

**CSIR- INDIAN INSTITUTE OF CHEMICAL BIOLOGY, KOLKATA**

**TENDER**

**FOR**

**CIVIL WORK FOR REPAIR AND RENOVATION OF ROOM NOS.  
49, 248, 127 AND 315 AT CSIR-IICB, JADAVPUR, KOLKATA.**

**NOVEMBER, 2017**



**TENDER NO. ADMN. 26(394)/2017**

**ENGINEERING SERVICE UNIT**

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Signature of Tenderer with seal

**CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY, KOLKATA**

4, RAJA S. C. MULLICK ROAD, JADAVPUR, KOLKATA –700032.

Name of Work: **CIVIL WORK FOR REPAIR AND RENOVATION OF ROOM NOS. 49, 248, 127 AND 315 AT CSIR-IICB, JADAVPUR, KOLKATA.**

**Tender No. Admn. 26(394)/2017**

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**NOTE:**

Tenderer should confirm that they have downloaded and taken print at its true format as displayed of all the above papers. All the documents downloaded are to be submitted duly signed by the tenderer while submitting his offer.

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Signature of Tenderer with seal

**CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY  
4, RAJA S. C, MULLUICK ROAD, JADAVPUR,  
KOLKATA – 700 032.**

**PRESS NOTICE**

Tender No. : Admn. 26 (394)/2017

Date: 07/ 11 / 2017

Sealed item rate tenders are being invited in two envelope system from eligible contractors who have worked for CPWD, Railway, Post & Telegraph Dept, MES, State PWD,s, other government departments or Semi Government Organizations or CSIR or its Laboratories / Institutes and have successfully carried out civil works like construction and/or repair and renovation and/or up-gradation works.

For further detail about eligibility criteria and other information visit website [www.iicb.res.in/tender.html/](http://www.iicb.res.in/tender.html/)

1. Name of work : Civil work for Repair and Renovation of Room Nos. 49, 248, 127 and 315 at CSIR-IICB, Jadavpur, Kolkata.
2. Estimated Cost : Rs. 9.66 Lakh (Rupees Nine Lakh and Sixty Six Thousand Only).
3. Time of Completion : 3 (three) months.
4. Cost of Tender : Rs.500.00 (Rupees Five Hundred Only).
5. EMD : Rs. 19,400/- (Rupees Nineteen Thousand Four Hundred Only).
6. Availability and downloading facility of tender at website : From 10 / 11 / 2017 to 20 / 11 / 2017
7. Last date & time of submission : 21 / 11 / 2017 up to 3.00 PM
8. Date & Time of Opening : 21 / 11 / 2017 at 3.30 PM afterwards

S. Halder  
Administrative Officer

Head (ESU) / Dy. Head (ESU)

S. Ray  
Executive Engineer (Civil)

- Copt to: 1). Notice Board, CSIR-IICB – for display  
2). CSIR-IICB Website – for display

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Signature of Tenderer with seal

**CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY  
KOLKATA –700 032.**

**NOTICE INVITING TENDERS**

Tender No. : Admn. 26 (394)/2017

Date: 07/ 11 / 2017

1. Tenders are hereby invited for the work of “Civil work for Repair and Renovation of Room Nos. 49, 248, 127 and 315 at CSIR-IICB, Jadavpur, Kolkata” in two envelopes system from eligible contractors who have worked for CPWD, Railway, Post & Telegraph Dept, MES, State PWD,s, other government departments or Semi Government Organizations or CSIR or its Laboratories / Institutes and satisfy following criteria :

**a) Experience: Should have satisfactorily completed civil works like construction and/or repair and renovation and/or up-gradation works of value(s) as under, during the last seven years ending previous day of last date of submission of tenders should be either of the following: Joint ventures are not accepted.**

**Three completed works each costing Rs. 3.86 Lakh or above**

**or**

**Two completed works each costing Rs. 5.80 Lakh or above**

**or**

**One completed work costing Rs.7.73 Lakh or above.**

**b) Statutory Requirements:** Should have current Trade License of civil contractor, Professional Tax Enrolment Certificate with current Professional Tax payment challan, GST Registration Certificate and PAN / TAN number with the appropriate Authorities.

The tenderers are required to produce proof of fulfilling these conditions with covering letter of the firm in a sealed envelope along with the tender to determine Eligibility for the work.

2. Estimated Cost is **Rs. 9.66 Lakh (Rupees Nine Lakh and Sixty Six Thousand Only)** based on CPWD, Delhi Schedule of Rates 2016, WBPWD Schedule of Rates 2015 and Market Rates including all taxes and duties excluding GST. This estimate however is given merely as a rough guide.
3. Time for carrying out the work will be **3 (three) months** and the date of commencement shall be reckoned from the tenth day of issue of award letter.
4. Complete Contract documents to be complied with by the tenderer whose tender may be accepted can be seen at the IICB website [www.iicb.res.in](http://www.iicb.res.in)
5. Tenders should be on the specified form (Non transferable) which is available at the IICB website [www.iicb.res.in/tender.html/](http://www.iicb.res.in/tender.html/) from **10 / 11 / 2017 to 20 / 11 / 2017**. Interested contractors may download and take a print of all documents for filling up and submission. The Cost of Tender amounting to **Rs.500/-** (Non-refundable) as Demand Draft or Pay Order of a scheduled bank drawn in favour of Director, Indian Institute of Chemical Biology, Kolkata should accompany the tender. **Tender received without cost of tender will be invalid and summarily rejected.**

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Signature of Tenderer with seal

6. (I) Tenders should be submitted in double sealed covers superscribed with the name of work, date and time of opening written both on the inner & outer envelopes.

