



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
TIRUPATI**

E -Tender Notice.

Ref: IISERT/ENGG/2024-25/02

Date: 24.07.2024

Online tenders are hereby invited in **two cover system** from Indian Nationals for the **Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati**. Bidders can download complete set of bidding documents from e-procurement Platform <https://eprocure.gov.in/eprocure/app> from 24/07/2024 Onwards. Bidders need to submit the bids online by uploading all the required documents through <https://eprocure.gov.in/eprocure/app>

Last Date/ Time for receipt of bids through e-procurement is: 03/08/2024 up to 15:00 hrs

Late bids shall not be accepted.

For further details regarding Tender Notification & Specifications please visit website: <https://eprocure.gov.in/eprocure/app> and www.iisertirupati.ac.in/tenders

CRITICAL DATE SHEET

Online Publication & Tender Document Download Date & Time	24/07/2024, 11:30 Hrs
Bid Submission Start Date & Time	27/07/2024, 17:00 Hrs
Pre-Bid Meeting Date & Time	27/07/2024, 11:00 Hrs
Bid Submission End Date & Time	03/08/2024, 15:00 Hrs
Technical Bid Opening Date & Time	05/08/2024, 15:00 Hrs
Price Bid Opening Date & Time	Will be announced after technical evaluation to the successful bidders.



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
TIRUPATI**

E-Tender-Notice.

Name of Work	Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati
Tender Notification No	IISERT/ENGG/2024-25/02
Date	24/07/2024
Estimated Cost	Rs 35.28 Lakhs
Tender Fee Amount	Rs. 1000/-
Last Date & Time of submission of Tender	03/08/2024 up to 15:00 Hrs
Address for submission of Tender	Engineering Department IISER Tirupati Email: engineering@iisertirupati.ac.in
Date & Time of opening of technical bid	05/08/2024 @ 15:00 Hrs

Bidding Procedures

Section I: Instructions for Online Bid Submission

Instructions to the Bidders to submit the bids online through the Central Public Procurement Portal for e-Procurement at <https://eprocure.gov.in/eprocure/app>.

1. Possession of valid Digital Signature Certificate (DSC) and enrolment / registration of the contractors / bidders on the e-Procurement/e-tender portal are prerequisite for e-tendering.
2. Bidder should register for the enrolment in the e-Procurement site using the “Online Bidder Enrolment” option available on the home page. Portal enrolment is generally free of charge. During registration, the bidders should provide only valid and true information including valid E-mail id. All the correspondence shall be made directly with the contractors/bidders through E-mail id as registered.
3. Bidder need to login to the site through their user ID / password chosen during enrolment / registration.
4. Then the Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by SIFY / TCS / nCode / eMudra or any other Certifying Authority recognized by Controller of Certifying Authorities (CCA) India on e- Token / Smartcard, should be registered.
5. The registered DSC only should be used by the bidder in the transactions and should ensure safety of the same.
6. Contractor / Bidder may go through the tenders published on the site and download the tender documents/schedules for the tenders.
7. After downloading / getting the tender document/schedules, the Bidder should go through them carefully and then submit the documents as required, otherwise bid will be rejected.
8. Any clarifications may be sought online through the tender site, through the contact details or during pre-bid meeting if any. Bidder should consider the corrigendum if any published before submitting the bids online. The Bidder is requested to submit their questions/ queries/ clarifications by email to reach the IISER Tirupati before the meeting. Bidders can send Pre-bid queries on their letter head referring tender number on e-mail address engineering@iisertirupati.ac.in before 26.07.2024 up to 17:00 Hours. Pre-bid meeting will be held on 27.07.2024 at 11:00 hours through Multi-mode i.e. Online and In-person meet. The interested bidders can request to join the Pre-Bid meeting through email to engineering@iisertirupati.ac.in.
9. Bidder may log in to the site through the secured login by the user id / password chosen during enrolment / registration and then by submitting the password of the eToken / Smartcard to access DSC.
10. Bidder may select the tender in which he / she is interested in by using the search option and then move it to the ‘my tenders’ folder.

11. From my tender folder, he / she may select the tender to view all the details uploaded there.
12. It shall be deemed that the bidder has read and understood all the terms and conditions before submitting the offer. Bidder should go through the tender schedules carefully and upload the documents as asked; otherwise, the incomplete bid shall stand rejected.
13. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and ordinarily it shall be in PDF /xls / rar / jpg / dwf formats. If there is more than one document, all may be clubbed together and provided in the requested format. Bidders Bid documents may be scanned with 100 dpi with black and white option. It is advisable that each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip / rar and the same if permitted may be uploaded. The file size being less than 1 MB the transaction uploading time will be very fast.
14. The bidders can update well in advance, the documents such as certificates, annual report details etc., under “My Space option” and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of b i d s .
15. Bidder should submit the Tender Fee as specified in the tender. The hard copy should be posted / couriered / given in person to the Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.
16. **TENDER FEE & EMD EXEMPTION:**
 - (a) **Tender Fee of Rs. 1000/- (Rupees One Thousand only)** should be submitted ECS (Bank transfer / NEFT / RTGS) in favour of INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI.
 - (b) **Bank A/c Details for crediting Tender Fee:**
Name: INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati
Bank: State Bank of India, Korlagunta Branch
Account No: **39721824884**
IFSC Code: SBIN0001901
 - (c) **Bid Security/ Earnest Money Deposit (EMD):** All other bidders should submit an EMD of Rs. 70,500/- in the form of DD/ NEFT /RTGS.
 - (d) **Bank A/c Details for crediting Tender Fee:**
Name: INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati
Bank: State Bank of India, Korlagunta Branch
Account No: **35029946671**
IFSC Code: SBIN0001901
 - (e) No interest will be paid on the Performance Security deposited/ remitted.

- (f) The bidders will have to upload scanned copy of payment details towards Tender fee and the same will be accepted only on verification and confirmation by the Institute. Any delay in credit will not be entertained by the Institute.
17. The financial bid (price bid) i.e. bill of quantity (BOQ) of only technically qualified bidders will be opened online by a committee of members and the result will be displayed on the www.eprocure.gov.in which can be seen by all bidders who participated in the tender.
18. **Time of completion: 60 days from the date of Award of Work.**
19. **Defect Liability/Maintenance Period:** As defined in the scope of the work elsewhere in the document.
20. **Contractors are advised to inspect and examine the site of work and its surroundings before submitting the tenders for better understanding of the site conditions. The Site visit is mandatory for this scope and the bidders are requested to submit the Site visit form attached in the bid document as Annexure VI without fail. The bids submitted without the site visit form are subjected to rejection.**
21. **The authorization letter from OEM is mandatory as the scope of work involves re-installation of existing HVAC units of specific make. The document for the same is to be submitted mandatorily.**
22. Tenders shall submit copy of their registration.
23. The contractor shall not sub-contract the work to sub-contractors or to any single sub-contractor.
24. The successful contractor shall provide a performance guarantee valid for 2 months beyond the completion of work, for his proper performance of the contract within 7 (seven) days from the date of receipt of letter of award. The performance Security shall be in the form of FD/Call Deposit to be pledged in favour of the **Director, INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati**. In case the Performance Security is in the form of Bank Guarantee the same is to be sent to the **Director** in sealed envelope directly by the issuing Bank along with the forwarding letter indicating BG No. purposed of the BG, etc. The amount of the security shall be **5%** of the contract price. The performance security shall be valid until the contractor has executed and completed the works and remedied any defects and maintained the work therein in accordance with the contract. The Performance guarantee shall be returned to the contractor within 14 days from the date of successful completion of work plus maintenance period. If the contractor fails to perform the work as per terms and conditions of the contract, the performance security shall be forfeited.
25. If during the execution of the work the contractor encounters physical obstructions or physical conditions other than climatic conditions on the site, which obstructions or conditions were in his reasonable opinion not foreseeable by the contractor, the contractor shall forth with give notice thereof to the Executive Engineer, IISER. On receipt of such notice, in his opinion feel that such obstructions/conditions could not have been reasonably foreseen by the contractor, after due consultation with the

contractor determine any extension of time with no financial bearing to which the contractor is entitled.

26. **During execution, an employee with Min Qualification of B.E (Mech /Elec) or Equivalent to be deployed for ensuring quality of work.**
27. During the execution of the works, the contractor shall keep the site reasonably free from all unnecessary obstructions and shall store or dispose of any contractor's equipment and surplus materials and clear from the site any wreckage, debris, waste or temporary works in consultation with the Institute.
28. The labour **shall not be allowed to stay or put up labour sheds with in the campus.** Contractor has to decide accordingly.
29. Before issue of any completion certificate, the contractor shall clear away and remove from that part of the site to which the completion certificate relates all contractors' equipment, surplus material, debris, waste material and temporary works of every kind.
30. The contractor while employing labour should ensure that all the statutory labour laws and regulations are adhered to.

