelve (12) months from the date of successful completion. If during the Defect Liability Period any defect should be found in the engineering, materials supplied or of the work executed by the Contractor, the Contractor shall promptly, in consultation and agreement with the Owner regarding appropriate remedying of the defects, and at its cost, repair, replace or otherwise make good (as the Contractor shall, at its discretion, determine) such defect as well as any damage to the Facilities caused by such defect. The burden of proof of remedy of the defects shall be on the Contractor.

49.3 The Owner shall give the Contractor a notice stating the nature of any such defect together with all available evidence thereof, promptly following the discovery thereof. The Owner shall afford all reasonable opportunity for the Contractor to inspect any such defect.

49.4 The Owner shall afford the Contractor all necessary access to the Facilities and the Site to enable the Contractor to perform its obligations under this Clause. The Contractor may, with the consent of the Owner, remove from the Site any materials or any part of the Facilities that are defective if the nature of the defect, and/or any damage to the Facilities caused by the defect, is such that repairs cannot be expeditiously carried out at the Site.

49.5 If the repair, replacement or making good is of such a character that it may affect the efficiency of the Facilities or any part thereof, the Owner may give to the Contractor a notice requiring that tests of the defective part of the Facilities shall be made by the Contractor immediately upon completion of such remedial work, whereupon the Contractor shall carry out such tests. If such part fails the tests, the Contractor shall carry out further repair, replacement or making good (as the case may be) until that part of the Facilities passes such tests. The tests shall be agreed upon by the Owner and the Contractor.

49.6 If the Contractor fails to commence the work necessary to remedy such defect or any damage to the Facilities caused by such defect within a reasonable time (which shall in no event be considered to be less than fifteen (15) days), the Owner may, proceed to do such work, and the reasonable costs incurred by the Owner in connection therewith shall be paid to the Owner by the Contractor or may be deducted by the Owner from any monies due the Contractor or claimed under the Performance Security.

49.7 If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Owner because of any of the aforesaid reasons.

49.8 Defect liability period shall start after the works have been completed and site has been handed over to owner.

50. Force Majeure

50.1 If, at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war of hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts or act of God (hereinafter referred to as "events") provided notice of happenings of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall due to such event be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such an event come to an end or cease to exist, and the decision of the GERMI as to whether the deliveries have been so resumed or not shall be final and conclusive. Further that if the performance in whole or part any obligation under this contract is prevented or delayed by reasons of any such event for a period exceeding 60 days, either party may, at its option, terminate the contract.

51. Mode of Payment

51.1 Payment against Bill / Invoice shall be released only after execution of the scope of work and the quality of the services are found to the satisfaction of the GERMI.

51.2 No request for other mode of payment will be entertained.

51.3 Following shall be payment bifurcation:

- i. 50 % against complete delivery of Bill of Quantity at site or against 50% completion of work.
- ii. Rest of the 50% shall be paid after final satisfactory completion of the work.

52. GERMI's Rights

52.1 The GERMI reserves the right to accept/reject any or all of the Bids in whole or in part and annul the bidding process without assigning any reason whatsoever.

52.2 The GERMI reserves the right to award the contract to more than one Bidder.

52.3 The GERMI reserves the right to relax/withdraw any of the terms and conditions mentioned in the Tender Document so as to overcome any problem encountered during the selection of the bidders and also during the course of the execution of the contract.

52.4 If a firm after award of the contract violates any of the terms and conditions fails to honour its bid without sufficient grounds and within reasonable time it shall be liable for blacklisting for a suitable period. Bid Security /performance security shall be forfeited.

53. Penalty for substandard / inferior quality service

53.1 If the selected bidder/firm does not supply the skilled manpower/ does not provide quality material or make available such things within the stipulated period as may be indicated by the GERMI, the GERMI reserves the right to arrange the supply from another firm and the bidder will have to reimburse the additional expenditure, if any, incurred by the GERMI and the PSD submitted by the bidder will be forfeited.

54. Validity of rates

54.1 Rates quoted should be valid for 90 days from the last date of submission of bids. Bids quoting the rates valid for periods less than that will be considered non responsive.

55. Scheduled date of completion of work

55.1 This Contract shall be deemed to have come into effect and force and be binding on the Parties with effect from the date of work order issued and the entire scope of work shall have to be completed within a period of 45 Days ("**Primary Term**").

SECTION-V: DETAILED SCOPE OF WORK

56. Detailed Scope of Work

56.1 Bidders shall carry out following works defined in RFP documents.

- a) Furniture for Environment Lab.
- b) Glass Partition, Civil Work, Plumbing Work & Other Misc. Work for Environment Lab.
- c) PP+FRP Duct for Environment Lab
- d) Furniture for Solar Lab.
- e) Glass Partition, Civil Work, Plumbing Work & Other Misc. Work for Solar Lab.
- f) PP+FRP Duct for Solar Lab

For details, refer SOR (**Section VII**) & Technical Specifications (**Annexure-1**).

Further the Contractor shall, unless specifically excluded in the Contract, perform all such work and/or supply all such Goods not specifically mentioned in the Contract but that can be reasonably inferred from the Contract for satisfactory performance of the Scope of Work under the Contract as if performance of such Work and/or supply of Goods were expressly mentioned in the Contract.

56.2 Functional responsibilities of Contractor

- i. The Contractor shall execute the services as per Scope of Work (SOW) to the satisfaction of the Owner. Contractor shall be liable for any lapses observed in execution of services.
- ii. The Contractor shall be responsible to pay Salaries on or before 5th day of every month for the man-power deployed under the Contract, irrespective of payment received from Owner.
- iii. The Contractor shall be solely responsible for the Salaries of man-power deployed under the contract, as per the latest "Minimum Wages Act" notification issued by government. Further, Contractor shall be responsible to pass on escalations on statutory components like EPF, ESIC/WS, Bonus etc. as may be applicable, as per the latest "Minimum Wages Act" notification issued by government.
- iv. The Contractor/ Service personnel/ man-power deployed under the contract shall make their own arrangement for the accommodation, medical assistance, transportation/ conveyance arrangement, water arrangement and Owner shall have no obligation in this respect. The Owner shall not be responsible for providing any medical assistance to the Contractor personnel.
- v. The Contractor shall be solely responsible for providing all necessary administrative, logistic support and provide PPE as may be required to all their personnel deployed at Site to perform the services/ work.
- vi. The Contractor shall be responsible for the discipline and good behaviour of all their deployed man-power under the Contract.

56.3 Maintain Site Condition

- i. During the construction period of work, the contractor shall be responsible for maintaining the entire site in proper and acceptable condition against defects in construction. The work will have to be protected against possible damage and shall be made good at his own cost to the acceptable standard and as approved by the Owner/ Owner's representative at site till handing over.

- ii. The Contractor shall dispose-off the unserviceable materials, debris etc. to any area within the site or outside of the site as decided by the owner's representative/ Officer-in-charge.
- iii. Execution of work including necessary site cleaning for surface preparation shall be done by Contractor and no extra payment shall be paid by Owner on this account.

SECTION-VI: FORMS & PROCEDURES

COVERING LETTER FOR SUBMISSION OF THE BID

{Required on the letter head of the bidder}

Ref. No.:

Date:

To,
Gujarat Energy Research and Management Institute
Pandit Deendayal Petroleum University Campus
Raisan Village, Gandhinagar - 382 007.

Our Offer No.:

Dear Sir,

With reference to the above:

1. I/We (Bidder Name _____) hereby confirm that the required work shall be performed as per tender document within the specified completion period. A separately signed and accepted, Schedule of Rates quoted for the complete material required / quoted in accordance with Notice Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Schedule of Rates, Technical specifications and other documents and papers, all as detailed in the Tender documents is also submitted.
2. I/We also agree to pay the Bid Security (Earnest Money Deposit) and accept the terms and conditions laid down in the memorandum below in this respect. **MEMORANDUM:**
 - a) General Description of Work: _____
 - b) Bid Security (Earnest Money deposit): (Rupees)_____

The Bid Security (EMD) is payable in the manner set out in para 5 below & also as per the format attached.

The Bid Security (EMD), if the tender is accepted, will be adjusted against the Security Deposit, when paid by demand draft only.
- c) Performance Bank Guarantee:
10% of the contract value which will be paid in the manner set out in the tender conditions & as per the format attached.
3. Should this tender be accepted, I/We hereby agree to abide by and fulfill all terms and conditions referred to above and in default thereof, to forfeit and pay to GERMI or its successors or its authorized nominees such sums of money as are stipulated in conditions contained in General Tender Notice and other Tender Documents.

4. I/We hereby pay the Bid Security (EMD) of Rs. _____ (Rupees _____) in Bank Demand Draft issued by _____ in favour of Gujarat Energy Research and Management Institute., Gandhinagar.

