

E-Tender

for

**Day to day civil repairing, refurbishing and maintenance
work of the Institute buildings and different labs of the
Institute at CSIR-IICB, Kolkata.**



Tender No.: CSIR_IICB/Admn.26(947)/E/2026

**CSIR-IICB, KOLKATA
Engineering Services Unit**

Tender No.: CSIR_IICB/Admn.26(947)/E/2026

Tender ID.: 2026_CSIR_276011_1

Name of the Work: Day to day civil repairing, refurbishing and maintenance work of the Institute buildings and different labs of the Institute at CSIR-IICB, Kolkata.

C O N T E N T S

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IMPORTANT DETAILS

1.	Notice Inviting Tender No.	:	CSIR_IICB/Admn.26(947)/E/2026
2.	Total Tender Document Pages	:	84 pages (excluding BOQ, Details of Bidder & Check List)
3.	Name of the Work	:	Day to day civil repairing, refurbishing and maintenance work of the Institute buildings and different labs of the Institute at CSIR-IICB, Kolkata.
4.	Time Period For Execution	:	365 Days
5.	Estimated Cost	:	Rs.43,70,000/-
6.	Earnest Money Deposit (EMD)	:	Rs.87,400/-

TABLE-II (CRITICAL DATE SHEET):

Sl. No.	PARTICULARS	Date	Time
1	Online Publication of Tender	05/05/2026	15:00 Hrs
2	Bid document downloaded/sale start date	05/05/2026	15:00 Hrs
3	Online Bid submission start date	05/05/2026	15:00 Hrs
4	Online Bid Submission end date	18/05/2026	15:00 Hrs
5	Opening date of Technical Bid	19/05/2026	15:00 Hrs

Note: CSIR-IICB may at its discretion, extend/change the schedule of any activity and intimate the bidders by notifications through the CPP Portal.

NOTICE INVITING TENDER

Tender No: CSIR_IICB/Admn.26(947)/E/2026

1. Online tenders (E-Tenders) are hereby invited for the work of **“Day to day civil repairing, refurbishing and maintenance work of the Institute buildings and different labs of the Institute at CSIR-IICB, Kolkata”** from the eligible Agencies /Company /Contractor /Firm and involved in execution of similar type of work of appropriate class of CPWD, Railways, MES, Post & Telegraph Department, **other Government departments or Semi Government Organizations or CSIR or its Laboratories / Institutes** and/or from those who have carried out similar works successfully for CSIR, Semi-Govt. organizations with similar credentials as per **clause number 1(ix) of Important Notes section** of NIT and above. The tenderers are required to produce / upload proof of fulfilling these conditions along with latest income tax clearance certificate, issued by Income Tax, Department, Govt. of India at the time of participation of bidding.
2. Estimated cost is Rs.43,70,000.00 (Rupees Forty-Three Lac Seventy Thousand Only). The estimated cost is based on CPWD schedules of rates and prevailing market rates including all the statutory taxes and duties, GST & Labour cess etc.
3. Time for carrying out the work will be **365 days** and the date of commencement shall be reckoned from the 10th day of issue of award letter or agreement date.
4. Complete contract documents to be complied with by the tenderer whose tender may be accepted can be seen at the office of Engineering Services Division, CSIR-IICB, Kolkata.
5. Tender documents are available in the website <http://etenders.gov.in> and can be downloaded from the Central Public Procurement Portal (CPPP) <http://etenders.gov.in>. **The short notice inviting tender and the tender document** is also available on CSIR-IICB website www.iicb.res.in (for reference only).
6. Documents to be uploaded by the bidder:

Documents to be uploaded by the contractor/Tenderer		
Sl No.	https://etenders.gov.in/eprocure/app Cover Details as given in CPPP websitehttps://etenders.gov.in/eprocure/app	Description of Items (all copies must be digitally signed)
1	Fee/Pre Qual./Technical (.pdf)	
	(a) Fee Details (.pdf)	(i) Scanned Copy of Demand draft of Earnest Money Deposit
Documents to be uploaded by the contractor/Tenderer		

SI No	https://etenders.gov.in/eprocure/app Cover Details as given in CPPP website https://etenders.gov.in/eprocure/app	Description of Items (all copies must be digitally signed)
	(b) Pre-Qualification Details (.pdf)	
	(i) Credential	Scanned Copies of Work Order and its Completion Certificate for the Experience Criteria as mentioned above in SI. No. 1 / (a) of NIT
	(ii) Turnover	Scanned Copies of Average Annual Turnover during the last immediate last three consecutive financial year. as mentioned above in SI. No. 1 / (c) of NIT
	(iii) Profit/loss:	Scanned Copies of Profit/loss account as mentioned above in SI. No. 1 / (d) of NIT
	(iv) Solvency Certificate:	Scanned Copies of Solvency Certificate as mentioned above in SI. No. 1 / (e) of NIT
	(iv) Statutory Documents	Scanned Copies of all Statutory Documents as mentioned above in SI. No. 1 / (g) of NIT
	(c) Technical Details (.pdf)	(a) Tender Documents (b) Scanned copy of Letter of Transmittal duly signed by the bidder in his Firm's Letter Head.
2	Finance (.xls)	Bills of Quantity (.xls)