In the event of

- (a) The amount or nature of extra or additional work
 - (b) Exceptionally adverse climatic conditions
 - (c) Other special circumstances which may occur other than through a default or breach of contract by the contractor or for which he is responsible.
31. Being such as fairly to entitle the contractor to extension of time for completion of the works or any section or part thereof, the Institute shall after due consultation with the contractor, determine the amount of such extension with no financial bearing and shall notify the contractor accordingly.
 32. If the contractor fails to complete the execution and completion of the works as specified in the work order, the contractor shall be bound to pay as liquidated damages a sum of 1% (percent) per week of delay for such default subject to a maximum of 10% of the contract price.
 33. When whole of the works has been substantially completed, the contractor shall give a notice to the Executive Engineer, IISERT, accompanied by a written undertaking to finish with due expedition any outstanding work during the defect liability period. Such notice and undertaking shall be deemed to be a request by the contractor to the Executive Engineer, IISERT, to issue a taking over certificate.
 34. Defect liability period shall be calculated from the completion of the work, certified by the Executive Engineer, IISERT in the completion certificate.
 35. If the contractor fails to fulfil any of the obligations under this contract, the Institute shall be at liberty to terminate the contract thereby avoiding the contract and will be at liberty to allot the whole work or balance works to any other party at the risk and cost of the first party.
 36. All works are to be carried out as per current specification prevailing in the BIS/ CPWD and directed by the Institute.

37. Parties to submit PAN Card.
38. Parties to submit GST Registration.
39. Any deviation of quantity in the scheduled items during execution shall be intimated to the Institute before taking up the work.
40. **Rates once accepted will not be enhanced due to variation in the rate of materials, labour and government taxes. Nothing extra payable.**
41. No tools, plants or manpower will be supplied by the Institute for any purpose.
42. No materials will be supplied by the Institute.
43. Any dispute arising out of the contract shall be settled by the Registrar, IISERT.
44. The specifications and mode of measurement for all the works shall be in accordance with CPWD specifications unless otherwise specified.
45. In the event of responsive parties quoting same rates, the Institute reserves the right to allot the work to the bidder having higher credentials in terms of turnover, similar work experience, etc.
46. The Institute reserves the right to accept or reject any or all tenders without assigning any reason thereof.
47. All the above requirements are compulsory for fulfilment as part of the tenders failing which tenders will be rejected.
48. All documents, registrations should be valid as on the date of tender.
49. GST as applicable will be deducted from the bills of the contractor.
50. The Party shall be responsible for the safety and wellbeing of all its workmen/employees during the period of execution of the work. The party shall provide all safety materials, gadgets, equipment's etc., to all its workmen/employees to ensure their safety during execution of the work. The Institute shall not be held responsible in case of any accidents, mishaps etc. to the party and its employees.
51. Any delay in completion of the works beyond the stipulated date due to reasons attributable to the contractor may eventually lead to cancellation of letter of award for which the contractor is not entitled to any compensation. The cancellation of letter of award would lead to forfeiture of performance security.
52. If any statutory tax/deduction/recovery is notified by the State/Central Govt, the same shall be deducted from the bill of the contractors as applicable from its effective date of coming into force.
53. The party who is allotted with the work, will have to sign on the measurement book as a token of acceptance of the measurement.
54. The details of the DD /any other accepted instrument, physically delivered, should tally with the details available in the scanned copy and the data entered during bid submission time, otherwise submitted bid shall not be acceptable or liable for rejection.
55. While submitting the bids online, the bidder shall read the terms and conditions and

may accept the same to proceed further to submit the bid packets.

56. The bidder has to digitally sign and upload the required bid documents one by one as indicated. Very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read, understood and agreed with all clauses of the bid document including General conditions of contract without any exception.
57. The bidder has to upload the relevant files required as indicated in the cover content.

In case of any irrelevant files, the bid may be rejected.

58. Price Bid

If the price bid format is provided in a spread sheet file like BoQ_XXXXX.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Priced-bid / BOQ template shall not be modified /replaced by the bidder; else the bid submitted is liable to be rejected for the tender.

59. The bidders are advised to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission due date and time (as per Server System Clock). The TIA shall not be held responsible for any delay or the difficulties faced during the submission of bids online by the bidders.
60. The time settings fixed in the server side and displayed at the top of the tender site, shall remain valid for all actions of requesting, bid submission, bid opening etc., in the e-Tender system. The bidders should follow such time during bid submission.
61. After the bid submission (i.e. after Clicking “Freeze Bid Submission” in the portal), the acknowledgement number indicated by the system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender and also be used as entry pass to participate in the bid opening.
62. All the data being entered by the bidders would be encrypted using Public Key Infrastructure (PKI) encryption techniques to ensure the secrecy of the data. The data entered is not retrievable by unauthorized persons during the bid submission and until the time of bid opening by any person.
63. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers’ public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
64. The confidentiality of the bids is maintained with the use of Secured Socket Layer (SSL) 128-bit encryption technology. Data storage encryption of sensitive fields is done.
65. The bidder should logout of the tendering system using the normal logout option available at the top right-hand corner and not by selecting the (X) exit option in the browser.
66. For any queries regarding e-Tendering process, the bidders may contact at address

as provided in the tender document. Parallel for any further queries, the bidders are advised to contact over phone: **0120-4200462, 0120-4001002** or send an E-mail to cppp-nic@nic.in

67. Technical Eligibility Criteria

Eligibility Criteria for Work Experience.

To become eligible for participating in the bid process the bidders shall satisfy the following Work Experience Criteria

The Bidders should have satisfactorily completed similar works executed in IISER/IIT/Government Scientific Research Institutes/Govt Institutes/ Reputed Organizations, during the last five years ending previous day of last date of submission of tenders as below. For this purpose, cost of work shall mean gross value of the completed work including cost of material supplied by Government/Client but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer/Project Manager or equivalent.

Three similar completed works each costing not less than **Rs. 14.00 lakhs**

OR

Two similar completed works each costing not less than **Rs. 21.00 lakhs**

OR

One similar completed works each costing not less than **Rs.28.00 lakhs**

Similar works shall mean Construction or Establishing of Cell Culture Rooms or Clean rooms or Labs with specialised HVAC works

Note: For the purpose of similar works, works executed in India only shall be considered.

Bidder should have had average financial turnover (Gross) of at least **Rs 35.00 Lakhs** on similar Installation works during the immediate last three consecutive years' balance sheets duly audited by Chartered Accountant

Bidder should not have incurred any loss (profit after tax should be positive) during the immediate last three consecutive financial years ending 31st March, 2024, duly certified and audited by the Chartered Accountant.

Bidder should submit an Undertaking that his firm has not been declared insolvent, and has not been blacklisted by any organisation during the preceding 3 years'.

Bidder should have Solvency of **Rs 14.00 Lakhs** certified by a Scheduled Bank and obtained not earlier than 12 months before the date of submission of bid.

Check List of documents to be submitted along with the tender:

1. Bid Security/ E M D .
2. Copy of Registration.
3. Undertaking not to sub-let the work. (Format enclosed as Annexure III)
4. Pan Card.
5. GST Registration certificate.
6. Documentary proof of work orders, completion certificates.
7. Proof of Financial Turnover certified by Chartered Accountant.
8. Income tax return statement in case of Eligibility works being for a Private entity.
9. Undertaking that firm has not been declared insolvent, and has not been blacklisted by any organisation during the preceding 3 years. (Annexure V)
10. Solvency certificate issued within the last 6 months or having validity till closing date of tender.
11. OEM Authorization letter for this work. (Annexure IV)
12. Mandatory Site Visit form. (Annexure VI)



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
TIRUPATI**

Name of work : Dismantling of the BSL-2 Lab from IISER
Tirupati transit campus and re-fixing as
Cell Culture Labs at IISER Tirupati
permanent campus, Yerpedu Mandal,
Tirupati

Estimated Value of : Rs 35.28 Lakhs

Tender Enquiry No : IISERT/ENGG/ 2024-25/02

Completion Time : 60 days



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
TIRUPATI**

NOTICE INVITING TENDER

01.	Name of work	Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati
02.	Estimated Cost	Rs. 35.28 Lakhs
03.	Tender Fee	Rs. 1000/-
04.	Completion Time	As per tender conditions
05.	Last Date and Time for submission of E-Tender	03.08.2024 @ 15.00 hours Late bids shall not be accepted.
06.	a) Date and Time of Opening of E-Technical Bid	05.08.2024 @ 15.00 hours
	b) Opening of Price bid	After evaluation of technical bids, the date, time and place of opening of the Price bid will be intimated to technically qualified bidders.
07.	Defect Liability Period	12 Months
08.	Address for submission of Tender	Engineering Department. INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati Andhra Pradesh. Email: engineering@iisertirupati.ac.in
09.	Procedure for submission of Bid	As per the e-bidding procedure.

Name of the Agency
Submitting the tender

Details to be furnished by the Contractor.