(II) Eligibility documents and Financial Offers should be given separately in two sealed envelopes each marked with '**Eligibility Documents**' and '**Financial Offer**' respectively in the following manner :

**(a) Envelope-1 marked as 'Eligibility Documents'** should contain -

- (i) Letter of Transmittal (Annexure-I)**
- (ii) Cost of Tender of Rs.500/-** (Non-refundable) as Demand Draft or Pay Order of a scheduled bank drawn in favour of Director, Indian Institute of Chemical Biology, Kolkata.
- (iii) Earnest Money Deposit of Rs. 19,400/-** (Rupees Nineteen Thousand Four Hundred Only) as Demand Draft or Pay Order of a schedule bank and drawn in favour of Director, Indian Institute of Chemical Biology, Kolkata
- (iv) Details (Annexure-II)** with supporting documents as per Clause-1 of Notice Inviting Tender.

**(b) Envelope-2 marked as 'Financial Offer'** should contain tender documents along with price bid.

(III) Both the envelopes shall be submitted together in another sealed envelope.

**Please note carefully that Financial Offer should not be submitted in Envelope-1.**

(IV) They will be received **up to 3.00 P.M on 21 / 11 / 2017** and will be opened at **3.30 P.M** on the same day at **Red Carpet Room, CSIR-IICB, Jadavpur, Kolkata**. Tender should be dropped in the tender box kept in **Main Gate Security Room** before the closing date and time indicated. In case these are sent by post, these should be sent by Regd.post/speed post addressed to the Director, CSIR- Indian Institute of Chemical Biology, 4 Raja S.C.Mullick Road, Kolkata – 700 032 . Tenderers are to ensure that they post the tender well in advance so as to reach before the closing time and date indicated.

(V) The envelope marked as 'Eligibility Documents' shall be opened at the same day. The time and date of opening of Financial Offer of only the qualified tenderers shall be opened at the notified time, date and place in the presence of the tenderers preferably within a month.

(VI) Before submission of tender, the bidders should visit the site at CSIR-IICB, Jadavpur campus, Kolkata-700032 during office hours of any working days (Monday to Friday) and clear all their queries, if any, from the Engineer / Administrative Officer.

7. (i) **The Earnest Money amounting to Rs. 19,400/- (Rupees Nineteen Thousand Four Hundred Only)** as Demand Draft or Pay Order of a schedule bank and drawn in favour of Director, Indian Institute of Chemical Biology, Kolkata should be accompanied with the tender. **Tenders received without earnest money will be invalid and summarily rejected.**

8. The Employer reserves the right to accept or to reject any tender, to annul the process and reject all tenders at any time without assigning any reason or incurring any liability to the tenderers. The Employer also reserves the right to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

The Employer 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 quoted.

The Employer also reserves the right, without being liable for any damages or obligation to inform the tenderer, to:

- (a) Amend the scope and value of contract to the tenderer
  - (b) Reject any or all the applications without assigning any reason.
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. The tenderer shall not be permitted to tender for works in the concerned unit of CSIR in which a relative is posted in the grade between Controller of Administration and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or subsequently employed by him and who are relatives as mentioned above.
- NOTE:** A person shall be deemed to be a relative of another if, and only if, (a) they are members of a Hindu undivided family; or (b) they are husband and wife; or (c) the one is related to the other in the following manner: Father, Mother (including step mother), Son (including step son), Son's wife, Daughter (including step daughter), Father's father, Son's son, Son's son's wife, Son's daughter, Son's daughter's husband, Daughter's husband, Daughter's son, Daughter's son's wife, Daughter's daughter, Daughter's daughter's husband, Brother ( including step brother), Brother's wife, Sister (including step sister), Sister's husband.
11. Tender submitted shall remain valid for 90 days from the date of opening of Financial Offer for the purpose of acceptance and award of work, validity beyond 90 days from the date of opening shall be by mutual consent.
12. The tenderer shall quote rates both in figures and words. He shall also workout the amount for each item of work and write in both figures and words. On check if there are differences between the rates quoted by the tenderer in words and in figures or in the amount worked out by him, the following procedure shall be followed:
- I. When there is a difference between the rates in figures and in words, the rates, which correspond to the amounts worked out by the tenderer, shall be taken as correct.
  - II. When the amount of an item is not worked out by the tenderer or it does not correspond with the rate written either in figures or in words, the rate quoted by the tenderer in words shall be taken as correct.
  - III. When the rate quoted by the tenderer in figures and in words tallies but the amount is not worked out correctly the rate quoted by the tenderer shall be taken as correct and not the amount.
13. 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.
14. Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility of site, nature and extent of ground, working condition of site and locality including stacking of materials, installations 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 Employer in any circumstances.
15. (a) If any tenderer withdraws his tender before the expiry of the validity period, or before the issue of letter of acceptance or work order, whichever is earlier, or makes any modification in the terms and conditions of the tender which are not acceptable to the department, then the employer shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely.
- (b). If the contractor fails to furnish the prescribed performance guarantee within the prescribed period, the earnest money will be absolutely forfeited to the employer.

(c). In case the contractor fails to commence the work specified in the tender documents or such time period as mentioned in the letter of award, after the date on which employer issues written orders to commence the work, or from the date of handing over of the site, whichever is later, the employer is at liberty to forfeit whole of the earnest money absolutely.

(d). If only a part of the work as shown in the tender is awarded, and the contractor does not commence the work, the proportionate earnest money with respect to cost of work so awarded will be forfeited

In case of forfeiture of earnest money as above, the tenderer shall not be allowed to participate in re-tender of the work.