7. **The Earnest Money of 87,400/- (Rupees eighty-seven thousand and four hundred only) as Demand Draft or Pay Order of a schedule bank and drawn in favor of Director, CSIR-Indian Institute of Chemical Biology, Kolkata should accompany the tender. Scanned copy of payment of EMD to be uploaded by the Contractor/Tenderer at CPPP website <https://etenders.gov.in/eprocure/app>. E-Tender received without scanned copy of Demand Draft or Pay Order of EMD fees will be invalid and summarily rejected. All bidders shall have to submit the original Demand Draft or Pay Order of EMD and copies of all other relevant documents which to be uploaded themselves during tender in support of credentials etc., along with a forwarding letter within five days from the date of Technical bid opening to the Works and Services Section (Room No -50), CSIR-IICB, Jadavpur, Kolkata. Technical Bid of a bidder without submission of original Demand Draft or Pay Order for EMD within the stipulated time will be invalid and summarily rejected.**

NB: Amendment in EMD clause

As per 'Rule 170 of GFR 2017 (Pg. No.49)' and 'SOP No 5/1, SI No.6 (Pg. No34) under Subhead "Contract Management" of CPWD Works Manual 2019' and 'Micro and Small Enterprises (MSEs) Order 2012 under section 11 of MSMED Act, 2006 and Gazette notification on 26th March 2012' "The MSME firms registered in NSIC under PP policy are exempted from payment of EMD for supply of goods and services only". No other relaxation shall be allowed.

EMD exemption to MSME (NSIC) registered firm will be accepted as per guidelines of Govt. of India. Bid Security Declaration is (Ref. ANNEXURE-2) required in this case.

8. Canvassing in connection with the tenders is prohibited and the tenders submitted by the contractor who resort to canvassing are liable for rejection.
9. 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:
- Amend the scope and value of contract to the tenderer
- Reject any or all the applications without assigning any reason.
10. The tenderer shall not be permitted to tender for works in CSIR-IICB in which a relative is posted in the grade between Controller of Administration and Junior Engineer (both inclusive). He/she shall also intimate the names of persons who are working with him/her in any capacity or subsequently employed by him/her and who are relative 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. Labour Cess shall be recovered at 1 (one) percent of the total cost of the work done.
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/herself 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. **Earnest Money will be forfeited if the contractor fails to commence the work as per letter of award. If the contractor fails to furnish the prescribed performance guarantee within the prescribed period, the earnest money will be absolutely forfeited to the employer.**
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.
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. **If any bidder withdraws his/her bid before issuance of acceptance letter then, the Authority shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the Earnest Money deposited by the bidder. Further, the bidder shall not be allowed to participate in the re-bidding process of the work.**
17. Except entering rates, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the tenders. Tenderers who are desirous to offer rebate, the same should be brought out separately in the covering letter and uploaded along with the Tender.
18. 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: **12(twelve) months** from the date of completion as certified by the employer.
 - b. Minimum value of work for the intermediate certificate: Rs.15,00,000/- (Rupees Fifteen Lakh Only) as Intermediate certificate for a lesser amount can be admitted for payment at the discretion of the Employer.
 - 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.**
 - d. Performance Security / FDR pledge in favor of "Indian Institute of Chemical Biology" : In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract

as Performance Security / FDR pledge in favor of "Indian Institute of Chemical Biology" within the period prescribed for commencement of work in the letter of award issued to him/her.

- e. **Additional Performance Security: During financial bid evaluation, if the lowest bidder's overall quoted cost is found to be abnormally low (i.e. more than 25% below the estimated cost put to tender / justified cost), an additional performance guarantee in the form of Demand draft shall have to be deposited before signing of contact agreement towards assurance of proper quality control of work. The required amount on account of the additional performance guarantee would be calculated based of lowest bidder's quoted cost and intimated to the lowest bidder during the price bid evaluation along with a quality assurance undertaking duly notarized by a government Notary. This additional performance guarantee amount will be refunded to the contractor after completion of the work in all respect.**
- f. 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.
19. Schedule showing approximate quantity of materials to be supplied by the Employer under **clause 6** of the General condition of contract for works contracted to be executed and the rates at which they are to be charged for.

Particulars of materials	Approx. Qty.	Rates of which the material will be charged to the contractor			Place of Delivery
		Unit	Rs. (figures)	Rs. (Words)	

Note: The tenderer shall ensure that particulars in the above form are filled in by the Engineer before he submits the tender.