I/We enclose herewith evidence of my/our experience of execution of works of similar nature and magnitude carried out by me/us in the prescribed proforma.

(Seal & Signature of the Bidder)

F-1 BIDDER'S GENERAL INFORMATION
{Required on company's letter head}

To,
Gujarat Energy Research and Management Institute
Pandit Deendayal Petroleum University Campus
Raisan Village, Gandhinagar - 382 007.

Sr. No.	Details	Submitted by Bidder
1	Bidder's Name	
2	Number of Years in Operation	
3	Address of Registered Office	City/ State/ Country/ PIN/ZIP
4	Address of Local office	City/ State/ Country/ PIN/ZIP
5	Phone Number	(Country Code) (Area Code) (Telephone Number)
6	Fax Number	(Country Code) (Area Code) (Telephone Number)
7	E-mail address	
8	Website	
9	Bid Currency	INR
10	Whether Supplier/ Contractor / Manufacturer/ Dealer/ Trader	
11	ISO Certification, if any	
12	Registration under Company's act 1956	
13	Banker's Name & Branch	
14	Branch Code	
15	Bank account number	
16	PAN No.	
17	PF No.	
18	CST No.	
19	Local ST/ VAT No.	
20	Excise Registration No.	
21	NSIC / SSI Registration No.	
22	Service Tax Registration No.	
23	GST Registration No.	

Sign & Seal of the Vendor

F-2 NO DEVIATIONS AND ACCEPTANCE OF TENDER DOC

{Required on company's letter head}

To,
Gujarat Energy Research and Management Institute
Pandit Deendayal Petroleum University Campus
Raisan Village, Gandhinagar - 382 007

We (Bidder's name _____) confirm our acceptance of tender no. _____ in totality which comprising of RFP, T&C, Specifications, Forms & Procedures, Price bid format, addendums, corrigendums, clarifications etc. and withdraw all deviations raised by us, if any.

Authorized Signatory with seal.

Date:

Place:

E-3 PROFORMA OF PERFORMANCE BANK GUARANTEE
{Required on company's letter head}

Ref. No.

Bank Guarantee No.

Dated:

Gujarat Energy Research and Management Institute
Energy Building,
PDPU Campus, Raisan,
Gandhinagar 382 007,
Gujarat, INDIA

Dear Sirs,

1. In consideration of Gujarat Energy Research and Management Institute a registered Society and Trust under the Societies Registration Act, 1860 and the Bombay Trust Act, 1950, (hereinafter referred to as GERMI which expression shall unless repugnant to the context or meaning thereof include all its successors, administrators, or meaning thereof include all its successors, administrators, executors and assignees) having entered into a contract No. _____ dated _____ (herein after called the contract which express shall include all the amendments thereto) with M/s. _____ having its Head/Registered Office at _____ (hereinafter referred to as the Supplier/Contractor) which expression shall unless repugnant to the context or meaning thereof mean and include all its successors, administrators, executors and assignees) and GERMI having agreed that the contractor shall furnish to GERMI a performance guarantee for Indian Rs. _____ for the faithfully performance of the entire contract//warranty for defects liability during the defects liability period.
2. We _____ (Name and full address of the bank) registered under the laws of _____ having head/registered office at _____ (hereinafter referred to as the 'Bank' which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and permitted assigns) guarantee and undertake to pay immediately on first demand by GERMI in writing, the monies to the extent of Indian Rs. _____ (in figures) (Indian Rs. _____ (in words)) without any demur, reservation, contest or protest and/or without any reference to the contractor. Any such demand made by GERMI on the Bank by serving a written notice shall be conclusive and binding, without any proof, on the Bank as regards the amount due and payable, notwithstanding any dispute(s) pending before any Court, tribunal, Arbitrator or any other authority and/or any other matter of thing whatsoever, as liability under these presents being absolute and unequivocal. We agree that the guarantee herein contained shall be irrevocable and shall continue to be enforceable until it is discharged by GERMI in writing. This guarantee shall not be determined, discharged or affected by the liquidation, winding up, dissolution or insolvency of the Contractor and shall remain valid, binding and operative against the bank.

3. The bank also agree that GERMI at its option shall be entitled to Enforce this Guarantee against the bank as a principal debtor, in the first instance, without proceeding against the Contractor and notwithstanding any security or other guarantee that GERMI may have in relation to the contractor's liabilities.
4. The bank further agree that GERMI shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time exercise of any of the powers vested in GERMI against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contract(s) or for any forbearance, act or omission on the part of GERMI or any indulgence by GERMI to the said contractor(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
5. The bank further agree that the Guarantee herein contained shall remain in full force during the period that is taken for the performance of the contract and all dues of GERMI under or by virtue of this contract have been fully paid and its claim satisfied or discharged or till GERMI discharges this guarantee in writing whichever is earlier.
6. This Guarantee shall not be discharged by any change in our constitution, in the constitution of GERMI or that of the Contractor.
7. The Bank confirms that this Guarantee has been issued with Observance of appropriate laws of the country of issue.
8. The Bank also agrees that this Guarantee shall be governed and construed in accordance with Indian Laws and subject to exclusive Indian Courts at Ahmedabad, India.
9. Notwithstanding any thing contained herein above, our liability under this guarantee is limited to Indian Rs. _____ (in figures) (Indian Rs. _____ (in words) and our guarantee shall remain in force until _____ (indicate the date of expiry of bank guarantee).

Any claim under this Guarantee must be received by us before the expiry of this Bank Guarantee. If no such claim has been received by us by the said date, the rights of GERMI under this guarantee will cease. However, if such a claim has been received by us by the said date. All the rights of GERMI under this guarantee shall be valid and shall not cease until we have satisfied that claim.

In witness whereof, the bank through its authorized officer has set its hand and stamp on this _____ day of _____ at _____.

(Signature)
Full name, designation and
official address (in legible letters)
with Bank stamp

Attorney as per
Power of Attorney No.
Date:

WITNESS NO. 1
(Signature)
Full name and official address
Address (in legible letters)

WITNESS NO. 2
(Signature)
Full name and official address
Address (in legible letters)

SECTION-VII: Schedule of Rates (Financial Bid) / Bill of Quantity (On letter head of the Agency)								
Tender: Development of Lab for Environment Wing at Gandhinagar Office.						Tender No. -GERMI/ENM/ 2019/05		
(Amt in INR)								
SECTION-VII: PRICE BID FORMAT (SOR) - Detailed								
Sr. no.	Item Description	Unit	Qty A	Unit Rate-B	Basic Amount C=A*B	GST Rate (%) D	GST Amount E=C*D	Total Amt F=C+E
1 MODULAR LAB FURNITURE - ENVIRONMENT LAB								
1.1	<p>WORKING TABLE - WB-01 & WB - 04 Size: 3610mm L x 750mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 04 Nos. Size : 750mm L x 500mm W x 740m H Modules : One Drawer Two Shutter - 01 No. Size : 600mm L x 500mm W x 740m H</p> <p>ELECTRICAL RACEWAY Size: 3600mm - 1 No. Ele. Switch & Socket - 08 Nos. (04 Nos. of 6M Plate)</p> <p>SINGLE SIDE RACK Size: 3600mm - 1 No.</p> <p>JET BLACK GRANITE Size: 3610mm L x 750mm W</p>	Nos.	2					
1.2	<p>CORNER TABLE - CT-01 & CT-02 & CT-05 SIZE : 1030mm L x 1030mm D x 900mm H Consisting of following items Modules : One Shutter - 1 No. Size : 820mm L X 820mm W x740mm H</p> <p>ELECTRICAL RACEWAY Size: 1030mm - 1 No. Ele Switch & Socket - 4 Nos. (2 Nos. of 6M Plate)</p> <p>JET BLACK GRANITE Size: 1030mm L x 1030mm W</p>	Nos.	3					
1.3	<p>CORNER TABLE WITH SINK SIZE : 1030mm L x 1030mm D x 900mm H Consisting of following items Modules : One Shutter - 1 No. Size : 820mm L X 820mm W x 740mm H</p> <p>PP SINK Size: 560mm L x 355mm W - 1 No.</p> <p>3 WAY WATER FAUCET - 1 No. with p.p. powder coating PEG BOARD - 1 No. (Size: 2 ft x 2 ft) P.P peg board EYE WASHER & BATH SHOWER- 1 No.</p> <p>JET BLACK GRANITE Size: 1030mm L x 1030mm W</p>	Nos.	2					
1.4	<p>WORKING TABLE - WB-02 & WB - 03 Size: 1000mm L x 750mm W x900mm H Consisting of following items Modules : One Drawer One Shutter - 02 Nos. Size : 500mm L x 500mm W x 740m H</p> <p>ELECTRICAL RACEWAY Size: 1000mm - 1 No. Ele. Switch & Socket - 04 Nos. (02 Nos. of 6M Plate)</p> <p>DATA POINT - 1 No.</p> <p>JET BLACK GRANITE Size: 1000mm L x 750mm W</p>	Nos.	2					