16. **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. Tenderers who are desirous to offer rebate the same should be brought out separately in the covering letter and submitted along with the tender.**
17. Some of the provisions of General Conditions of Contract are given below. Interpretation however shall be as given in the General Conditions of Contract.
- a) Defect Liability Period: Twelve months from the date of completion as certified by the employer.
  - b) Minimum value of work for the intermediate certificate: **Rs.3.00 Lakh**. Intermediate certificate for a lesser amount can, however be admitted for payment at the discretion of the Engineer.
  - c) Security Deposit : A sum @ 10% of the gross amount of the bill shall 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 5% of the tendered value of the work.  
Performance Security : In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract as Performance Security within the period prescribed for commencement of work in the letter of award or the period prescribed for deposition of performance security in the letter of intent issued to him whichever is earlier.
  - d) Compensation : Contractor shall pay as compensation an amount equal to one percent or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the cost of the whole work as shown in the agreement for every week that the work remains uncompleted or unfinished or due quantity of work remains incomplete after the proper dates. Compensation to be paid shall not exceed ten percent of the estimated cost of the work as shown in the agreement.
18. For all specialist jobs e.g. lights, air conditioning, public address, fire protection, security/surveillance and building management systems etc. technical (covering also general and commercial terms) and financial offers will be given separately in two sealed covers.
19. Purchase preference will be given to Central Public Sector Enterprise (CPSE) for award of works costing between Rs.5 crores to Rs.100 crores as per provisions contained in para 20.10.9 in CPWD Manual 2003 and OM No.DPE/13(12)/2003-Fin Vol.II dated 18.07.05 issued by department of Public Sector Enterprise, Govt. Of India.
20. Clauses No. 28 of conditions of contract i.e. "**ESCALATION**" will not be applicable in this contract since the duration of contract is less than 18 months.

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**CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY  
KOLKATA – 700 032.**

Name of Work: **CIVIL WORK FOR REPAIR AND RENOVATION OF ROOM NOS. 49, 248, 127  
AND 315 AT CSIR-IICB, JADAVPUR, KOLKATA.**

**Tender No. Admn. 26(394)/2017**

**BRIEF PARTICULARS OF WORK**

1. Estimated Cost: **Rs. 9.66 Lakh (Rupees Nine Lakh and Sixty Six Thousand Only)**
2. Period of completion: **3 (three) months.**
3. The work will be executed at different laboratories / rooms inside main building of CSIR-IICB, Jadavpur Campus, Kolkata -700032. The works have to be carried out mainly inside of the rooms and sometimes outside of rooms. Efforts will be taken to make the rooms / labs but it may be required to carry out during working conditions of labs / rooms for which contractor should take care of this. During work, the contractor should take special care so that existing lab activities would not be hampered.

4.) Scope of the work

1. Dismantling Work
2. Replacement of Steel windows & wooden doors by aluminium windows & doors.
3. PCC works
4. Plastering works
5. Flooring works including tile works
6. Finishing and painting work
7. Structural Repair Work
8. Plumbing works
9. Other miscellaneous work s as per attached schedule of rates.

5). Work shall be executed according to General Conditions of Contract for CSIR works.

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Tender No. : Admn. 26 (394)/2017

Name of Work: **CIVIL WORK FOR REPAIR AND RENOVATION OF ROOM NOS. 49, 248, 127 AND 315 AT CSIR-IICB, JADAVPUR, KOLKATA.**

### **I): OTHER CONDITIONS**

These conditions are part of Special Conditions in General Conditions of Contract and should be read in conjugation. In case of any discrepancy, the General Conditions of Contract will prevail over these Conditions.

#### **1. Materials:**

Procurement of Various Materials: The Employer will not supply any construction materials required for the works under this contract. The Contractor must, therefore, make his own arrangements for timely procurement of various materials including steel and cement. Prior approval of each and every material including steel cement, aggregate, bricks etc or any other fittings & fixtures are to be taken from engineer before its procurement to site.

#### **2. Method of Execution & Measurement**

All the items of work shall be executed & measured as per standard CPWD specification and method of measurement except otherwise stated.

In case of any discrepancy the order of precedence in interpretation shall be as under:

Schedule of quantities

Drawings

Additional Conditions & Other conditions

General conditions of contract

Special conditions

Technical Specifications

CPWD latest Specifications

IS Codes

International codes

Best Engineering Practices

#### **3. Rates include all taxes excluding GST**

- (a) Rates quoted by the contractor shall include all statutory taxes and duties (such as purchase tax, turnover tax, duties, octroi, toll tax, royalties and all other taxes) in respect of this contract **but excluding GST which will be paid by CSIR-IICB as extra on submission of suitable documents by the party.** The employer shall not entertain any claim whatsoever in this respect. **In respect of GST, the same shall be paid by the contractor to the concerned department on demand and it will be reimbursed to him by the Department after satisfying that it has been actually and genuinely paid by the contractor. The applicable and eligible GST shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order.** Tendered rates are inclusive of all taxes and levies payable under the respective statutes. However pursuant to the constitution (Forty Sixth amendment) Act, 1982 if any further tax or levy is imposed by the statutes, after the date of receipt of tenders and the contractor thereupon necessarily and properly pays such taxes/levies the contractor shall be reimbursed the amount as per the rules on producing proof of payment so made provided such payments, if any, is not in the opinion of the Employer (whose decision shall be final and binding) attributable to delay in executing of work within the control of the contractor.

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Signature of Tenderer with seal

- (b) 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 a duly authorized representative of the Employer and further shall furnish such other information and documents as the Employer may require.
- (c) The contractor shall within a period of thirty days of imposition of any further taxes or levy pursuant to the Constitution (Forty Sixth amendment) Act, 1982 give a written notice thereof to the Employer that the same is given pursuant to this condition together with all necessary information relating thereto.
- (d) (i) **Further in continuation to Clause no. 3(a) above, with regard to GST**, the contractor / supplier/service provider to confirm that the GST amount charged in invoice is declared in its returns and payment of taxes is also made.
- (ii) The contractor / Supplier/ Service Provider shall agree to comply with all applicable GST laws, including GST acts, rules, regulations, procedures, circulars and instructions there under applicable in India from time to time and to ensure that such compliance is done within the time prescribed under such laws.
- (iii) The contractor/ Supplier/Service Provider should ensure accurate transaction details, as required by GST laws, are timely uploaded in GSTN. In case there is any mismatch between the details so uploaded in GSTN by the Contractor/Supplier/ Service Provider and details available with CSIR-Indian Institute of Chemical Biology (CSIR-IICB), then payments to the Contractor/ Supplier/Service Provider to the extent of GST relating to the invoices/s under mismatch may be retained from due payments till such time CSIR-IICB is not sure that accurate tax amount is finally reflected in the GSTN to CSIR-IICB's Account and is finally available to CSIR-IICB in terms of GST laws and that the credit of GST so taken by CSIR-IICB is not required to be reversed at a later date along with applicable interest.
- (iv) CSIR-IICB has the right to recover monetary loss including interest and penalty suffered by it due to any non-compliance of tax laws by the contractor/supplier/service provider. Any loss of input tax credit to CSIR-IICB for the fault of contractor/ supplier shall be recovered by CSIR-IICB by way of adjustment in the consideration payable.
- (v) Supplementary invoices/Debit note/credit note for price revisions to enable CSIR-IICB to claim tax benefit on the same shall be issued by the contractor/ Supplier/Service Provider for a particular year before September of the succeeding Financial Year.
- (vi) The purchase order/ work order shall be void, if at any point of time the contractor/ Supplier/Service Provider is found to be a black listed dealer as per GSTN rating system and further no payment shall be entertained.
- (vii) If necessary, CSIR-IICB may withhold a lump sum amount, to ensure proper compliance of GST rules of Govt. of India by the contractor, equivalent to GST from each running account bill /final bill, which will be refunded / adjusted along with the next bill or during reimbursement of GST actually paid towards previous bill to the concerned department.