20. For all specialist jobs e.g. lights, air conditioning, public address, fire protection, security/surveillance and building management systems, technical (covering also general conditions and commercial terms) and financial offers will be given separately in two covers.
21. Purchase preference will be given to Central Public Sector Enterprise (CPSE) for award of works consisting between Rs.5 crores to Rs.100 crores as per provision content 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 Enterprises, Govt. of India.
22. **The bidder should have a registered office at Kolkata. If the bidder is not from Kolkata or its surroundings then the bidder must have a commercial office / service centre with adequate manpower within Kolkata or its surroundings and has to submit authentic document like Property Tax, Electricity Bill etc. as proofs while participating in the tender through CPP. If it is a leased property or the bidder hired it as a tenant then the copy of agreement between the owner and the bidder along with latest Property Tax clearance certificate has to be uploaded by the bidder, otherwise the bid uploaded by the bidder shall not be accepted.**
23. **The bidder must upload Professional Tax Enrollment Certificate along with latest challan copy while**

participating in the tender through CPP and this document shall be treated as mandatory document. Henceforth no declaration shall be accepted in this regard. The bid from such bidders, who fail to fulfill these criteria, shall not be accepted.

24. If it is subsequently established or found that a service provider has given any false information or facts or has suppressed facts or has forged any document, etc. the EMD and Performance Security Deposit / FDR pledge in favor of "Indian Institute of Chemical Biology" submitted by the service provider, as the case may be, will be forfeited and no excuse what so ever will be entertained thereof.
25. Bids and all accompanying documents shall be in English and Hindi. In case any accompanying documents are in other languages, it shall be accompanied by an English translation. The English version shall prevail in matters of interpretation.
26. In pursuant of the OM bearing No. P-45021/2/2017-PP(BE-II) dated 04th June, 2020 and again on 16th September 2020 issued by Department of Industry and Internal Trade (Public Procurement Section), Ministry of Commerce & Industry, Govt. of India, it is hereby intimated that only Class I & II local suppliers are eligible to bid. In this context, all participating firms are requested to provide the enclosed form (Ref: ANNEXURE-III) duly filled and signed. No such self-certification/declaration from the firm will be accepted after opening of the bids. The details are available at Tender Notice of IICB's website <http://iicb.res.in>.

Minimum Local Content: The 'local content' requirement to categorize a supplier as Class I local supplier is minimum 50%. For 'Class II local supplier', the 'local content' requirement is minimum 20%.

Class I local supplier at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content and provide self-certification that the item offered meets the local content requirement for Class I local supplier/Class II local supplier, as the case may be. They shall also give details of the location(s) at which the local value addition is made. Eligibility for participation in this tender is restricted to Class- I and Class- II, local Suppliers only. In clauses of conditions of contract i.e. "ESCALATION" will not be applicable in this contract since the duration of contract is less than 18 months.

IMPORTANT NOTES

1. The bidder must have uploaded the following documents for the eligibility of the tender otherwise the bidder may be rejected.
 - i. Valid Trade License (Certificate of Enlistment along with nature of trade)
 - ii. PAN card/ TAN Card
 - iii. GST Registration Certificate
 - iv. Employees Provident Fund (EPF) Registration Certificate
 - v. Employees State Insurance Corporation (ESIC) Registration Certificate
 - vi. Professional Tax enrollment certificate along with latest challan copy
 - vii. Either latest ITR along with Income Tax Clearance Certificate issued by Income Tax Department, Govt. of India or latest audited balance sheet duly signed by chartered accountant with valid UDI Number for preceding three years (All documents may be verified with originals)
 - viii. Solvency Certificate/ Banker's certificate from a commercial bank or net worth certificate: Banker's certificate of amount equal to 40% of the Estimated Cost put to tender (ECPT) or Net worth Certificate of minimum 10% of the ECPT issued by certified chartered accountant with UDIN.
 - ix. Profit/loss: The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during available last five consecutive balance sheet, duly audited and certified by the Chartered Accountant.
 - x. The bidder who has made misleading or false representation or deliberately suppressed the information, in the forms, statements and enclosures required in the eligibility criteria, has record of poor performance such as abandoning work, not properly completing the work or financial failures /weakness etc. would be liable to be disqualified at any stage of tendering.
 - xi. Experience: Should have satisfactorily completed similar nature of works such as civil works like construction and/or repair and renovation and/or up-gradation and/or AMC of Civil works during the last seven years ending previous day of last date of online submission of e-tenders should be either of the following: Joint ventures are not accepted.

Three completed works each costing not less than the amount equal to 40% of the estimated cost put to tender i.e. Rs 17.48 Lakh or above Or

Two completed works each costing not less than the amount equal to 60% of the estimated cost put to tender i.e. Rs 26.22 Lakh or above Or

One completed work costing not less than the amount equal to 80% of the estimated cost put to tender i.e. Rs 34.96 Lakh or above.
 - xii. The value of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to the last date of previous month in which bids are received.
 - xiii. Turnover: Average annual financial turn over should be at least 30% of the estimated cost put to tender during the immediate last 3 consecutive financial years. The value of annual turnover figures shall be brought to current value by enhancing the actual turnover figures at simple rate of 7% per annum.
 - xiv. Power-of-attorney (if any)
 - xv. Documents according to sl. no.22, of NIT (if applicable) of this Tender Document.

