TENDER DOCUMENT

**NIT No. 01/2023**

FOR

Manning, Operation and Maintenance of the Infrastructural Facilities which include all electrical, Air conditioning and civil facility in ICGEB campus.

Aruna Asaf Ali Marg, New Delhi – 110067

Website: [www.icgeb.res.in](http://www.icgeb.res.in)

**INDEX**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Item** | **Page. No.** |
| 1 | Tender notice | 3 |
| 2 | General terms and condition of submission of bids | 6 |
| 3 | Scope of work | 12 |
| 4 | Terms of Payment | 33 |
| 5 | General terms and condition of the Bid | 34 |
| 6 | Annexures for Technical bid | 39 |
|  | A Technical Bid Form | 40 |
|  | B Turnover Details | 42 |
|  | C Declaration by the Tenderer | 43 |
|  | D Details of other organisation for similar works | 44 |
|  | E Under taking/Declaration for not being blacklisted | 45 |
|  | F Site Visit Certificate | 46 |
| 7 | Price bid (Schedule of quantities) | 49 |

**(1)**

**TENDER NOTICE**

**INTRODUCTORY NOTE:**

ICGEB is an international organization dedicated to advanced research and training in molecular biology and biotechnology, with special regard to the need of the developing world.  ICGEB, New Delhi Component has been given privileges and immunities as for other UN Organizations in India vide Government of India’s gazette notification no. 216, SO 403(E) dated 12 April 1988.

ICGEB invites sealed Bids to meet the immediate requirement for Manning, Operation and Maintenance of the Infrastructural Facilities Including Central Air-Conditioning (Main Building, Animal house and New Building),VRV/VRF systems Window/Split Ac Units, Electric Substations, DG Sets, Internal And External Electrical Installations, Civil Maintenance, Water Supply And Water Softening System, Fire Fighting System with Pumps /DG operating pumps/water hydrant systems and Sewage Treatment Plant at International Centre for Genetic Engineering & Biotechnology (ICGEB)Aruna Asaf Ali Marg, New Delhi – 110067within short time span, from registered agencies who possess adequate resources and trained/skilled manpower to carry out the said work.

|  |  |
| --- | --- |
| **Name of Work** | **Manning, Operation and Maintenance of the Infrastructural Facilities which include all electrical, Air conditioning and civil facility in ICGEB campus** Aruna Asaf Ali Marg, New Delhi – 110067 |
| **Tender No.** | NIT No. 01/2023 |
| **Earnest Money Deposit (EMD) & Tender Fee** | EMD of Rs. 2,00,000/-(Rupees Two lakh only) & Tender Fee of  Rs 2,000/-(Two thousand only) in the form of separate demand draft to be drawn in favour of **International Centre for Genetic Engineering & Biotechnology payable at New Delhi**. |
| **Distribution of Tender Document** | **can be downloaded from the website of the ICGEB** [**http://www.icgeb.res.in/ndinfo.htm**](http://www.icgeb.res.in/ndinfo.htm) |
| **Pre-Bid Meeting** | 29th Mar, 2023 at 4:00 PM |
| **Last Date and time for Bid Submission** | 6th Apr, 2023 and 3:00 PM |
| **Address at which Bid is to be submitted** | Should be dropped in the tender box at the reception of International Centre for Genetic Engineering & Biotechnology, Aruna Asaf Ali Marg, New Delhi – 110067. |
| **Date, Time & Place   of opening of the Technical Bid** | 6th Apr, 2023 at 4:00 PM ICGEB. |
| **Date, Time & Place  of opening of the Financial Bid** | Technically qualified bidders will be called for financial bid. |
| **Method of selection** | The interested Firms/Individuals will be required to submit the Technical and Financial proposals separately. The Financial Proposals of the Firms/Individuals that qualify the Technical Evaluation will be considered. Further, the Firm/Individual having the least quote (L1) in its financial proposal will be awarded the contract. |

**IMPORTANT INFORMATION**

**MINIMUM ELIGIBLITY CRITERIA:**

The bidder should meet the following Eligibility Criteria and must submit documentary evidence in support of their claim for fulfilling the criteria and they should submit an undertaking on their official letterheads to the fairness of these documents while submitting the bid. The bids received without the documentary evidence will be rejected outright.

1. The bidder should have an office in Delhi / NCR.
2. Earnest Money Deposit and tender fee
3. The Bidder should have at least 7 years work experience immediately preceding the date of tender in providing Maintenance services (24 hour basis) in International / National Institutions, Research Laboratories/Centres etc., of similar nature.
4. The Bidder should have an average annual turnover of not less than Rs.2,00,00,000/- (Rupees Two Crores only) per annum for the last three audited years (FY2019-20, 2020-21, 2021-22) in similar kind of work with documentary evidence. Copies of the work orders and completion certificates successfully executed for similar kind of work like or the same during the last 7 years for reputed Public Ltd. Companies, Public sector, Govt. Institutions and autonomous bodies in the following manner.

A). One similar work of value not less than Rs 80.00 Lakhs per annum.

B). Two similar works, each of value not less than Rs. 50.00 Lakhs each per annum.

C). Three Similar works each of value not less than Rs 40.00 Lakhs each per annum.

1. The bidder should obtain a valid **GST, ESI & EPF** registration certificates from relevant authorities (provide latest receipts/challans for documentary evidence).
2. The bidder should submit PAN number with documentary evidence.
3. All the bidders shall have to produce documentary evidence for the satisfactory completion of similar works as mentioned above executed by them from the concerned authorities.
4. The Company / Firm / Individual, any Partners of the firm should not be black listed by any PSU or Government departments/ UN or its agencies/ institutions/ private organisations in respect of any assignments or behaviour of any Partner/ employee. The firm / Individual will provide an undertaking that such Partner/ employee will not be involved in the said contract, directly or indirectly.
5. An undertaking should be submitted that there are no legal suits / criminal cases pending against the Firm and its Proprietor/Partners or having not been earlier convicted on grounds of moral turpitude or for violation of laws in force.
6. Valid Electrical Licence
7. Registration with Labour Commissioner

**(2)**

**GENERAL TERMS AND CONDITIONFOR SUBMISSION OF BIDS**

**Note: Bidders must read these conditions carefully and comply strictly while submitting their bids.**

1. **PREPARATION AND SUBMISSION OF THE BID DOCUMENT:**

The Bidder is expected to examine all instructions, forms, terms & conditions and specifications stated in the Bid Documents. Failure to furnish all information required in the Bid Document or submission of a Bid not substantially responding to the Bid Documents in every respect will be at the Bidder’s risk and may result in the rejection of the Bid. The following sections of the Bid Documents must be completed and submitted by the Bidder:

1. **TECHNICALBID: should contain the following**

# Technical Bid Form. (Annexure-A)

# Certificate of registration (GST, PAN).

# Documentary evidence for minimum qualifying criteria.

# EMD DD of Rs. 2,00,000/-and Tender Fee Rs. 2,000/-

1. Turnover certificates of last 3 years (Annexure – B).
2. Declaration by the Tenderer (Annexure – C)
3. Details of other organisation for similar works(Annexure D)
4. Undertakings / declaration for not being blacklisted (Annexure – E)
5. Site Visit certificate(Annexure F)
6. Complete Tender document (except price bid) duly signed and stamped on each page as a token of acceptance

Note: All the Annexures should be filled properly and neatly.

1. **FINANCIAL / PRICEBID:**

In this bid the bidder is required to quote his items rates/prices for the works mentioned in the scope of work & technical specifications. The rates/price should be inclusive of all material cost, labour, services, charges for the plant/machinery/tools & tackles required for work, freight, Insurance, Govt. duties, excluding GST. If the tax rates are not shown separately, it will be deemed to be included in the quoted price and dealt with, accordingly.

Quoted rates will be deemed to cover all the items & works which may be required for completeness and functioning of total system, even though they may not have been explicitly mentioned in the scope and schedule of works.

No charges towards price escalation, site difficulties shall be payable extra or separately. It is mandatory on bidder to quote all items rate as asked for in the BOQ/ PRICE schedule. Failure to adhere to this condition will lead to rejection of tender.

1. **EARNEST MONEY DEPOSIT AND TENDER FEE :**

Earnest money deposit amount equivalent to 2,00,000/-& Tender Fee of 2,000/-in the form of DD issued by any Commercial Bank in favour of International Centre for Genetic Engineering & Biotechnology payable at New Delhi must accompany the Technical Bid. The E.M.D. of successful bidder shall be released after submission of performance guarantee by him. Bids not accompanied by E.M.D and tender fee shall be rejected. E.M.D. of unsuccessful Bidders will be returned as early as possible. The E.M.D. shall be forfeited if a Bidder withdraws its Bid during the period of validity of the tender.

1. **PERIOD OF VALIDITY.** Bids shall remain valid for **180 days** after last date for bid submission prescribed by ICGEB which may be extended with mutually agreed terms. A bid valid for a shorter period may be rejected by ICGEB as non-responsive.
2. **SITE VISIT:**

Interested Bidders may visit the ICGEB Campus before submission of the bid. For site visit, please contact Mr. Naresh Chand Dabral Component In-charge, Tel: 26741358, 26742357 on any working day (Monday to Friday) between 10:00 to 17:00 hours.

1. **SITE CONDITION**: Before quoting, the contractor must visit the site to inspect the work and shall fully acquaint himself about the conditions and scope of work with regard to accessibility of site required for the satisfactory execution of work. Along with site visit certificate No compensation on account of any site difficulties will be entertained, at a later date, after award of the works.
2. **Tender Rejection:** ICGEB Director reserves the right to reject any or all the tenders in full or in part without assigning any reasons whatsoever, and the decision of the centre in this regard will be binding on all the bidders. Tenders not complying with any of the provisions stated in this tender document are liable to be rejected. Director, ICGEB reserves the right to accept or reject any tender without assigning any reason and does not bind himself to accept the lowest tender.
3. **FORMAT AND PREPARATION OF THE BID**:

The Bidder shall prepare the Technical Bid and Financial Bid and place them in two separate sealed covers, clearly marking each as “Technical Bid” and “Financial Bid”. Name of firm / proprietor, NIT no, address & contact no. should be mentioned clearly on both the envelopes. These should further be placed in a large size envelope with the same information on it. Both Technical & Financial Bids, along with documents required to be submitted, shall be signed by the Bidder and a person duly authorized by the Bidder to, on each page. Written power of attorney accompanying the Bid shall indicate necessary authorization. Any correction in the Bid shall be initiated by the person signing the Bid.

If the cover containing the Bid documents is not sealed and marked as instructed above, no responsibility will be assumed for any misplacement of the Bid or beforetime opening of the envelope.

1. **IMPORTANT NOTE:**
2. Bid received through email and/or after the scheduled date and time will not be accepted.
3. ICGEB reserves the right to accept any or reject all the tenders without assigning any reason thereof.
4. Selection will be done on competitive basis. Canvassing in any manner shall lead to disqualification of the Firm / Individual.
5. All entries in the Application form should be legible and filled clearly. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorized signatory may be attached.
6. No deviations in respect of NIT conditions are acceptable. However technical discrepancy, if any, shall be clearly mentioned in Technical Bid.
7. ICGEB reserves the right to visit the working sites mentioned by bidders as proof of experience to ascertain the quality of service rendered. The bidder will have to arrange for such visit.
8. **BID OPENING AND EVALUATION:**

**BID OPENING**:

All the Technical Bids shall be opened publicly in the presence of the Bidders or their representatives in front of the Bid Evaluation Committee. Bidders' name, documents with presence and absence of Bid security, period of Bid validity and such other items will be announced and recorded at the time of opening of the Technical Bid by the Bid Evaluation Committee. The Financial Bids of Technically Responsive Bidders will be opened in the presence of such responsive Bidders or their representatives on date and time to be notified later. Total Bid amount will be announced and recorded at the opening of the Financial Bid. Minutes of the Bid Opening containing summary of information with regard to each Bid shall be prepared during the opening of both Technical & Financial Bids.