#### 4. Certificates and Payments

The Contractor shall submit to the Engineer after the end of each month a detailed statement including measurements showing the estimated contract value of the Permanent Works executed up to the end of the month together with particulars of other amounts to which he is entitled under the Contract.

The statement shall be submitted on a pro-forma (prepared at the cost of the Contractor) approved by the Engineer along with soft copy of the same in a CD/Pen drive.

#### 5. Work Progress Review & Co-ordination Meeting

The Contractor shall be required to attend weekly progress review & co-ordination meetings with the Engineer, and the other Contractors during the period of Contract or as instructed from time to time. All costs incidental to such interaction shall be to the Contractor's account and no claim will be entertained by the Employer on this account.

## 6. Working beyond normal working hours

a) During execution contractor might have to execute at night to maintain completion schedule. Contractor has to make proper arrangement of security, safety, transportation, manpower and lighting arrangement etc. to be maintained during execution of works at night at his own cost and nothing would be paid separately towards these incidental charges and to be considered in the overall rate charged by him in the tender.

b) For rapid execution the contractor has to arrange their own equipments, machinery, tools and tackles needed for the work as submitted.

## 7. Contractor's Temporary Structures

The Contractor may, at his own expense and subject to the approval of the employer may construct offices, stores, workshop in the area allocated to him and removes the same as per the orders of the Engineer on completion of Works. The Contractor shall make his own arrangement at his own expense for labour camp / accommodation of his labour and staff and their conveyance to site as no workers/ staff shall unless with the specific approval of the employer be allowed to stay within the site. Gate passes shall be issued by the Engineer to authorise the contractor's staff and workers to enter the premises.

## 8. Testing of Materials & Workmanship

All materials used in the works shall be subject to inspection and test. The Contractor shall carry out sampling of such materials and provide all assistances for testing as per appropriate Indian Standards and as directed by the Engineer as per relevant clause in **General Conditions of Contract (GCC)**. Some salient testing for following materials:

(i) Concrete-(Cube test, NDT test), (ii) Mortar of plaster, (iii) Sand, (iv) Aluminium, (v) Painting, (vi) Structural steel and any other tests as per direction of Engineers.

## 9. Programme of Work and Progress Reports

The Contractor shall submit to the Engineer within one week of the Award of the Contract, Detailed Schedule in an approved form showing the estimated dates of commencement and completion of different parts of the Works including the expected dates for completion of the various Sections of the Works. The detailed Schedule shall be such as it can be updated or as directed by the Engineer. Revised Schedule shall be supplied to the Engineer as and when it is revised.

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Tender No. : Admn. 26 (394)/2017

## II): TECHNICAL SPECIFICATIONS

### 1. CIVIL WORKS

#### SECTION-A : MATERIALS

General :

- (i) Materials shall be of the best-approved quality obtainable and they shall comply with the respective Indian standard or International standard (if any) specifications.
- (ii) Samples of all materials shall be got approved before placing order and the approved sample shall be deposited with the EIC.
- (iii) In case of non-availability of materials in metric sizes, the nearest size in FPS units shall be provided with the prior approval of the EIC for which neither extra will be paid not any rebate shall be recovered.
- (iv) Materials shall be tested in any approved testing laboratory and the test certificate in original shall be submitted to the EIC and, the entire charges connected with testing including charges for repeated test if ordered, shall be borne by the Contractor.
- (v) It shall be obligatory for the Contractor to furnish certificate, if demanded by the EIC, from manufacturer or the material supplier that the work has been carried out by using their materials and as per their recommendations.
- (vi) All materials supplied by the Employer to any other specialist firms shall be properly stored and the Contractor shall be responsible for its safe custody until they are required on the works and till completion of work.
- (vii) Unless otherwise shown on Drawings or mentioned in the schedule of quantities or special specifications, the quality of materials workmanship, dimension etc. shall be as specified hereunder.

**CEMENT:** Cement shall be used as per latest CPWD Specifications.

**AGGREGATE:** Fine aggregate (sand) and Coarse aggregate shall be used as per latest CPWD Specifications.

**REINFORCEMENT STEEL & STRUCTURAL STEEL :** These should be used as per latest CPWD Specifications.

**BRICKS:** Bricks shall be used as per latest CPWD Specifications.

**PLYWOOD**

The plywood shall conform to the IS: 851 and IS: 303 respectively. It shall be resin bonded suitable for intended use. The contractor shall submit samples for approved as per the list of materials at the Owner / EIC's office.

## HARDWARE FITTINGS

All hardware fittings shall be obtained from approved manufacturers and shall bear ISI mark wherever available. The samples for fittings shall be submitted to the Owner / EIC for their approval.

### PAINTS:

Dry distemper, oil bound distemper, cement primer, oil paint, enamel paint, flat oil paint, plastic emulsion paint, anti-corrosive primer, red lead, waterproof cement paint shall be from an approved manufacturer and shall conform to the latest Indian Standard – IS : 5411 : 1974 (Part I) & IS : 5411 : 1972 (Part 2) for various paints. Ready mixed paints as received from the manufacturer without any admixture shall be used except for addition of thinner, if recommended by the manufacturer.