2. A party or an individual falling under the following categories is not eligible to participate in the bid:
 - i. Having outstanding dues in respect of any contract with CSIR-IICB, Kolkata.
 - ii. Debarred/black-listed by Central Vigilance Commission, Central Bureau of Investigation any other Govt./Semi-Govt. Agencies or by CSIR and / or their sister concern.
 - iii. Parties facing action under PPE Act, with CSIR-IICB, Kolkata.
 - iv. Any party falls under category as per NIT **clause No.10**.
3. Following 3 (Three) Covers shall be submitted through online at e-portal by the bidder:

Cover-I: Fees Details

- i. Scanned Copy of payment proof of EMD (In case MSME/NSIC certificate/ valid registration is not available)
- ii. Scanned copy of canceled cheque
- iii. Details of bidder

*** Similar works means civil works like construction and/or repair and renovation and/or up-gradation and/or AMC of Civil works.

Cover-II: Technical Bid

- i. All the relevant documents as per **Sl. No.1 of Important Notes** as applicable.

Cover-III: Financial Bid

The bidder shall fill the price schedule as follows:

- i. Bidders are requested to submit the Financial Bid in the format provided (Excel file) and no other format is acceptable. The Financial Bid for the work are required to download, open it and complete the unprotected cells with their respective financial quotes and other details (such as name of the bidder etc.). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the file name. If the BOQ file is found to be modified by the bidder, the bid will be rejected. It may be noted that only duly submitted bids shall be evaluated and bids just saved but not submitted shall not be part of the evaluation process.
- ii. The Cover No. III (Financial Bid) shall be opened only for those bidders who are qualifying the Cover No. II (Technical Bid).

• **FORMATS AND SIGNING OF BID**

- i. The bidders shall digitally sign & encrypt their bids and upload the bids with all documents online at e-Tendering portal as mentioned above.
- ii. The electronic Bids can also be digitally signed by the duly authorized representative of the bidder at e-tendering portal binding the bidder to the contract. **Written power-of-attorney** in favor of the person authorized to sign the bid electronically shall be submitted in this regard (if applicable) at the CPP Portal.

- iii. The e-bid submitted shall be in properly readable form and encrypted as per CPP Portal requirements. Standard Printed terms and conditions of the company other than the NIT conditions shall not be considered. Any such bids received with vendor terms and conditions shall be liable for rejection.

Documents to be uploaded by the contractor/Tenderer		
SI No.	https://etenders.gov.in/eprocure/app Cover Details as given in CPPP website https://etenders.gov.in/eprocure/app	Description of Items (all copies must be digitally signed)
1	Fee/Pre Qual./Technical (.pdf)	
	(a) Fee Details (.pdf)	(i) Scanned Copy of Demand draft of Earnest Money Deposit
Documents to be uploaded by the contractor/Tenderer		
SI No	https://etenders.gov.in/eprocure/app Cover Details as given in CPPP website https://etenders.gov.in/eprocure/app	Description of Items (all copies must be digitally signed)
	(b) Pre-Qualification Details (.pdf)	
	(i) Credential	Scanned Copies of Work Order and its Completion Certificate for the Experience Criteria as mentioned above in SI. No. 1 / (a) of NIT
	(ii) Turnover	Scanned Copies of Average Annual Turnover during the last immediate last three consecutive financial year. as mentioned above in SI. No. 1 / (c) of NIT
	(iii) Profit/loss:	Scanned Copies of Profit/loss account as mentioned above in SI. No. 1 / (d) of NIT
	(iv) Solvency Certificate:	Scanned Copies of Solvency Certificate as mentioned above in SI. No. 1 / (e) of NIT
	(iv) Statutory Documents	Scanned Copies of all Statutory Documents as mentioned above in SI. No. 1 / (g) of NIT

	(c) Technical Details (.pdf)	(a) Tender Documents (b) Scanned copy of Letter of Transmittal duly signed by the bidder in his Firm's Letter Head.
2	Finance (.xls)	Bills of Quantity (.xls)

