

विद्यारत्नम् महच्छनम्

राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान, जायस, अमेठी, उ० प्र०

**RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY**

**Jais, Amethi (U.P.) – 229 304**

**Website: [www.rgipt.ac.in](http://www.rgipt.ac.in)**

**E-TENDER FOR CIVIL AND ELECTRICAL WORKS FOR  
ESTABLISHMENT OF CRF LAB**

Tender No.	Tender No: RGIPT/Jais/IWD/CRF-Tender/2018/01, Date- 14/11/2018
Last Date & Time of Submission:	4/12/2018 (Tuesday) by 3:00 P.M, Duration: 21 Days
Date & Time of Opening Bid:	4/12/2018 (Tuesday) by 4:00 P.M
e-Tender Processing Fee (ITI Limited):	Rs.2491/- through e-payment Gateway available on <a href="https://rgipt.euniwizard.com">https://rgipt.euniwizard.com</a>

## Notice Inviting E-Tender and Schedule of Events

Online E-Tenders are invited under two part Bid system (Technical Bid and Financial Bid) from reputed, experienced and financially sound parties for the following work:

<b>Name of the Work</b>	Tender for Civil and Electrical works for establishment of CRF Lab
<b>Tender No.</b>	Tender No: RGIPT/Jais/IWD/CRF-Tender/2018/01, Date-14/11/2018
<b>EMD</b>	Rs.76,000/- (Rupees Seventy Six Thousand Only) through e-payment Gateway available on <a href="https://rgipt.euniwizard.com">https://rgipt.euniwizard.com</a> .
<b>e-Tender Processing Fee (ITI LIMITED)</b>	<b>Rs.2491/-</b> through e-payment Gateway available on <a href="https://rgipt.euniwizard.com">https://rgipt.euniwizard.com</a>
<b>Work Completion Period</b>	The period of contract will be of 60 days from the date of award of the tender.
<b>Issue of Tender</b>	The Tender document link can be obtained from the Institute website – <a href="http://www.rgipt.ac.in">www.rgipt.ac.in</a> and <a href="https://rgipt.euniwizard.com">https://rgipt.euniwizard.com</a> (e-tendering website). Please keep visiting our website for any corrigendum
<b>Pre-Bid Meeting</b>	12.00 P.M. on 27.11.2018 (Tuesday) for clarifications of queries, if any, at Conference Room, 2nd Floor, Administrative Building, RGIPT, Jais, Amethi (U.P.) – 229304.
<b>Last Date &amp; time of Submission of Tender Online (Bid due date)</b>	Upto 3:00 P.M. on 4.12.2018 (Tuesday)
<b>Opening of E-Tender</b>	Part – A – Technical Bid The technical Tender documents will be opened online the same day, i.e. 4 <sup>th</sup> Dec' 2018 at 04:00 P.M. in the presence of authorized representatives of the bidders.
	Part – B – Financial Bid Financial Bid will be open for technically qualified bidders and shall be intimated for later date for online Financial Bid opening.

<b>Contact Person (for any clarification)</b>	Executive Engineer (Civil), Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi (U.P.) – 229304, Mobile No.+91-9565993399
<b>Date and time of opening of Financial Bids</b>	To be intimated later by the Institute
<b>ITI Helpdesk Contact Detail</b>	Helpdesk landline No.- “011-49606060“ Mobile Number- Mr. Krishn Kumar Rai-07398741154, Mr. Saurabh-07042643428

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**E Tendering Helpdesk Number: 011-49606060/7398741154/7982696347/7042643428**

**E Tendering Helpdesk email ID: [ewizardhelpdesk@gmail.com](mailto:ewizardhelpdesk@gmail.com)**

**[ewizardkrishn@gmail.com](mailto:ewizardkrishn@gmail.com)**

### **Instructions for Online Bid Submission:**

The bidders are required to submit soft copies of their bids electronically on the e-tender Portal, using valid class 3 Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the e-tender Portal, prepare their bids in accordance with the requirements and submitting their bids online on the e-tender Portal.

More information useful for submitting online bids on the e-tender Portal may be obtained at: <https://rgipt.euniwizard.com>.