## STAINLESS STEEL

All stainless steel items will be of grade S.S. 316 grade and specifications are as per relevant IS codes of latest revision.

### ALUMINIUM SECTIONS:

All aluminium extruded sections will be as per IS: 733 and IS: 1285.

## SECTION-B : WORKMANSHIP

**EARTH WORK IN EXCAVATION & FILLING :** Works related to these type of work should follow the procedures as laid down in CPWD Specifications and as per direction of Architect / EIC.

**PLAIN & REINFORCED CEMENT CONCRETE:** Unless mentioned otherwise all concrete works will be as per IS 456-2000.

**BRICK MASONRY:** To be executed as per CPWD Specifications

**CURING :** To be executed as per CPWD Specifications and IS 456-2000.

**GLASS:** All glass shall be superior quality from approved manufacturer like Modi, Indo-Asahi or approved equivalent, having uniform refractive index and free from flaws, specks and bubbles. Sheet glass for glazing and purposes shall conform to I.S.1761 latest edition. The glass shall be brought to site in the original packing from the manufacturer and cut to size at site. The outer edges shall be straight and free from chips, spalls or any other damages. Wherever clear sheet glass is specified, it shall be flat drawn sheet glass and shall be at least 4mm thick or as specified. Where wire glass is mentioned it shall be thick rolled glass with centrally embedded wire mesh or Georgian type. Where obscure glass is mentioned it shall have a cast surface on one side. The contractor shall submit samples of glass for prior approval of the engineer.

In general, the putty shall conform to I.S. 420 latest edition. The putty shall be of best quality from approved manufacturer.

## PAINTING WORKS

The scope shall include furnishing of the materials, labour, scaffolding, tools and appliances to do all painting and/or white/colour washing of both interior and exterior surfaces of plastering, ceiling and all carpentry works, this also include painting structural and miscellaneous steel, railings, gratings, steel doors and frames, steel sashes, windows, louvers and frames, steel rolling shutters, M.S. grills etc.

## FINISH

Various types of finishing shall be done as indicated in the 'Interior Finish Schedule' and/or as directed by the Engineer, The colours shall be in accordance with 'Painting Schedule' or as selected by the Architect.

## MATERIALS

### GENERAL

Paints, primers, varnishes, wood preservatives, distempers, cement paints etc. shall be highest agreed products of well known approved manufacture and shall be delivered to the site in original sealed containers, bearing the brand and name of the manufacturers with labels intact and shall be subject to inspection, analysis and approval. It is desired that materials of one manufacturer only shall be used as far as possible. Colours shall be uniform and non-fading.

Samples of all finish and colours as selected shall be submitted to the Architect, before bulk purchase is made and any work is started. All finished work shall match corresponding samples kept with the Engineer.

In case of selection of special shades and colour (not available in standard shades) the Contractor shall mix different shades of ready mixed paints as per instructions of the Architect/EIC. All paint shall be subjected to analysis from random samples taken at site from painter's buckets, if so desired by the Engineer.

### PREPARATION OF SURFACE FOR PAINTING

#### CARPENTARY WORK

Protruding timber fibres shall be removed and all holes shall be filled with teakwood batten. The nail marks shall be covered with putty. The wood shall then be sanded first with G/80 sand paper followed by C/120 or G/150 sand paper. Sanding should be taken up only when it can be followed immediately by painting.

#### STEEL WORK

The surface shall be thoroughly cleaned, sand papered and/or rubbed with emery cloth if necessary to remove grease, mortar or any other foreign material. In case of rusted surface, it shall be first cleaned with steel wire brushes till the corroded crust is removed. The cleaned surface shall be shiny and free from brush marks. Patches, blister and other irregularities. The surface thus finished shall be got approved before painting.

### APPLICATION

#### PAINTING

Painting shall be done by skilled labourers in a workman like manner. All materials shall be evenly applied so as to be free from sags, runs, crawls, or other defects. All coats shall be of proper consistency and shall be well brushed out, so that no brush marks are visible, except varnish and enamels, which shall be uniformly flowed on. The brushes shall be cleaned and in good condition before application of paint. No work shall be done under conditions that are unsuitable for production of good results.

The undercoating should be nearest to the specified colour of the finishing coat, Ready mixed synthetic enamel paint or fill paint may be used for the undercoat. The undercoat shall be uniform and free of all brush marks.

Undercoats should be completely dry before finishing coat is taken up. For synthetic enamels overnight and for oil paints a whole day shall be left between undercoat and finishing coat. The undercoat shall then be rubbed with G/240 sandpaper and dusted clean. The finishing coat of approved paint shall then be applied. If the surface is not satisfactory an additional finish coat shall be applied at no extra cost. The paints shall be applied with bristle brushes and not horse hair ones.

#### STRUCTURAL STEEL WORK:

All steel work shall conform to IS: 800-1962 or the latest code of practice and shall be free from defects impairing strength, durability or appearance and shall be of the best quality for the purpose specified and possessing structural properties to withstand safely stresses to which these shall be normally subjected. The Contractor shall bear the costs of all the tests.

All structural steel members brought by or handed over to the Contractor shall be handled with care, stacked on edge and supported evenly.

Cutting shall be affected by shearing, cropping or sawing and shall be clean, reasonably square and free from distortion. If directed, the edges shall be ground. Gas cutting by mechanically controlled torch shall be permitted for mild steel only with the approval of the Consultant.

It shall be the responsibility of the Contractor to submit shop drawings to the Consultant and shall be prepared well in advance of the actual fabrication. These shall show full size sections and all joints and connections, thickness of materials used and details of welds etc. and shall clearly distinguish between, shop and field rivets, bolts and welds. Drawing shall be made in conformity with the I.S. code for shop drawings and with due regard to speed and economy in fabrication and erection. A marking diagram allotting distinct identification marks to each separate piece of steel shall be prepared. The diagram shall be sufficient to ensure convenient assembly and erection at site. All shop drawings shall show temporary bracing and connections required during fabrication and erection.