S. No	Description / Requirement from the tenderer	Tenderer's response should be clear, firm, complete & legible. necessary, separate sheet shall used.	Page No. (must be filled)
1	Name & Complete address of the tenderer with contact details:		
2(a)	Details of Tender Fee Payment		
2(b)	Details of EMD paid		
3	Details of Contract Registration with Govt. depts. Class and value (If available)		
4	Details of PAN		
5	GST Registration:		
6	Employees provident fund Registration:		
7	Employees State Insurance Registration:		
8	Work Experience certificate		
9	Financial Turn Over		
10	Undertaking not to sublet the work		
11	Undertaking of non-blacklisting		
12	Solvency Certificate		
13	Undertaking for site visit		
14	OEM Authorized Certificate		

Note: Self-Attested copy of relevant certificates for items 2 (a) -13 are to be enclosed

I/We hereby certify that the information furnished above and the attached documents as proof of the information are true and correct to the best of our knowledge.

I/We also authorize the IISER Tirupati or his representative to approach the source of the certificate to verify our competence, if required, for processing the tender.



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI

INSTRUCTION TO TENDERERS

1. The tender value includes cost of Civil material, Transportation of materials, Tools and all other related material required for completion of the work.
2. Time is the essence of the contract. Being a time bound project, the contractor should make all efforts to complete the work in time.
3. Even though the overall completion period is indicated as **60 days** the work shall be completed progressively and handed over as per agreed split up schedule if any.
4. **The tenderers are advised to visit the site and get themselves acquainted with the site conditions before submitting the offers.**
5. Quoted rate shall remain valid for a period of **60 days** from the date of tender opening for the release of work order and will be firm throughout the contract period or till completion of work, once awarded and no cost escalation is allowed on any account.
6. The item rate offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete. Rate quoted shall inclusive of GST. The applicable GST can be reimbursed by IISER Tirupati along with the running / final bill on production of documentary evidence by the agency for having paid the GST to the authorities concerned. **The Tenderer should be a GST Registered Contractor. If the proof of GST registration is not furnished the tender of the tenderer will not be eligible for opening price bid and become disqualified.**
7. Some minor changes are likely in the layout, design and specifications of the work. The rates quoted shall be deemed to be inclusive of all such contingencies.
8. The work shall be carried out as per drawings released then and there, BIS/CPWD specifications, and standard code of practice and as per the instructions of Institute. The brief description of items of work is given in the bill of quantities.

9. The contractor has to furnish the security deposit, as per the Clause indicated elsewhere in this document, if the work is awarded.
10. Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor's representative at the work spot, whose strength depends on the value of contract awarded. The contract should arrange for surveying construction site at his own cost.
11. The decision of Institute shall be final and binding on the contractor regarding clarification of items in this tender schedule.
12. The works contract to be entered into with the successful tenderer will be governed by the CPWD Works Manual in force.
13. The contractor shall strictly adhere to all the labour laws in force.
14. To safeguard the persons working at height in roof, wall etc., sufficient number of Industrial Safety nets shall be provided at tenderer's cost in appropriate level and locations. The working hand including Supervisors, Labour should follow the safety guidelines, wear the personal protective items and safety measures such as helmets, safety belts, shoes, etc., before entering into working place.
15. The tenderer has to deploy adequate labour of required categories such as Unskilled, Skilled, Carpenter, Plumber, technically experienced, etc. so as to execute the works simultaneously in all areas of work.
16. The contractor shall follow norms of IISER Tirupati security system for movement of men & materials within the campus.
17. All the materials to be used in the work and the nature of work shall conform to the respective CPWD & BIS and Standard Specifications and shall be got approved by the Institute before actual incorporation in the work.
18. All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Institute before they are incorporated in the work.
19. The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.
20. Tenderers are requested to furnish the duly filled in E format attached as separate sheet along with a cancelled Cheque leaf to accept Electronic fund transfer / RTGS transfer for any payment from IISER Tirupati.
21. No mobilization advance will be given.
22. LD / Penalty clause is applicable as per CPWD Works Manual in force.
23. IISER Tirupati reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract awarded against a different Tender.
24. Tenders submitted after the due date and time will not be accepted.
25. The contractor's responsibility under this contract shall commence from the date of receipt of the LOI by the tenderer. The Contractor will have to plan his work

accordingly to complete the work in the scheduled period.

26. Defect liability period/Maintenance period shall be **12 (Twelve) months**, starting from the completion of work as defined in scope of the work, certified by the Engineer in Charge, IISERT in the completion certificate.
27. Any deviation to this tender terms & condition and schedules of this tender will cause total rejection of the offer submitted.
28. Incomplete offers will become liable for rejection.
29. If the tenderer deliberately gives wrong information in his tender or creates conditions favourable for the acceptance of his tender, IISER Tirupati reserves the right to reject such tender at any stage.
30. Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection
31. This tender notice shall be deemed to form an integral part of the contract to be entered into for this work.
32. The tenderers are advised to go through the condition stipulated in Tender document & code of conduct for Safety of Contract Labourer in details. Any violation thereof will invite punitive action being taken against them. While quoting the rate all the above factors are to be considered.

33. Compensation for Delay:

If the contractor fails to maintain the required progress or to complete the work and clear the site on or before the contracted or extended period of completion, he shall, without prejudice to any other right or remedy of the IISER Tirupati on account of such breach, pay as agreed compensation an amount calculated as stipulated below or such smaller amount as may be fixed by the IISER Tirupati on the contract value of the work for every week that the progress remains below or that the work remains incomplete. This will also apply to items or group of items for which separate period of completion has been specified.

For this purpose, the term 'Contract Value' shall be the value at contract rates of the work as ordered and the compensation for delay is by way of recovery at 1 percent of contract value per week of delay provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the contract value or of the contract value of the item or group of items of work for which a separate period of completion is given.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the IISER Tirupati.

34. Arbitration:

Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications,

estimates, instructions, orders or these conditions or otherwise concerning the work or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Director of IISER Tirupati and if Director is unable or unwilling to act, to the sole arbitration of some other person appointed by the Director, willing to act as such arbitrator. The cases referred to arbitration shall be other than those for which the decision of the Institute is expressed in the contract to be final and conclusive. There will be no objection if the arbitrator so appointed is an employee of IISER Tirupati and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference. The place of arbitration shall be Tirupati.

The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, Director as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. Subject as aforesaid the provision of the Arbitration & Reconciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause. It is a term of the contract that the party involving arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute. The arbitrator(s) may from time to time with consent of the parties enlarge the time for making and publishing the award. The work under the Contract shall, if reasonably possible, continue, during the arbitration proceedings and no payment due or payable, to the Contractor shall be withheld on account of such proceeding.

The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the Parties fixing the date of first hearings. The arbitrator shall give a separate award in respect of each dispute or difference referred to him. The venue of arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion. The award of the arbitrator shall be final, conclusive and binding on all parties to this contract.

In the event of disputes or differences arising between one public sector enterprise and a Govt. Department or between two public sector enterprises the above stipulations shall not apply or its amendments for arbitration shall be applicable.

42. Force Majeure clause:

If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate

this contract nor shall either party have any such non-performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by IISER Tirupati subject to prompt notification by the tenderer to IISER Tirupati of the particulars of the events and supply to the IISER Tirupati if required of any supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries.

The correspondence exchanged against the tender from both tenderer and IISER Tirupati through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.

Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

In case Letter of Intent (LOI) is issued through email, the PC generated time and date of mail shall be construed as the official time and date of release of LOI. In as much as this date is within the last date of validity given by the tenderer the LOI is said to have been issued within the validity period and shall be bidding on both the parties to the business.

Tenderers participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period /given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to IISER Tirupati. If no such details are mentioned in the offer, then it will be construed that the subject tenderer is not under any such hold. But at a later date if it comes to the notice of IISER Tirupati about any such hold under enforcement on the subject tenderer, IISER Tirupati will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalisation of the subject tender irrespective of the status of the subject tenderer in that tender. Such tenderers will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing tenders even if participated till the hold is officially lifted and confirmed in writing.

GENERAL CONDITIONS OF CONTRACT

1. The general conditions given in the CPWD GCC 2023 to be strictly followed while execution of the work.
2. Erection of temporary work sheds etc., at site is not permitted.
3. The works contract to be entered into with the successful tenderer will be governed

by the CPWD works Manual 2019 or the latest in force.

4. The successful tenderer /Contractor shall observe all safety regulations and take necessary safety precaution as called for and Safety Precautions enclosed herewith.
5. In all matters of dispute, the decision of the Director, INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati & Shall be final and binding on the tenderer /contractor.
6. Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rate quoted shall be deemed to be inclusive of all such contingencies.
7. No material shall be incorporated in the work until the inspecting Engineer certified in writing that such materials have been inspected and approved by him or else the rejected material should be removed from site immediately.
8. The Contractor shall closely scrutinize all the drawings issued in connection with the work by this organization and bring to the notice of the Institute if any discrepancies, omissions in the drawings before undertaking the actual work pertaining thereto.
9. The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.
10. The power required for work will be at free of cost. However, the contractor should ensure safety precautions while handling electrical equipment. Power source will be shown near to the working place. Necessary cables etc. shall be in the scope of contractor. Water has to be arranged by the contractor as per requirement.