### **REGISTRATION**

1. Bidders are required to enroll on the e-Procurement Portal (URL: <https://rgipt.euniwizard.com>) with clicking on the link “Online bidder Registration” on the e-tender Portal by paying the **Registration fee of Rs. 2360/- Per vendor/per year.**
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidder.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (**Only Class III Certificates with signing + encryption key usage**) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC / e-Token.

- 7. The scanned copies of all original documents should be uploaded on portal <https://rgipt.euniwizard.com>**

## **SEARCHING FOR TENDER DOCUMENTS**

1. There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters.
2. Once the bidders have selected the tenders they are interested in, you can pay the form fee and processing fee (NOT REFUNDABLE) by net-banking / Debit / Credit card then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fee tenders will be moved to the respective 'requested' Tab. This would enable the e-tender Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

## **PREPARATION OF BIDS**

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF formats. Bid Original documents may be scanned with 100 dpi with Colored option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a

provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Documents” available to them to upload such documents.

5. These documents may be directly submitted from the “My Documents” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

### **SUBMISSION OF BIDS**

1. Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document as a token of acceptance of the terms and conditions laid down by RGIPT, Jais.
3. Bidder has to select the payment option as **“e-payment” to pay the tender fee / EMD** as applicable and enter details of the instrument.
4. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white Colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
5. The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission

of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

6. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
7. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. Upon the successful and timely submission of bid click “Complete” (i.e. after Clicking “Submit” in the portal), the portal will give a successful Tender submission acknowledgement & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details.
9. The tender summary has to be printed and kept as an acknowledgement of the submission of the tender. This acknowledgement may be used as an entry pass for any bid opening meetings.



## **ASSISTANCE TO BIDDERS**

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

Any queries relating to the process of online bid submission or queries relating to e-tender Portal in general may be directed to the 24x7 Helpdesk Support. **The contact number for the helpdesk is “011-49606060”**

## **NOTICE INVITING E-TENDER**

1. Online E-Tenders are hereby invited under Two Part Bid System i.e. Technical Bid and Financial Bid for the work of “Civil and Electrical” work for establishment of CRF Lab at the ground floor, Administrative Building of RGIPT Jais from reputed, experienced and financially sound Contractors of CPWD, Railways, other government departments and/or from those who have carried out similar works in RGIPT / IITs having completed one, two or three similar works, during last 7 years ending last day of the month from the date of this advertisement, amounting to Rs.80% (Rs.16,88,390/-), 50% (Rs.10,55,244/-) or 40% (Rs.8,44,196/-) of the estimated value respectively.

The tenderers are required to produce proof of fulfilling these conditions while submitting online e-tender. The Technical Bid should contain all the relevant information and desired enclosures in the prescribed format along with Earnest Money Deposit (EMD). The Financial Bid should contain only commercial. In case, any bidder encloses the financial bid within technical bid, the same shall be rejected summarily.

2. The estimated cost of the project is of Rs.21,10,488/- (Rupees Twenty One Lakhs Ten Thousand Four Hundred Eighty Eight Only) which is inclusive of all taxes. The basis for deriving this estimated cost is based upon CPWD SOR and Market Rates.
3. The total time for carrying out the work will be 60 days. The date of commencement shall be reckoned from the 5<sup>th</sup> day of issue of award letter /work order.

4. Tenders should be on the specified form (non-transferable) which may be obtained from website <https://rgipt.euniwizard.com>
5. The Earnest Money Deposit (EMD) amounting to Rs.76,000/- (Rupees Seventy Six Thousand Only) through e-payment Gateway available on <https://rgipt.euniwizard.com> should accompany the tender. Tender received without EMD will be invalid and rejected.
6. The bid security (EMD) shall be returned to the unsuccessful bidders after finalization of contract without any interest.
7. Financial bids of only those bidders will be opened who qualify in the Technical bids.
8. The Institute does not bind himself to accept the lowest or any tender and reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates as quoted.
9. Canvassing in connection with the tenders is prohibited and the tenders submitted by the contractor who resort to canvassing are liable for rejection.
10. Tender submitted shall remain valid for 60 days from the date of opening for the purpose of acceptance and award of work.
11. The tenderer should see drawings and in case of doubt obtain required particulars, which may in any way influence his tender from the Engineer as no claim whatsoever will be entertained for any alleged ignorance thereof.
12. Before tendering, the tenderer shall inspect the sites to fully acquaint himself about the condition in regard to accessibility of site, nature and extent of ground,

working condition of site and locally including stacking of materials, installation of tools and plants (T & P) etc., conditions affecting accommodations and movement of labour etc. required for the satisfactory execution of the work contract. No claim whatsoever on such account shall be entertained by the Institute in any circumstances.