**Welding:** Welding wherever indicated on the drawings shall conform to IS: 814-1963 unless otherwise specified. Welding shall be carried out by experienced welders only, who if necessary, shall produce testimonials about their work or if required by Architect/Consultant shall have to undergo qualifying tests as prescribed in IS: 1181. Welding work shall be carried out as per IS: 816.

Welding shall be done in flat position wherever possible and adequate steps shall be taken to maintain the correct arc length, rate of travel, current and polarity for the type of electrode and nature of work.

The work shall be securely held in position by means of tack welds, service bolts, clamps or jigs before commencing the welding so as to prevent any relative movement due to distortion, wind or other causes. When welding is liable to cause distortion, the work shall be securely held in approved frames of jigs.

Parts to be fillet welded shall be brought in as close contact as practicable, and in no event shall be separated more than 4.75 mm. If the separation is 1.6 mm. or greater, the size of the fillet welds shall be increased by the amount of the separation.

The separation between facing surfaces of lap joints shall not exceed 1.6 mm. The fit of joints at contact surfaces which are not completely sealed by welds, shall be close enough to exclude water after painting.

Abutting parts to be butt-welded shall carefully align. Misalignment greater than 3 mm shall be corrected and while making the correction, the parts shall not be drawn into a sharper slope than two degrees (11 mm. in 30 cm.).

The sequence of welding shall be such that when possible, the members which offer the greatest resistance to compression are welded first.

Welded joints showing slag inclusion or lack of proper penetration shall be cut and re-welded. Overlap of the top of the weld and under-cutting of the parent metal should be avoided and where present to a serious extent shall be rectified.

All slag shall be removed from each run before another run is superimposed.

Grinding of finished weld is permitted provided the weld is not reduced below the prescribed section. All exposed welds shall be ground smooth. Welds which have not been ground shall be scrubbed with a 10% solution of Hydrochloric acid which shall be washed off with water before an alkali resisting paint is applied.

### **MODE OF MEASUREMENT**

The method of measurement for various items in the tender shall be generally in accordance with CPWD Specifications and IS:1200 unless mentioned otherwise.

### **LIST OF MATERIALS**

Chemical for Structural repair	: FOSROC, PIDILITE, CHOKSEY, SIKA or Equivalent
Cement	: Ambuja, Lafarge, ACC, Ultratech or equivalent.
Micro-concrete	: FOSROC, PIDILITE, SIKA, CHOKSEY or Equivalent
Reinforcement steel & Structural Steel:	Tata, sail, SRMB-500+ or equivalent
Aluminium sections	: Hindalco, Jindal, NALCO, Hind Aluminium or equivalent
Paint & primer	: ICI, Berger, Asian Paints, Nerolac or equivalent
Glass	: Modifloat, Indoasahi float, St.Gobain or equivalent
P.V.C pipes & fittings	: Supreme Industries, Oriplast, Ashirbad or equivalent.
G.I. pipes	: Tata
G.I. fittings	: HB fitting, NB fittings or equivalent.
Gun metal valves	: Leader Engineering Works, Bombay Metal Co.,Annapurna Metal Works or equivalent.

#### **Note:**

The materials shall be in order of preference and where equivalent materials are proposed to be used, they should be as approved by the Architects/ Employer. Any other materials which are not mentioned in the list will be as per approval of the Engineer.



**CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY  
KOLKATA – 700 032.**

Name of Work: **CIVIL WORK FOR REPAIR AND RENOVATION OF ROOM NOS. 49, 248, 127  
AND 315 AT CSIR-IICB, JADAVPUR, KOLKATA.**

**Tender No. Admn. 26 (394) / 2017**

**SUMMARY OF COST**

**Total** [brought forward from page no. 29] = Rs.....

**Total in Words: (Rupees.....only)**

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Signature of Tenderer with seal

Name of Work: **CIVIL WORK FOR REPAIR AND RENOVATION OF ROOM NOS. 49, 248, 127 AND 315 AT CSIR-IICB, JADAVPUR, KOLKATA.**

**Tender No. Admn. 26 (394) / 2017**

**PREAMBLE TO THE SCHEDULE OF RATES**

- i. The bidder shall quote rates including all statutory taxes and duties but **excluding GST which will be paid by CSIR-IICB as extra on submission of suitable documents by the bidder.**
- ii. The rates and prices entered by the Contractor in the Schedule of Rates shall be deemed to cover the complete and finished work, inter-alia, all costs and expenses which may be required for successful completion of the works together with all risks, liabilities, contingencies, octroi, taxes etc. (excluding GST) and obligations imposed or implied by the Contractor
- iii. The quantities given in the Schedule of Rates are estimated only and are given to provide a basis for comparison of quotations. Payment to the Contractor shall be made on the basis of prices and rates quoted in the quotation for measured quantities of the work done by him. The quantities of work required to be carried out by the contractor may vary.

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Tender No. : Admn. 26 (394)/2017

**SCHEDULE OF RATES**Name of Work: **CIVIL WORK FOR REPAIR AND RENOVATION OF ROOM NOS. 49, 248, 127 AND 315 AT CSIR-IICB, JADAVPUR, KOLKATA.****Tender No. Admn. 26 (.....) / 2017**

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.Nominal concrete 1:3:6 or richer mix (i/e equivalent design mix).	Cum	12.60		
2	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	1.00		
3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :Of area 3 sq. metres and below.	each	12.00		
4	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm.	sqm	1.52		
5	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge. In cement mortar.	Cum	4.01		
6	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :15 mm to 40 mm nominal bore	metre	30.00		
7	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :Above 40 mm nominal bore	metre	10.00		