- **GENERAL CONDITION OF TENDERING PROCEDURE**

1. Director, CSIR-IICB, reserves the right to reject any or all the tenders or to accept them in part or to reject lowest tender without assigning any reason whatsoever. Director, CSIR-IICB also reserves the right to call off tender process at any stage without assigning any reason.
2. Director, CSIR-IICB reserves the right to reject the tender document of working agencies whose performance at ongoing project(s) is below par and unusually poor and has been issued letter of restrain/Temporary/Permanent debar by any department of CSIR-IICB. Director, CSIR-IICB reserves the right to verify all the documents submitted by the agency at any stage (before or after the award of work). If at any stage, any information/documents submitted by the applicant is found to be incorrect/false or have some discrepancy which disqualifies the firm then CSIR-IICB shall take action as per CSIR-IICB guidelines.
3. **The original DD / Banker's cheque EMD along with the original copies of all the documents uploaded by the bidder in Cover II (Technical Cover) should be submitted by the bidders at Work's Section of, CSIR-IICB, Jadavpur, Kolkata. The proprietor of the company must bring the original documents. The proprietor can also send his/her staff along with original documents. In that case, the staff member should bring the authorized letter issued by the proprietor of that firm along with some identity proof of that staff member and also bring the rubber stamp of that company. If any bidder fails to submit the said documents on that day within the stipulated time, the Authority, reserves the right to reject the bidder. After verifying the original documents with the uploaded documents, the same shall be returned to the bidder. If any information uploaded by the bidder during the time of Technical Bid mismatch with the original document or not available in original document, the bidder shall be liable to be debarred from tendering/taking up of work in CSIR-IICB. If due to any reason the last date of submission of bid will change simultaneously the date of submission of all the documents will also be changed and the new date of submission of all the documents will be uploaded in the portal by issuing corrigendum.**
4. After opening of Financial Bid, original DD / Bankers Cheque of EMD of the unsuccessful bidders will be returned without giving any interest.
5. In case Tender value quoted by two or more agencies is equal, L-1 will be decided on the basis of credentials submitted by the bidders only. In case, L-1 cannot be decided at this stage as per the above criteria, the total contract amount of all the completed similar works done by bidders shall be considered and the bidder having highest total amount, will be considered as the L-1 for the purpose of award of work.
6. If any information furnished by the applicant is found incorrect at a later stage also, he/she shall be liable to be debarred from tendering/taking up of work in CSIR-IICB. The department reserves the right to verify the particulars furnished by the applicant independently.
7. Not more than one Tender shall be submitted by a contractor or by a firm of contractors.
8. No two or more concerns in which an individual is interested, as Proprietor and/or partner shall tender for the execution of the same works. If they do so, all such Tenders shall be liable to be rejected.

9. Tender documents consisting of plans, specifications, Schedule(s) of quantities of the various classes of work to be done as per direction of Engineer-in-charge as and when required. Considering the urgency and importance of the work as well as the site as most of the work may be done within the research laboratory may be in running condition, keeping in view of safety, necessary precaution to be taken for both the worker and sophisticated instrument in the laboratory of the Institute.
10. Submission of a Tender by a bidder implies that he/she has read this notice and all other documents and has made himself/herself aware of the scope of work, drawings and specifications of the works to be done and all conditions such as local conditions, local material rates and other factors bearing on the execution of the works.
11. The Accepting Authority reserves the right of accepting the Tender and Bidders shall be bound to perform the same at his/her quoted rates.
12. On acceptance of Tender earnest money will be treated as part of the security deposit.
13. On acceptance of the Tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated to the Engineer-in-Charge.
14. If at any stage, any information/documents submitted by the applicant is found incorrect/false or have some discrepancy which disqualifies the firm then tendering authority may take the following action:
 - a) Forfeit the entire amount of EMD submitted by the firm.
 - b) The agency shall be liable for restrained from tendering in CSIR-IICB, Kolkata, apart from any other appropriate contractual / legal action.
15. The successful bidder, on acceptance of his/her Tender by the Accepting Authority, shall require to submit Performance Bank Guarantee/FDR within 10 days from the receiving of "Letter of Acceptance" issued by the Engineer-in-charge in favor of the bidder. On submission of Performance Bank Guarantee/FDR within the time frame, the work order will be issued and within 5(five)days from the date of work order the vendor will undergo an Agreement of the contract consisting of Tender documents including Notice Inviting Tenders, Important Notes, General Condition of contract, Guidelines to be followed etc. as issued at the time of inviting the Tender and acceptance thereof with any correspondence leading there to. It should be noted that, failing submission of Performance Bank Guarantee/FDR within the stipulated time frame will lead cancellation of Tender along with forfeiture of the EMD.
16. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100/- which has to be purchased in the name of agency and the same shall be borne by the agency.

Name of Work: "Day to day civil repairing, refurbishing and maintenance work of the Institute buildings and different labs of the Institute at CSIR-IICB, 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

(a) Rates quoted by the contractor shall **include GST**, purchase tax, turnover tax, duties, octroi, toll tax, royalties and all other taxes in respect of this contract. The employer shall not entertain any claim whatsoever in this respect. 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.

(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.