1. **EVALUATION OF BIDS:**
2. For proper evaluation & comparison of Bids, the Bid Evaluation Committee, May at its discretion, ask the Bidder for any clarification of the Bid. The request for clarification and the response shall be in writing, but no changes in the price of the Bids shall be offered or permitted.
3. The technical bids will be evaluated by the Bid Evaluation Committee on the basis of experience in similar organizations, resources available with the firm/ Individual, visit of the Committee to the site where the contractor is currently handling similar work etc.
4. The Bid Evaluation Committee will first evaluate the Technical Bids to determine the substantial responsiveness of the Technical Bids. Substantial Responsive Bid is one which conforms to all the terms and conditions as indicated in the Bid Document and which also establishes Bidder’s qualification to deliver the services according to technical specifications. After the evaluation of all the Technical Bids, Financial Bids corresponding to only substantial responsive Technical Bids will be taken up for evaluation.
5. All non-substantial Technical Bids will be rejected as non-responsive and corresponding Financial Bids shall be excluded from further evaluation.
6. The Bid Evaluation Committee, may at its discretion, decide to waive off any minor non conformity in a Bid which does not constitute a material deviation with regard to services and pricing.
7. While evaluating Financial Bids, if there is any discrepancy between the unit price and the total price, unit price will prevail and total price shall be corrected. However, if the Bidder does not accept the correctness of the errors, his Bid will be rejected.
8. The Bidder must have supplied the information required in the Bid document. A Bidder not fulfilling any criteria stipulated, his Bid will be considered non responsive and may be rejected.
9. The Bidders who have duly complied with the Eligibility Criteria will be eligible for further processing.
10. The successful bidders of the Technical Bids will qualify for opening of the Financial Bids.
11. The Bids which have been established as responsive in all respects will be compared for its price competitiveness. On the basis of technical and financial evaluation, substantially responsive and most advantageous Bid will be considered for the award of contract The bidder is expected to examine all instructions, forms, terms and conditions in the bidding documents. Failure to furnish all information required in the bidding documents or submitting a Bid not substantially responsive to the bidding documents in any respect may result in the rejection of the Bid.
12. THE BIDDER SHALL BEAR ALL THE COSTS associated with the preparation and submission of its bid, and ICGEB in no case will be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
13. PROFESSIONAL EXCELLENCE AND ETHICS: ICGEB requires that all Bidders participating in this Bid adhere to the highest ethical standards, both during the selection process and throughout the execution of the contract.
14. FAILURE OF THE SUCCESSFUL BIDDER to comply with all the requirements shall constitute sufficient grounds for the annulment of the award, in which event ICGEB may make the award to the next lowest evaluated bidder or call for new bids.
15. THE TENDERING AUTHORITY RESERVES THE RIGHT TO ACCEPT ANY BID not necessarily the lowest, reject any bid without assigning any reasons for entering into the Rate Contract.
16. **CONDITIONAL BIDS:** If a bidder imposes conditions, which is in addition to or in conflict with the conditions mentioned herein, his bid is liable to be summarily rejected.
17. The Director, ICGEB reserves the right to cancel any or all the tenders without assigning any reason.
18. Tender once submitted will remain with ICGEB and will never be returned to the bidders.
19. TENDERER TO SIGN ALL PAGES:

The tenderer shall stamp and sign at the bottom right hand corner of every page of the tender documents in token of acceptance of tender conditions and for the purpose of identification.

1. ERASURES AND ALTERATIONS:

Tenders containing erasures and alterations of the tender documents are liable to be rejected unless these are authenticated by the person signing the Tender Documents

1. TENDERER TO SATISFY HIMSELF OF SITE CONDITIONS:

Tenderers are advised to inspect and examine the site and its surroundings and also signed a certificate of site visit enclosed as per Annexure and satisfy themselves before submitting their tender regarding nature of the site conditions, the means of access of the site, the accommodation they may require and in general obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender in any manner. A tenderer shall be deemed to have full knowledge of the site, whether he inspects it or not and no compensation or otherwise of any charges incurred or to be incurred consequent on any misunderstanding or otherwise shall be admissible.

1. TENDERER TO QUOTE BOTH IN FIGURES AND WORDS:

The bidder shall quote their rates for all the items both in figures as well as words given as per the attached format of Price bid. The amount of each item shall be worked out and the requisite total given. Special care shall be taken to write percentage in figures and words, and the amount in figures only in such a way that interpolation is not possible. The total amount shall be written both in figures and in words.

1. TENDER LIABLE TO REJECTION:

Tenders which do not fulfil all or any of the conditions laid down in this notice, or contain conditions not covered and / or not contemplated by the Conditions of tender document and/or expressly prohibited therein or stipulate additional/alternative conditions shall be liable to be rejected and his earnest money will be forfeited. Tenders shall also be liable for rejection on any of the following grounds: -

1. Tenders containing remarks uncalled for.
2. Conditional tenders.
3. Tenders not submitted on prescribed Performa.
4. Telegraphic/Fax/Postal tenders.
5. Tender submitted without EMD.
6. Incomplete Tenders.
7. Tender submitted by the agency who has any unresolved dispute of any kind (indicated in any form of communication) with ICGEB.
8. Tenders with NIL consideration.
9. . CORRESPONDENCE:

Tenderers must mention their postal address and telephone number(s) of the Chief Executive/authorized agent or attorney in the tender. The tender submitted by the tenderer will be rejected if he or his agent cannot be contacted on the last known address or on the intimated telephone number(s) after reasonable search in which event earnest money may be forfeited by the ICGEB.

1. . AMENDMENT IN TENDER DOCUMENTS:ICGEB reserves the right to revise or amend the Bid Documents up to the date prior to the date notified for opening of the tenders and also the right to postpone the date of submission and opening of tenders without assigning any reason, whatsoever

28. **PRE-BID MEETING & QUERY:**

1. The Prospective Bidder or its official representative will be free to attend the pre-bid meeting.
2. Bidders may confirm their participation in advance.
3. The purpose of the meeting is to provide Bidders information regarding the Tender, and opportunity to seek clarifications regarding any aspect of the Tender Document and the assignment. However, the ICGEB reserves the right to hold or re-schedule the Pre-Bid meeting.
4. ICGEB may make modifications to the Tender Document if felt necessary as a result of Pre-bid meeting. All such modifications made to the Tender Document by ICGEB will be issued as a corrigendum to the Tender, which will appear only of the ICGEB website.
5. Any such modifications resulting out of the Pre-bid meeting will be circulated to the Bidders through websites <https://www.icgeb.>res.in or by email.
6. ICGEB will not be responsible for non-receipt of corrigendum/modifications published/sent by ICGEB to the Bidder.

**(3)**

**Scope of work**

Manning, Operation and Maintenance of the Infrastructural Facilities which include all electrical, Air conditioning and civil facility in ICGEB campus Aruna Asaf Ali Marg , New Delhi – 110067

The following are the list of equipment’s / installations in ICGEB which are to be maintained operational