Sr. no.	Item Description	Unit	Qty A	Unit Rate-B	Basic Amount C=A*B	GST Rate (%) D	GST Amount E=C*D	Total Amt F=C+E
1.5	<p>ISLAND TABLE - IT - 01 Size: 3610mm L x 1500mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 08 Nos Size : 750mm L x 500mm W x 740m H Modules : One Drawer Two Shutter - 02 Nos. Size : 600mm L x 500mm W x 740m H</p> <p>ELECTRICAL RACEWAY Size: 3610mm - 02 Nos. Ele. Switch & Socket - 16 Nos. (08 Nos. of 6M Plate)</p> <p>DOUBLE SIDE RACK Size: 3600mm - 1 No.</p> <p>JET BLACK GRANITE Size: 3610mm L x 1500mm W</p>	Nos.	1					
1.6	<p>WORKING TABLE - WB - 05 Size: 3160mm L x 750mm W x 750mm H Consisting of following items Modules : One Drawer One Shutter - 03 Nos. Size : 450mm L x 500mm W x 590m H</p> <p>LEG SPACE Size:600mm - 03 Nos.</p> <p>ELECTRICAL RACEWAY Size:3160mm - 1 No. Ele. Switch & Socket - 10 Nos. (05 Nos. of 6M Plate)</p> <p>CABLE MANAGER - 03 Nos. DATA POINT - 03 Nos. TELEPHONE POINT - 03 Nos. JET BLACK GRANITE Size: 3160mm L x 750mm W</p>	Nos.	1					
1.7	<p>WORKING TABLE - WB - 06 Size: 760mm L x 750mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 01 No. Size : 750mm L x 500mm W x 740m H</p> <p>ELECTRICAL RACEWAY Size: 750mm - 1 No. Ele. Switch & Socket - 02 Nos. (01 No. of 6M Plate)</p> <p>JET BLACK GRANITE Size: 760mm L x 750mm W</p>	Nos.	1					
1.8	<p>VERTICAL STORAGE CABINET Size: 900mm L x 500mm W x 2100mm H</p>	Nos.	2					
1.9	<p>WORKING TABLE - WB-07 Size: 1810mm L x 750mm W x900mm H Consisting of following items Modules : One Drawer Two Shutter - 03 Nos Size : 600mm L x 500mm W x 740m H</p> <p>ELECTRICAL RACEWAY Size: 1800mm - 1 No. Ele. Switch & Socket - 04 Nos. (02 Nos. of 6M Plate)</p> <p>JET BLACK GRANITE Size: 1810mm L x 750mm W</p>	Nos.	1					
1.10	<p>CORNER TABLE - CT-03 , CT- 04 SIZE : 1030mm L x 1030mm D x 900mm H Consisting of following items Modules : One Shutter - 1 No. Size : 820mm L X 820mm W x740mm H</p> <p>ELECTRICAL RACEWAY Size: 1030mm - 1 No. Ele Switch & Socket - 4 Nos. (2 Nos. of 6M Plate)</p> <p>JET BLACK GRANITE Size: 1030mm L x 1030mm W</p>	Nos.	2					

Sr. no.	Item Description	Unit	Qty A	Unit Rate-B	Basic Amount C=A*B	GST Rate (%) D	GST Amount E=C*D	Total Amt F=C+E
1.11	<p>CORNER TABLE WITH SINK SIZE : 1030mm L x 1030mm D x 900mm H Consisting of following items Modules : One Shutter - 1 No. Size : 820mm L X 820mm W x 740mm H</p> <p>PP SINK Size: 560mm L x 355mm W - 1 No.</p> <p>3 WAY WATER FAUCET - 1 No.</p> <p>PEG BOARD - 1 No.</p> <p>EYE WASHER - 1 No.</p> <p>JET BLACK GRANITE Size: 1030mm L x 1030mm W</p>	Nos.	1					
1.12	<p>WORKING TABLE - WB - 08 ,WB - 09 & WB - 10 Size: 2660mm L x 750mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 04 Nos Size : 600mm L x 500mm W x 740m H Modules : One Drawer Two Shutter - 01 No Size : 750mm L x 500mm W x 740m H</p> <p>ELECTRICAL RACEWAY Size:2550mm - 1 No. Ele. Switch & Socket - 06 Nos. (03 Nos. of 6M Plate)</p> <p>JET BLACK GRANITE Size: 2660mm L x 750mm W</p>	Nos.	3					
1.13	<p>WORKING TABLE - WB - 11 Size: 1810mm L x 750mm W x900mm H Consisting of following items Modules : One Drawer Two Shutter - 03 Nos Size : 600mm L x 500mm W x 740m H</p> <p>ELECTRICAL RACEWAY Size: 1800mm - 1 No. Ele. Switch & Socket - 04 Nos. (02 Nos. of 6M Plate)</p> <p>JET BLACK GRANITE Size: 1810mm L x 750mm W</p>	Nos.	1					
1.14	<p>LABORATORY FUME HOOD (4' feet) Constant Bypass, Standard, GI Construction External Size:- 1200mm L x 1100mm W x 2300mm H Internal Size:- 900mm L x 800mm W x 1250mm H Consisting of following items Utility Services Air - 1 No. Nitrogen - 1 No. Vacuum - 1 No. Water - 1 No. Cup Sink - 1 No. Electrical Sockets Tube light ON/OFF Switch or digital switch 6/16 Amp. Socket Single Phase - Norisys or equ.Make - 4 Nos. Vertical Sash Internal wiring of Single Phase 20 Amp. Terminated at Fume Hood Top / Bottom rear end. Specially Designed 100% Non-Metallic Base Storage Cabinet internally lined with PRL & UPVC Glass Shutters or MS Pipe construntion with removable module epoxy powder coating. Completly total installation by vendor</p>	Nos.	1					
	A - Centrifugal Blower (2 HP) 1400 to 1800 CFM	Nos.	1					
	B - Alluminium Anodised scaffold	Nos.	1					

Sr. no.	Item Description	Unit	Qty A	Unit Rate-B	Basic Amount C=A*B	GST Rate (%) D	GST Amount E=C*D	Total Amt F=C+E
1.15	<p>WORKING TABLE - WB - 12 Size: 760mm L x 750mm W x 900mm H Consisting of following items</p> <p>SINK TABLE Modules : Two Shutter - 1 No. Size : 750mm L x 750mm D x 740mm H PP SINK Size: 560mm L x 465mm W x 355mm H - 1 No. 3 WAY WATER FAUCET - 1 No. PEG BOARD - 1 No. JET BLACK GRANITE Size: 760mm L x 750mm W</p>	Nos.	1					
1.16	Installation Charges							
	Sub Total (1)							
2	PP+FRP DUCT - ENVIRONMENT LAB							
	PP+FRP Duct (Including Installation Charges)	Sq.Mtr	15					
	Sub Total (2)							
3	GLASS PARTITION & OTHER WORK - ENVIRONMENT LAB							
	Partition : (01) L 15.5 Ft x H 13 ft.	Sq.Ft	202					
	(02) L 12.53 Ft x H 13 ft.	Sq.Ft	163					
	(03) L 7.5 Ft x H 13 ft.	Sq.Ft	98					
3.1	ALL ALUMINIUM SECTION MATERIAL 1.2 MM THICKNESS ALUMINIUM MATERIAL POLISH IN ANODISE WORK (BLACK & IVORY) ALL GLASS MATERIAL IN 5 MM GLASS (PLAIN GLASS) PARTICAL BOARD SHHET (12MM)							
3.2	Glass door (Single Door) with handle, & lock 7feet height x 4 feet length	Nos.	2					
	Glass door (Double Door) with handle & Lock 7feet height x 5 feet length	Nos.	1					
3.3	CIVIL WORK (VITRIFIED FLORING) P/F VITRIFIED FLOORING 24 X 24 VITRIFIED TILES RANGE	Sq.Ft	1200					
3.4	PLUMBING WORK (DRAINAGE LINE) As per the design All pipes with standard quality	RFT	100					
3.5	PLUMBING WORK (WATER LINE) As per the design All pipes with standard quality	RFT	100					
3.6	<p>Electrical Wiring, Data & Telephone line Electrical: Distribution Box: Total points 10 nos. Single Phase Incomer 1no.: 32 Amps Independent MCB 's for all Points Outgoing: 10 Amp, Double Pole (DP), Make: Legrand/ABB/Siemens MCB Enclosure, Make: Legrand / C & S 7035 RAL with DIN RAIL channel All wiring should be inside casing capping with surface mounting. All cable wires should be FRLSH Electric wiring: poly cab/ Finolex/ RR cable (2.5 sq. mm & 6 sq.mm)</p> <p>UPS: 3kva/72v MAX+ Online UPS with inbuilt 7ah/12v smf battery 06nos. make: Microtek – 2 no. With installation and required accessories</p> <p>Internet Point: 8 no. 1 GBPS LAN port with CAT 6 Cable, installation with surface mounting casing capping tape along with cable laying and labour cost</p>	Lot	1					
3.7	<p>PAINT WORK All colours Asian Paints (Plastic Paint) ALL COLOUR MATERIAL MUST BE PROVIDE ASIAN PAINTS (PLASTIC PAINT) WALL PUTTY MUST BE PROVIDE JK WALL PUTTY</p>	Sq.Ft	250					
	Sub Total (3)							