13.If the contractor fails to commence the work as per Work Order then the Earnest Money will be forfeited.

14.Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the printed form of tenders.

**16. SECURITY DEPOSIT:**

The contractor shall be required to deposit an amount equal to 10% of the contract value as Performance Security in form of 'Demand Draft' in favour of "Rajiv Gandhi Institute of Petroleum Technology" payable at 'RGIPT Jais Campus' within 7 days from the date of issue to Work Order to him.

**OR**

A sum @10% of the contract value will be deducted from each running bill of the contractor till the sum along with the sum already deposited as earnest money, will amount to Security Deposit of 10% of Contract Value of the work.

## **GENERAL TERMS & CONDITION**

### **1. INTERPRETATION**

#### **WORK OR WORKS:**

shall mean all work or works define in schedule of quantities, specifications and such other work or works as the contractor may be entrusted with for carrying out under this contract.

#### **INSTITUTE:**

shall mean Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi.

#### **ENGINEER:**

shall mean the Engineer designated by the Institute to superintend and perform other duties as indicated in the contract.

#### **CONTRACTOR:**

shall mean the individual or firm or company, whether incorporated or not undertaking the work and shall include the legal personal representative or such individual or the persons composing such firm or company or the Successor of such firm or company and the permitted assignees of such individual or firm/(s) or Company.

#### **SITE:**

shall mean the site of contract works including any buildings and erections thereon and any other land adjoining thereto (inclusive) as aforesaid allotted by the Institute or the engineer-in-charge for the contractors use.

## **2. SPECIFICATIONS AND DRAWINGS:**

The contractor shall execute whole and every part of the work in the most substantial manner both as regards material and in accordance with the specifications. The contractor shall also conform exactly to the design, drawings and instructions given in the respect to the work.

## **3. MATERIALS:**

All materials used shall be as per standard, brand & specifications as specified the Bill of Quantity (BOQ).

## **4. CONTRACTOR TO PROVIDE EVERYTHING NECESSARY:**

4.1. The contractor shall provide at his own cost all materials (except such materials, if any as per the contract be supplied by the employer), plants, tools, appliances, implements, ladders, scaffolding, temporary works etc. requisite and proper for the execution of the work whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or which may be necessary for the purpose of satisfying or complying to the requirements of the institute as to any manner as to which under these conditions he is entitled to be satisfied together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work of materials. Failing his so doing, the institute at the expense of the contractor may provide the same and the expenses may be deducted from any money due to the contractor under the contract and/or from his security deposit.

4.2. The contractor shall provide himself with requisite quantity and quality of water for carrying out the works at his own cost. If, however, piped water is supplied by the Institute, the contractor shall pay for the water at discretion of Engineer-In-Charge, either from the running Bills or from the final bill. The contractor shall make his own arrangement for water connection and laying of pipelines from the source of supply of the Institute. It should be clearly understood that the employer does not guarantee to maintain uninterrupted supply of water and it will be incumbent on the part of the contractor to make alternative arrangement for water at his own cost in the event of any temporary break down in the water mains so that the progress of work is not held up for want of water. No claim as damages or refund of water charges will be entertained on account of such break-downs.

4.3. Subject to availability, the Institute may supply power at only one point from where the contractor shall make his own arrangement for distribution including provision of electric meters, switches, fuses etc. at his own cost. The cost of power consumed by the contractor shall be payable to the Institute at rates fixed by the Executive Engineer (Civil), which would be deducted from either the running account bills or from the final bill. However the Institute does not guarantee the supply of power and no compensation for any failure or short supply of power shall be entertained.