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **1** | **MAIN BUILDING SUBSTATION** | NOS | REMARK |
| 1 | MAIN POWER LT INCOMING PANNEL/TRICOLITE | 03 NOS |  |
| 2 | CAPACITOR PANEL/TRICOLITE | 02NOS |  |
| 3 | AMF PANEL FOR DG SET | 05NOS |  |
| 4 | DG SET 625 KVA/CUMMINS | 03 NOS |  |
| 5 | EXHAUST FAN 18 INCHES/ CROMPTON | 05 NOS |  |
| 6 | CEILING FAN 24 INCHES | 01NO |  |
| 7 | DIESEL FILLING PUMP 01HP/CROMPTON | 01 NO |  |
| 9 | MAIN HT INCOMER PANEL VCB( 05 NOS)/CROMPTON | 01 NO |  |
| 10 | STEP DOWN TRANSFORMER 24V FOR HT CONTROL | 01 NO |  |
| 11 | DIESEL FILLING PUMP MANUEL | 01 NO |  |
| 12 | DIESEL DRUM 200 LTR | 13 NOS |  |
| **2** | **TRANSFORMER ROOM** |  |  |
| 1 | EXHAUST FAN 18 INCHES/CROMPTON | 05 NOS |  |
| 2 | AVR 1000KVA/ANDRIYULE | 02 NOS |  |
| 3 | STEP DOWN TRANSFORMER 1000KVA | 02 NOS |  |
|  |  |  |  |
| **3** | **PUMP ROOM** |  |  |
| 1 | WATER SOFTENER MEDIA,RAISON,SALT /THERMAX | 01NOS |  |
| 2 | MAIN POWER PANEL FOR WATER PUMPS | 01NO |  |
| 3 | HOT WATER CONTROL PANEL | 03 NOS | NON FUNCTION |
| 4 | HOT WATER CIRCULATION PUMP 3 HP | 02 NOS | NON FUNCTION |
| 5 | HOT WATER BOILER | 02 NOS | NON FUNCTION |
| 6 | FIRE FIGHTING PUMP PANEL | 01NO |  |
| 7 | WATER PUMP NEW BUILDING 10 HP,2HP/KIRLOSKAR | 02NOS |  |
| 8 | MAIN LAB CIRCULATING PUMP 7.5 HP/BEACON,KIRLOSKAR | 03 NOS |  |
| 9 | WATER PUMP ADMIN SIDE 05HP/BEACON | 02NOS |  |
| 10 | WATER PUMP ANIMAL HOUSE 03HP/BEACON | 02NOS |  |
| 11 | WATER PUMP TRANSFAR 03HP/BEACON | 02NOS |  |
| 12 | WATER SOFTENER PUMP 3HP/BEACON | 02NOS |  |
| 13 | DRAIN PUMP 5HP/BEACON,SUBMERSIBLE/KIRLOSKAR | 02NOS |  |
| 14 | FIRE PUMP 15HP (JOCKY PUMP)KIRLOSKAR | 01NO |  |
| 15 | FIRE PUMP 65 HP/KIRLOSKAR | 01NO |  |
| 16 | FIRE FIGHTING DG SET/KIRLOSKAR | 01 NO |  |
| 17 | EXHAUST 18 INCH/CROMPTON | 01NO |  |
| 18 | MAIN POWER INCOMER | 01 NO |  |
| **4** | **NEW BUILDING SUBSTATION** |  |  |
| 1 | DG SET 625 KVA CUMMINS MAKE | 01NO |  |
| 2 | LT PANEL WITH CAPACITOR PANEL/NEPTUNE | 01NO |  |
| 3 | EXHAUST FAN 12 INCH/CROMPTON | 02NOS |  |
| 4 | AMF PANEL FOR DG SET/NEPTUNE | 01 NO |  |
| 5 | HT WITH LT TRANSFORMER 1000 KVA/AREVA | 01 NO |  |
| 6 | EXTERNAL LIGHT PANEL/NEPTUNE | 01NO |  |
| 7 | AVR 1000KVA/HEAVY EQUIPMENTS | 01NO |  |
| 8 | RMU HT SWITCH | 02 NOS |  |
| **5** | **NEW BUILDING BASEMENT** |  |  |
| 1 | POWER DISTRIBUTION PANEL/NEPTUNE | 01 NO |  |
| 2 | FIRE FIGHTING PANELL/NEPTUNE | 01 NO |  |
| 3 | 03 TR BLUESTAR MAKE FRESH AIR SYSTEM BASEMENT | 01NO |  |
| 4 | SEWAGE SYSTEM PANELL/NEPTUNE | 01 NO |  |
| 5 | SEWAGE PUMPS 2 HP | 02 NOS |  |
| 6 | SPLIT AC INVERTER,HP CLUSTAR ROOM/O GENERAL MAKE | 02 NOS |  |
| 7 | SPLIT AC 2 TR , SERVER ROOM/DAIKIN,O.GEN MAKE | 2 NO |  |
| 8 | SPLIT AC INVERTER,MISSION INNOVATION ROOM/O GENERAL MAKE | 01 NO |  |
| 9 | SPLIT AC 3 TR , BIO INFORMATIC ROOM/BLUE STAR MAKE | 01 NO |  |
| 10 | HAND DRIER WASH ROOM | 02 NOS |  |
| 11 | GEYSER 10 LTR/WASH ROOM | 02 NOS |  |
| 12 | TFA 8 TR /VOLTAS | 01 NO |  |
| 13 | EXHAUST FERMENTER ROOM | 01NO |  |
| 14 | SPLIT AC 2 TR CARRIER FERMENTER ROOM,ALGY CULTURE | 02 NOS |  |
| 15 | SPLIT AC BLUE STAR 3 TR/NMR | 02 NOS |  |
| 16 | TOILET EXHAUST 12 INCH | 03 NOS |  |
| **6** | **NEW BUILDING GROUND FLOOR** |  |  |
| 1 | LT MAIN INCOMER/NEPTUNE | 01 NO |  |
| 2 | MAIN DISTRIBUTION PANELL/NEPTUNE | 01 NO |  |
| 3 | COLD ROOM /BLUE STAR(R UNIT 02 NOS) | 01NO |  |
| 4 | SPLIT AC 2 TR INVERTER , CULTURE ROOM/DAIKIN MAKE | 02 NOS |  |
| 5 | SPLIT AC 2 TR , MAXPEC ROOM/LG MAKE | 01 NO |  |
| 6 | SPLIT AC 3 TR , MAXPEC ROOM/DAIKIN MAKE | 01 NO |  |
| 7 | SPLIT AC 2 TR INVERTER , MAXPEC/DAIKIN MAKE | 02 NOS |  |
| 8 | SPLIT AC 2 TR INVERTER , GCMS ROOM/DAIKIN MAKE | 01 NO |  |
| 9 | HAND DRIER WASH ROOM | 02 NOS |  |
| 10 | GEYSER 10 LTR/WASH ROOM | 02 NOS |  |
| 11 | TOILET EXHAUST 12 INCH | 02 NOS |  |
| 12 | FRIGHT LIFT | 01 NO |  |
| **7** | **NEW BUILDING FIRST FLOOR** |  |  |
| 1 | MAIN DISTRIBUTION PANELL/NEPTUNE | 01NO |  |
| 2 | COLD ROOM/BLUE STAR(R UNIT 02 NOS) | 01NO |  |
| 3 | SPLIT AC 1.5 TR , ORBITRAP ROOM/DAIKIN MAKE | 02 NOS |  |
| 4 | SPLIT AC 2 TR , MAXPEC ROOM,DR.SHAMS/DAIKIN MAKE | 02 NOS |  |
| 5 | SPLIT AC 2 TR , MAXPEC ROOM,DR.SHAMS/LG MAKE | 02 NOS |  |
| 6 | HAND DRIER WASH ROOM | 02 NOS |  |
| 7 | GEYSER 10 LTR/WASH ROOM | 02 NOS |  |
| 8 | TOILET EXHAUST 12 INCH | 02 NOS |  |
| **8** | **NEW BUILDING SECOND FLOOR** |  |  |
| 1 | MAIN DISTRIBUTION PANELL/NEPTUNE | 01NO |  |
| 2 | COLD ROOM/BLUE STAR(R UNIT 02 NOS) | 01NO |  |
| 3 | TOILET EXHAUST FAN 12 INCHS/CROMPTON | 02NOS |  |
| 4 | SPLIT AC 2 TR , MICROSCOPE ROOM,DR.PAWAN/DAIKIN MAKE | 01 NO |  |
| 5 | SPLIT AC 2 TR , CULTURE ROOM,DR.SHAMS/DAIKIN MAKE | 01 NO |  |
| 6 | SPLIT AC 2 TR , GCMS ROOM,DR.SHAMS/DAIKIN MAKE | 01 NO |  |
| 7 | HAND DRIER WASH ROOM | 02 NOS |  |
| 8 | GEYSER 10 LTR/WASH ROOM | 02 NOS |  |
|  |  |  |  |
| **9** | **NEW BUILDING TERRACE** |  |  |
| 1 | FIRE FIGHTING PUMP 7.5 HP/KIRLOSKAR | 01NO |  |
| 2 | LIFT AND LIFT PANEL/ESSA MAKE | 02 NOS |  |
| 3 | LT INCOMMING PANEL FOR LG VRF SYSTEM | 01NO |  |
| 4 | LIFT ROOM EXHAUST FAN 12 INCHES | 01NO |  |
| 5 | LG MAKE VRF OUTDOOR UNIT 40 HP | 06 NOS |  |
| 6 | LG MAKE VRF OUTDOOR UNIT 44 HP | 02NOS |  |
| 7 | FRESH AIR UNIT 1000 CMH/LG | 04 NOS |  |
| 8 | DUCTABLE UNIT/LG | 06NOS |  |
| 9 | CASSETTE UNIT/LG | 06NOS |  |
| 10 | HI WALL UNIT 2TR/LG | 71NOS |  |
| 11 | HI WALL UNIT 1.5 TR/LG | 31NOS |  |
| 12 | HI WALL UNIT 1.25 TR/LG | 32 NOS |  |
| 13 | HI WALL UNIT 1 TR/LG | 8 NOS |  |
| 14 | HI WALL UNIT .75 TR/LG | 02 NOS |  |
| 15 | AXIAL FAN,EXHAUST | 03 NOS |  |
| **10** | **ANIMAL HOUSE** |  |  |
|  | TERRACE |  |  |
| 1 | 48 TR SCROLL TYPE AIRCOOLED CHILLER/BLUE STAR | 01 NO |  |
| 2 | AHU 7000 CFM FOR FIRST FLOOR | 01 NO |  |
| 3 | AHU 5000 CFM/KNOCK OUT FACILITY | 01 NO |  |
| 4 | BLUESTAR MAKE AIR COOLED CHILLER 36 TR KNOCKOUT | 01 NO |  |
| 5 | ELECTRICAL PANEL | 02 NOS |  |
| 6 | CHILLER PUMP 7.5HP/BEACON | 2NOS |  |
| 7 | CHILLER PUMP 5HP/KIRLOSKAR | 2NOS |  |
| 8 | WATER SOFTNER FOR HUMIDIFIRE | 1 NO | NON FUNCTION |
| 9 | EXHAUST SYSTEM 5HP/FIRST FLOOR | 1 NO |  |
| 10 | EXHAUST SYSTEM KNOCKOUT 2HP | 1 NO |  |
| 11 | EXHAUST FAN LIFT | 1 NO |  |
| 12 | HUMIDIFIRE FOR KNOCK OUT | 1 NO |  |
| 13 | SPLICT AC DAIKIN INVERTER MODEL | 3 NOS |  |
|  |  |  |  |
| **11** | **FIRST FLOOR ANIMAL HOUSE** |  |  |
| 1 | EXHAUST 12 INCH/WASH ROOM | 01 NO |  |
| 2 | AHU 5000 CFM | 01NO |  |
| 3 | HUMIDIFIRE FIRST FLOOR | 01NO |  |
| 4 | HAND DRIER WASH ROOM | 01 NO |  |
| 5 | GEYSER 10 LTR,WASH ROOMS/CROMPTON | 01 NO |  |
|  |  |  |  |
| **12** | **GROUND FLOOR ANIMALHOUSE** |  |  |
| 1 | 80 TR AIR COOLED CHILLER BLUE STAR MAKE | 01NO |  |
| 2 | CHILLER PUMP 7.5 HP | 02 NOS |  |
| 3 | ELECTRIC DISTRIBUTION PANEL | 3NOS |  |
| 4 | AHU 2500CFM WITH STRIP HEATERS/CLEAN ROOM FACILITY | 4NOS |  |
| 5 | AHU 3500CFM WITH STRIP HEATERS/CLEAN ROOM FACILITY | 2NOS |  |
| 6 | EXHAUST SYSTEM 3HP/CLEAN ROOM FACILITY | 06 NOS |  |
| 7 | HUMIDIFIRES | 02 NOS |  |
| 8 | BMS SYSTEM/HONEYWELL | 1NO |  |
| 9 | PASSANJAR LIFT/BHARAT BIJLEE | 01 NO |  |
| 10 | INSINERATOR COMPLETE SET | 01 NO | NON FUNCTION |
|  |  |  |  |
| **13** | **BASEMENT ANIMALHOUSE** |  |  |
| 1 | ELECTRICAL PANEL | 2 NOS |  |
| 2 | EXHAUST FAN 18 INCHES | 01 NOS |  |
|  |  |  |  |
| **14** | **GUEST HOUSE GROUND FLOOR** |  |  |
| 1 | WINDOW AC 1.5TR(O GENERAL 08 NOS,SAMSUNG 02 NOS) | 10 NOS |  |
| 2 | DG SET 82.5 KVA/CUMMINS | 1NO |  |
| 3 | ELECTRIC PANEL/AMF,LT | 2NOS |  |
| 4 | CEILING FANS | 9 NOS |  |
| 5 | EXHAUST FANS IN CAFETERIA | 3NOS |  |
| 6 | GEYSERS/HAVELLS,CROMPTON | 09 NOS |  |
| 7 | SPLIT AC 2 TR/O GENERAL | 03 NOS |  |
| 8 | KITCHEN EXHAUST SYSTEM CAFTERIA | 01 NO |  |
| 9 | GEYSER CAFTERIA | 01 NO |  |
| 10 | BANMERY/REFRIGERATED EQUIPMENTS/BOILER | 06 NOS |  |
| 15 | **GUEST HOUSE FIRST FLOOR** |  |  |
| 1 | CEILING FANS | 12 NOS |  |
| 2 | WINDOW AC 1.5TR(O GENERAL 01 NO,BLUE STAR 10 NOS) | 11 NOS |  |
| 3 | EXHAUST FAN | 10 NOS |  |
| 4 | GYESERS | 11 NOS |  |
|  |  |  |  |
| 16 | **GUEST HOUSE SECOND FLOOR** |  |  |
| 1 | CEILING FANS | 13 NOS |  |
| 2 | WINDOW AC 1.5TR(O GENERAL 01 NO,BLUE STAR 10 NOS) | 11 NOS |  |
| 3 | EXHAUST FAN | 10 NOS |  |
| 4 | GYESERS | 11 NOS |  |
|  |  |  |  |
| 17 | **MAIN BUILDING ADMIN SECOND FLOOR** |  |  |
| 1 | EXHAUST SYSTEM FOR CANTEEN EXHAUST FAN | 01 NO |  |
| 2 | AHU 16700 CFM /ZECO | 01 NO |  |
| 3 | DBT MEETING ROOM SPLICT AC 2 TR HITACHI/VOLTAS | 02 NOS |  |
| 4 | PMB SERVER ROOM SPLICT AC 2TR/LG,HITACHI | 02 NOS |  |
| 5 | AHU 2000CFM SEMINAR ROOM | 01 NO |  |
| 6 | DIRECTERES MEETING ROOM 3TR DAIKIN SPLICT AC | 01 NO |  |
| 7 | PURCHASE ROOM SPLICT AC 2 TR/LG | 01 NO |  |
| 8 | PURCHASE ROOM WINDOW AC 1.5 TR/BLUE STAR | 01 NO |  |
| 9 | SPLIT AC DIRECTORS ROOM/HITACHI 3 TR,1.5 TR | 02 NOS |  |
| 10 | GYESER DIRECTORS ROOM | 01 NO |  |
| 11 | EXHAUST FAN 12 INCH LIFT ROOM/WASH ROOMS | 03 NOS |  |
| 12 | GEYSER 10 LTR,WASH ROOMS/CROMPTON | 02 NOS |  |
| 13 | HAND DRIER WASH ROOM | 02 NOS |  |
| 14 | HAND DRIER DIRECTORS ROOM | 01 NO |  |
| 18 | **FIRST FLOOR ADMIN SIDE** |  |  |
| 1 | AHU 10700CFM/ZECO | 01 NO |  |
| 2 | SPLICT AC 2TR ACCOUNTS/CARRIER | 02 NOS |  |
| 3 | AHU AUDITORIUM 8700 CFM/ZECO | 01 NO |  |
| 4 | FAN COIL UNIT ACCOUNTS ROOM | 02 NOS |  |
| 6 | SPLICT AC COMPUTER ROOM 1.5TR/LG | 02 NOS |  |
| 7 | GEYSER 10 LTR,WASH ROOMS/CROMPTON | 02 NOS |  |