Sr. no.	Item Description	Unit	Qty A	Unit Rate-B	Basic Amount C=A*B	GST Rate (%) D	GST Amount E=C*D	Total Amt F=C+E
4	FURNITURE - SOLAR LAB							
4.1	<p>WORKING TABLE - WB - 01 Size: 4060mm L x 900mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 02 Nos Size : 750mm L x 500mm W x 740m H Modules : One Drawer Two Shutter - 03 Nos Size : 600mm L x 500mm W x 740m H ELECTRICAL RACEWAY Size: 3450mm - 1 No. Ele. Switch & Socket - 06 Nos. (03 Nos. of 6M Plate) SINK TABLE Modules : Two Shutter - 1 No. Size : 750mm L x 750mm D x 740mm H PP SINK Size: 560mm L x 465mm W x 355mm H - 1 No. 3 WAY WATER FAUCET - 1 No. P.P peg board: 1 No. (Size: 2 ft x 2 ft) JET BLACK GRANITE Size: 4060mm L x 900mm W</p>	Nos.	1					
4.2	<p>WORKING TABLE - WB - 02 Size: 1660mm L x 700mm W x 900mm H Consisting of following items Modules : One Drawer One Shutter - 02 Nos. Size : 450mm L x 500mm W x 740m H LEG SPACE Size: 750mm - 1 No. ELECTRICAL RACEWAY Size: 1650mm - 1 No. Ele. Switch & Socket - 04 Nos. (02 Nos. of 6M Plate) JET BLACK GRANITE Size: 1660mm L x 700mm W</p>	Nos.	1					
4.3	<p>FRAME TABLE Size: 1250mm L x 700mm W x 900mm H</p>	Nos.	1					
4.4	<p>LABORATORY FUME HOOD (4' feet) Constant Bypass, Standard, GI Construction External Size:- 1200mm L x 1100mm W x 2300mm H Internal Size:- 900mm L x 800mm W x 1250mm H Consisting of following items Utility Services Air - 1 No. Nitrogen - 1 No. Vacuum - 1 No. Water - 1 No. Cup Sink - 1 No. Electrical Sockets Tube light ON/OFF Switch or digital switch 6/16 Amp. Socket Single Phase - Norisys or equ.Make - 4 Nos. Vertical Sash Internal wiring of Single Phase 20 Amp. Terminated at Fume Hood Top / Bottom rear end. Specially Designed 100% Non-Metallic Base Storage Cabinet internally lined with PRL & UPVC Glass Shutters or MS Pipe construntion with removable module epoxy powder coating. Completly total installation by vendor</p>	Nos.	1					
	A - Centrifugal Blower (2 HP) 1400 to 1800 CFM	Nos.	1					
	B - Alluminium Anodised scapfold	Nos.	1					

SECTION-VII: Schedule of Rates (Financial Bid) / Bill of Quantity (On letter head of the Agency)								
Tender: Development of Lab for Environment Wing at Gandhinagar Office.						Tender No. -GERMI/ENM/ 2019/ 05		
(Amt in INR)								
SECTION-VII: PRICE BID FORMAT (SOR) - Detailed								
Sr. no.	Item Description	Unit	Qty A	Unit Rate-B	Basic Amount C=A*B	GST Rate (%) D	GST Amount E=C*D	Total Amt F=C+E
4.5	<p>WORKING TABLE - WB - 04 Size: 3520mm L x 900mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 03 Nos Size : 750mm L x 500mm W x 740m H Modules : One Drawer Two Shutter - 02 Nos Size : 600mm L x 500mm W x 740m H</p> <p>ELECTRICAL RACEWAY Size: 3520 mm - 1 No. Ele. Switch & Socket - 08 Nos. (04 Nos. of 6M Plate)</p> <p>JET BLACK GRANITE Size: 3520mm L x 900mm W</p>	Nos.	1					
4.6	LAB CHAIR (750 MM HEIGHT, ADJUSTABLE AND WITH ARM REST WITH BACK SUPPORT, SS MATERIAL)	Nos	6					
4.7	OFFICE CHAIR (chair with frame with S.S, back support, PU foam in back and moulded PU Sheet, revolving, bend PU arms)	Nos.	6					
4.8	<p>ANTI VIBRATION TABLE Size: 750mm L x 750mm W x 900mm H Consisting of following items: i) Table Top : 18 to 20 mm Thick Black Granite ii) Frame : Pedestal Frame 50mm x 25 mm Rectagular Pipe</p> <p>Complete structure is finally powder coated with 80 microns thickness Anti vibration bench is suitable for micro weighing scale, to absorb the vibration, specially designed rubber pads are provided below the granite & at the bottom of the table.</p>	Nos.	2					
4.9	<p>Electrical Wiring, Data & Telephone line Solar Lab 1: Distribution Box: MCB BOX (make: CNS/Legrand with RAL 7035) Incomer 1 no. : 63 amp, FP, MCB Out going 32 amp: 3 Nos., 4P, MCB 6 amp, DP, 14 nos, MCB Cable: 6 sq.mm for 32 amp MCB Cable: 4 sq. mm for 6 amp MCB Electric wiring: poly cab/ Finolex/ RR cable (2.5 sq. mm & 6 sq.mm) AC Point: 2 Nos with required accessories All wiring should be inside casing capping with surface mounting. All cable wires should be FRLSH Note: Shifting of 2 No's Industrial plug from existing lab.</p> <p>Internet Point: 1 no. 1 GBPS LAN port with CAT 6 Cable, installation with surface mounting casing capping tape along with cable laying and labour cost</p> <p>SOLAR LAB – 2 Distribution Box Incomer 1 no.: 32 amps – DP Out going 16 amp: 3 Nos., 2P, MCB Electric wiring: poly cab/ Finolex/ RR cable (2.5 sq. mm & 6 sq.mm) Plug socket 5 nos. 5/15 amp with surface wiring inside casing capping.</p> <p>UPS: 3kva/72v MAX+ Online UPS with inbuilt 7ah/12v smf battery 06nos. make: Microtek – 1 no. With installation and required accessories</p>	Lot	1					
4.10	Installation Charges							
Sub Total (4)								
5 PP+FRP DUCT - SOLAR LAB								
5.1	PP+FRP Duct	Sq.M tr	15					
Sub Total (5)								

SECTION-VII: Schedule of Rates (Financial Bid) / Bill of Quantity (On letter head of the Agency)								
Tender: Development of Lab for Environment Wing at Gandhinagar Office.						Tender No. -GERMI/ENM/ 2019/05		
(Amt in INR)								
SECTION-VII: PRICE BID FORMAT (SOR) - Detailed								
Sr. no.	Item Description	Unit	Qty A	Unit Rate-B	Basic Amount C=A*B	GST Rate (%) D	GST Amount E=C*D	Total Amt F=C+E
6 GLASS PARTITION & OTHER WORK - SOLAR LAB								
6.1	FLEX ON ALUMINIUM PARTATION Size: 6815 mm L x 2940 mm H	Sq.Ft	225					
6.2	PHENOLIC RESIN SHEET (TRESPA OR EQUIVALENT MAKE WITH CERTIFICATE) Size:2800mm L x 3926 mm H x 2 Nos.	Sq.Ft	250					
6.3	FALL CELLING (Gypsum Movable) Size: 6815 mm L x 2900 mm W (10FT HEIGHT), ceiling light: size: 2 ft x 2 ft box LED light (60 W x 8 nos.)	Sq.Ft	230					
6.4	PAINT ON BOTH SIDE WALL, COLUMN AND CELLING (SOLAR LAB 2) Size: 2800 mm L x 3926 mm H	Sq.Ft	230					
6.5	SPLIT AC - 02 TON ON WALL WITH FRAME SUPPORT with installation	Nos..	2					
6.6	SPLIT AC - 1.5 TON ON WALL with installation	Nos..	1					
6.7	PLUMBING WORK (DRAINAGE LINE) As per the design All pipes with standard quality	RFT	100					
6.8	PLUMBING WORK (WATER LINE) As per the design All pipes with standard quality	RFT	100					
6.9	SS 304 / seamless schedule 10 (12.5 mm OD , 10.5 mm ID and 1.5 to 2 mm pipe thickness) piping from ground floor Approximate 45 meters pipe require including control valve for gas cylinders connection	RMT	45					
6.10	1 feet Platform require including 5 nos. cylinder cage							
Sub Total (6)								
Total Amount [7=(1)+(2)+(3)+(4)+(5)+(6)]								
* For Detailed Technical Specifications, please refer to the Annexure-1								
(Sign & Seal)								