## **5. RATES TO INCLUDE ALL TAXES:**

5.1. Rates quoted by the contractor shall include GST (As per the CPWD norms), all other taxes and freight, in respect of this contract and the Institute shall not entertain any claim whatsoever in this respect. Tendered rates are inclusive of all taxes and levies, payable under the respective statutes.

5.2. The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by an authorized representative of the Institute and further shall furnish such other information and documents as the Engineer-In-Charge may require.

**6. FAULTY MATERIALS, WORKMANSHIP AND DEFECTS AFTER COMPLETION:**

The Engineer-In-Charge shall have powers to removal from the site all materials and work which in his opinion are not in accordance with specifications and in case of default, the engineer shall be at liberty to employ other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials to be substituted thereof and in case of default the engineer may cause the same to be supplied and all cost which may attend such removal and/or substitution are to be borne by the contractor.

**7. EXTENSION OF TIME:**

7.1. If the contractor shall desire and extension of time for the completion of the work on the grounds of his having been unavoidably hindered in its execution or any other ground, he shall apply in writing to the Executive Engineer (Civil) on account of which he desires extension as aforesaid, and the Executive Engineer (Civil) shall, in his opinion (which shall be final) reasonable grounds shown therefore, authorize such extension of time if any, which may in his opinion be necessary or proper.



7.2. In the event the value of work exceeds the value of the bill of quantities owing to variations the contractor shall be entitled to ask for extension of time in proportion to the increase value of the work.

## **8. SECURITY DEPOSIT:**

8.1. The contractor shall be required to deposit an amount equal to 10% of the contract value as Performance Security in form of Demand Draft in favour of “Rajiv Gandhi Institute of Petroleum Technology” payable at ‘RGIPT Jais Campus’ within 7 days from the date of issue of Work Order.

**OR**

A sum @10% of the contract value will be deducted from each running bill of the contractor till the sum along with the sum already deposited as earnest money, will amount to Security Deposit of 10% of Contract Value of the work.

8.2 In case of termination of contract, the security deposit shall be forfeited.

## **9. LIQUIDATED DAMAGES:**

The contractor shall pay liquidated damages an amount equal to 0.5% of the contract value, for every week, that the work remains un-commenced or unfinished or due quantity of work remains incomplete after the scheduled date of completion of the work. Liquidated damages to be paid shall not exceed 5% of the contract value.

## **10. PAYMENT TERMS & CONDITIONS:**

10.1. RGIPT will not pay any mobilization advance for the work. Progressive payment will be paid during the progress of the work on the basis of the actual work done, measured and approved by RGIPT.

10.2. Full and Final payment will be paid on the basis of the actual work done, measured and approved by RGIPT upon satisfactory completion of the work.

## **11. TECHNICAL BID: -**

To qualify in the Technical bid the firm should have the minimum eligibility criteria; the firm in this regard should submit the following documents –

- (a) Duly filled format of Technical Bid as per Annexure “1”.
- (b) Copy of constitution or legal status of the sole proprietorship/ firm/company etc.
- (c) Average Annual financial Turnover during last 3 Years, ending 31<sup>st</sup> March’ 2018 should be at least 30% of the estimated cost. Attach Copy of profit & loss account and balance sheet for last 3 Financial Years should be enclosed.
- (d) The technical bid should be accompanied by EMD for bid security of the amount.
- (e) Copy of Income Tax Return Filed Acknowledgements for last 3 Financial Years should be enclosed.
- (f) Copy of PAN Card.
- (g) Copy of GSTIN registration certificate.
- (h) The bidder must have adequate experience for supply/ execution of works in RGIPT / IITs having completed one, two or three similar works in last 7 years, as mentioned in Para 1 of page no 10 of this tender . Necessary supporting documents in support of similar works like work orders must be submitted along with the offer.

## **12. FINANCIAL BID: -**

The financial bid shall be submitted online in the prescribed format only.