Signature of Tenderer with seal

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
8	Dismantling of flushing cistern/ Basin/Sink of all types (C.I./PVC/Vitreous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	3.00		
9	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	278.50		
10	Dismantling aluminium/ Gypsum/ Wooden partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-charge.	sqm	34.30		
11	Dismantling of AC duct at Room no. 248 including cutting the steel pipe inside duct and disposing the same to the civil scrap yard or as directed by the Engineer-in-Charge.	Job	1.00		
12	Cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), in floor including finishing complete.	Cum	9.60		
13	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.40 mm thick with 20 mm nominal size stone aggregate	sqm	34.00		
14	Providing and laying vitrified <b>floor tiles</b> in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm.	sqm	55.00		

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
15	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in <b>skirting, riser of steps</b> , over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm.	sqm	7.00		
16	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	9.20		
17	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 and dash fasteners to be paid for separately) <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).	Kg	415.00		

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
18	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 and dash fasteners to be paid for separately) <b>:For shutters of doors, windows &amp; ventilators</b> 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) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15).	Kg	228.50		
19	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.	sqm	11.70		
20	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):With float glass panes of 4.0 mm thickness.	sqm	15.00		

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
21	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):With float glass panes of 5.50 mm thickness.	sqm	3.00		
22	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987 iv) 5mm thick coloured / tinted / smoke glass.	sqm	13.60		
23	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight up to 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With brass cover plate minimum 1.25 mm thickness.	each	5.00		
24	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	6.00		
25	Providing and fixing chromium plated brass handles with necessary screws etc. complete:125 mm.	each	12.00		
26	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 in :Cement mortar 1:4 (1 cement : 4 coarse sand).	Cum	0.20		
27	Half brick masonry 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. Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	25.50		

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
28	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	sqm	25.50		
29	20 mm cement plaster of mix :1:4 (1 cement: 4 coarse sand).	sqm	290.50		
30	6 mm cement plaster of mix :1:3 (1 cement : 3 fine sand).	sqm	34.50		
31	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.	sqm	325.50		
32	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer.	sqm	325.50		
33	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work.	Cum	325.50		
34	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	kg	7.00		
35	Providing and fixing 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 :Size 600x450x200 mm.	each	5.00		
36	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 38 mm dia. of 83 mm length and 77mm breadth, weighing not less than 60 gms.	each	5.00		
37	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore.	each	5.00		



SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
38	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/e cutting and making good the walls etc.15 mm dia. nominal bore.	metre	35.00		
39	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/e cutting and making good the walls etc. 20 mm dia. nominal bore.	metre	5.00		
40	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/e cutting and making good the walls etc.50 mm dia. nominal bore.	metre	35.00		
41	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :25 to 40 mm nominal bore.	each	29.00		
42	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :50 to 80 mm nominal bore.	each	27.00		
43	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :15 mm nominal bore.	each	3.00		
44	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :15 mm diameter pipe.	metre	35.00		
45	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :20 mm diameter pipe.	metre	5.00		
46	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :50 mm diameter pipe.	metre	35.00		

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
47	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :15 mm nominal bore.	each	1.00		
48	Providing & fixing 3 way Swan Neck Tap: 15 mm nominal bore.	each	3.00		
49	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 75 mm diameter.	metre	15.00		
50	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.5° 75 mm bend.	each	9.00		
51	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 75 mm.	each	15.00		
52	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping un till hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer - in - Charge.	sqm	27.00		
53	Cleaning the exposed reinforcement preferably up to full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement as per manufacturer's specification].	sqm	11.00		

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
54	Applying epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time as per manufacturer's specification. (0.4 Kg / m <sup>2</sup> of concrete surface).	sqm	27.00		
55	Removing corroded worn out portion of reinforcement (when the area of bar is damaged by more than 25%) by cutting and replacing the same by a new plain round bar of requisite diameter by binding with required lap / welding with old bar, including cost of reinforcement, complete in all respect including removing unserviceable materials from site as per direction of the Engineer - in - charge. Note: Payment on weight (Kg.) of new reinforcement.	Kg	25.00		
56	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Cement/Epoxy.	points	42.00		
57	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete as per direction of Engineer in Charge.	Kg	48.00		
58	Providing and pouring cementitious micro-concrete of approved make like FOSROC [Renderoc RG], PIDILITE, SIKA or equivalent for getting high early strength matching with the existing concrete in stages not more than 0.60 m in length per casting including proper surface preparation, all complete as per manufacturer's specifications.	Sqm	18.50		
59	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	1.35		

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
60	Providing and fixing GI wire mesh with nails over the structure.	sqm	16.00		
61	Centering and shuttering including strutting, propping etc. and removal of form for :Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	5.00		
62	Supplying and making of prefabricated wooden form work shuttering for structural retrofitting.	sqm	16.00		
63	Fixing of pre-fabricated wooden formwork shuttering including structuring, propping etc and removal of formwork for columns.	sqm	16.00		
64	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level. Thermo-Mechanically Treated bars.	Kg	108.00		
65	Providing and fixing vertical venetian blind of approved make ( Mac/Vista).	Sqm	13.50		
66	Providing and fixing scaffolding system on the exterior side, up to five story height made with Bamboo centre to centre horizontal & vertical joining with coir rope and also providing working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it thereafter .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	sqm	84.00		

SI No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
67	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	23.00		
		<b>Total =</b>			
Total in words = Rupees .....only					

## ANNEXURE- I

## LETTER OF TRANSMITTAL

## Request for Eligibility

(To be submitted by type-written in the letterhead of Tenderer)

Ref.No.....

Date.....

To

The Director

CSIR-Indian Institute of Chemical Biology,

4, Raja S.C.Mullick Road, Jadavpur

Kolkata – 700032

Sub: Submission of Tender for the Work of ‘.....’ at Indian Institute of Chemical Biology, Jadavpur Kolkata

Sir,

I/we have read, examined tender documents with all its contents & conditions carefully and have no doubt on it and agreed to execute the work as per said conditions.

I/we hereby certify that all documents displayed in the tender documents are downloaded and printed at its true format as displayed and no addition alteration modification are made in that document. I/we also agree that if any addition alteration modifications are found in my/our tender, this would be summarily rejected and I/we would have no claim on it.