Annexure-1

Technical Specifications

Tender No. GERMI/ENM/2019/05

Sr. N	Item Description	Unit	Qty
1	MODULAR LAB FURNITURE - ENVIRONMENT LAB		
1.1	<p><u>WORKING TABLE - WB-01 & WB - 04</u> Size: 3610mm L x 750mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 04 Nos. Size : 750mm L x 500mm W x 740m H Modules : One Drawer Two Shutter - 01 No. Size : 600mm L x 500mm W x 740m H</p> <p><u>ELECTRICAL RACEWAY</u> Size: 3600mm - 1 No. Ele. Switch & Socket - 08 Nos. (04 Nos. of 6M Plate)</p> <p><u>SINGLE SIDE RACK</u> Size: 3600mm - 1 No.</p> <p><u>JET BLACK GRANITE</u> Size: 3610mm L x 750mm W</p>	Nos.	2
1.2	<p><u>CORNER TABLE - CT-01 & CT-02 & CT-05</u> SIZE : 1030mm L x 1030mm D x 900mm H Consisting of following items Modules : One Shutter - 1 No. Size : 820mm L X 820mm W x740mm H</p> <p><u>ELECTRICAL RACEWAY</u> Size: 1030mm - 1 No. Ele Switch & Socket - 4 Nos. (2 Nos. of 6M Plate)</p> <p><u>JET BLACK GRANITE</u> Size: 1030mm L x 1030mm W</p>	Nos.	3
1.3	<p><u>CORNER TABLE WITH SINK</u> SIZE : 1030mm L x 1030mm D x 900mm H Consisting of following items</p>	Nos.	2

Sr. N	Item Description	Unit	Qty
	<p>Modules : One Shutter - 1 No. Size : 820mm L X 820mm W x 740mm H</p> <p>PP SINK Size: 560mm L x 355mm W - 1 No.</p> <p>3 WAY WATER FAUCET - 1 No. with p.p. powder coating</p> <p>PEG BOARD - 1 No. (Size: 2 ft x 2 ft) P.P peg board</p> <p>EYE WASHER & BATH SHOWER- 1 No.</p> <p><u>JET BLACK GRANITE</u> Size: 1030mm L x 1030mm W</p>		
1.4	<p><u>WORKING TABLE - WB-02 & WB - 03</u> Size: 1000mm L x 750mm W x900mm H Consisting of following items Modules : One Drawer One Shutter - 02 Nos. Size : 500mm L x 500mm W x 740m H</p> <p><u>ELECTRICAL RACEWAY</u> Size: 1000mm - 1 No. Ele. Switch & Socket - 04 Nos. (02 Nos. of 6M Plate)</p> <p><u>DATA POINT - 1 No.</u></p> <p><u>JET BLACK GRANITE</u> Size: 1000mm L x 750mm W</p>	Nos.	2
1.5	<p><u>ISLAND TABLE - IT - 01</u> Size: 3610mm L x 1500mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 08 Nos Size : 750mm L x 500mm W x 740m H Modules : One Drawer Two Shutter - 02 Nos. Size : 600mm L x 500mm W x 740m H</p> <p><u>ELECTRICAL RACEWAY</u> Size: 3610mm - 02 Nos. Ele. Switch & Socket - 16 Nos. (08 Nos. of 6M Plate)</p> <p><u>DOUBLE SIDE RACK</u> Size: 3600mm - 1 No.</p>	Nos.	1

Sr. N	Item Description	Unit	Qty
	<p><u>JET BLACK GRANITE</u> Size: 3610mm L x 1500mm W</p>		
1.6	<p><u>WORKING TABLE - WB - 05</u>Size: 3160mm L x 750mm W x 750mm H Consisting of following items Modules : One Drawer One Shutter - 03 Nos. Size : 450mm L x 500mm W x 590m H <u>LEG SPACE</u>Size:600mm - 03 Nos. <u>ELECTRICAL RACEWAY</u>Size:3160mm - 1 No. Ele. Switch & Socket - 10 Nos. (05 Nos. of 6M Plate) <u>CABLE MANAGER - 03</u> <u>Nos. DATA POINT - 03 Nos. TELEPHONE POINT - 03 Nos. JET BLACK GRANITE</u> Size: 3160mm L x 750mm W</p>	Nos.	1
1.7	<p><u>WORKING TABLE - WB - 06</u> Size: 760mm L x 750mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 01 No. Size : 750mm L x 500mm W x 740m H <u>ELECTRICAL RACEWAY</u> Size: 750mm - 1 No. Ele. Switch & Socket - 02 Nos. (01 No. of 6M Plate) <u>JET BLACK GRANITE</u> Size: 760mm L x 750mm W</p>	Nos.	1
1.8	<p><u>VERTICAL STORAGE CABINET</u> Size: 900mm L x 500mm W x 2100mm H</p>	Nos.	2
1.9	<p><u>WORKING TABLE - WB-07</u> Size: 1810mm L x 750mm W x900mm H Consisting of following items Modules : One Drawer Two Shutter - 03 Nos Size : 600mm L x 500mm W x 740m H <u>ELECTRICAL RACEWAY</u> Size: 1800mm - 1 No. Ele. Switch & Socket - 04 Nos. (02 Nos. of 6M Plate) <u>JET BLACK GRANITE</u> Size: 1810mm L x 750mm W</p>	Nos.	1

Sr. N	Item Description	Unit	Qty
1.10	<p><u>CORNER TABLE - CT-03 , CT- 04</u> SIZE : 1030mm L x 1030mm D x 900mm H Consisting of following items Modules : One Shutter - 1 No. Size : 820mm L X 820mm W x740mm H <u>ELECTRICAL RACEWAY</u> Size: 1030mm - 1 No. Ele Switch & Socket - 4 Nos. (2 Nos. of 6M Plate) <u>JET BLACK GRANITE</u> Size: 1030mm L x 1030mm W</p>	Nos.	2
1.11	<p><u>CORNER TABLE WITH SINK</u>SIZE : 1030mm L x 1030mm D x 900mm H Consisting of following items Modules : One Shutter - 1 No. Size : 820mm L X 820mm W x 740mm H <u>HPP SINK</u>Size: 560mm L x 355mm W - 1 No. <u>3 WAY WATER FAUCET - 1 No.</u> <u>PEG BOARD - 1 No.</u> <u>EYE WASHER - 1 No.</u> <u>JET BLACK GRANITE</u>Size: 1030mm L x 1030mm W</p>	Nos.	1
1.12	<p><u>WORKING TABLE - WB - 08 ,WB - 09 & WB - 10</u> Size: 2660mm L x 750mm W x 900mm H Consisting of following items Modules : One Drawer Two Shutter - 04 Nos Size : 600mm L x 500mm W x 740m H Modules : One Drawer Two Shutter - 01 No Size : 750mm L x 500mm W x 740m H <u>ELECTRICAL RACEWAY</u> Size:2550mm - 1 No. Ele. Switch & Socket - 06 Nos. (03 Nos. of 6M Plate) <u>JET BLACK GRANITE</u> Size: 2660mm L x 750mm W</p>	Nos.	3
1.13	<p><u>WORKING TABLE - WB - 11</u> Size: 1810mm L x 750mm W x900mm H Consisting of following items Modules : One Drawer Two Shutter - 03 Nos</p>	Nos.	1

Sr. N	Item Description	Unit	Qty
	Size : 600mm L x 500mm W x 740m H <u>ELECTRICAL RACEWAY</u> Size: 1800mm - 1 No. Ele. Switch & Socket - 04 Nos. (02 Nos. of 6M Plate) <u>JET BLACK GRANITE</u> Size: 1810mm L x 750mm W		
1.14	<u>LABORATORY FUME HOOD (4' feet)</u> Constant Bypass, Standard, GI Construction External Size:- 1200mm L x 1100mm W x 2300mm H Internal Size:- 900mm L x 800mm W x 1250mm H Consisting of following items Utility Services Air - 1 No. Nitrogen - 1 No. Vacuum - 1 No. Water - 1 No. Cup Sink - 1 No. Electrical Sockets Tube light ON/OFF Switch or digital switch 6/16 Amp. Socket Single Phase - Norisys or equ.Make - 4 Nos. Vertical Sash Internal wiring of Single Phase 20 Amp. Terminated at Fume Hood Top / Bottom rear end. Specially Designed 100% Non-Metallic Base Storage Cabinet internally lined with PRL & UPVC Glass Shutters or MS Pipe construntion with removable module epoxy powder coating. Completely total installation by vendor	Nos.	1
	A - Centrifugal Blower (2 HP) 1400 to 1800 CFM	Nos.	1
	B - Alluminium Anodised scaffold	Nos.	1
1.15	<u>WORKING TABLE - WB - 12</u> Size: 760mm L x 750mm W x 900mm HConsisting of following items <u>SINK TABLE</u> Modules : Two Shutter - 1	Nos.	1