SPECIAL CONDITIONS OF CONTRACT

1. **Conformity with statutory Acts, Rules, Standards and Codes:** The construction and installation shall be carried out in conformity with all applicable statutory Acts, rules and codes.
2. **Safety codes and regulations:** The contractor shall at his own expenses arrange for the safety provisions as per statutory regulations wherever applicable.
3. **Related documents:** These technical specifications shall be read in conjunction with the general conditions of the contract as well as the schedule. In the event of any discrepancy between these specifications and inter connected contract documents, the technical Requirements as per tender specifications shall prevail.
4. **Power supply:**
 - a) Unless otherwise specified power supply shall be provided by the department free of charge at one point for installation at site. Termination switch gear shall be provided by the contractor. Further extension of power wiring and supply if required

shall be done by the contractor.

b) For Equipment's, the power supply shall be made available by IISERT at the main incomer unit. The termination of their feeder in the main incomer unit shall be the responsibility of the contractor and nothing extra will be paid.

(ii) **Water supply:** Water supply source alone shall be shown for construction purpose to the contractor, but the water source needs to be tapped by the contractor at his own expense.

5. Information to be supplied by Contractor after award of work: Within a period of one week from the date of receipt of award letter, contractor shall provide his program bar chart for submission of preliminary drawings (designing) for approval before, construction, testing, commissioning and handing over to the department. The contractor shall be required to submit in triplicate the following drawings & information for approval of the department before Starting the work:

- 1) All general arrangement drawings
- 2) Details of foundations for construction, load data, locations etc., of various assembled equipment as maybe needed generally by other agencies for purpose of their work.
- 3) Complete layout dimensions for every unit / group of units with dimensions required for erection purposes.
- 4) Any other drawing, information not specifically mentioned above but deemed to be necessary for the job to be done by the Agency.
- 5) On award of work, the contractor shall within one week submit 3 sets of detailed working drawings, containing details of construction layout, piping routes & size, Electrical wiring, critical sectional details as required. Any alternatives proposed by the Institute shall be incorporated and three fresh sets of drawings along with commented drawings shall be resubmitted by the contractor. After final approval 3 sets of approved working drawings (to scale) shall be submitted.

6. Contractor to provide all for testing: The contractor shall provide and pay for all necessary tools, instruments gadgets and testing equipment required for conducting various tests. Any defects in material and / or in workmanship detected during initial testing shall be rectified by the agency at his own cost. Initial testing shall be carried out in the presence of In- Charge or his representative to his entire satisfaction. The installation shall be commissioned after approval by Institute.

7. Testing and Commissioning: On satisfactory completion of initial testing and commissioning, the installation shall be put to continuous running test for a period of

7 days for the purpose of taking over. Any defect in material and/ or in workmanship detected in the course of testing shall be rectified by the contractor at his own cost to the entire satisfaction of the Institute. The test shall be repeated after removal of defects. After successful completion of above tests, the cell cultures shall be taken over.

8. Guarantee and defect liability period: The workmanship for a period of 12 months from the date of completion and taking over the installation. Any part found defective shall be replaced free of costs by the contractor. As the work involves installation of existing equipment by shifting to the permanent campus, the agency need to inform the Institute regarding any defects, non-functional equipment before the start of shifting.

9. Storage of materials and safe custody:

The contractor shall be responsible for watch & ward and safe custody of his equipment and installation till they are formally taken over by IISERT. Non-availability of lockable storage space due to any reasons shall not relieve the contractor of his contractual obligations in any way.

GENERAL SAFETY PRECAUTIONS TO BE FOLLOWED AT WORK SITE DURING EXECUTION

The following safety measures should be strictly adhered to, during execution of works at sites.

1. The safety code as given in the CPWD GCC 2023 to be strictly followed while execution of the work.
2. Ensuring proper lashing of the components while being transported in vehicles.
3. The materials should not be allowed to extend or overflow the sides of the vehicles.
4. The speed restrictions within the Institute must be strictly adhered to.
5. The work to be executed keeping the campus clean and any dirty area during the execution, it is the responsibility of the contractor to clean the space.
6. All personal protective equipment conforms with standard specification and Contractor including and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measurers. Any violation thereof will invite punitive action being taken against them. Also, contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.
7. In the event of any injured/fatal accident for the work men during the course of contract period, the compensation and other medical expenses towards the incident is lies with the contractor. No way is IISER Tirupati responsible.

MOVEMENT OF VEHICLE

1. The vehicle should not travel at more than 20 kmph in our premises.
2. The Driver of the vehicle must possess valid license and produce on demand by the Security Staff.
3. The driving should 'KEEP TO THE LEFT' at all places.
4. The vehicle should not be parked in road which could obstruct the vehicular traffic.

TERMS AND CONDITIONS REGARDING COMPLIANCE WITH VARIOUS LABOUR LAWS BY THE CONTRACTORS FOR IISER Tirupati

1. The Contractor shall not employ in connection with the work any person who has not completed 18 years of age.
2. The Contractor shall in respect of labour employed by him, comply with or cause to be complied with the following statutory provisions and rules and in regard to all matters provided therein.
 - a) The Contract Labour (Regulation & Abolition) Act 1970
 - b) The Minimum Wages Act 1948 and related Central Rules.
 - c) The Payment of Wages Act 1936 and related Central Rules.
 - d) The Employee's Provident Fund & Miscellaneous Provisions Act 1952.
 - e) The Employees State Insurance Act 1948.
 - f) The Workmen Compensation Act 1923.
 - g) The Industrial Disputes Act 1947.
 - h) The payment of bonus act 1965

And any other law or modifications to the above or to the Rules made thereunder from time to time.

3. The Contractor employing 20 or more workmen is required to obtain license from the authorities (The Deputy Chief Inspector of Factories / Assistant Commissioner of Labour as the case may be). The license shall be amended and /or renewed wherever, there is an increase in the workmen employed by him or in the event of contract being extended or renewed. The Contractor shall inform the license number to the IISER Tirupati Management before taking up the work.
4. The Contractor (Licensed or unlicensed) shall promptly furnish every information and document required by IISER Tirupati authorities for the purpose of fulfilling their obligations as Principal Employer and shall render all necessary assistance for the same.

REGISTERS & RECORDS: -

The Contractor shall maintain all registers and records in the proper manner and as required by the regulations of the various authorities concerned and indemnify the Employer from the consequences due to any inaccurate or faulty documentation on the part of the Contractor.

PAYMENT OF BILLS: -

All payments to be made to the Contractor, under this contract shall be by NEFT or RTGS within a reasonable time, after the certification of bills by the execution department, as per the payment terms mentioned below

- i. **25% will be paid after completion of complete shifting activity as per the BOQ.**
- ii. **60% will be paid after completion of all major works including HVAC connections.**
- iii. **15% will be paid after completion of testing and commissioning of the Cell culture facility**

CANCELLATION OF CONTRACT FOR CORRUPT ACTS: -

IISER Tirupati, whose decision shall be final and conclusive, shall without prejudice to any other right or remedy which shall have accrued shall accrue thereafter to IISER Tirupati cancel the contract in any of the following cases and the Contractor shall be liable to make payment to IISER Tirupati for any loss or damage resulting from any such cancellation to the same extent as provided in the case of cancellation for default, If the Contractor shall: -

Offer or give or agree to give to any person in IISER Tirupati service any gift or consideration of any kind, as an inducement or reward for doing or for bearing to do or for having done or for borne to do any act, in relation to the obtaining or execution of this or any other contract for IISER Tirupati service,

OR

Enter in to a contract with IISER Tirupati in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to IISER Tirupati.

OR

Obtain a contract with IISER Tirupati as a result of ring tendering or by non-bonafide methods of competitive tendering, without first disclosing the fact in writing to IISER Tirupati.