| 8 | EXHAUST FAN 12 INCH LIFT ROOM/WASH ROOMS | 02 NOS |  |
| 9 | SPLICT AC 2 TR IT ROOM/LG | 01 NO |  |
| 10 | HAND DRIER WASH ROOM | 02 NOS |  |
|  |  |  |  |
| 19 | **GROUND FLOOR ADMIN SIDE** |  |  |
| 1 | AHU 5700 CFM SEMINAR ROOM/ZECO | 01 NO |  |
| 2 | SPLICT AC 2TR CAFETERIA/HITACHI | 02 NOS |  |
| 3 | EXHAUST FAN CAFETERIA/CROMPTON | 02 NOS |  |
| 4 | GEYSER 10 LTR,WASH ROOMS/CROMPTON | 02 NOS |  |
| 5 | EXHAUST FAN 12 INCH LIFT ROOM/WASH ROOMS | 02 NOS |  |
| 6 | HAND DRIER WASH ROOM | 02 NOS |  |
| 7 | FAN COIL UNIT CAFETERIA | 03 NOS |  |
| 8 | PASSANJAR LIFT/BHARAT BIJLEE | 01 NO |  |
|  |  |  |  |
| 20 | **BASEMENT ADMIN SIDE** |  |  |
| 1 | AHU 8700 CFM RECEPTION/ZECO | 01 NO |  |
| 2 | LIBRARY AHU 7000 CFM | 01 NO |  |
| 3 | AHU CANTEEN 5700 CFM/ZECO | 01 NO |  |
| 4 | COLD ROOM 2 TR /DAIKIN(REF UNIT 02 NOS) | 01 NO |  |
| 5 | ELECTRICAL PANELS | 04 NOS |  |
| 6 | EXHAUST FAN/CROMPTON | 04 NOS |  |
| 7 | SUBMERSIBLE PUMP | 01 NO |  |
| 21 | **MAIN BUILDING SECOND FLOOR LAB SIDE** |  |  |
|  | **TERRACE** |  |  |
| 1 | EXHAUST SYSTEM WITH 50 HP MOTOR 03 FLOORS | 03 NOS |  |
| 2 | ELECTRICAL PANEL | 01 NO |  |
| 3 | RADIO ACTIVE ROOM EXHAUST 2HP MOTOR | 01 NO |  |
| 4 | LIFT ROOM EXHAUST FAN | 01 NO |  |
| 5 | EXPANSION TANK FOR CHILLER 1000 LTR | 01 NO |  |
| 6 | COOLING TOWER 500 TR /BELL | 02 NOS |  |
| 22 | SECOND FLOOR SERVICE FLOOR |  |  |
| 1 | AHU SCINTIST ROOM 2000 CFM/ZECO | 03 NOS |  |
| 2 | AHU LAB 7000 CFM/ZECO | 02 NOS |  |
| 3 | AHU LAB 5000/LOCAL | 04 NOS |  |
| 4 | CONTROL PANEL FOR AHU | 01 NO |  |
| 5 | MCB DISTRIBUTION PANEL | 15 NOS |  |
|  |  |  |  |
| 23 | **SECOND FLOOR LAB** |  |  |
| 1 | AHU 10000CFM/ZECO | 01 NO |  |
| 2 | COLD ROOM/BLUE STAR (R UNIT 02 NOS) | 01 NO |  |
| 3 | SPLICT AC 1.5TR/LG INFROND OF GOODS LIFT | 01 NO |  |
| 4 | EXHAUST FAN 12 INCH RADIO ACTIVE ROOM | 01 NO |  |
| 5 | SPLICT AC 2 TR/HITACHI CULTURE ROOM PTG | 05 NOS |  |
| 6 | SPLICT AC 1.5 TR/HITACHI LAMINAR ROOM PTG | 02 NOS |  |
| 7 | SPLICT AC 1.5TR LG,HITACHI MALDI ROOM PTG | 02 NOS |  |
| 8 | EXHAUST FAN WASH ROOM ,JENTS AND LADIES | 04 NOS |  |
| 9 | HAND DRIER WASH ROOM | 02 NOS |  |
| 10 | GEYSER 10 LTR,WASH ROOMS/CROMPTON | 02 NOS |  |
|  |  |  |  |
| 24 | **FIRST FLOOR LAB SERVICE FLOOR** |  |  |
| 1 | AHU 7000 CFM/ZECO SERVICE FLOOR | 04 NOS |  |
| 2 | AHU SCINTIST ROOM 2000 CFM/ZECO | 03 NOS |  |
| 3 | AHU PMB LAB 5000CFM | 02 NOS |  |
| 4 | POWER DISTRIBUTION PANEL | 15 NOS |  |
| 5 | ELECTRICAL PANEL AHU,LIGHT | 02 NOS |  |
|  |  |  |  |
| 25 | **FIRST FLOOR LAB** |  |  |
| 1 | AHU 10000 CFM/ZECO | 01 no |  |
| 2 | EXHAUST FAN WASH ROOMS | 04 NOS |  |
| 3 | COLD ROOM/BLUE STAR (R UNIT 02 NOS) | 01 NO |  |
| 4 | SPLICT AC 2 TR/DAIKIN CULTURE ROOM,RGP | 01 NOS |  |
| 5 | SPLICT AC 2 TR/DAIKIN RGP INSTRUMENT ROOM | 01 NO |  |
| 6 | SPLICT AC 2 TR/O GENERAL,SAMSUNG FERMANTER ROOM,RGP | 2 NOS |  |
| 7 | SPLICT AC 2 TR/O GENARAL CULTURE ROOM VIROLOGY | 01 NO |  |
| 8 | SPLICT AC 1.5/LG INSTRUMENT ROOM VIROLOGY | 01 NO |  |
| 9 | SPLICT AC 1.5/LG CULTURE ROOM VIROLOGY | 01 NO |  |
| 10 | SPLICT AC 1.5/DAIKIN,LG MALDI ROOM VIROLOGY | 02 NOS |  |
| 11 | SPLICT AC 1.5/LG ULTRA TEM LAB | 01 NO |  |
|  |  |  |  |
| 12 | SPLICT AC 2TR/HITACHI ULTRA TEM ROOM | 01 NO |  |
| 13 | SPLICT AC 2TR/HITACHI FAX ROOM | 01 NOS |  |
| 14 | SPLICT AC 2 TR /HITACHI PMB CULTURE ROOM | 02 NOS |  |
| 15 | SPLICT AC 1.5 TR/CARRIER,HITACHI CONFOCAL ROOM | 02 NOS |  |
| 16 | HAND DRIER WASH ROOM | 02 NOS |  |
| 16 | GEYSER 10 LTR,WASH ROOMS/CROMPTON | 02 NOS |  |
|  |  |  |  |
| 26 | **GROUND FLOOR SERVICE FLOOR** |  |  |
| 1 | AHU 7000 CFM/ZECO SERVICE FLOOR | 06 NOS |  |
| 2 | AHU 2000 CFM/ZECO SCIENTIST ROOM | 03 NOS |  |
| 3 | AHU 5000 CFM/ZECO EMORY LAB | 02 NOS |  |
| 4 | ELECTRICAL PANEL | 03 NOS |  |
| 5 | ELECTRICAL DISTRIBUTION PANEL | 13 NOS |  |
| 6 | GOODS LIFT /KONE | 01 NO |  |
|  |  |  |  |
| 27 | **GROUND FLOOR LAB** |  |  |
| 1 | EXHAUST FAN TOILET LADIES,JENTS,OLD NMR | 04 NOS |  |
| 2 | SPLICT AC 2 TR/DAIKIN EMORY CULTURE ROOM | 01 NO |  |
| 3 | SPLICT AC 1.5,2 TR/LG,DAIKIN MICROSCOPE ROOM MALARIA LB | 02 NOS |  |
| 4 | SPLICT AC1.5 TR/LG FAX ROOM EMORY | 01 NO |  |
| 5 | SPLICT AC 1.5 TR/HITACHI,CARRIER CRISTAL ROOM SBG | 02 NOS |  |
| 6 | SPLICT AC 2TR/DAIKIN XRAY LAB SBG | 04 NOS |  |
| 7 | SPLICT AC 2TR/CARRIER CULTURE ROOM SBG | 01 NO |  |
| 8 | SPLICT AC 2TR/O GENERAL CULTURE ROOM IR | 01 NO |  |
| 9 | SPLICT AC 1.5TR/LG INSTRUMENT ROOM IR | 02 NOS |  |
| 10 | SPLICT AC 3 TR DAIKIN OLD PDL | 03 NOS |  |
| 11 | SPLICT AC 1.5 TR CARRIER MAKE OLD PDL | 02 NOS |  |
| 12 | SPLICT AC 3TR BLUESTAR CORIDOOR EMERY LAB | 01 NO |  |
| 13 | WINDOW AC 1.5 TR/CARRIER SERVER ROOM SBG | 01 NO |  |
| 14 | FCU OLD NMR ROOM | 03 NOS |  |
| 15 | COLD ROOM/BLUE STAR(02 UNITS) | 01 NO |  |
| 16 | HAND DRIER WASH ROOM | 02 NOS |  |
| 17 | GEYSER 10 LTR,WASH ROOMS/CROMPTON | 02 NOS |  |
| 18 | SPLIT AC 1.5 TR CARRIER CULTURE ROOM DR.SAM | 02 NOS |  |
| 19 | PASSANJAR LIFT/THYSSAN,BHARAT BIGLEE | 02 NOS |  |
| 20 | AHU 10000 CFM/ZECO | 01 NO |  |
| 28 | **AC PLANT ROOM** |  |  |
| 1 | 400 TR CARRIER MAKE WATER COOLED CHILLER | 01 NO |  |
| 2 | 400 TR CARRIER MAKE CHILLER WITH VFD | 01 NO |  |
| 3 | VERTICAL INLINE CHILLER PUMP/ARMSTRONG | 02 NOS |  |
| 4 | VFD PANEL FOR CARRIER MAKE CHILLER | 01 NO |  |
| 5 | VFD CONTROLL PANEL FOR ARMSTRONG MAKE CHILLER PUMPS | 01 NO |  |
| 6 | MAIN SUPPLY INCOMER | 01 NO |  |
| 7 | POWER DISTRIBUTION PANEL | 04 NOS |  |
| 8 | CONDENSER PUMP VERTICAL INLINE/KSB | 02 NOS |  |
| 9 | EXHAUST FAN 18 INCH | 02 NOS |  |
| 10 | FCU FOR CABIN | 02 NOS |  |
| 29 | **GYM NEAR GUEST HOUSE** |  |  |
| 1 | WINDIW A/C( BLUE STAR 02 NOS,SAMSUNG) | 03 NOS |  |
| 2 | PDB | 01 NO |  |
| 3 | CEILING FAN/CROMPTON | 04 NOS |  |
| 30 | **TRANSFAR PUMP ROOM MAINGATE** |  |  |
| 1 | WATER PUMP 7.5 HP BEACON MAKE | 03 NOS |  |
| 2 | GROUND LEVEL WATER TANK | 01 NO |  |
| 3 | BORRING/SUBMERSIBLE PUMP | 01 NO |  |
|  |  |  |  |
| 31 | **STP FACILITY MAIN GATE** |  |  |
|  |  |  |  |
| 1 | AIR BLOWER /EVEREST | 02 NOS |  |
| 2 | FILTERATION PUMP | 02 NOS |  |
| 3 | SLUDGE PUMP/KIRLOSKAR | 02 NOS |  |
| 4 | SUMP PUMP | 02 NOS |  |
| 5 | GARDEN PUMP 7.5 HP/KIRLOSKAR | 02 NOS |  |
| 6 | UNDER GROUND RCC TANK | 06 NOS |  |
| 7 | CEILING FAN | 01 NO |  |
| 8 | DOZING PUMP WITH TANK | 02 NO |  |
| 9 | FILTERING UNIT | 02 NOS |  |
| 10 | ELECTRIC PANEL | 02 NOS |  |
| 32 | **INSECT LAB** |  |  |
| 1 | ELECTRIC PANEL | 01 NO |  |
| 2 | SPLICT AC 1.5TR/LG | 01 NO |  |
|  | **P 3 LAB** |  |  |
| 1 | ELECTRICAL PANEL | 02 NOS |  |
| 33 | **CAFTERIA MAIN BUILDING** |  |  |
| 1 | SPLIT AC 2 TR /HITACHI | 02 NOS |  |
| 2 | FAN COIL UNIT/O GENERAL | 04 NOS |  |
| 3 | WALL FAN | 07 NOS |  |
| 4 | EXHAUST FAN | 0 3 NOS |  |
| 5 | KITCHEN EXHAUST SYSTEM | 01 NO |  |
| 6 | BOILER/BANMARY/FREEZERS | 06 NOS |  |
| 34 | **GREEN HOUSE ROOM NO 1** |  |  |
| 1 | MAIN POWER INCOMER | 02 NOS |  |
| 2 | WINDOW AC 1.5TR HITACHI/ VOLTAS | 05 NOS |  |
|  | **GREEN HOUSE ROOM NO 2** |  |  |
| 1 | WINDOW AC 1.5 NAPOLIAN | 01 NO |  |
| 2 | WINDOW AC 1.5TR HITACHI | 02 NOS |  |
| 3 | WINDOW AC 1.5TR VOLTAS | 02 NOS |  |
|  | **GREEN HOUSE ROOM NO 3** |  |  |
| 1 | WINDOW AC 1.5 NAPOLIAN | 01 NO |  |
| 2 | WINDOW AC 1.5 VOLTAS | 01 NO |  |
| 3 | WINDOW AC 1.5TR HITACHI | 03 NOS |  |
|  | **GREEN HOUSE ROOM NO 4** |  |  |
| 1 | WINDOW AC 1.5 VOLTAS | 01 NO |  |
| 2 | WINDOW AC 1.5 NAPOLIAN | 01 NO |  |
| 3 | WINDOW AC 1.5TR HITACHI | 03 NOS |  |
|  | **CULTURE ROOM DR.SNEH -** |  |  |
| 1 | WINDOW AC 1.5 NAPOLIAN | 01 NO |  |
| 2 | WINDOW AC 1.5TR VOLTAS | 01 NO |  |
| 3 | SPLIT AC VOLTAS 1.5 TR | 01 NO |  |
|  | **CULTURE ROOM DR.TANUSREE** |  |  |
| 1 | SPLICT AC 1.5TR COMANDER | 03 NOS |  |
|  | **RICE GREEN HOUSE DR .NITI** |  |  |
| 1 | WINDOW AC 2 TR /CARRIER | 06 NOS |  |
|  | **GREEN HOUSE NO 12** |  |  |
| 1 | SPLIT AC 2 TR /LG | 02 NOS |  |
| 2 | WINDOW AC 2 TR/CARRIER | 05 NOS |  |
| 3 | WINDOW AC 1.5 TR/COMMANDOR | 02 NOS |  |
|  | **SCREEN HOUSE** |  |  |
| 1 | WINDO AC 2 TR/CARRIER | 04NOS |  |
| 2 | WINDOW AC 2TR/VISTA | 02 NOS |  |
|  | **DR.MK.REDDY LAB/CULTURE ROOM** |  |  |
| 1 | SPLIT AC 2 TR/O.GENERAL | 02 NOS |  |
| 2 | SPLIT AC COMMANDOR | 01 NO |  |
| 3 | WINDOW AC COMMANDOR | 01 NO |  |
| 4 | EXHAUST FAN 18 INCHES | 06 NOS |  |
|  | **GREEN HOUSE NO 15 DR.SNEH** |  |  |
| 1 | WINDOW AC 2 TR/CARRIER | 12 NOS |  |
| **35** | **POLE LIGHTS IN ICGEB PREMISES** | 70 NOS |  |
|  |  |  |  |
| **36** | **ELECTRICAL STORE ROOM** |  |  |
| 1 | SPLICT AC1.5TR HITACHI MAKE | 01 NO |  |
| 2 | CEILING FAN | 01 NO |  |
| 3 | WINDOW AC1.5TR/CARRIER NON FUNCTIONAL | 02 NOS |  |
| 4 | EXHAUST FAN 12 INCH | 03 NOS |  |
| **37** | MH LAMP 250 W | 15 NOS |  |
| **38** | LED FLODED LIGHTS 150W,100W | 40 NOS |  |
| **39** | **TUBELIGHT FITTINGS MAIN BUILDING** |  |  |
| 1 | GROUND SERVICE FLOOR | 24 NOS |  |
| 2 | FIRST FLOOR SERVICE FLOOR | 20 NOS |  |
| 3 | SECOND FLOOR SERVICE FLOOR | 21 NOS |  |
| 4 | MAIN BUILDING LAB SIDE | 421 NOS |  |
| 5 | ADMIN SIDE | 297 NOS |  |
| 6 | GUEST HOUSE | 103 NOS |  |
| 7 | ANIMAL HOUSE | 100 NOS |  |
| 8 | NEW BUILDING | 576 NOS |  |
| 9 | SUBSTATION/AVR ROOM | 40 NOS |  |
| 10 | PUMP HOUSE | 14 NOS |  |
| 11 | AC PLANT ROOM | 22 NOS |  |
| 12 | GREEN HOUSE | 162 NOS |  |
| **40** | **PLASTIC STORE** |  |  |
| 1 | EXHAUST FAN 18 INCH/CROMPTON | 02 NOS |  |
| **41** | Water Cooler & RO System | 14 NOS |  |