Sr. N	Item Description	Unit	Qty
	No.Size : 750mm L x 750mm D x 740mm HPP SINKSize: 560mm L x 465mm W x 355mm H - 1 No. 3 WAY WATER FAUCET - 1 No.PEG BOARD - 1 No.JET BLACK GRANITE Size: 760mm L x 750mm W		
2	PP+FRP DUCT - ENVIRONMENT LAB		
	PP+FRP Duct (Including Installation Charges)	Sq.Mtr	15
3	GLASS PARTITION & OTHER WORK - ENVIRONMENT LAB		
3.1	Partition : (01) L 15.5 Ft x H 13 ft.	Sq.Ft	202
	(02) L 12.53 Ft x H 13 ft.	Sq.Ft	163
	(03) L 7.5 Ft x H 13 ft.	Sq.Ft	98
	ALL ALUMINIUM SECTION MATERIAL 1.2 MM THICKNESS ALUMINIUM MATERIAL POLISH IN ANODISE WORK (BLACK & IVORY) ALL GLASS MATERIAL IN 5 MM GLASS (PLAIN GLASS) PARTICAL BOARD SHHET (12MM)		
3.2	<u>Glass door (Single Door) with handle, & lock 7Feet height x 4 feet length</u>	Nos.	2
	<u>Glass door (Double Door) with handle & Lock 7feet height x 5 feet length</u>	Nos.	1
3.3	<u>CIVIL WORK (VITRIFIED FLORING)</u> P/F VITRIFIED FLOORING 24 X 24 VITRIFIED TILES RANGE	Sq.Ft	1200
3.4	<u>PLUMBING WORK (DRAINAGE LINE)</u> As per the design All pipes with standard quality	RFT	100
3.5	<u>PLUMBING WORK (WATER LINE)</u> As per the design All pipes with standard quality	RFT	100
3.6	<u>Electrical Wiring, Data & Telephone line</u> <u>Electrical:</u> Distribution Box: Total points 10 nos. Single Phase Incomer 1no.: 32 Amps	Lot	1

Sr. N	Item Description	Unit	Qty
	<p>Independent MCB 's for all Points</p> <p>Outgoing: 10 Amp, Double Pole (DP), Make: Legrand/ABB/Siemens</p> <p>MCB Enclosure, Make: Legrand / C & S 7035 RAL with DIN RAIL channel</p> <p>All wiring should be inside casing capping with surface mounting.</p> <p>All cable wires should be FRLSH</p> <p>Electric wiring: poly cab/ Finolex/ RR cable (2.5 sq. mm & 6 sq.mm)</p> <p>UPS:</p> <p>3kva/72v MAX+ Online UPS with inbuilt 7ah/12v smf battery 06nos.</p> <p>make: Microtek – 2 no.</p> <p>With installation and required accessories</p> <p>Internet Point: 8 no.</p> <p>1 GBPS LAN port with CAT 6 Cable, installation with surface mounting casing capping tape along with cable laying and labour cost</p>		
3.9.3	<p>PAINT WORK</p> <p>All colours Asian Paints (Plastic Paint)</p> <p><u>ALL COLOUR MATERIAL MUST BE PROVIDE ASIAN PAINTS (PLASTIC PAINT)</u></p> <p><u>WALL PUTTY MUST BE PROVIDE JK WALL PUTTY</u></p>	Sq.Ft	250
4	MODULAR LAB FURNITURE - SOLAR LAB		
4.1	<p><u>WORKING TABLE - WB - 01</u></p> <p>Size: 4060mm L x 900mm W x 900mm H</p> <p>Consisting of following items</p> <p>Modules : One Drawer Two Shutter - 02 Nos</p> <p>Size : 750mm L x 500mm W x 740m H</p> <p>Modules : One Drawer Two Shutter - 03 Nos</p> <p>Size : 600mm L x 500mm W x 740m H</p> <p><u>ELECTRICAL RACEWAY</u></p> <p>Size: 3450mm - 1 No.</p> <p>Ele. Switch & Socket - 06 Nos. (03 Nos. of 6M Plate)</p> <p><u>SINK TABLE</u></p> <p>Modules : Two Shutter - 1 No.</p>	Nos.	1

Sr. N	Item Description	Unit	Qty
	<p>Size : 750mm L x 750mm D x 740mm H</p> <p><u>PP SINK</u></p> <p>Size: 560mm L x 465mm W x 355mm H - 1 No.</p> <p><u>3 WAY WATER FAUCET - 1 No.</u></p> <p><u>P.P peg board: 1 No. (Size: 2 ft x 2 ft)</u></p> <p><u>JET BLACK GRANITE</u></p> <p>Size: 4060mm L x 900mm W</p>		
4.2	<p><u>WORKING TABLE - WB - 02</u></p> <p><u>Size: 1660mm L x 700mm W x900mm H</u></p> <p>Consisting of following items</p> <p>Modules : One Drawer One Shutter - 02 Nos.</p> <p>Size : 450mm L x 500mm W x 740m H</p> <p><u>LEG SPACE</u></p> <p>Size: 750mm - 1 No.</p> <p><u>ELECTRICAL RACEWAY</u></p> <p>Size: 1650mm - 1 No.</p> <p>Ele. Switch & Socket - 04 Nos. (02 Nos. of 6M Plate)</p> <p><u>JET BLACK GRANITE</u></p> <p>Size: 1660mm L x 700mm W</p>	Nos.	1
4.3	<p><u>FRAME TABLE</u></p> <p>Size: 1250mm L x 700mm W x 900mm H</p>	Nos.	1
4.4	<p><u>LABORATORY FUME HOOD (4' feet)</u></p> <p>Constant Bypass, Standard, GI Construction</p> <p>External Size:- 1200mm L x 1100mm W x 2300mm H</p> <p>Internal Size:- 900mm L x 800mm W x 1250mm H</p> <p>Consisting of following items</p> <p>Utility Services</p> <p>Air - 1 No.</p> <p>Nitrogen - 1 No.</p> <p>Vacuum - 1 No.</p> <p>Water - 1 No.</p>	Nos.	1

Sr. N	Item Description	Unit	Qty
	<p>Cup Sink - 1 No.</p> <p>Electrical Sockets</p> <p>Tube light ON/OFF Switch or digital switch</p> <p>6/16 Amp. Socket Single Phase - Norisys or equ.Make - 4 Nos.</p> <p>Vertical Sash</p> <p>Internal wiring of Single Phase 20 Amp. Terminated at Fume Hood Top / Bottom rear end.</p> <p>Specially Designed 100% Non-Metallic Base Storage Cabinet internally lined with PRL & UPVC Glass Shutters or MS Pipe construction with removable module epoxy powder coating.</p> <p>Completly total installation by vendor</p>		
	A - Centrifugal Blower (2 HP) 1400 to 1800 CFM	Nos.	1
	B - Alluminium Anodised scapfold	Nos.	1
4.5	<p><u>WORKING TABLE - WB - 04</u></p> <p>Size: 3520mm L x 900mm W x 900mm H</p> <p>Consisting of following items</p> <p>Modules : One Drawer Two Shutter - 03 Nos</p> <p>Size : 750mm L x 500mm W x 740m H</p> <p>Modules : One Drawer Two Shutter - 02 Nos</p> <p>Size : 600mm L x 500mm W x 740m H</p> <p><u>ELECTRICAL RACEWAY</u></p> <p>Size: 3520 mm - 1 No.</p> <p>Ele. Switch & Socket - 08 Nos. (04 Nos. of 6M Plate)</p> <p><u>JET BLACK GRANITE</u></p> <p>Size: 3520mm L x 900mm W</p>	Nos.	1
4.6	LAB CHAIR (750 MM HEIGHT, ADJUSTABLE AND WITH ARM REST WITH BACK SUPPORT, SS MATERIAL)	Nos	6
4.7	OFFICE CHAIR (chair with frame with S.S, back support, PU foam in back and moulded PU Sheet, revolving, bend PU arms)	Nos.	6
4.8	<p><u>ANTI VIBRATION TABLE</u></p> <p>Size: 750mm L x 750mm W x 900mm H</p>	Nos.	2