CANCELLATION OF CONTRACT FOR INSOLVENCY ASSIGNMENT OF TRANSFER OR SUBLETTING OF CONTRACT: -

IISER Tirupati, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to IISER Tirupati shall cancel the contract in any of the following cases: **If the Contractor,**

- (a) Being an individual or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order for administration of his estate, made against him or shall take any proceedings for liquidation or composition under any bankruptcy Act or assignment of his effects of composition or arrangement for the benefit of his creditors or purport to do so, or if any application made under any

Bankruptcy Act for the time being in force for the sequestration of his estate or if a trust deed be granted by him on behalf of his creditors

OR

- (b) Being a Company, shall pass a resolution or the Court shall make an order for the liquidation of its affairs, or a receiver or Manager on-behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or Manager,

OR

- (c) Assigns, Transfers, Sub-lets or attempts to assign, transfer or sub-let any portion of the work without the prior written approval of the IISER Tirupati.
- (d) Whenever IISER Tirupati exercise the authority to cancel the contract under this conditions, IISER Tirupati may have the work done by any means at the Contractor's risks and expenses provided always that in the event of the cost of the work so done (as certified by concerned officer which is final and conclusive) being less than the contract cost, the advantage shall accrue to the IISER Tirupati and if the cost exceeds the money due to Contractor under the contract, the Contractor shall either pay the excess amount ordered by Institute or the same shall be recovered from the Contractor by other means.
- (e) In case the IISER Tirupati carries-out the work under the provisions of this condition the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plants and/or labour provided by the IISER Tirupati with an addition of such percentage to cover superintendence and establishment charges as may be decided by Institute, whose decision shall be final and conclusive.

CANCELLATION OF CONTRACT IN PART OR FULL FOR CONTRACTOR'S DEFAULT:

If the Contractor:

- (a) Makes default in carrying out the work as directed and continues in that state after a reasonable notice from Institute or authorised representative.
- (b) Fails to comply with any of the Terms and Conditions of the contract or after reasonable notice in writing with orders properly issued there under.
- (c) IISER Tirupati may without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to IISER Tirupati, CANCEL the contract as whole or

in part thereof or only such work order or items of work in default from the contract. Whenever IISER Tirupati exercise the authority to cancel the contract as whole or part under this condition IISER Tirupati may complete the work at the contractor's risk and cost (as certified by Concerned officer, which is final and conclusive) being less than the contract cost, the advantage shall accrue to the IISER Tirupati. If the cost exceeds the moneys due to the Contractor under this contract the Contractor shall either pay the excess amount ordered or the same shall be recovered from the Contractor by other means. In case the IISER Tirupati carries out the work or any part thereof under the provisions of the conditions the cost to be taken into account

in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plant and/or Labour provided by the IISER Tirupati with an addition of such percentage to cover the superintendence and establishment charges as may be decided by the concerned officer, whose decision shall be final and conclusive.

TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR: -

without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, IISER Tirupati shall have the option of terminating the contract without compensation to the Contractor.

SPECIAL POWER TO TERMINATION: -

If at any time after the award of contract, IISER Tirupati shall for any reason whatsoever not require whole or any part of the work to be carried out the Officer concerned shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the foreclosing of the work.

LABOUR: -

The Contractor shall remain liable for the payment of all wages or other moneys to his workpeople or employees under the payment of Wages Act 1936, Employees Liability Act. 1938, Workmen's Compensation Act 1923 or any other Act or enactment, relating thereto and rules framed, there under from time to time.

PRECAUTIONS AGAINST RISK: -

The Contractor shall be responsible for providing at his own expense for all precautions to prevent loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose.

RATE FOR ADDITIONAL ITEM / SUBSTITUTED ITEM:

This will be as per the rate analysis based on the market rate for material and Labour prevailing at the time of execution at place of work as ascertained by concerned Engineer raised to the overall tender percentage at which the work was awarded to cover overheads / establishment /profit.

CORRIGENDUM /AMENDMENT:

It is tenderer's responsibility to watch for any corrigendum or amendment till the opening of a particular tender that will be posted only at IISER Tirupati and CPPP web site.



SCOPE OF WORK & TECHNICAL SPECIFICATIONS

Name of work : Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati

Estimated Value of work : Rs 35.28 Lakhs

Tender Enquiry No: IISERT/ENGG/2024-25/02

Period of Contract : 60 days

Scope of work & Technical Specification

Scope of work:

The scope of work includes the following two parts broadly classified as:

A) Dismantling, packing and shifting of the BSL-2 lab at the Transit campus of IISER Tirupati:

- i. The work includes Dismantling, packing and shifting by transportation of the BSL-2 lab including Air Conditioning, Modular panels & Electrical systems from IISER Tirupati Transit campus to the permanent campus of the Institute at Yerpadu Mandal, Tirupati (which are approximately 25 kms apart). The drawing of the existing BSL-2 facility is annexed for the reference of bidders only; Site visit is mandatory for understanding the scope of the work completely.
- ii. The packing of all the items must be robust, shock-proof, safe and protected as per the requirement of the Institute, so as to ensure that there's no transit damage to any of the Institute equipment/goods.
- iii. Bidder will be held liable for any damages, delays, breakages, losses or theft during the shifting process.
- iv. During execution of the works, the entire premises have to be kept clean and free from any obstructions, all the debris and surplus materials shall be removed from the work site as soon as works are completed.
- v. The list of the major items to be dismantled and shifted is given as table I in the tender document. The list is inclusive but not exhaustive and all the items in the BSL-2 facility need to be dismantled, packed and shifted to the permanent campus of the Institute located at Yerpedu Mandal, Tirupati.
- vi. It is the duty of the contractor to give information of any equipment or material which is defective and cannot be used for the work of re-installation of the Cell culture. This information is need to be submitted in writing by the contractor to the Engineer-In Charge without fail before shifting is started.

B) Re-Installation as Cell Culture Facility in Permanent campus:

- vii. The re-installation of the HVAC equipment, ducting, etc as cell culture is to be carried out at the lab no. 20 & 21 second floor of Academic and Research Building of IISER Tirupati permanent campus.
- viii. The HVAC layout and the zoning plan is attached as annexure for the understanding of the bidder. The scope also involves designing of the ducting, HVAC connections through VRV systems etc to achieve the 1 lakh class cell culture labs.
- ix. The list of equipment, ducting, etc which are to be re-used are given in the table I.

S.No	Description	Unit	Existing Qty	Utilising Qty in cell culture	Balance Qty
1	16 HP VRV out door units (Daikin Make)		6	2	4
2	AHU - 38 TR nominal capacity, dehumidifier air Qty 5000 cfm, 150 mm Static pressure,		2	1	1
3	Exhaust Units.		2	1	1
4	BIBO (Bag in and Bag out) Unit		2	1	1
5	hard copper piping for Condenser units with insulation of 19mm thick Nitrile Rubber pre-formed sections finished 2 coats Polycoat paint including supporting fixtures and accessories etc.				
a	Liquid line with fittings Minimum size of 1/2" Dia		109	100	9
b	Suction Line with fittings minimum size of 1 1/8 " Dia		105	100	5
6	Self-adhesive aluminium tape (3M Or Equivalent make) seamed for the longitudinal joints 120 GSM Zinc coated G.I. Bare Ducting for clean room				
a	24 Gauge		233		233
b	22 Gauge		97		97
7	VFD With Stater panel with suitable Materials.				
a	Motor capacity for 150 mm static pressure of the above AHU		2	1	1
b	Motor capacity for 135 mm static pressure of the above exhaust unit		2	1	1
8	Control panel comprising of PLC based step controller for staging the condensing units as per OEM of outdoor units based on the return air temperature. Step less controlling of Heaters shall be operated with Radix/ equivalent make PID to modulate 0-100% & SCR thyristor controller in conjunction with temp & RH transmitter.		2	1	1
9	safety control system comprising thermostat (measure stat) for the heaters		2	1	1
CLEAN ROOM ITEMS					
10	80 mm +/- 2 mm thick Double skin modular wall panel system made with 0.6 mm thick Precoated GI sheet on both sides with PUF of density 40± 2 kg/m³ as infill, GI profiles for reinforcement along the periphery, floor track suitable to accommodate the floor flush with the wall panel.		37	0	37
11	50 mm +/- 2 mm Thick Double skin modular wall/ ceiling panel system made with 0.6 mm thick Precoated GI sheet on both sides with PUF of density 40± 2 kg/m³ as infill, GI profiles for reinforcement along the periphery, floor track suitable to accommodate the floor flush with the wall panel & Ceiling suspending system for ceiling panels.		264	80	184
12	COVING: wall to wall & wall to ceiling and Column Corners R 70 coving made-up of Al.		350	100	250