4. Additional Performance Security in case of substantial low rates:

In case of quoted cost is found to be substantially lower than the workable rate as decided by the department, bidder will require to deposit additional Performance Security Deposit through DD /Pay order in addition to the amount as referred in Clause No. 17(c) of NIT to ensure proper quality of work following the specifications stipulated in the tender. This additional performance deposit will be at the rate to be decided by the CSIR-IICB tender inviting authority. They also should have to give a guarantee in the approved format towards quality assurance and as an additional performance guarantee ensuring maintaining required quality of the work as per specifications and terms and conditions of tender up to the satisfaction of the engineer of CSIR-IICB.

5. 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.

6. 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.

7. 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.

8. 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 equipment's, machinery, tools and tackles needed for the work as submitted.

9. 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.

10. 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)**.

11. Submission of Statutory Documents and Prequalification Documents

All the bidders should submit the Statutory Documents (Self attested copies of PAN, GST registration Certificates, Current Trade Licence, Professional Tax Enrolment Certificate and Current Professional Tax Challan duly signed and stamped by the bidder) and photo copies of required Work Orders and Completion Certificates as mentioned in experience criteria of NIT (duly signed and stamped by the contractor) and Original copy of Letter of Transmittal **within five days from the date of Technical bid opening to the Works and Services Section (Room No -50), CSIR-IICB, Jadavpur, Kolkata. In case of non submission, the tender may be summarily rejected.**

12. 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.

13. Arbitration

(a) In the event of any question /dispute/difference arising under the agreement or in connection herewith (except as to matters the decision of which is specially provided under this agreement) the same shall be referred to the Delhi International Arbitration Centre for appointment of Arbitrator to adjudicate the dispute.

(b) The award of the Arbitrator shall be final and binding on the parties. The Arbitrator may give interim award(s) and /or directions, as may be required.

(c) Subject to the aforesaid provision, the arbitration and conciliation act, 1996 and the rules made hereunder and any modification thereof from time to time being in force shall be deemed to apply to the Arbitration proceedings under this clause."

14. Contractor's Engineers / Foreman & Workman

The contractor shall give all necessary personals superintendence during the execution of the work and as long thereafter as the Engineer may consider necessary until the expiration of the Defects Liability Period. The contractor shall employ competent Site-Engineer/ Foreman as per CPWD norms and as approved by the Engineer whose qualification must conform to the requirement specified by the Engineer who shall be constantly in attendance of the work while the men are at work. Any directions, explanations, instructions or notices given by the Engineer to such Site-Engineer or Foreman or any other authorized agent shall be held to be given to the contractor.

The contractor shall on the request of the Engineer immediately dismiss from the works any person employed thereon who may in the opinion of the Engineer be unsuitable or incompetent or who may in the opinion of the Employer misconduct himself.

Contractor's Site Superintendence Staff to be employed by contractor on works: The contractor shall engage the following technical staffs throughout the execution of work:

One Civil Engineer either Graduate with minimum 2 years' experience or Diploma with minimum 5 years' experience. Rate at which recovery shall be made from the contractor in the event of not fulfilling for the aforesaid criteria: Rs. 15,000.00 (Fifteen thousand) per month per person.

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 (CIVIL WORKS):**During execution of work following specifications & make to be taken up by the contractor:**

- 1) Quoted rates must be valid for all floors and any height if not specified in the item(s)
- 2) The quality and design of all the structural materials, grills etc. should be as directed by Engineer-in-charge.
- 3) Moreover, prior approval should be taken from Engg.-in-charge regarding brands in case of those items where brand names are not mentioned
- 4) Any addition and/or alteration of the above brands should be considered as per direction of Eng.-in-charge before execution of that item(s)

Sl. No.	Description	Make
1	Chemical for Structural repair	FOSROC/ PIDILITE/ CHOKSEY/ SIKA or Equivalent
2	Dismantling	Dismantling partition may be any type, i.e.; Aluminium/Gypsum/Wooden etc. as directed by Engg.-in-charge.
3	Earthwork	Earthwork item includes bailing out water from the trenches
4	Cement	Ambuja 53/ Lafarge Concreto/ ACC/ Ultratech or equivalent.
5	Brick work	1st class bricks
6	Wood Work	Should be free from Knots/saps/flaws etc.
7	Flush door Shutter	Should be machine make from factory.
8	Mortice dead lock 7-lever 2 way satin type	Godrej make or Equivalent approval by Engg.-in-charge.
9	Anodizing for anodized Aluminium Work	Lika/ Apex/ Alex or Equivalent approved by Engg.-in-charge
10	Powder Coating for Aluminium Work	Mega Coat/ Apex/ Alex or Equivalent.
11	Micro-concrete	FOSROC/ PIDILITE/ SIKA/ CHOKSEY or Equivalent.
12	Aluminium Member for Aluminium Partition	2.0 to 2.5 mm thick. For door it should be 3.0mm thick
13	Aluminium for door	3.0 mm thick
14	Design of panel shutter	Approved by the Engineer-in-charge.
15	Quality and Design of Structural material, grills	Approved by the Engineer-in-charge.