Sr. N	Item Description	Unit	Qty
	<p>Consisting of following items:</p> <p>i) Table Top : 18 to 20 mm Thick Black Granite</p> <p>ii) Frame : Pedestal Frame 50mm x 25 mm Rectagular Pipe</p> <p>Complete structure is finally powder coated with 80 microns thickness Anti vibration bench is suitable for micro weighing scale, to absorb the vibration, specially designed rubber pads are provided below the granite & at the bottom of the table.</p>		
4.9	<p><u>Electrical Wiring, Data & Telephone line</u></p> <p>Solar Lab 1:</p> <p>Distribution Box: MCB BOX (make: CNS/Legrand with RAL 7035) Incomer 1 no. : 63 amp, FP, MCB Out going 32 amp: 3 Nos., 4P, MCB 6 amp, DP, 14 nos, MCB Cable: 6 sq.mm for 32 amp MCB Cable: 4 sq. mm for 6 amp MCB Electric wiring: poly cab/ Finolex/ RR cable (2.5 sq. mm & 6 sq.mm) AC Point: 2 Nos with required accessories</p> <p>All wiring should be inside casing capping with surface mounting. All cable wires should be FRLSH Note: Shifting of 2 No's Industrial plug from existing lab.</p> <p><u>Internet Point: 1 no.</u></p> <p>1 GBPS LAN port with CAT 6 Cable, installation with surface mounting casing capping tape along with cable laying and labour cost</p> <p><u>SOLAR LAB – 2</u></p> <p>Distribution Box Incomer 1 no.: 32 amps – DP Out going 16 amp: 3 Nos., 2P, MCB Electric wiring: poly cab/ Finolex/ RR cable (2.5 sq. mm & 6 sq.mm)</p>	Lot	1

Sr. N	Item Description	Unit	Qty
	Plug socket 5 nos. 5/15 amp with surface wiring inside casing capping. UPS: 3kva/72v MAX+ Online UPS with inbuilt 7ah/12v smf battery 06nos. make: Microtek – 1 no. With installation and required accessories		
4.10	Installation Charges		
5	PP+FRP DUCT - SOLAR LAB		
5.1	PP+FRP Duct	Sq.Mtr	15
6	GLASS PARTITION & OTHER WORK - SOLAR LAB		
6.1	<u>FLEX ON ALUMINIUM PARTATION</u> Size: 6815 mm L x 2940 mm H	Sq.Ft	225
6.2	<u>PHENOLIC RESIN SHEET (TRESPA OR EQUIVALENT MAKE WITH CERTIFICATE)</u> Size:2800mm L x 3926 mm H x 2 Nos.	Sq.Ft	250
6.3	<u>FALL CELLING (Gypsum Movable)</u> Size: 6815 mm L x 2900 mm W (10FT HEIGHT), ceiling light: size: 2 ft x 2 ft box LED light (60 W x 8 nos.)	Sq.Ft	230
6.4	<u>PAINT ON BOTH SIDE WALL, COLUMN AND CELLING (SOLAR LAB 2)</u> Size: 2800 mm L x 3926 mm H	Sq.Ft	230
6.5	SPLIT AC - 02 TON ON WALL WITH FRAME SUPPORT with installation	Nos..	2
6.6	SPLIT AC - 1.5 TON ON WALL with installation	Nos..	1
6.7	<u>PLUMBING WORK (DRAINAGE LINE)</u> As per the design All pipes with standard quality	RFT	100
6.8	<u>PLUMBING WORK (WATER LINE)</u> As per the design All pipes with standard quality	RFT	100
6.9	SS 304 / seamless schedule 10 (12.5 mm OD , 10.5 mm ID and 1.5 to 2 mm pipe thickness) piping from ground floor	RMT	45

Sr. N	Item Description	Unit	Qty
	Approximate 45 meters pipe require including control valve for gas cylinders connection		
6.1	1 feet Platform require including 5 nos. cylinder cage		

SPECIFICATION OF MATERIAL TO BE USED IN FURNITURE

1. Work Top

- Made of (17 to 19mm) thick jet black granite top with chamfer molding at the front & grow at the bottom to avoid chemical spillage on the modules.

2. Material of Construction

- Completely made of GI sheets.

3. Module

- Completely made of 1.6 mm structure and 1.0 mm for Drawers and shutters. Galvanized sheets as per IS 277 standard. The shutter & drawer front are of sandwich Construction.
- Construction of modules is welding less to avoid corrosion; shutter is mounted to the modules by hinges which are openable to 95 degree & self closing on return.
- With 5 years guarantee for colour and epoxy powder coating.
- Material brand of GI sheet: Tata or Jindal make
- The telescopic drawer slide are used which is very sturdy & able to take load up to 30Kg.
- All drawers are having hettich make multipurpose lock.
- Length: 450mm/500mm/750mm/900mm L (as per layout)
- Depth: 500mm D
- Total Wall Bench Height in standing position 900mm (PLINTH/B5025 Design)
- Total Wall Bench Height in seating position 750mm (PLINTH/B5025 Design)

4. Module Bottom Frame

- Bottom frame is Made from 1mm G. I. sheet with height of 120mm.

5. Knee Space Area

- Foot rest with open able back cover panel. Adjustable +-100mm.
- Instrumentation and sitting area knee space is of 750mm ht.

6. Reagent Rack

- Island table: reagent rack will be of 300mmD X 600mmH
- Side table reagent rack will be of 200mmD X 600mmH

7. Electrical Trucking

- Island Table: Triangular Electrical Trucking of 100mmD X 100mmH
- Wall Table: Triangular Electrical Trucking of 100mmD X 100mmH
- With internal wiring.

8. Switch & Sockets

- Norisys make: Electrical Socket with piano switch 5/15amp and 16 Amps MCB with internal wiring (Default specs).

9. LAN (Data) Points

- Norisys make: RJ-45 type Data point fixed in electrical trucking. (If mentioned in drawing).

10. Drawer Channel

- Ebco Make telescopic Type or Hi-standard.

11. Hinges

- Zero Degree or 180 Degree Hettich Germany Make or Hi-standard make.

12. Lock

- Hettich Germany Make or Hi-standard make.

13. Handle

- Aluminum Concealed Type (Standard make).

14. Key board Tray

- Ebco Make or standard make.

15. Eye Wash/Valve

- Premier/ RWD (Imported).

16. MOC of Casing & Fan

- PP+FRP.

17. Aluminium section: make

- Jindal or Hindalco.

18. Motor

- Crompton/ standard make.

19. Glass make

- Modigaurd or Saint Gobain.

20. Complete furniture is powder coated with 60 to 70 microns layer.

21. Air Condition: Brand:

- Daikin/Mithubishi heavy duty minimum 4 star spit Inveter A.C.

22. Ceiling light Size

- Size: 2 ft x 2 ft box LED light (60 w).

23. Lab CHAIR AND STOOL

- Brand: Hof/Godrej.

24. Electric wiring

- Poly cab/ Finolex/ RR cable (2.5 sq. mm & 6 sq.mm).