Note: Addition and deletion of the inventory item as per the ICGEB requirement.

All the Air-conditioning plants, Equipment and Electrical substations shall be operated round the clock on 24 hour basis, on all days in the month and year including Sunday & Holidays.

The following are the checks of ACs and their accessories:

1. **General:**

1. Cleaning and maintenance of all the equipment’s daily

1. The staff attending complaints shall go with the complaint register and got signed from the reporting person for having attended the complaints to his satisfaction and inform Institute on regular basis.

3. The following registers are to be provided and to be maintained by the contractor.

a) Attendance registers

b) Complaint registers

1. Dismantled material account register.
2. History book.
3. Log Book for chillers and Lab temperatures.
4. Log Book for substation and DG sets.
5. Log Book for water meters and energy meters.

4. The following periodical checks are to be carried out:

1. Attending to complaints : Daily
2. Cleaning of panels/equipment’s : Daily
3. Inspection of DB’s and electrical panels : Weekly
4. Cleaning of External equipment’s : Monthly
5. In case the department is unable to supply the material in replacement of the defective item, the same shall be arranged by the contractor with the consent of Institute and the justified payment shall be made on producing the valid vouchers.
6. In addition to the above any other duties assigned by the Institute shall be carried out by the contractor without any extra cost.
7. During the course of operation and maintenance, if any spare part is required for replacement, the contractor shall give the requisition for such spare part with full details and nomenclature in writing at least 15 days in advance failing which it will be responsibility of the contractor to replace the part immediately which may be paid by ICGEB at market rate in due course.
8. The Contractor shall prepare a list of spare parts required for all the plants and equipment and submit to the designated official of ICGEB one month from the date of commencement of work under this contract.
9. In the event of a major failure/breakdown of any plant, the contractor shall submit a report immediately along with necessary list of spares and estimate for rectification to the designated officials of ICGEB.
10. The contractor shall ensure cleanliness of the plant room, AHU rooms and all technical areas of the premises.
11. The contractor shall ensure painting of the pipes, supports, equipment once a year and material required for painting shall be provided by ICGEB.
12. The preventive maintenance schedule has to be furnished by the contractor on the award of the works and has to be duly concurred and approved by the concerned engineer-in charge.
13. If found any water leakage in any existing pipe lines repairing (welding) is contractor’s responsibility ICGEB will not paid extra charges.
14. Cleaning of all service floor & technical areas.
15. Cleaning of fire equipment and its associated pipe lines.

**Note:** The above list is only illustrative and the contractor will attend to any related work even if not specified above during the period of contract.

1. **Air-conditioning plants and Equipment**

Following checks shall be carried out during the servicing/monthly check

* 1. Cleaning of air filters
  2. Cleaning of the cooling coil using chemical, water pressure pump, and in indoor ducts (split AC), water jet vacuum-cleaner shall be used in places where drain line is not available
  3. cleaning of the entire A. H. U., body & the A. H. U room
  4. Cleaning of the electrical control panel from outside as well as from inside and tightening the wires and cable terminals. Checking of fuses, heater and blower inter lock etc.
  5. Oiling/greasing the blower and driving motor bearings.
  6. Checking the V-belts, pulley etc.
  7. Leakage of water from the pump glands / valve glands.
  8. Check the refrigerant leaks and proper refrigerant level on the high- and low-pressure sides. Repair all leaks
  9. .Check condenser coil and clean if needed. Keep debris away from the unit.

1. Straighten any belt heat exchanger fins on condenser coil.
2. Check suction pipe insulation and replace if needed.
3. Lubricate fan motors and bearing. Replace worn bearing.
4. Check fan blades for damages and clean if needed.
5. Check all wiring, electrical connections, contactors, capacitors, relays, etc. for wear, cleanliness and proper operations.
6. Visually inspect compressor and check amp drawn.
7. Check condensate drain and pan then advise of any discrepancies.
8. Check expansion valve & coil temperature, lubricate parts as needed.
9. Check evaporate coil and if found dirty clean it as per directions of EIC.
10. Check the shape that the total system is in and advise client/ customer of discrepancies.
11. Logbooks shall be maintained in an orderly manner in every plant room, substation and DG set separately and the readings shall be recorded on hourly basis. Providing of logbooks is the responsibility of contractor.
12. De-scaling of water-cooled condensers/chillers of chilling units, valves etc., shall be carried out during winter months i.e. at the beginning of the season and also “as and when” required to maintain refrigerant condensing pressure within allowable limits. Arrangements for de-scaling pump, replacement of gaskets/packing, chemicals etc., shall be the Contractor’s responsibility. This will include:-
13. Over hauling and cleaning of window and split ACs.
14. Overhauling and cleaning of Cold Rooms and Green Houses
15. Overhauling and cleaning of bore well pumps, ETP, STP and piping
16. Cleaning of the cooling tower, CT fan, cooling tower pump and nozzles.
17. Water level and spray in the cooling tower.

All the Air-handling units covered under this contract, shall be cleaned and checked once in every 15 days. Shifting and installation of all type of AC is also in the scope of work.

# **ELECTRICAL WORKS**

Maintenance of all electrical fittings in the premises including the laboratory annexe.

**CHECKS TO BE CARRIED OUT**

**A. DAILY CHECKS**

1. Reading and recording of HT Voltage, LT Voltage, Load & Temperature of transformer etc as prescribed every hour.
2. Check for oil leakage from conservator, transformer & take remedial measures.
3. Check oil temperature of transformer for abnormal rise. Check load on transformer and reduce load in case of over-loading. Abnormal rise in temperature should be brought to the notice of Institute immediately.
4. Check color of silica jel in the breather (the color should remain blue).
5. Check HT/ LT – cable end boxes for overheating.
6. Cleaning the LT panels, transformer rooms, and HT & LT panel room and panel ventilators.
7. Check the Buchholz relay for accumulation of gas. (It should be released immediately and check for overheating of transformers).
8. Check electrolyte in battery and top up with distilled water or electrolyte as required.
9. The battery circuits and the battery shall be checked. The battery charger shall also be cleaned and checked for proper functioning.
10. Check all ampere meters, voltmeters, selector switches etc. for proper functioning.

**B. MONTHLY CHECK**

1. Check incoming and outgoing cable termination for overheating / sparking / pitting.
2. Check earth strip termination with the body of all HT & Lt switch gears.
3. Check neutral earth connection of transformers for tightness.
4. Check battery circuit, battery charger and electrolyte density etc. change electrolyte / battery if necessary.

**Electrical special works**

* 1. Providing extra electrical power points as per requirements (raw power and UPS) in ICGEB.
  2. Attending to any breakdown due to short circuit.
  3. Maintenance of earth lines.
  4. To check/clean with CTC tighten all electrical contacts monthly. The heated terminals if required to be redone will be done so in proper condition by using appropriate size crimping tool.

1. To arrange for a well-equipped first aid box and maintain it in a good condition to take care of all first aid eventualities.
2. Maintenance of deep bore wells/ their electrical panel and water supply system.
3. To check and clean all electrical switchgear moving contacts by CTC and tighten all electrical controls quarterly including rectification of the same as and when required including all panel work, cabling work, fresh cable terminations in case of burning/ damage of the same etc.
4. To check and clean (de-scale) heat exchangers as and when required but at least once in six months
5. To check and replace the bearings and other spares in all machines as and when required as per a present preventive maintenance schedule.
6. To attend to repairs on the mechanical equipment such as pump-sets, piping, centrifugal pumps, vertical inline pumps, submersible pumps, monobloc pumps, valves etc., including minor and major overhauling.
7. To check holding (leakage past valve disc) of all valves in the system and descale them as and when required.
8. All type of cable repairing spare part will be provided by ICGEB.
9. **DIESEL GENERATOR SETS**
   1. The scope of operation of generating sets covers the following.
   2. Operation of 4nos: 625 KVA and 1 no.: 82 KVA generating sets.
   3. General Cleaning and repairing of the generators sets AMF / PLC panel boards etc. complete as required.
   4. The contractor has to maintain the generating sets, oil level in Engine &water level of the radiator etc. including electrical mechanical system in such a way so that the generating set is ready to give essential supply to connected load.
   5. Required diesel and lubricating oil for DG will be supplied by the ICGEB free of cost to the contractor and requirement of HSD oil shall be informed at least 3 working days in advance.The contractor will bring Diesel from the Petrol Pump to ICGEB. The transportation charges for Diesel from pump station to ICGEB will be paid by ICGEB.
   6. The material required for cleaning, distilled water, petroleum jelly, grease, nut bolt, gland dori, fuses, indicating lamps, etc as required are to be arranged by the contractor.
   7. The contractor has to maintain the log book of the generator sets. The number of hours runs during the month and the average consumption of the fuel oil etc shall be recorded in the log book.
   8. The generating sets will be trial tested for 10 minutes every day for its readiness and the same will be recorded in the logbook.
   9. The following periodic checks are to be carried out in addition to the checks recommended by the manufacturer.

Trial run of the D.G sets : Daily

General cleaning of Sets : Daily

Checking of Fuel and Oil level : Daily

Checking of coolant level in Radiator : Daily

Checking of Battery connection and

Distilled water and filling up : Weekly

Maintenance & cleaning of the radiators : Weekly

The above checks are only guidelines. The Contractor’s staff shall check the alternator for accumulation of dust etc. and clean the same. Check the AMF panel connection for the functioning of the equipment, etc. all maintenance carried out shall be entered in the Log book

1. All spares required to make the plant running and those require replacement would be supplied by the centre.
2. *Lifts*: Attending to complaints or emergency calls related to all the lifts in the premises including the laboratory annexe, making calls to lift operation and maintenance contractor as required. Ensuring that the contractor’s staff is familiar with the lift electrical system and maintaining a close co-ordination with the lift maintenance contractors.
3. ***Water purifiers and water coolers***: Attending to day to day problems related to water plumbing in the water purifiers and water coolers and maintaining a close co-ordination with the respective service providers for AMC of these systems.
4. ***Fire hydrant system:***

***1.*** Maintain the fire hydrant system in a working condition and ensure required water pressure maintained in the pipe lines on auto mode

2. to assist during testing of fire hydrants.