Sl. No.	Description	Make
16	Prelaminated Particle board	Novapan/ Archid/ Nepal make or Equivalent.
17	Glass panes for Aluminium work	Plain/ Tinted/ Frosted/ Pin headed or equivalent.
18	Mortice lock 4-lever for Aluminium Door	Godrej make or Equivalent approved by Engg.-in-charge
19	Plaster of paris for paris work should be Siliguri make or equivalent as approved by Engg.-in-charge	Plaster of paris for paris work should be Siliguri make or equivalent as approved by Engg.-in-charge
20	White colour cement based putty	Birla/ JK or Equivalent.
21	Acrylic Smooth Exterior Paint.	Berger/ Asian Paint Make or Equivalent.
22	Corrugated Roof Sheet	TATA make or equivalent approved by Engg.-in-charge
23	Reinforcement steel & Structural Steel	Tata/ Sail/ Elegant/SRMB-500+ or equivalent.
24	Paint (Distemper, Acrylic Emulsion Paint, Synthetic Paint)	ICI/ Berger/ Asian Paints/ Nerolac or equivalent. (Distemper, acrylic emulsion paint & synthetic paint should be Berger/ICI/Asian paints make)
25	Acid Proof Paint	Berger make or equivalent approved by Engg.-in-charge
26	Primer	ICI/ Berger/ Asian Paints/ Nerolac or equivalent.
27	Glass (Plain/Tinted/Frosted/Pin Headed)	Modifloat/ Indoasahi float/ St.Gobain or equivalent
28	P.V.C pipes & fittings	Supreme Industries/ Oriplast/ Ashirbad/ Reliance or equivalent.
29	Ceramic Glazed Wall/ Floor Tiles	RAK/Johnson/Kajaria/Notco/Bell or Equivalent.
30	Vitrified Tile Flooring	RAK/ Johnson/Kajaria/Notco or Equivalent.
31	Wooden/ Timber Flooring	Greenlam Industries/ Timberland/ Royal Touche/ Square Foot/ Marcopolo/ Armstrong flooring or equivalent
32	Wood Work	For wood work, wood should be free from knots/saps/flaws etc. Frame made of Sal wood, shutter made of Century/ Green Ply, Teak veneer or equivalent
33	Venetian Blind	Mac, Vista, GAL, Marvel Vertical, Maharaja Carpets, Design & Decor or equivalent

Sl. No.	Description	Make
34	APP Work	SIKABIT or euivalent
35	False Ceiling	Armstrong or equivalent quality
36	uPVC French Window	Fenesta, ALCOI India, Veka, Encraft, Duraplast or equivalent.
37	UPVC Pipe	UPVC pipes should be Supreme/Reliance make
38	G.I. pipes	Tata or equivalent
39	G.I. fittings	HB fitting, NB fittings or equivalent.
40	Design of panel shutter	Should be approved by Engg.-in-charge
41	Gun metal valves	Leader Engineering Works, Bombay Metal Co.,Annapurna Metal Works or equivalent.

Note: The above makes are all indicative, in case the tenderer would like to use any other make, he must submit the technical literature about the capabilities of the item and get the approval from Engineer- in-charge for using the same.

The items for which no makes are specified above, only ISI marked and approved by Engineer-in-charge shall be used.

Name of Work: Day to day civil repairing, refurbishing and maintenance work of the Institute buildings and different labs of the Institute at CSIR-IICB, Kolkata.

Tender No. CSIR_IICB / Admn 26 (947) / E / 2026

PREAMBLE TO THE BILL OF QUANTITIES

- i. The bidder shall quote rates including all statutory taxes and duties including GST.
- ii. The rates and prices entered by the Contractor in the Bill of Quantities 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. and obligations imposed or implied by the Contractor
- iii. The quantities given in the Bill of Quantities 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.
- iv. **All participating firms/ bidders are requested to go through the relevant documents and to visit the work site to understand the nature & volume of the Work before submission of the tender, no extra claim will be entertained thereafter.**

BILL OF QUANTITIES

Name of Work: Day to day civil repairing, refurbishing and maintenance work of the Institute buildings and different labs of the Institute at CSIR-IICB, Kolkata.

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It. No	Description	Unit	Qty
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/c equivalent design mix)	Cum	14.00
2	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
3	Dismantling tile work/ kota stone work in floors, roofs and in skirting laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	Sqm	183.00
4	Dismantling G.I. or C.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	65.00
5	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :In cement mortar.	Cum	6.00
6	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	8.00
7	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	751.00

It. No	Description	Unit	Qty
8	Dismantling aluminium/ Gypsum 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	40.00
9	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	Cum	8.00
10	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, other floors etc., up to floor five level, excluding the cost of centering, shuttering and finishing :1:2:4 (1 Cement : 2 coarse sand derived from natural sources: 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	4.00
11	Cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), in floor including finishing complete.	Cum	8.00
12	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 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	Cum	8.00
13	Centering and shuttering including strutting, propping etc. and removal of form for :Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	20.00
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.Thermo-Mechanically Treated bars	Kg	34.00
15	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	9.00
16	Providing and fixing 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 rom 701 mm to 1000 mm),with double speed adjustment with necessary accessories and screws etc. complete.	each	30.00