25. Plumbing pipes

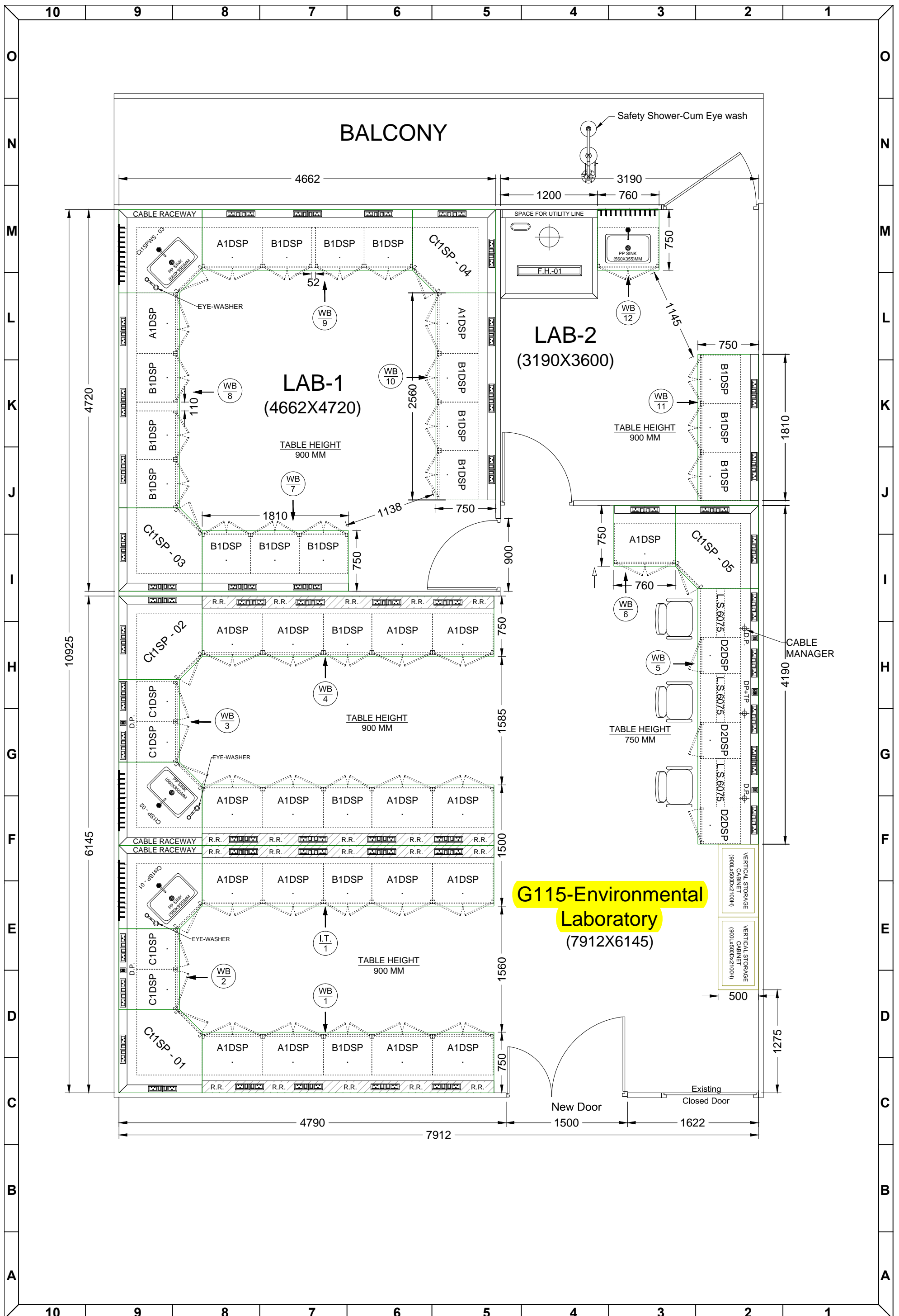
- UPVC: Inlet 25 mm and outlet 50 mm (make: Astral/Ashirwad).

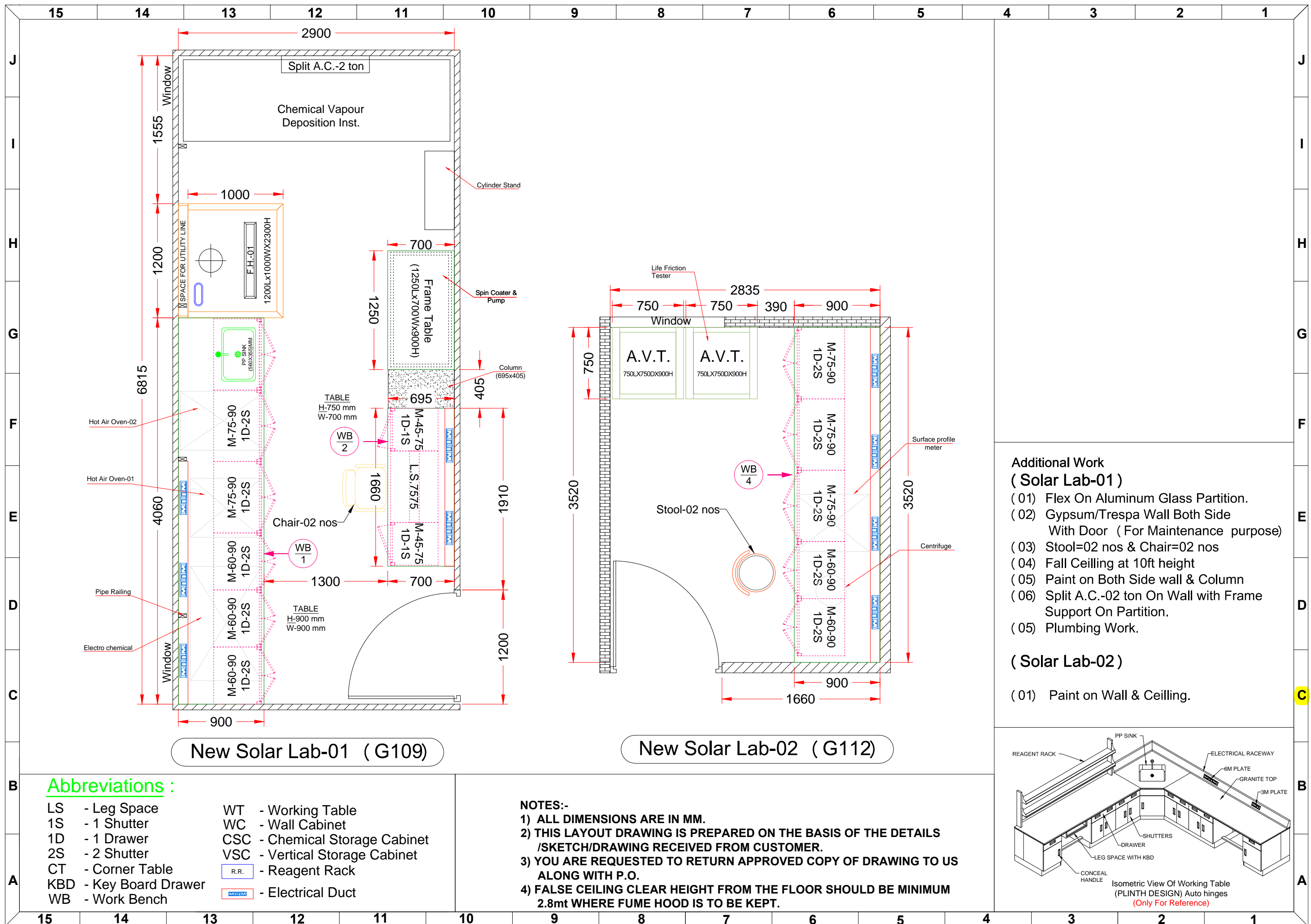
26. MCB make

- Legrand/North West.

27. Warranty

- 1 Years warranty after installation.

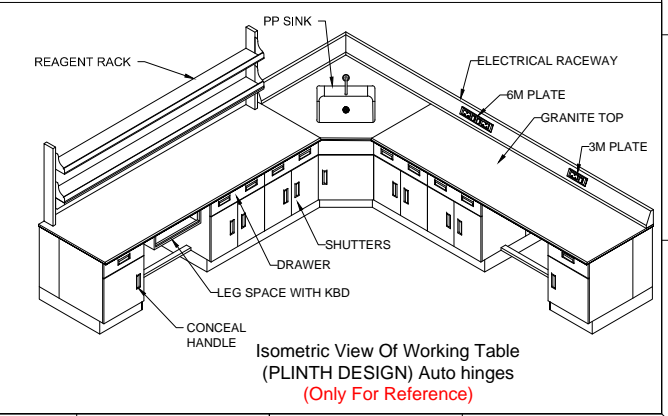




New Solar Lab-01 (G109)

New Solar Lab-02 (G112)

- Additional Work (Solar Lab-01)**
- (01) Flex On Aluminum Glass Partition.
 - (02) Gypsum/Trespa Wall Both Side With Door (For Maintenance purpose)
 - (03) Stool=02 nos & Chair=02 nos
 - (04) Fall Ceiling at 10ft height
 - (05) Paint on Both Side wall & Column
 - (06) Split A.C.-02 ton On Wall with Frame Support On Partition.
 - (07) Plumbing Work.
- (Solar Lab-02)**
- (01) Paint on Wall & Ceiling.



Abbreviations :

- | | |
|------------------------|--------------------------------|
| LS - Leg Space | WT - Working Table |
| 1S - 1 Shutter | WC - Wall Cabinet |
| 1D - 1 Drawer | CSC - Chemical Storage Cabinet |
| 2S - 2 Shutter | VSC - Vertical Storage Cabinet |
| CT - Corner Table | R.R. - Reagent Rack |
| KBD - Key Board Drawer | ED - Electrical Duct |
| WB - Work Bench | |

- NOTES:-**
- 1) ALL DIMENSIONS ARE IN MM.
 - 2) THIS LAYOUT DRAWING IS PREPARED ON THE BASIS OF THE DETAILS /SKETCH/DRAWING RECEIVED FROM CUSTOMER.
 - 3) YOU ARE REQUESTED TO RETURN APPROVED COPY OF DRAWING TO US ALONG WITH P.O.
 - 4) FALSE CEILING CLEAR HEIGHT FROM THE FLOOR SHOULD BE MINIMUM 2.8mt WHERE FUME HOOD IS TO BE KEPT.