3. To check and maintain water level, oil level, and diesel level in engine pump-set of firefighting system.

4. Maintain Fire Panel.

5. Checking of fire / smoke detector at the fire of activation.

6. Replacement of fire / smoke detector whenever required.

1. **IT and telephone** work including laying of wires for telephone and IT, providing helping support for the works.

##### CIVIL WORKS, Plumbing works Maintenance and repairing of Civil/ plumbing / sanitary installations in Main building , New building ,guest house, Green house, Animal house and all ICGEB premises and any other related fittings and / or fixtures inside the periphery of ICGEBCampus at ArunaAsaf Ali Marg,, New Delhi, Delhi 110067

1. Routine maintenance of the premises including the laboratory annexe in the campus, as required, on working days and on weekends or designated official ICGEB holidays, as required.

Periodic checking of roofs/ terraces for visible cracks and repairing of cracks if any.

* To check, prevent and rectify seepages and resultant fungus promotion if any.
* Maintenance of roads and all ICGEB buildings, culverts, parapets etc.
* Maintenance and cleaning of drainage system.
* Repairs of doors and windows and painting as required
* Maintenance of plumbing system which includes garden water system
* To check and clean water strainers etc., as and when required.
* To tighten the foundation bolts monthly
* To ensure adequate water level in all the tanks in all the systems
* To clean/flush/disinfect all laboratory overhead tanks once in a month and water collecting and distribution RCC tanks once in three months in case of any emergent requirement.
* To provide and operate additional water connections to the different laboratory, administration block, guest house, green house, animal house etc.
* To attend all types of plumbing complaints
* To do maintenance on all water lines including attending to leakages
* To maintain log books in each shift to be provided by ICGEB
* To attend to minor extension of the GI pipe lines.
* Keeping the rain water outlets on terraces, canopies free of debris, foreign material etc., to ensure quick flow of water from terraces, etc.
* Removal & re-fixing of tanks with new accessories of appropriate sizes mentioned and making flushing tank in good working condition.
* Cementing of joints of various drainage lines on ground, taps between wash basins, re-fixing of loose border patties of kitchen platforms, door sills, etc., removal and re-fixing of leaking connections of GI Pipes and specials including cost of required white / ordinary cement and white lead and any other jointing materials as may be required.
* Removal of air locks from suction lines / delivery lines as and when required and also from GI down take supply lines.
* Re-fixing of loose fixtures and fittings including supporting brackets such as washbasins, sinks, flushing cistern, drain boards, towel rods, mirrors, glass shelves, soap holders, nahani traps, gratings, any other fixtures and fittings as existing in the properties including removal of existing fittings / fixtures without causing any damage.
* Grouting of new wooden plugs in cement mortars and re-fixing with new screws, removing where necessary.
* The contractor shall be required to do the cleaning of all the overhead / underground water tanks once in three months.
* The contractor shall arrange for all necessary tools, tackles, ladders, drill machines, J-Hooks and measuring instruments required for the repair works within the quoted rates. The contractor shall also provide and maintain at his own cost all required tools, tackles and measuring instrument at site.
* The contractor shall make his own arrangement for providing plumber (as and when needed) on the day when the regular staff is absent. In case of major failure, the contractor shall provide the required number of plumbers / helpers / supervisors to rectify the fault immediately on receipt of written/oral communication from the ICGEB.
* All complaints shall be attended to immediately on receipt of the complaints / information. No complaint shall remain unattended for more than 24 hours. If any complaint is likely to take more time for its resolution, the same will be immediately brought to the notice of component team.
* Replacing door sills, threshold of doors, with suitable material matching the existing.
* Making holes in stone/brick masonry and RCC wall of any size, roofs, chajjas etc. to facilitate plumbing works etc. and making good the same wherever necessary.
* Filling the joints of traps (with M-seal etc.) and cracks/joints/holes of walls, ceilings, kitchen sink/platform, wash basin, bathrooms, toilets, side of the door frames, sills etc. with suitable sealant, adhesives, cement etc. and pointing of tiles.
* Refitting the disturbed/fallen tiles in floors, walls, with suitable adhesive.
* Closing the rat holes using broken glass pieces, rodenticides and PCC in the plinth protection/common areas as per requirement, periodically.
* Cleaning of drinking water/pipelines, rain water lines, waste and soil water pipes, bore well water lines including disconnecting and reconnecting the pipes as per requirements.
* Breaking any old floor, brick bat coba, PCC work, RCC work, brick work etc. wherever necessary, related to comprehensive maintenance works.
* Thoroughly Cleaning of manholes, gully traps, gutters etc. and sewer lines & storm lines and removing the silts, mud chokes in the lines below/above ground level for smooth functioning of sewerage/storm pipe /drain system periodically and (before monsoon).
* Arresting leakage through window sills, etc. and arresting leakage in sanitary and water lines with sealant/caulking materials.
* Painting/white washing/colour washing of patches, related to the rectification/replacement works with matching coats.
* Cutting, threading of GI/MS pipes of any sizes and jointing and applying paint, wherever rectification/replacements are carried out.
* De -watering any spaces related to maintenance works and upkeep of premises as necessary. Maintenance works and minor repairs like crack filling, patch plaster of broken/damaged portion, etc. to open gutters/drains, platforms, pathways, courts, fencing and compound wall.
* Cleaning of the Rain Harvesting pits and man holes.
* Keeping and maintain the STP and Water Softener in operational condition.
* **Carpentry work (ICGEB)**
* Repair / replacement of fixtures & fittings at different locations**.**

Repair / replacement of wire mesh shutters, doors, windows and almirahs

Repairing / replacement of door closers (conventional series).

Repairing / replacement of beds and other furniture in guest house.

Repairing / replacement of Godrej night latches.

Replacement of glass panes.

Repair / replacement of Aluminium doors, windows, partitions (Fixed and openable).

Fabrication and making of New cupboard, drawers, cabinets, all type minor wooden work.

Note: This list is subject to changes as per requirements of the Centre during the period of contract.

**The following manpower will be provided by the contractor**.

The contractor should keep adequate number of qualified staff who should be able to attend to various jobs. A competent and responsible staff should do the supervision and he will be present at site during the working hours and as required.

Man power required

1. Qualified Supervisor suitable for site 1
2. AC mechanic 2
3. Qualified Electrician 3 (One of the Electrician should have knowledge of HT, LT, and 3 Phase distribution System).

1. Electrical substation operator 3 (For 24 hrs post )
2. AC Plant operator 3 (For 24 hrs post )
3. Animal house AC Plant Operator

with knowledge of BMS system. 3

1. STP Operator 1
2. Plumber 1
3. Car painter 1
4. Mason 1
5. Painter 1
6. Helper 8

**Extra manpower as required.**

**Note:** The timings of staff mentioned above shall be subject to changes as desired by the Institute as required.

1. **Separate set of working tools of good condition shall be provided to tradesmen all the times as under:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.NO | | LIST OF TOOLS FOR AC AND ELECTRICAL MAINTANENCE WORK. | | NOS |
| 1 | | RING SPANNER SET (6-32 nos)one set,6-20 nos )two set | | 03 SET |
| 2 | | DOUBLE END SPANNER SET (6-32 nos)one set,6-20 nos )two set | | 03 SET |
| 3 | | SCREW DRIVER SET(multi set) | | 05 SET |
| 4 | | HHAMMER DIFFERENT SIZE(BIG SIZE/GUN) | | 05 SET |
| 5 | | PLIER | | 05 SET |
| 6 | | HACKSAW FRAME WITH BLADE | | 02 SET |
| 7 | | SCISSORS/GI SHEET CUTTER | | 02 NOS |
| 8 | | LONG NOSE PLIERS | | 01 SET |
| 9 | | ADJASTABLE WRENCH (DIFFRENT SIZE)6,8,10,12 | | 04 SET |
| 10 | | TONG TESTER FLUKE MAKE | | 03 NOS |
| 11 | | ALLEN KEY SET INCHES AND MM | | 02 SET |
| 12 | | PUNCHING TOOL | | 02 NOS |
| 13 | | ELECTRIC WELDING MECHINE | | 01 NO |
| 14 | | BRAZING SET WITH CYLINDER | | 01 SET |
| 15 | | VACCUM PUMP HIGH POWER | | 01 SET |
| 16 | | HAMMARING DRILL MECHINE | | 01 NOS |
| 17 | | DRILLING MECHINE | | 02 NOS |
| 18 | | BOOSTER PUMP(WATER PRESSURE PUMP) | | 01 NO |
| 19 | | SEARCHING LIGHT | | 02 NOS |
| 20 | | CRIMPING TOOL WITH DIFFRENT TYPE THIMBLE DIES | | 01 SET |
| 21 | | THREDING DYE SET | | 02 SET |
| 22 | | FILE FLAT ,ROUND,SQUIRE | | 03 NOS |
| 23 | | JACK | | 01 NO |
| 24 | | TROLLY | | 02 NOS |
| 25 | | BOX SPANNER SET (INCHES AND MM) | | 02 SET |
| 26 | | VELOSITY MEETER | | 01 NO |
| 27 | | AIR BLOWER | | 01 NO |
| 28 | | MEGGER | | 01 NO |
| 29 | | COMPOUND GAUGE MANNUFOLD | | 01 NO |
| 30 | | CHARGING LINE | | 04 NOS |
| 31 | | FLARING TOOL | | 01 SET |
| 33 | | TUBE BENDER -1/4,1/2,3/8,5/8 | | EACH 01 |
| 34 | | PIPE WRENCH (DIFFERENT SIZE)12 ,16,18,24,36 INCHES | | 05 NOS |
| 35 | | STEP LADDER ALUMINIUM 6 ,8,12 FEET ,20 FEET SINGLE SIDE | | 04 NOS |
| 36 | | TABLE WISE/PLUMBING WISE | | 02 NO |
| 37 | | VACCUM CLEANER | | 01 NO |
| 38 | | SWAGING TOOL | | 01 SET |
| 39 | BLOW LAMP | | | 01 NO |
| 40 | BEARING PULLER DIFFERENT SIZE/SMALL,MEDIUM,BIG | | | 03 NOS |
| 41 | WIRE CUTTERS | | | 02 NOS |
| 42 | LOCK PLAYER | | | 01 NO |
| 43 | TUBE CUTTER | | | 01 NO |
| 44 | MONKEY PLAYER | | | 02 NOS |
| 45 | WEIGHING MACHINE FOR GAS CHARGING | | | 01 NO |
| 46 | CHAIN BLOCK 01 TON CAPACITY | | | 01 NO |
| 47 | KNIFE | | | 02 NOS |
| 48 | GREASE GUN | | | 01 NO |
| 49 | CLEANING BRUSHES DIFFERENT TYPE | | | 04 NOS |
| 50 | INCH TAPE 03 MEETERS AND 100 MEETERS. | | | 02 NOS |
| 52 | GATHI | | | 03 NOS |
| 53 | TASALA | | | 03NOS |
| 54 | BIG SIZE SCREW DRIVERS 8 INCHES TO 18 | | | 2 SET |
| 55 | FAVDA | | | 03NOS |
| 56 | RIPET TOOL | | | 01NO |
| 56 | SYCRO METERS | | | 03 NOS |
| 57 | DIJITAL THERMOMETERS FLUK MAKE | | | 02 NOS |
| 58 | Runda | | | 4 pcs |
| 59 | Ari | | | 2 pcs |
| 60 | Chorsi | | | 4 pcs |
| 61 | File | | | 3 pcs |
| 62 | Hole Bit All types | | | 2 set |
| 63 | Jammur | | | 1 set |
| 64 | | Gunniya | 2 sets | |
| 65 | | Water level | 1 pcs | |
| 66 | | Hammer | 3 pcs | |
| 67 | | Screw Driver | 5 pcs | |
| 68 | | Drill Machine | 1 pc | |
| 69 | | Hilti Machine | 1 pc | |
| 70 | | Wooden Cutter Machine | 1 pc | |
| 71 | | Tile Cutter | 1 pcs | |
| 72 | | Karni | 2 pcs | |

**(4)**

**TERMS OF PAYMENT**

Payment of bills:

* 1. Bills will be submitted by the Contractor on 10th (if 10th is holiday then next working day) of every calendar month & after satisfactory service and submission of pre-receipted bill along with documents in support of payment of wages to workers through RTGS / NEFT only. Proof of remittance of Salary to Employees / PF/ ESI/ Bonus/ Gratuity / Maternity / GST and any other documents as prescribed by the Institute to respective agencies are also required to be submitted with their monthly bill.
  2. Wages: The payments to all workers deployed should be made in full by 7th of every calendar month. Wages shall have the same meaning as defined in payment of Wages Act. The contractor shall pay his workers not below the rates under Minimum Wages Act declared by Govt. of NCT and to comply with various Labour Acts such as PF, ESI, Bonus, Gratuity and Maternity, Contract (R&A) SAVY 1970, Contract Labour (R&A) Central Rules 1971 and any other acts applicable as amended from time to time at his own expenses.
  3. The payments towards bonus shall only be released to those workers only who will complete the minimum period of 30 days with the agency.

d). **SECURITY DEPOSIT:** The successful bidder would have to deposit an amount of 15% of the Annual contract value towards security deposit through Demand Draft/pay order//Bank Guarantee from a commercial bank in favour of ICGEB which would remain with ICGEB during the contract period and no interest shall be payable on the Security Deposit amount.

e). In case of non-availability of staff, penalty as given below will be made.