13	SINGLE DOORS: 1000 - 1200 x 2100 mm, 46 mm thick doors made with PU painted 0.8mm thick GPSP sheets on both sides with PUF as infill, 1.2 mm thick GPSP powder coated door frames totally flush with the wall panels, hardware like push plates, handles, Dorma / alternative make door closure, double glazed view glass of std size, SS ball bearing butt hinges		10	1	9
14	DOUBLE DOORS: 1800 - 2000 x 2100 mm 46 mm thick doors made with PU painted 0.8mm thick GPSP sheets on both sides PUF as infill, 1.2 mm thick GPSP powder coated door frames		2	0	2
15	VIEW GLASS: 1000 X 1000 mm Installation of Double-glazed view panels in wall partitions with flush design fixed with 5-6 mm thick toughened glasses		4	4	0
16	electromagnetic door interlocking for Air locks and change room areas including electro magnets, position sensors, inter connecting control wiring etc.				
	1 system in conjunction with 3 doors.		2	1	1
17	Dynamic Pass Box- MOC as SS 304; 1.20 mm thick Magnahelic Gauge, CFL not less than 300 lux, UV light, Digital UV Hour meter, Non flp Electromagnetic interlocking system with visual indication Feather pads on both sides, view glass on door, SS handles, SS Hinges, DOP Port.				
a	2 Way pass - 800 X 800 X 1000 (H)		3	2	1
18	existing Cables of below sizes				
	3C*1.5sq.mm copper flexible cable		300		
	4c*1 sq.mm Copper flexible cable		350	200	150
19	LIGHT FIXTURES				
	LED wall/ Surface Mounted/Recessed with including all fixing accessories etc complete as required.				
a	Minimum 30W LED (600x 600MM nominal dimension) Recessed mounted clean room type light fixtures with powder coated enclosure with bottom openable type.		4	4	0
b	Minimum 30W LED (600x 300MM nominal dimension) Recessed mounted clean room type light fixtures with powder coated enclosure with bottom openable type		25	25	0

Reference Drawings

1. Existing Layout of BSL-2
2. Common Cell-culture Pressure zone layout.
3. Common Cell-culture HVAC layout.

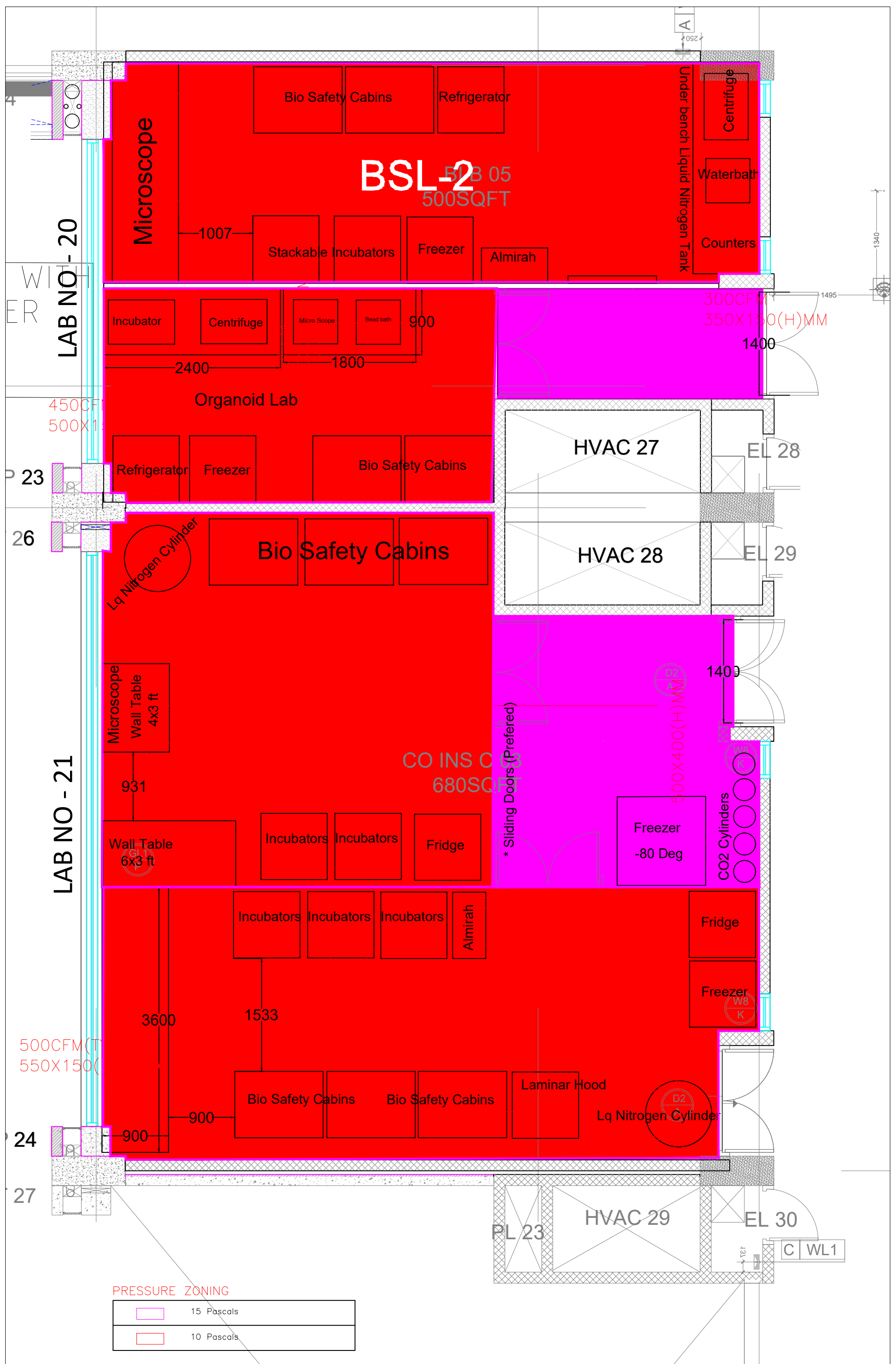
Existing BSL-2 Layout

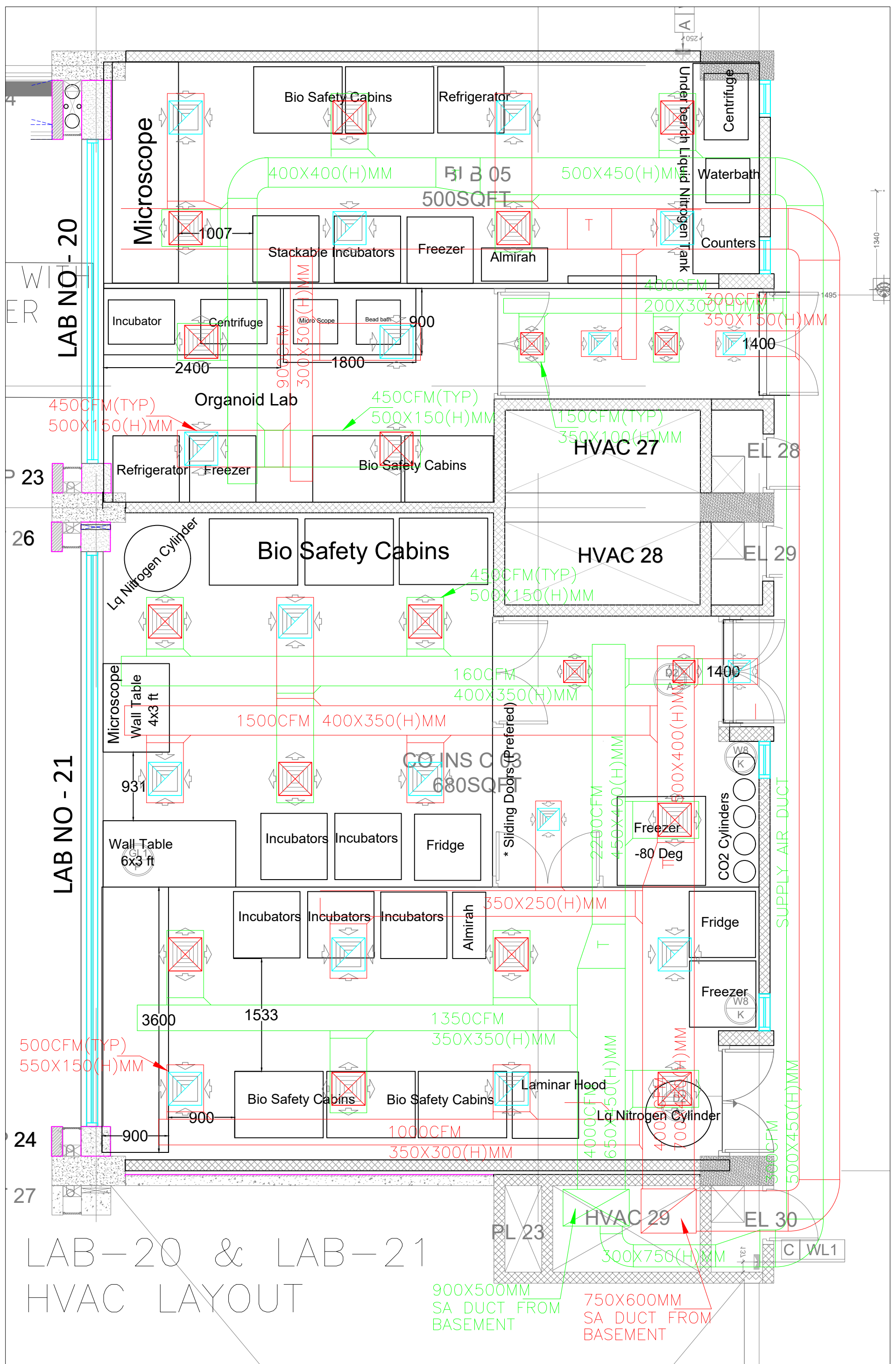
SECTION-AA

LEGEND:

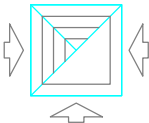
SYMBOLS	DESCRIPTION	F.F.L
[Symbol]	3 MODULE 6/16 AMP RAW POWER SOCKET & SWITCH	900MM
[Symbol]	6 MODULE 6/16 AMP RAW POWER SOCKET & SWITCH	900MM
[Symbol]	3 MODULE 6/16 AMP UPS POWER SOCKET & SWITCH	900MM
[Symbol]	6 MODULE 6/16 AMP UPS POWER SOCKET & SWITCH	900MM
[Symbol]	3 MODULE 16 AMP UPS POWER SOCKET & SWITCH	900MM
[Symbol]	TELEPHONE POINT (900 MM LEVEL)	900MM
[Symbol]	NETWORK POINT (900 MM LEVEL)	900MM
[Symbol]	ELECTRICAL 2 MODULE SWITCH BOARD	1200MM
[Symbol]	ELECTRICAL 3 MODULE SWITCH BOARD	1200MM
[Symbol]	30W LED CLEAN ROOM LIGHT FIXTURES	NA
[Symbol]	30W LED EMERGENCY CLEAN ROOM LIGHT FIXTURES	NA
[Symbol]	30W LED RECESSED MOUNTED LIGHT FIXTURES	NA
[Symbol]	30W LED EMERGENCY RECESSED MOUNTED LIGHT FIXTURES	NA
[Symbol]	20W LED BATTERY LIGHT FIXTURES	NA

LEGEND:		
SYMBOLS	DESCRIPTION	FFL
	3 MODULE 6/16 AMP RAW POWER SOCKET & SWITCH	900MM
	6 MODULE 6/16 AMP RAW POWER SOCKET & SWITCH	900MM
	3 MODULE 6/16 AMP UPS POWER SOCKET & SWITCH	900MM
	6 MODULE 6/16 AMP UPS POWER SOCKET & SWITCH	900MM
	3 MODULE 16 AMP UPS POWER SOCKET & SWITCH	900MM
	TELEPHONE POINT (900 MM LEVEL)	900MM
	NETWORK POINT (900 MM LEVEL)	900MM
	ELECTRICAL 2 MODULE SWITCH BOARD	1200MM
	ELECTRICAL 3 MODULE SWITCH BOARD	1200MM
	36W LED CLEAN ROOM LIGHT FIXTURES	NA
	36W LED EMERGENCY CLEAN ROOM LIGHT FIXTURES	NA
	36W LED RECESSED MOUNTED LIGHT FIXTURES	NA
	36W LED EMERGENCY RECESSED MOUNTED LIGHT FIXTURES	NA
	20W LED BATTERY LIGHT FIXTURES	NA





HVAC LEGEND

	AHU at BASEMENT
	450X450MM SA DIFFUSER
	450X450MM RA DIFFUSER
	300X300MM SA DIFFUSER
	300X300MM RA DIFFUSER
	SUPPLY AIR DUCT
	RETURN AIR DUCT



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
TIRUPATI**

Name of work : Dismantling of the BSL-2 Lab from IISER
Tirupati transit campus and re-fixing as
Cell Culture Labs at IISER Tirupati
permanent campus, Yerpedu Mandal,
Tirupati

Estimated Value of work : Rs 35.28 Lakhs

Tender Enquiry No : IISERT/ENGG/2024-25/02

Period of Contract : 60 days

SCHEDULE 'A'
LIST OF WORKS AND PRICES

NAME OF WORK:

DETAILS & QUANTITIES of each item of work shown in the **BILL OF QUANTITIES** are only approximate. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the corresponding rate quoted by the contractor in the **BILL OF QUANTITIES**

Sl. No.	Description of work	Total amount of work in Rupees	Period of contract
1.	Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati	Rs. 35,27,947/-	60 Days

TO BE DULY TYPED, SIGNED AND STAMPED AND UPLOADED AS PDF IN THE E-TENDER. [THE OVERALL TOTAL OF THE PRICEBID TO BE INCORPORATED IN THE PROVIDED PRICEBID EXCEL FILE BoQ_XXXXX.xls AND UPLOADED]

BILL OF QUANTITIES

	Tender Inviting Authority: Director, IISER Tirupati				
	Name of Work: Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati				
	Contract No: IISERT/ENGG/2024-25/02		Date: 24.07.2024		
Bidder Name:					
S. No	Description of facility	Quantity	Unit	Rate	Amount in Rs
1	Dismantling, safe packing and shifting of 2 nos AHUs, 6 nos VRV out door units, Exhaust units, Ozone mist system, Heater banks, 2 nos electrical panels, PUF boards and ceiling panels etc. from BSL-2 lab, by disconnecting the electrical supply, Closing of isolation valves of the equipment’s to retain the refrigerant gas in the system as standing pressure, removing of power and control cables, disconnecting the copper pipes by de-brazing, Removing of all the light fixtures and other components mounted in the ceiling, Dismantling of entire ceiling panels, wall panels of Approx. quantity of 300 Sqm and 10 nos doors etc., and dismantling of clean room equipment like pass boxes etc. as per the scope.	1			
2	Installation testing and commissioning of Existing High COP VRV type condensing units with MS Stands recommended by OEM with suitable Vibration Isolation pads to avoid vibrations. Including servicing of the units. This includes charging of r 410 A refrigerant				
2.1	Nominal Capacity 16 HP	2			
3	Installation, testing, commissioning and handing over of Below Capacities of Existing 100% Fresh Air Handling Unit. Including servicing of the unit				
3.1	AHU 1 - 38 TR nominal capacity, dehumidifier air Qty 5000 cfm, 150 mm Static pressure, single/multiple circuits 6R Dx Coil interlaced Air quantities, heater quantities & static pressure is to be ascertained as per requirement so as to maintain the 22+/-1 deg C and RH NMT 60%. Minimum heater system capacity: 34 KW	1			

4	Installation, Testing and commissioning of following hard copper piping for Condenser units with insulation of 19mm thick Nitrile Rubber pre-formed sections finished 2 coats Poly-coat paint including supporting fixtures and accessories etc. complete. The sizes shall be designed to suit the above VRV condensing units.				
4.1	Liquid line with fittings Minimum size of 1/2" dia	100			
4.2	Suction Line with fittings minimum size of 1 1/8 " dia	100			
5	Laying, Testing and Commissioning of Drain piping with CPVE PVC Pipe 1 1/2" dia This incus required supports, fittings etc	30			
6	Supply, Erection, testing and commissioning of soldered or self-adhesive aluminium tape (3M or Equivalent make) seamed for the longitudinal joints 120 GSM Zinc coated G.I. Bare Ducting for clean room as per the standard specifications and practice. The fabricated ducting must be suitable for fixing of MS angle frames for the transverse joints. This includes required hard ware like supporting GI threaded rods, GI slotted angles, roof anchors etc Suitable thickness neoprene rubber gasket to be used for all the transverse joints.				
6.1	24 Gauge	100			
6.2	22 Gauge	100			
7	Supply and fabrication MS Angle frames/ channels for ducting, supports etc. MS angles/ channels must be coated with coat of red oxide and black paint	500			
8	Supply and fixing of Thermal Insulation with of following thick Class O with aluminium foil factory laminated for inside ducting. Glass cloth finished with UV resistant poly coat paint of 3 coats for exposed ducting. The thermal conductivity of insulation shall not be more than 0.032 W/m°k @ 0°C mean temperature and density of insulation shall be 40-60 Kg/Cum. This includes required adhesive for apply the insulation over the ducts and required self-adhesive tapes				
8.1	32 mm thick for supply air ducting inside the room	50			
8.2	25 mm thick for Return air ducting inside the room	50			
8.3	32 mm thick for supply air ducting exposed outdoor	50			
8.4	25 mm thick for Return air ducting exposed out door	50			
9	Installation, Testing and Commissioning of below Existing VFD With Stater panel with suitable				
9.1	Motor capacity suitable for 150 mm static pressure of the above AHU	1			
9.2	Motor capacity suitable for 135 mm static pressure of the above exhaust unit	1			