**TECHNICAL BID FORMAT**

1	Name of the firm/ Society/ Company/ Proprietary Concern (Attach self attested copy)	
2	Address of registered office	
3	Telephone Nos./ Mobile Nos. /E-mail	
4	Earnest Deposits money (EMD) Yes/No	
5	PAN (Attach self attested copy)	
6	GSTIN Registration No. (Attach self attested copy)	
7	Details of clients along with address, telephone and Fax numbers, Amount of contract, Duration of contract. <b>(Attach a separate sheet in support of eligibility criteria).</b>	
8	Proof of financial status in form of Audit Report, Balance Sheet, Profit & Loss A/c along with all the schedules, ITR etc. for last 3 financial years, ending 31 <sup>st</sup> March' 2018. <b>(Attach self attested copies)</b>	

(Signatures of the authorized signatory  
with seal of tendering firm)

## FINANCIAL BID

**Name of the Work:** Civil and Electrical works for establishment of CRF Lab

S. NO	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b>A</b>	<b>CIVIL WORK</b>				
1	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material outside the site area up-to all leads. (Note:- The Serviceable material recovered during dismantling work shall be property of Contractor. The agency may quote rates after considering the same. No extra payment shall be made for the carriage of the material.)	Sqm	10.25		
2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes with Cement mortar 1:4 (1 cement : 4 coarse sand) all complete as per specification and direction of Engineer-In- Charge.	Cum.	27.50		
3	Providing & applying plaster to wall with 12mm thick cement mortar 1:4 (1 cement: 4 coarse sand) with finished smooth, including scaffolding, curing, etc. for walls, beams, ribs, sills, jambs, ceiling etc. at all floor levels, all complete as per specifications and direction of Engineer in Charge.	Sqm.	120.25		
4	Providing & applying plaster to wall on rough side with 15mm thick cement mortar 1:4 (1 cement: 4 coarse sand) with finished smooth, including scaffolding, curing, etc. for walls, beams, ribs, sills, jambs, ceiling etc. at all floor levels, all complete as per specifications and direction of Engineer in Charge.	Sqm.	120.25		
5	Reinforced cement concrete work in beams, lintels and lab counter above plinth level up to floor five level, including the cost of centering, shuttering, finishing with 1:1.5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size). all complete as per specifications and direction of Engineer in Charge.	Cum	2.50		

6	Supply and fixing of steel reinforcement (Fe 500/Fe 500D, TMT bars) for R.C.C. work including supply, straightening, cutting, bending, placing in position and binding with 16 gauge wire, all complete as per specification and direction of Engineer-In- Charge.(12mm dia and 8 mm dia bars)	Kg	230.52		
7	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. The sample of the <b>Granite shall be of approved shade.</b>	Sqm.	10.50		
8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. <b>(Make-JK white, Birla white)</b>	Sqm	195.50		
9	Providing and applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : <b>(Make-Asian paint, Berger paint, Nerolac paint)</b>	Sqm	195.50		
10	Wall painting with Plastic emulsion paint of approved brand and manufacture (two or more coats) of approved brand and manufacture and of required shade, to achieve even shade and colour, at all levels, all complete as per manufacturer's specification or direction of engineer in charge. <b>(Make-Asian paint, Berger paint, Nerolac paint)</b>	Sqm	195.50		
11	Providing and applying two or more coats of Synthetic enamel paint (conforming to IS) of approved make, colour and shade on one coat of primer on wooden frames including preparing and cleaning surfaces, required scaffolding etc. all complete as per drawings and direction of Engineer-in-charge. <b>(Make-Asian paint, Berger paint, Nerolac paint)</b>	Sqm	4.25		
12	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture <b>(Make-Asian paint, Berger paint, Nerolac paint)</b>	Sqm	50.50		