* + 1. Substation / DG Operator : Rs. 1000/- per shift per day
    2. Electrician/Instrument Mechanic : Rs. 1000/- per shift per day
    3. Helper : Rs. 800/- per shift per day
    4. Any staff without uniform : Rs. 200/- per shift per day
    5. Supervisor : Rs. 1200/- per shift

f). This penalty is over and above of deduction of wages on account of absence. Also, if any worker found working as replacement of absent worker for more than 3 days, above penalty provisions will be invoked. However, in no case any worker deployed should work more than 26 days in a month.

**(5)**

**GENERAL TERMS AND CONDITIONS OF THE BID**

**Note: Bidders must read these conditions carefully and comply strictly while submitting their bids.**

1. **ICGEB RESERVES THE RIGHT TO:**
2. Insist on quality of technical staff to be deployed in the campus with respect to their qualification/skills/training for the said job. The skilled and unskilled criteria of the individual will be decided by ICGEB after taking interview and on job training.
3. Reduce or increase the technical staff as per requirement.
4. The ICGEB may, at its discretion, evaluate the Bidders for Manning, Operation and Maintenance of the infrastructural facilities in the ICGEB Campus on the qualitative aspects broadly in respect of the following parameters:
5. Experience in similar organisations.
6. Resources available with the firm.
7. Skilled and trained staff available with the contractor to carry out the said work.
8. Quality and Promptness of service support.
9. Visit report of the Committee to the site where the contractor is currently handling similar work.
10. Bidder’s ability to honour the commitments.
11. The vendor also agrees to submit the bill on monthly basis and accept the payment to the workers as per the Minimum Wages declared by the Government of Delhi from time to time. The bidder should also agree for the compliance of applicable Labour and other Laws in force and other Govt. orders. All workers engaged by vendor would be suitably compensated by him complying with Minimum Wages Act. All other payment like payments under Workmen Compensation Act etc. shall be borne and payable by vendor. The vendor also agree to make timely payment to our manpower and for consumables without affecting the work even in case of any delay in the monthly payment. The vendor will always keep the Institute indemnified of any claim/damages that ICGEB may have to pay with respect to the service and the deputation of any workers to the Institution.
12. ICGEB reserves the right to reject any or all the TENDERS or accept them in part or to reject the lowest quotations without assigning any reasons. ICGEB further reserves the right to terminate the contract during its tenure at any time without assigning any reasons.
13. The earnest money of the successful bidder shall be refunded only against the submission of the Security Deposit.

**GENERAL TERMS AND CONDITIONS OF THE CONTRACT**

The contractor shall be responsible for any damage to the equipment/ plant and machinery caused due to faulty operation/poor servicing/mishandling etc., by their staff and shall rectify the defects, replace parts as the case may be, free of cost. Decision of the ICGEB shall be final in this matter.

1. The contractor shall submit a list of staff to be deployed by them showing their full name, local and permanent address, age, father’s name, qualification and police station verification/ registration and shall be fully responsible for the safety and security of their staff. No compensation shall be payable by ICGEB in case of any accident/death of any of them while operating/servicing the plants and equipment.
2. ICGEB shall be fully empowered to expel any of the contractor’s staff in case of any misbehaviour / indiscipline / misconduct / violence / late attendance / incompetence / theft and if such an expulsion takes place, then the relevant clause of recovery shall be applicable.
3. No escalation in any form either of material (spares) and or consumables shall be payable by ICGEB during the tenure of this contract.
4. The Air-conditioning plants, equipment and machinery, as listed below, are to be operated on 24 hrs. basis throughout the year and are meant for maintaining the temperature and humidity conditions as mentioned below:
5. Centrifugal type water chilling units for main building, comfort conditions: 25oC + 1o C by recirculation process.
6. Reciprocating plant for Experimental Animal House building: 23o C + 2o C & 50% to 60% RH with 100% F. A. system.
7. Air Cooled Scroll compressor type water chilling unit installed at the terrace for Knock- out Mice Experimental facility at the Animal House building.
8. Window type/ Split type AC units installed at the ICGEB premises.
9. Complete air-conditioning system (VRF) in the new building.
10. Any other specifications to be specified as and when required.
11. The contractor shall ensure that the breakdown call of normal nature is attended to immediately. Breakdown due to reasons beyond control, shall however, be attended/rectified within reasonable time to be decided in consultation with the ICGEB officials.
12. The number of operational and maintenance staff shall always be as detailed under scope of work. Every staff shall be allowed one rest day/weekly off after every six days of working as per Government of India rules. For this purpose, suitable relievers shall be arranged by the contractor at no extra cost.
13. Coordinating with AMC contractors if machine is under AMC for breakdown, maintenance and follow-up as required. Continuous efforts will be made to minimize the down time of the equipment.
14. For undertaking works like cleaning of cooling coil, de-scaling of condensers, valves, cleaning and maintenance of Solar Panels etc., or for any heavy dismantling work for proper inspection/maintenance, any extra manpower or tools and tackle required, shall be arranged by the contractor without any extra charges.
15. For maintenance/inspection of ACB’s, relays, control wiring, checking of alignment of reciprocating machines etc., any highly technical manpower, if required, shall be arranged by the contractor without any extra charge.
16. Provide assistance in wiring works of Telephones and as required by other departments like IT etc.
17. Since the contract is for operation on 24-hour basis, physical custody and responsibility of all the plants, equipment and machinery covered under this contract, shall rest on the contractor.
18. No tools and plants shall be supplied by ICGEB. List of useful tools and plants owned by the contractor shall be submitted to ICGEB.
19. Water and electricity for cleaning, testing, operation and maintenance shall be supplied by the Centre.
20. All the spare parts including refrigerant, compressor oil, transformer oil and lubricating oil shall be supplied by ICGEB. Dismantled material against each spare part supplied shall be handed over to ICGEB by the contractor. No separate labour charge shall be given to the contractor for replacing parts such as meter, gauges, relay, MCB, ACB, MCCB, main switch, timer, which ICGEB will provide as and when required.
21. All consumables like de-scaling chemical, vaniclean/ soft action cleaning chemical for cleaning of cooling coils of AHUs, gland packing, rubber / neoprene gaskets, grease, old dhoti, duster, broom log books etc., shall be supplied by the contractor without any extra charges.
22. ICGEB shall have the option to extend the terms of this contract for an additional period as mutually agreed, with the same terms and conditions.
23. The contractor shall procure diesel for the DG sets from the diesel filling stations designated by ICGEB. Diesel and transportation charges will be made by ICGEB.
24. To deposit the monthly electricity and water bill will be the responsibility of the contractor. In case, where the monthly electricity and or water bill is not received by ICGEB, it will be the responsibility of the contractor to collect the bill from the issuing authority (DVB/Tata Power/BSES / Delhi Jal Board).
25. Any emergency purchase of parts/material will be the responsibility of the contractor, after informing the official designated by ICGEB, the cost of which will be borne by ICGEB subject to the assessment by ICGEB.
26. The contractor will ensure general cleanliness of the areas housing sub-stations, all transformer rooms, main air conditioning plant rooms, animal house air conditioning plant rooms, cooling towers, pump houses, tube wells, DG sets, service floors in the laboratory block, AHU rooms, electrical panels, service shafts etc., as required.
27. The contractor will also be bound to any notice from ICGEB, with respect to improving the maintenance in the campus, as required from time to time during the course of this maintenance contract.
28. a) No advance of any kind shall be paid.

b) Payment will be made against the monthly bill raised by the contractor, after due verification

by the concerned official(s) of ICGEB responsible for supervision of the work, who may at his or

her discretion, effect deductions for non-performance or delayed/improper work. The payment

will be made within 15 days from the date of receipt of the bill.

c) Amount towards mandatory requirements such as EPF & ESI shall be paid by ICGEB on

submission of the relevant authenticated documents. It is mandatory for the contractor to submit

the bank transfer details of wage payment to the staff deployed by him at ICGEB along with EPF

and ESI receipts for the previous month and attendance record for the current month along with

the monthly bill.

d) There should not be any deductions e.g. advance etc., from the employee’s wages during wage transfer except for absentees.

Please note that the payment of any statutory direct or indirect taxes at the contractor’s end, arising

out of transactions due to this contract will be solely the contractor’s responsibility.

1. The contractor shall ensure compliance with all the statutory laws and by-laws of the Central Government/State Government/Municipal authorities related to the employment of their staff and all such obligations under Wage Act, Workmen compensation Act, E. S. I. Act, Provident Fund & Miscellaneous Provision Act, Bonus Act, and Contract Labour Act 1971 etc., and any other governing Act applicable. ICGEB will not be involved or be responsible for such matters in anyway.
2. The contractor shall pay his workers not below the rates under Minimum Wages Act, as notified from time to time, and comply with various Labour Acts. Payment of the Income Tax, if required, shall be the responsibility of the contractor.
3. Documents, registers required to be maintained under contract labour regulations 1970 shall be maintained by the contractor. This shall be submitted for verification as and when required.
4. The contractor shall provide at least two sets of uniforms, proper shoes (that provides safety will carrying out the work as detailed in the tender document) and photo identity card to his workers and no worker shall be allowed without proper uniform, shoes and I-card in the premises. It is entirely the contractor’s responsibility to ensure that all precautionary measures are put in place by him to ensure complete safety of his staff while on duty at ICGEB, New Delhi, campus.
5. Uniform: The contractor will provide 2 pairs of uniform to each of the employee deployed at site including stitching charges and 1 full Sweater for winter. The quality/colour of the uniform should be got approved by us before procurement of the same. In the event of extension of contract after first year, fresh pair of uniform (2 pairs) and 1 sweater to be provided to each employee deployed at site. They are deemed to be included in contractor’s scope and to be quoted separately in Sl. no. A (iii) in price bid.
6. Safety Shoes: The contractor will provide one pair of Safety Shoes of Liberty make Art. No. 7198-01 (N) /Bata/Action or equivalent make to each of the employee deployed at site including one pair of socks. The make/model no. of shoes should be got approved by us before procurement of the same. In the event of extension of contract after first year, fresh pair of safety shoes to be provided to each employee deployed at site. They are deemed to be included in contractor’s scope and to be quoted separately in Sl. no. A (iii) in price bid.
7. A Complete set of tools, testers (with calibration) and ground equipments required to maintain the site should be available on the site. No extra charges should be paid for any kind of tools and testers. The complete list of tools and tester should be handed over to ICGEB.
8. The contract can be terminated mutually by giving minimum two-month notice.
9. Cleaning and maintenance of the Rain harvesting system.
10. The successful bidder will depute their supervisor at ICGEB premises 10 days before for understanding and smooth takeover of the work.
11. **Jurisdiction –**

Any dispute arising out of this contract will be in accordance with the principle of international laws.