I/we have furnished all information and supporting details necessary for eligibility and have no further pertinent information to supply. I/we also certify that all the information supplied is true and correct. I/we also agree that in case of any misleading or false or deliberately suppressed information or record of poor performance such as abandoning work, not properly completing contract or financial failure/weakness etc. I/we may be liable for disqualification.

I/we also authorize the Director, IICB or his authorized representative to approach individuals, employers, firms or corporation to verify our competence and general reputation.

I/we hereby tender for the execution of aforesaid work within the time specified in tender and in accordance in all respects with the specifications, designs, drawings and instructions referred in General condition of contract and with such materials as are provided for by and in respects in accordance with such conditions, so far as applicable.

I/we agree to keep the tender open for 90 days after opening of price bid which would be opened preferably within a month after opening of eligibility documents and not to make any modifications in its terms and conditions.

‘Earnest Money’ amounting to Rs...../- from scheduled bank .....branch..... vide DD/Pay Order No..... as well as ‘Cost of Tender’ amounting to Rs.....from scheduled bank .....branch..... vide DD/Pay Order No..... ; both drawn in favour of Director, Indian Institute of Chemical Biology, Kolkata are deposited along with the tender and are placed inside ‘Envelope No1’ marked as ‘Eligibility Documents’.

I/we further agree that if I/we fail to furnish the prescribed performance security within the prescribed period, IICB without prejudice to any other right or remedy be at liberty to forfeit the earnest money absolutely. Further if I/we fail to commence the work as specified, I/we agreed that IICB shall without prejudice to any other right or remedy be at liberty to forfeit both the earnest money and performance security absolutely.

Further I/we agree that in case of forfeiture of earnest money or earnest money and performance security as aforesaid, I/we shall be debarred for participation in the re-tendering process of the work.

I/we hereby declare that I/we shall treat the tender documents, drawings and other records connected to this work as secret / confidential documents and shall not communicate information derived there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety and security to IICB.

Enclosures:

Signature of Tenderer with seal

## ANNEXURE- II

## DETAILS

To be filled by the bidders in their Letter heads along with supporting documents

Sl. No.	Particulars	Fill in details		To submit Supporting Documents	Whether submitted (Yes / No)
		Organization	Yes/No		
1	Whether worked for CPWD, Railway, Post & Telegraph Dept, MES, State PWD,s, other government departments or Semi Government Organizations or CSIR or its Laboratories / Institutes and satisfy	CPWD		Copy of work orders	
		Railway			
		Post & Telegraph			
		MES			
		State PWD			
		other government dept.			
		Semi Government Organization			
		CSIR or its Laboratories			
2	Experience: Have satisfactorily completed civil works like construction and/or repair and renovation and/or up-gradation works of value(s) as under, during the last seven years ending previous day of last date of submission of tenders should be either of the following: Joint ventures are not accepted.	Experience of work done during last seven year of multistoried building works			
		<b>Category</b>	<b>Yes / No</b>		
		Construction building works			
		Repair and renovation / up-gradation building works			
3 (l)	(i) Name of works/project executed during last 7 years of values : Three completed works each costing Rs. 3.86 Lakh or above Or Two completed works each costing Rs. 5.80 Lakh or above Or One completed work costing Rs.7.73 Lakh or above. (ii) Owner or executing agency (iii) Cost of work done (iv) Date of completion as per completion certificate (v) Litigation / Arbitration cases if any (vi) Name and address of the	.....		Copy of work orders & corresponding completion certificates	
		Rs.....			
		.....			
		.....			
		.....			
		.....			

Signature of Tenderer with seal

	<p>officer to whom reference may be made</p> <p>(vii) Any other information</p> <p>.....</p> <p>.....</p>			
3 (II)	<p>(i) Name of works/project executed during last 7 years of values :</p> <p>Three completed works each costing Rs. 3.86 Lakh or above</p> <p>Or Two completed works each costing Rs. 5.80 Lakh or above</p> <p>Or One completed work costing Rs.7.73 Lakh or above.</p> <p>(ii) Owner or executing agency</p> <p>(iii) Cost of work done</p> <p>(iv) Date of completion as per completion certificate</p> <p>(v) Litigation / Arbitration cases if any</p> <p>(vi) Name and address of the officer to whom reference may be made</p> <p>(vii) Any other information</p>	<p>.....</p> <p>Rs.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>	Copy of work orders & corresponding completion certificates	
3 (III)	<p>(i) Name of works/project executed during last 7 years of values :</p> <p>Three completed works each costing Rs. 3.86 Lakh or above</p> <p>Or Two completed works each costing Rs. 5.80 Lakh or above</p> <p>Or One completed work costing Rs.7.73 Lakh or above.</p> <p>(ii) Owner or executing agency</p> <p>(iii) Cost of work done</p> <p>(iv) Date of completion as per completion certificate</p> <p>(v) Litigation / Arbitration cases if any</p> <p>(vi) Name and address of the officer to whom reference may be made</p> <p>(vii) Any other information</p>	<p>.....</p> <p>Rs.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>	Copy of work orders & corresponding completion certificates	



## ANNEXURE- II (contd..)

Sl. No.	Particulars	Fill in details	To submit Supporting Documents	Whether submitted (Yes / No)
4.	<p><b><u>Statutory Requirements:</u></b></p> <p>i) Current Trade License as civil contractor</p> <p>ii) Professional Tax Registration</p> <p>(iii) GST Registration Certificate</p> <p>(iv) PAN/TAN number with the appropriate Authorities</p>	<p>License No.....</p> <p>Date.....</p> <p>Certificate No.....</p> <p>Date.....</p> <p>Challan No.....</p> <p>Date.....</p> <p>Regn. No.....</p> <p>Date.....</p> <p>PAN / TAN.....</p>	<p>(i) Copy of current Trade License as civil contractor</p> <p>(i) Copy of Professional Tax Enrolment Certificate</p> <p>(ii) Copy of latest P.Tax payment challan up to 30/6/2017</p> <p>(i) Copy of GST Registration Certificate</p> <p>(i) Copy of PAN /TAN</p>	