13	Providing wood work of <b>second class teak wood</b> in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length.	Cum	0.17		
14	Providing and fixing <b>good quality</b> 35mm flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with 1 mm thick laminate of approved make and shad fixed in pattern to both faces with second class teak wood liping all around, cutting rebate in shutter including 4 nos Stainless Steel ball bearing hinges (102x76x3 mm )with necessary screws.	Sqm	8.25		
15	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :	Rmt	13.75		
16	Providing and fixing <b>good quality</b> SS Aldrop 300 mm long with necessary screws etc.	No	2.00		
17	Providing and fixing <b>good quality</b> Stainless steel 304 Grade Pull Handle 300 mm long of approved make including making holes of required size in shutter etc. complete as per direction of Engineer-in-Charge.	Pair	3.00		
18	Providing and fixing of <b>good quality</b> SS Tower bolt 300 x 10 mm , with necessary screws etc.	No	3.00		
19	Providing and fixing <b>good quality</b> aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1200 mm), with double speed adjustment with necessary accessories and screws etc. complete. <b>(Make:Godrej,Dorset,Ozone)</b>	No	5.00		
20	Providing and fixing <b>good quality</b> aluminium hanging floor door stopper ( <b>Twin rubber stopper type</b> ) , ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.	No	6.00		
21	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by fastner with necessary screws etc. complete.	Kg	360.50		

22	Providing and fixing <b>good quality</b> white vitreous china laboratory sink with C.I. brackets,C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P.brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required of <b>Size 600x450x200 mm.</b>	No	1.00		
23	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS:1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling to be paid for separately) :				
23.a	<b>For fixed portion</b> Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) section size-45x45x2 mm. <b>(Make-Hindalco &amp; Jindal)</b>	Kg	124.50		
24	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
24.a	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) section size-85x45x2 mm. <b>(Make-Hindalco or Jindal)</b>	Kg	33.50		
25	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
25.a	Good Quality Pre-laminated particle board with decorative lamination on both sides.	Sqm	36.50		
26	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
26.a	With float glass panes of 4.0 mm thickness <b>(Make Saint-Gobain, Modiguard)</b>	Sqm	3.20		

27	Providing and fixing <b>good quality</b> 100mm brass locks for aluminium doors including necessary cutting and making good etc. complete. <b>(Make:Dorset,Godrej,Dorma)</b>	No	3.00		
28	Providing and fixing <b>good quality</b> aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :(300 mm long) (American handle)	pair	3.00		
<b>B</b>	<b>ELECTRICAL WORK</b>				
29	Supply and installation of <b>1 No</b> of Distribution board having incomer and outgoing details as per following details with specific no of quantities:  <b>(Rates has to be quoted on composite rate basis)</b>	No	1		
	<b>Incoming</b>			-	-
	1 No. 125 Amps 4 P MCCB 25kA with Microprocessor Based release for short circuit, over current and earth fault protection, spreader & extended rotary handle <b>(Make: L&amp;T/Schneider/ABB/Havells)</b>	No.	1	-	-
	Digital multifunction meter with inbuilt selector switch & RS485 and 125/5 Amps, 15VA, CL-1, Resin cast CTs . - 1 Set <b>(Make: AE/Kappa/L&amp;T/Schneider)</b>	set	1	-	-
	Phase indicating light R, Y, B 230Vac shall be protected by 2 amps SP MCB's. (10kA, C Curve) - 3 Nos <b>(Make: L&amp;T/Schneider/ABB/Havells)</b>	set	1	-	-
	<b>Bus Bars</b>			-	-
	200 amps TPN Aluminium bus bars with heat shrinkable insulation sleeve. <b>(Make: Hindalco)</b>	set	1	-	-
	<b>Outgoing</b>			-	-
	40 amps 4P RCCB (sensitivity : 300mA) with ON/OFF indication for Lab Equipments <b>(Make: L&amp;T/Schneider/ABB/Havells)</b>	Nos.	5	-	-
	40 amps 4P MCB, 10 kA C curve with ON/OFF indication for Lab Equipments <b>(Make: L&amp;T/Schneider/ABB/Havells)</b>	Nos.	10	-	-
	32 amps 2P RCCB (sensitivity : 300mA) <b>(Make: L&amp;T/Schneider/ABB/Havells)</b>	Nos.	5	-	-
	32 amps 2P MCB 10kA <b>(Make: L&amp;T/Schneider/ABB/Havells)</b>	Nos.	10	-	-