**(6)**

**Annexures for Technical Bid**

**Note: All the Annexures should be filled properly and neatly.**

**ANN**

**Annexure-A**

**TECHNICAL BID FORM**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Description.** | **Fill the detail** | **Page No. of documentary evidence.** |
| 1. | Name of Agency. |  |  |
| 2 | Office Address in Delhi NCR,  Tel. Nos and Email ID: |  |  |
| 3 | GST Registration details (with documentary evidence) | No. |  |
| 4 | PAN No. (with documentary evidence) | No. |  |
| 5 | ESI Registration No and date of registration (Receipts/ Challans for documentary evidence) | No.  Date. |  |
| 6 | EPF Registration No. and date of registration Receipts/ Challans for documentary evidence | No.  Date. |  |
| 7 | An average annual turnover of not less than Rs. 2.00 Crore for last three years (2019-20, 2020-21 and 2021-22) supported with documentary evidence which is certified by CA. | 2019-20 Rs. |  |
| 2020-21 Rs. |
| 2021-22 Rs. |
| 8 | Regional Labour Commissioner (Govt. of Delhi) Registration No. and date. | No.  Date. |  |
| 9 | Details of valid electrical license and any other license that is required to carry out the work detailed under this contract | No.  Date. |  |
| 10 | Experience (last Seven years)  (with 02 years continuation in a single organization) ending Feb, 2023 (copies of work orders and completion certificates if fully executed) **(Annexure V)** |  |  |
| 11 | One similar work of value not less than Rs 80.00 Lakhs per annum. | 1. Work order No.   Date:  Rs. |  |
|  |  |  |  |
| 12 | Two similar works, each of value not less than Rs. 50.00 Lakhs each per annum. | 1. Work order No.   Date:  Rs.   1. Work order No.   Date:  Rs. |  |
| 13 | Three Similar works each of value not less than Rs 40.00 Lakhs each per annum | 1. Work order No.  Date:  Rs.  2. Work order No.  Date:  Rs.  3. Work order No.  Date:  Rs. |  |
| 14 | Completion certificate, if fully executed. |  |  |
| 15 | Signed and stamped Tender document |  |  |
| 16 | Tender Fee |  |  |
| 17 | Earnest Money Deposit |  |  |
| 18 | Undertaking for not black listed |  |  |
| 19 | Site visit acceptance certificate (signed and stamped) |  |  |

Authorised Signatory

Name & Address of the firm with sea

**Annexure-B**

**TURNOVER DETAILS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Last Three Years Annual Turnover of the Bidding Entity** | | | | |
| (As per the Audited Financial Statement/Annual reports to be enclosed duly certified by CA, copies of Income tax returns also enclosed as proof) | | | | |
| **Financial Year** | **Turnover of operations in similar kind of business** | **Turnover in Other Operations** | **Total Turnover** | **Net Profit** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. Financial Statements are Balance Sheets and Profit & Loss Statements duly certified by a CA.
2. The Audited Financial Statement etc., are for the year 2019-2020, 2020-2021 and 2021-2022 (Proofs to be submitted to satisfy/meet the requirements of the Eligibility criteria).

Authorised Signatory

Name & Address of the firm with seal

**Annexure – C**

**Declaration by the Tenderer:**

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

Authorised Signatory

Name & Address of the firm with seal

NOTE: Submission of all the documents mentioned above along with declaration, is mandatory. Non submission of any of the information above may render the bid to be rejected

**Annexure –D**

**Details of other organizations where such contracts were undertaken as per the eligibility criteria**.

**(**Enclose supporting documents**)**.

Proforma containing details of other organizations where such or similar contracts were undertaken.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Name &Address oftheorganization,  **c**ontact number | No. of  personnel  supplied | Period  of  contract | Whether international / Govt/semi  Govt/Autonomous  Bodies/ research laboratories//PSUs/  Institutions/ Industries  etc. **(pls. specify)** | Amount  of  contract | Reason for  termination  (if  currently  not valid) |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Annexure –E**

**UNDERTAKING/DECLARATION FOR NOT BEING BLACKLISTED**

Date...................................

To,

The Director

International Centre for Genetic Engineering & Biotechnology

ArunaAsaf Ali Marg

New Delhi – 110 067.

Dear Sir,

I / We ................................................... hereby confirm that our firm has not been banned or Blacklisted by any government organizations/Institutions/Court/Public sector Units/Private organization. Further it is certified that there is no police case pending against our firm/partner relating to previous service contracts.

Authorised Signatory

Name & Address of the firm with seal

**Annexure - F**

This certificate shall be furnished duly signed & stamped with Techno-commercial Bid.

**Site Visit Certificate**

This is to certify that we have visited the site for work of Manning, Operation and Maintenance of the Infrastructural Facilities Including Central Air-Conditioning (Main Building and New Building), Window/Split Ac Units, Electric Substations, DG Sets, Internal And External Electrical Installations, Civil Maintenance, Water Supply And Water Softening System, Fire Fighting System with Pumps and Sewage Treatment Plant at ICGEB, New Delhi Componenton....................... and assessed the actual situation & nature of site. We have also assessed the amount of work involved at site for tendered work before submitting our offer. We will be able to complete the above work within stipulated time as per site conditions.

We further undertake that no extra cost will be claimed by us later-on for any difficulties/ modifications involved during the execution of tendered works. We understand that work is to be executed in an already operational/ functional institute.

Component In Charge Authorised Signatory ICGEB New Delhi Name & Address of the firm with seal

Authorised Signatory

Name & Address of the firm with seal

(To be made on Rs.100.00 Non Judicial Stamp Paper)

**DRAFT AGREEMENT**

This Agreement is made on \_\_\_\_\_\_\_\_\_\_\_\_\_\_ day of \_\_\_\_\_\_ Two thousand \_\_\_\_\_\_ between International Centre for Genetic Engineering & Biotechnology, New Delhi, as one part, hereinafter called ICGEB and M/s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Agency for “Manning, Operation and Maintenance of the infrastructural facilities including central air-conditioning (main and new building), window / split air-conditioning units, electric substation, DG sets, internal and external electrical installations, civil maintenance, water supply and water softening system, fire fighting pumps and sewage treatment plant”, on the other part.

WHEREAS the ICGEB is desirous to engage the Agency for providing “Manning, Operation and Maintenance of the infrastructural facilities including central air-conditioning (main and new building), window / split air-conditioning units, electric substation, DG sets, internal and external electrical installations, civil maintenance, water supply and water softening system, fire fighting pumps and sewage treatment plant”, at ICGEB New Delhi campus, on the terms and conditions as stated below:

1. The agency shall be solely responsible for compliance to provisions of various labour, industrial and any other laws applicable and all statutory obligations, such as, wages, allowances, compensations, EPF, Bonus, Gratuity, ESI etc relating to contract personnel deployed in ICGEB. The ICGEB shall have no liability in this regard.
2. The Agency shall be solely responsible for any death/accident/medical/health related liability/compensation for the personnel deployed by it at ICGEB while carrying out work at ICGEB or otherwise. The ICGEB shall have no liability in this regard.
3. Any violation of instructions/agreement or suppression of facts will attract cancellation of agreement without any reference or any notice period.
4. The contract can be terminated by giving two months notice on either side.
5. In case of non-compliance with the contract, ICGEB reserves its right to:
   1. Cancel/revoke the contract, and /or
   2. Impose penalty up to 10% of the total annual value of the contract.
6. Security deposit equal to 15% of the Annual Contract Value (refundable without interest after two months of termination of the contract) in the form of pay order/demand draft/FDR/or bank guarantee from a commercial bank shall be furnished at the time of signing of the Agreement.
7. The Agency shall be fully responsible for timely monthly payment of wages and any other dues to the personnel deployed in ICGEB.
8. The personnel provided by the Agency will not claim to become the employees of ICGEB and there will be no Employee and Employer relationship between the personnel engaged by the Agency for deployment in ICGEB.
9. There would be no increase in rates payable to the Agency during the contract period except reimbursement of the statutory wages revised by the Govt.
10. The agency also agrees to comply with **Terms and Condition of NIT-01/2023** and amendments thereto from time to time.
11. Decision of ICGEB in regard to interpretation of the terms and conditions and the Agreement shall be final and binding on the Agency.
12. All the terms and conditions detailed in the tender document (ICGEB/NIT /Infrastructural Facilities/2019) will remain in force during the term of the contract.
13. In case of any dispute between the Agency and ICGEB, ICGEB shall have the right to decide. Any dispute arising out of this contract will be in accordance with the principle of international laws.

IN WITNESS WHEREOF both the parties have set and subscribed their respective hands with their Seal in ICGEB campus, New Delhi in the presence of the witness:

**International Centre for Genetic Engineering & Biotechnology:**

Witness: 1.

2.

**Agency:**

Witness: 1.

2.

(7)

PRICE BID

**FINANCE BID (Schedule of Rate)**

**Name of Work: “**Manning, Operation and Maintenance of the Infrastructural Facilities Including Central Air-Conditioning (Main Building, Animal house and New Building), Window/Split Ac Units, Electric Substations, DG Sets, Internal and External Electrical Installations, Civil Maintenance, Water Supply and Water Softening System, Fire Fighting System with Pumps and Sewage Treatment Plant at ICGEB, New Delhi Component **on 24x7 basis.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** |  | | **Description** | | | | | **Per month** | **Amount** | |
| A. |  | | **Material as per details below** *(all-inclusive rate per month) (Estimated quantity).* | | | | |  |  | |
| i |  | | **Plumbing and carpentry material –**  **(Sealing Adhesives- 2 Kg), (screws- 1 Pkt), (nails-1 Pkt), (nut & bolt-5 pcs) , (washer- 5 pcs), (bracket& clips- 5pcs) (grease- 1kg), (chapkakundi-3pcs), (stellar lock-2 pcs) , (white cement- 1 kg), (clamps- 5 pcs), (rubber washer- 10 pcs), (rubber for stopper- 5 pcs) , (rubber buffer- 3pcs). (Hexa blade- 2pcs) , (Tar brush-1 pcs),(S.S brackets- 5 pcs), (masking tape- pack of 3), (Teflon tape – 5 pcs), (Thread- 1 pkt) (hole bit all types - 2)**  Cleaning materials like( old dhoti -5 pcs), (detergent soap- 1ltr), (broom-2no ) for General cleaning etc.  (Fuses – 10pcs) (Indicating Lamps-20 pcs), (Lubricating grease-100 gm), (Gland Dori- 2 Mtr), (Descaling chemical- 10 Ltr). etc. as required. | | | | | **Minimum estimated Amount**  **Rs. 5,000** |  | |
| ii |  | | Long Books Attendance Registers, History Books and other stationary. | | | | |  |  | |
| iii |  | | Dresses, Shoes, I-Cards etc. | | | | | Minimum estimated Amount  Rs. 3,000 |  | |
| **Total A** |  | |  | | | | |  |  | |
| B. |  | | **Manpower as per details below** *(please refer Special Terms & Conditions of the Tender document)* | | | | | |  | |
| i | Wages for complete month | | No. of persons | Wage per month | | | Amount | |  | |
| 1. Supervisor (Skilled) without reliever   (26 days). | | 01 | 22,146.00 | | | 22,146.00 | |  | |
| 1. Skilled labour without reliever   (26 days). | | 10 | 20,357.00 | | | 2,,03,570.00 | |  | |
| 1. Skilled labour with reliever (26 days). | | 09 | 20,357.00 | | | 1,83,213.00 | |  | |
| 1. Skilled Reliever charges (26 days). | | 1.5 | 20,357.00 | | | 30,535.50 | |  | |
| 1. Helper without reliever (unskilled) (26 days). | | 08 | 16,792.00 | | | 1,34,336.00 | |  | |
| Total Wages (a+b+c+d+e) | | | |  | | **5,73,800.50** | |  |
| ii | PF @ 13% *(including administrative charges as per rules)(maximum on `15,000/- per person, per month) (No. of person 29.50 x 15,000/- = Rs. 4,42,500/-).* | | | | | | 57,525.00 | |  |
| iii | ESI @ 3.25% (Maximum on 21,000/- per person per month) (Rs. 5,73,800 – Rs. 22,146/- = Rs. 5,51,654.50/-). | | | | | | 17,928.77 | |  |
| **Total B** | Total Monthly charges towards above manpower | | | | | | **6,49,254.27** | |  |
| C | Other charges *(if any)* | | | | | | | |  |
| D | Total (A+B+C) | | | | | | | |  |
| E | Agency charges ( In percentage on total D ) | | | | | | | |  |
| F | Total Monthly charges (D + E) | | | | | | | |  |
| Total Annual charges (F x 12 months) | | | | | | | | |  |
|  | |  | | | | (Amt. in words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) | | | | | |

1. The wages will be considered w.e.f. 1st Oct, 2022 by notification No. F. No. (142)/02/MW/VIII/Part file/5972-5986 dated- 14/10/2022.
2. If contractor wishes to pay more than the minimum wages to his manpower, he should take this into account in quote.
3. GST will be paid extra to contractor as per Govt. norms after submission of actual documentary evidence of depositing the same to Govt.
4. **BONUS to manpower** Bonus@ 8.33% (Maximum on 21,000/- per person per month) of basis Admissible for those workers only who completes at least30 days service in: Contractor shall disburse the bonus to its workers as per latest Government of India Payment of Bonus Act. Reimbursement will be done as per actuals after disbursement of the same. However, no other charges will be paid or applicable.
5. Abnormal low and high bids will not be entertained.
6. The item mentioned in Sr. No. ‘A’ will be reimbursed on production of bills. In case of availability of said material, alternate items can also be purchase as per requirement.