10	Installation, testing and commissioning of Existing Control panel comprising of PLC based step controller for staging the condensing units as per OEM of outdoor units based on the return air temperature. Step less controlling of Heaters shall be operated with Radix/ equivalent make PID to modulate 0-100% & SCR thyristor controller in conjunction with temp & RH transmitter. Heater banks based on the return air humidity of the AHU and the scope shall include required Humidity and Temp sensors, interlock and all the required control cables & terminations etc complete. This also include the required starters for the heater banks required interlock, hooter system, fail indicator. This system should be suitable for driving of minimum 34 KW rating of heaters	1			
11	Installation, testing and commissioning of Existing safety control system comprising thermostat (measure stat) for the heaters to cut off the heater banks if the temperature near heaters goes beyond 50 Deg C. Safety aerostat comprising differential pressure switch (DPS) with required tubing to trip the heater system in the event loss of air flow. the scope includes required internal control cables etc to inter lock with the heater system panel	1			
12	50 mm +/- 2 mm thick Double skin modular wall/ ceiling panel system made with 0.6 mm thick Precoated GI sheet on both sides with PUF of density $40 \pm 2 \text{ kg/m}^3$ as infill, GI profiles for reinforcement along the periphery, floor track suitable to accommodate the floor flush with the wall panel. & Ceiling suspending system for ceiling panels. Joints shall be sealed with silicon sealant. The cut-outs areas will not be deducted from the measurements				
12.1	Supply & installation of PUF panel of above specification	125			
12.2	Installation of existing PUF panel recovered from dismantling of BSL-2	270			
13	COVING: wall to wall & wall to ceiling and Column Corners R 70 coving made-up of Al. Buffed profiles with back runner & Corner Pieces.				
13.1	Supply and installation of R70 coving as specified above	100			
13.2	Installation of existing R70 coving recovered from dismantling of BSL-2	100			
14	Installation of existing 1000 - 1200 x 2100 mm, 46 mm thick single doors made with PU painted 0.8mm thick GPSP sheets on both sides with PUF as infill, 1.2 mm thick GPSP powder coated door frames totally flush with the wall panels, hardware like push plates, handles, Dorma / alternative make door closure, double glazed view glass of std size, SS ball bearing butt hinges and provision for concealed doors should be designed to match with civil wall or modular panel as per the requirement	1			

15	Supply and installation of 1500 x 2100 mm 46 mm thick double doors made with PU painted 0.8mm thick GPSP sheets on both sides PUF as infill, 1.2 mm thick GPSP powder coated door frames totally flush with the wall panels, hardware like push plates, handles, Dorma/ alternative make door closure, double glazed view glass of std size, SS ball bearing and butt hinges	3			
16	Supply and installation of 1200 x 2100 mm 46 mm thick sliding doors made with PU painted 0.8mm thick GPSP sheets on both sides PUF as infill, 1.2 mm thick GPSP powder coated door frames totally flush with the wall panels, hardware like push plates, handles, Dorma/ alternative make door closure, double glazed view glass of std size, SS ball bearing and butt hinges	1			
17	Installation of existing view glass of size 1000 X 1000 mm Double glazed view panels in wall partitions with flush design fixed with 5-6 mm thick toughened glasses including double adhesive tapes, silicon sealants and silica gel to avoid condensation.	4			
18	Supply, Installation, testing and commissioning of electromagnetic door interlocking for Air locks and change room areas including electro magnets, position sensors, inter connecting control wiring etc. Auto fail-safe release by taking the fire alarm signal, Manual panic release system in the event of emergency requirement. Multiple door integration as per the requirement				
18.1	1 system in conjunction with 2 doors.	2			
18.2	1 system in conjunction with 3 doors.	1			
19	Installation, testing and commissioning of Existing digital display units comprising of temperature, RH, pressure and Time along with required sensors. This includes the universal communication port to hook up with the environmental monitoring system/ Central monitoring system / IBMS and provision of mapping points for integration. The scope includes required sensors, Transmitters, SS Ports, PU tubing, SMPS etc complete including alarm system.	3			
20	Making the Factory-made Cut-out, Site Made Cut-outs and providing of internal GI cap frame profile edge preparation along with required fixing arrangements (for grills, lighting) in the Ceiling and Wall panels for the following Items				
20.1	Supply and return air Modules and diffusers	30			
20.2	Clean room light fixture	29			

20.3	Wall cut-outs for Electrical and other services related works as per the site requirements.	50			
21	Installation of existing Cables of below sizes				
21.1	3C*1.5sq.mm copper flexible cable	300			
21.2	4C*1 sq.mm Copper flexible cable	150			
22	Wiring with the following size Medium duty FRLS PVC conduit concealed in wall/ceiling/above false ceiling, including junction boxes, bends, elbows & flexible pipes				
22.1	25 mm dia	100			
22.2	25 mm dia flexible pipe	50			
23	Installation of following type LED wall/ Surface Mounted/Recessed with including all fixing accessories etc complete as required.				
23.1	Minimum 30W LED (600x 600MM nominal dimension) Recessed mounted clean room type light fixtures with powder coated enclosure with bottom openable type. This is complete with required ballast driver type: CC AC-DC, special mounting brackets suitable for clean room walkable ceiling etc. Input voltage 220-240 V, Power factor: 0.95, Light output :100lm-120lm/w,	4			
23.2	b) Minimum 30W LED (600x 300MM nominal dimension) Recessed mounted clean room type light fixtures with powder coated enclosure with bottom openable type. This is complete with required ballast driver type: CC AC-DC, special mounting brackets suitable for clean room walkable ceiling etc. Input voltage 220-240 V, Power factor: 0.95, Light output :100lm-120lm/w,	25			
	Total Rs.				
	<u>PRICE SCHEDULE</u> (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only) Quoted Rate is inclusive of GST				

FORM OF UNDERTAKING

To,
Executive Engineer,
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati.

I / We hereby offer to carry out the work of

I / We hereby carefully perused the following documents connected with the above noted work and agree to abide by the same.

1. Specifications (General & Particular)
2. Drawings
3. Schedule 'A',
4. Bill of Quantities
5. CPWD works Manual in force.

I / We agree to execute all the work referred to in the said documents upon the terms & conditions contained or referred therein and as detailed in Schedule 'A' and Bill of Quantities thereto and to carry out such deviations as may be ordered, vide conditions of the IISER Tirupati.

I / We further agree to refer all disputes, as required to the sole arbitration of an Officer, to be appointed by the Director, IISER Tirupati., in his sole discretion whose decision shall be final and binding.

WITNESS

Signature of the Contractor

Date:

1.

2.

FORM OF UNDERTAKING

To,
Registrar
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati
Permanent Campus, Yerpedu, Tirupati - 517507

Tender No. **IISERT/ENGG/2024-25/02**

Notice Inviting Tender for **Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati**

Sir,

I /we hereby submit our tender for **Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati**

1.I/ We enclosed herewith the following in favour of INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati towards Tender Fee.

Particular	Amount	Payment Reference Details	Payment Date
Tender Fee	1000/-		

I / We hereby reconfirm and declare that I / We have carefully read, understood & complying the above referred tender document including instructions, terms & conditions, scope of work, schedule of quantities and all the contents stated therein. I / We also confirm that the rates quoted by me / us are inclusive of all taxes, duties etc., applicable as on date.

2.I /we have gone through all terms and conditions of the tender document before submitting the same.

Date:

Authorized Signatory

Seal

Name:

Place:

Designation:

Contact No:

FORM OF UNDERTAKING

To,
Registrar,
IISER Tirupati,
C/o Sree Rama Engineering College
Karakambadi Road, Tirupati - 517507

Sub: Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati

Sir,

With reference to the above, I hereby undertake not to sublet the work cited above, if the work is allotted to me.

Date:

Name of contractor

Signature and seal

Date:

SPECIFIC AUTHORISATION LETTER

To

**M/s. IISER TIRUPATHI
Engineering department
Tirupati
Andhra Pradesh.**

Dear Sir

**Sub: Dismantling of the BSL-2 Lab from IISER Tirupati transit campus and re-fixing as
Cell Culture Labs at IISER Tirupati permanent campus, Yerpedu Mandal, Tirupati
Ref: your tender Enquiry No.**

We hereby authorise M/S -----to participate the subject tender.

We confirm our technical and spares support to M/s ----- in execution of
subject works related to our VRV systems.

Yours faithfully

For Daikin Air Conditioning India Pvt Ltd

Authorised signatory.

UNDERTAKING FOR NON - BLACK LISTING

I/we undertake and confirm that our firm/partnership firm has not been blacklisted by any state/Central Departments/PSUs/Autonomous bodies during the last 7 years of its operations. Further that, if such information comes to the notice of the IISER Tirupati then I/we shall be debarred for bidding in IISER TIRUPATI in future forever. Also, if such an information comes to the notice of department on any day before date of start of work, the Engineer-in-charge shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

Signature of Bidder(s) or an authorized
Officer of the firm with stamp

Signature of Notary with seal

Note:1. The affidavit shall be made in current date after the date of invitation of the tender.

Affidavit shall be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-otherwise the tender shall be rejected

COUNTERSIGNED

Engineer in Charge

IISER Tirupati

UNDERTAKING FOR THE SITE VISIT
(On Company Letterhead)

Date:

Place:

I/We _____ hereby certify that I/We have visited site and assessed all the locations mentioned in the tender document, where the services have to be rendered and acquainted the total area and operational system of pest control services in the campus.

Representative, IISER Tirupati

Name:

Designation:

Contact No.

Representative of Agency

Name:

Designation:

Contact No.

Company seal