	20 amps 2P MCB 10kA <b>(Make: L&amp;T/Schneider/ABB/Havells)</b>	Nos.	5	-	-
	Supply and fixing in position 500 mmX 1000 mm wide rubber matting of 1.1 KV grade as per IS 15652-2006. Thickness of rubber mat shall be not less than 2.5 mm.	Nos.	1	-	-
	<b>Enclosure</b> with 450mm stand made by 50x50x5 mm angle and covered with bolted 1.2mm CRCA powder coated sheet & other items complete in all respect. Cable entry from bottom.	Nos.	1	-	-
30	<b>Supplying, laying &amp; commissioning of following 1100 volt grade XLPE insulated PVC sheathed aluminium conductor armoured cables from MDB (main distribution board) to the distribution board (mentioned in pt. 29.0) as per latest indian standard in existing trenches/direct in ground, cable trays, ducts, clamped to wall with suitable clamps, suitable lug and Nickel plated double compression heavy duty brass cable gland and other accessories including excavation, protective covering and complete as required.</b>	Metre	75.00		
30.1	3.5 Core, 120 sq. mm <b>(Make: LAPP/Polycab/Havells)</b>				
31	<b>Supply, Installation, Testing &amp; Commissioning of 10 Nos 2 Ton High wall mounted Split Air conditioners</b>				
31.1	Providing, fixing & commissioning of 2 Ton wall mounted split AC BEE rating 3 star alongwith connecting cable of adequate length between indoor and outdoor unit, drain pipe including wall chasing, providing drain pipe, mounting stand for outdoor units etc all complete and making good the disturbed area. <b>(AC Make: Samsung/Voltas/Blue Star/Daikin/LG)</b>	Nos.	10		
31.2	Supply and laying of 4 sqmm FRLS PVC insulated multistrand copper conductor of ISI mark with necessary fixing material like Common PVC channels, casing caping, spiral tube, flexible pipes, anchor fastner, ferrule, lugs & glands etc. for providing power supply to Air Conditioners from distribution board				
31.2.1	2 X 4 sq. mm + 1 X 4 sq. mm earth wire <b>(Make: LAPP/Polycab/Havells)</b>	Metre	180.00		
31.2.2	32 Amp plug & socket with MCB & suitable MS Box for AC <b>(Make : Havells/schneider)</b>	Nos.	10		

32	<b>Installation &amp; fixing of ceiling fans &amp; LED Lights as mentioned below :</b>				
32.1	Wiring & fixing for fan point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable <b>(Make Finolex/ Havells/ Polycab)</b> in surface / recessed medium class PVC channel, with modular switch, modular plate, electronic step type high speed fan regulator <b>(Make: crabtree)</b> , suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required <b>Note: Supply of Ceiling fans is not in the scope of contractor.</b>	Nos.	6		
32.2	Supply, installation, testing & commissioning of LED light <b>(Make: Philips, Model No.: 59098)</b> Ultrathin panel round 18W, IP20, 6500K LED ceiling recessed light in already available fixing space for Philips make FBH145 (2X18 watt CFL) light.	Nos.	58		
33	<b>Circuit Wiring</b>				
33.1	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor of reputed <b>(Make Finolex/ Havells/ Polycab)</b> , single core cable in surface/ recessed good quality PVC channels as required as per latest indian std./ CPWD guidelines, inclusive of supply and fitting of all required materials accessories e.g.: Junction boxes, lugs, ferrule etc. complete in all respect.				
33.2	4 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	250.00		
33.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	200.00		
33.4	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	300.00		
33.5	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	300.00		
33.6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Nos.	20		
33.7	Supplying and fixing <b>good quality</b> metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 5 pin 5/6 & 15/16 amps socket outlet and 15/16 amps modular switch, connection, painting etc. as required.	Nos.	15		
33.8	32 Amp Industrial plug & socket with 4 Pole MCB & suitable MS Box <b>(Make : Havells/schneider/ABB)</b>	Nos.	15		

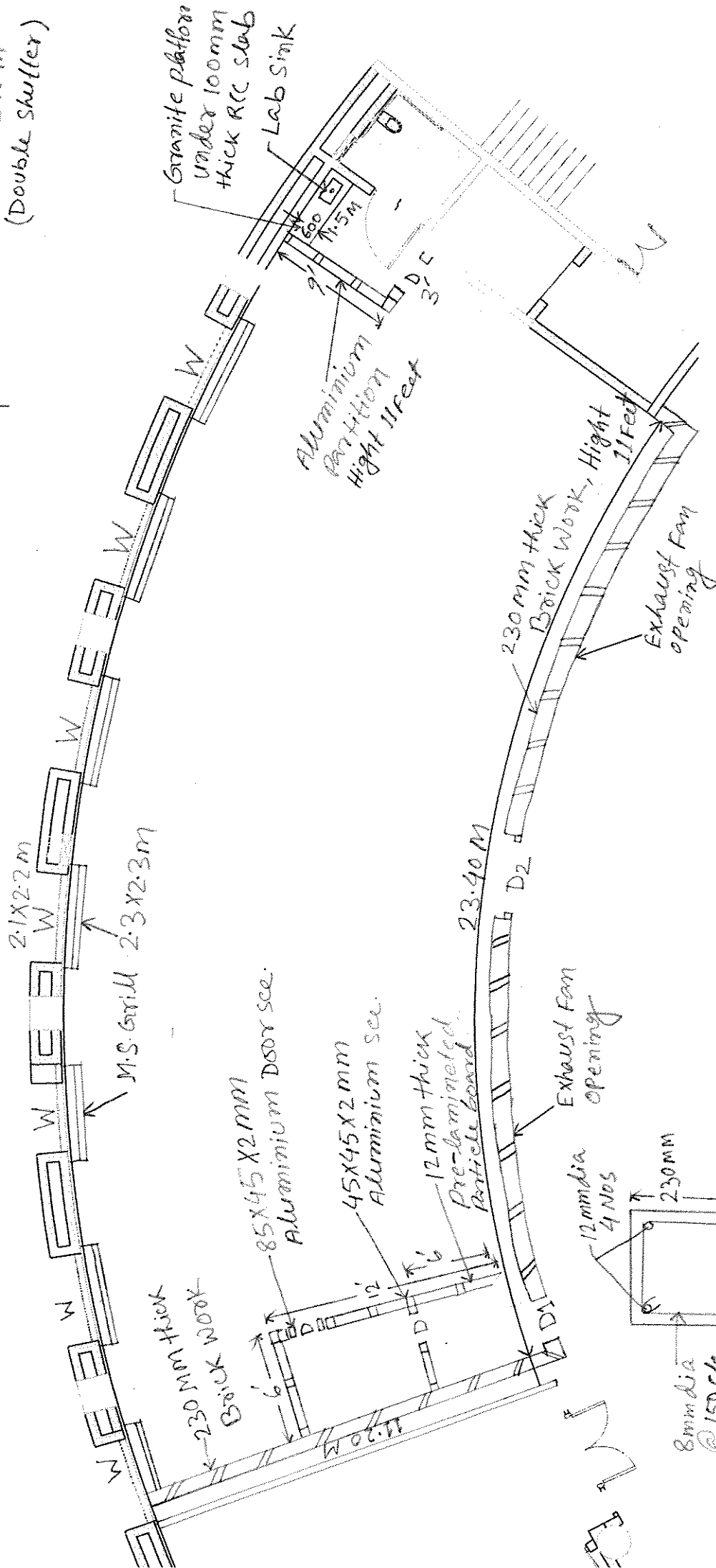
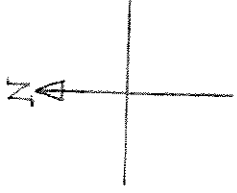
34	<b>Earthing Installation</b>				
34.1	Supply, installation, testing and commissioning of earthing station with copper plate earth electrode with copper plate 600 x 600 x 3 mm size and 3 meter deep filling with alternate layers of charcoal and salt and connection arrangements with 50 x5 mm copper earth strips with brass nut/bolt including watering arrangement, BM chamber with CI cover.	Set	2		
34.2	Supply and erection of GI strip for loop earthing in walls with connection etc. complete as required and of following size				
	25x 3 sq.mm GI strip	Metre	130.00		
<b>Total (Inclusive of all taxes)</b>					

# Annexure-A

D = 0.90m x 2.10m

D1 = 1.00m x 2.10m

D2 = 2.30 x 2.10m  
(Double Shutter)



NOT TO SCALE

RG PLAZA GROUND FLOOR CRF LAB

LINTEL