It. No	Description	Unit	Qty
17	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc complete (best make of approved quality).	each	5.00
18	Providing and fixing chromium plated brass handles with necessary screws etc. complete:125 mm	each	10.00
19	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :250x10 mm	each	13.00
20	Providing and fixing ISI marked 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 vertical grains or cross bands and face veneers on both faces of shutters:35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	10.00
21	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	each	13.00
22	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	Each	8.00
23	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 (1cement : 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	137.00
24	Providing and laying vitrified floor tiles 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), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	Sqm	40.00

It. No	Description	Unit	Qty
25	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 skirting, riser of steps, 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	20.00
26	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	6.00
27	Marble work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work), backing filled with a grout of average 12mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately). Area of slab over 0.50 sqm	Sqm	80.00
28	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. black marble Area of slab upto 0.50 sqm	Sqm	20.00

It. No	Description	Unit	Qty
29	<p>Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part land laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.</p>	Sqm	42.00
30	20 mm cement plaster of mix :1:4 (1 cement: 4 coarse sand)	Sqm	751.00
31	<p>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.</p>	Sqm	784.00
32	<p>Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.</p>	Sqm	784.00

It. No	Description	Unit	Qty
33	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	1484.00
34	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.One coat	Sqm	125.00
35	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture,colour.	Sqm	125.00
36	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	Sqm	125.00
37	Applying priming coats with primer of approved brand and manufacture, having low VOC With water thinnable cement primer on wall surface having VOC content less than 50 grams/ litre	Sqm	250.00
38	Finishing walls with water proofing cement paint of required shade :Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 liters/10 sqm complete including cost of Priming coat.	Sqm	300.00
39	Finishing walls with Acrylic Smooth exterior paint of required shade :Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	Sqm	400.00
40	Lettering with black Japan paint of approved brand and manufacture.One letter 25cm height	Per letter per cm height	1000.00
41	Applying priming coat With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	30.00

It. No	Description	Unit	Qty
42	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm	30.00
43	French spirit polishing :Two or more coats on new works including a coat of wood filler	Sqm	898.00
44	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.110 mm diameter	Metre	50.00
45	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.110 mm	Nos	30.00
46	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Flexible pipe.40 mm dia	each	10.00
47	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	10.00
48	Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms	each	10.00
49	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	each	10.00

It. No	Description	Unit	Qty
50	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	each	10.00
51	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	each	10.00
52	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	6.00
53	Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required :White glazed fire clay draining board of size 600x450x 25 mm	each	6.00
54	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :White solid plastic seat with lid	each	8.00
55	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid	each	8.00
56	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.15 mm nominal dia Pipes	Metre	8.00

It. No	Description	Unit	Qty
57	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.20 mm nominal dia Pipes	Metre	8.00
58	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.40 mm nominal dia Pipes	Metre	8.00
59	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.50 mm nominal dia Pipes	Metre	8.00
60	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-(a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	Each	2.00
61	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall.15 mm dia nominal bore	Metre	8.00
62	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall.25 mm dia nominal bore	Metre	8.00
63	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall.40 mm dia nominal bore	Metre	8.00
64	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall.50 mm dia nominal bore	Each	8.00
65	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	8.00
66	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :50mm nominal Bore	Metre	8.00

It. No	Description	Unit	Qty
67	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :15 mm nominal bore	each	6.00
68	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :20 mm nominal bore	each	6.00
69	Providing and fixing uplasticised PVC connection pipe with brass unions :30 cm length:15 mm nominal bore	each	4.00
70	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :15 mm nominal bore	each	6.00
71	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :20 mm nominal bore	each	6.00
72	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore	each	8.00
73	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	6.00
74	Providing and fixing PTMT swivelling shower, 15mm nominal bore. Weighing not less than 40gms	each	6.00
75	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	8.00
76	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 : 25mm dia nomonal bore	Metre	8.00
77	Providing & fixing G.I pipes complete with G.I fittings and clamps, including cutting and making good the walls etc. 40mm dia nomonal bore	Metre	8.00
78	Providing & fixing G.I pipes complete with G.I fittings and clamps, including cutting and making good the walls etc. 50mm dia nomonal bore	Metre	8.00
79	Providing and fixing 15mm dia nominal bore 3 way swan neck tap	each	5.00
80	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	each	10.00
81	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality. EHD - 35, Circular shape 560 mm internal dia	each	8.00

It. No	Description	Unit	Qty
82	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) :For fixed portion.Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	502.00
83	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) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15):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).	Kg	206.00
84	Providing and fixing 12mm 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.Pre-laminated particle board with decorative lamination on both sides.Pre-laminated particle board with decorative lamination on both sides.	Sqm	14.00
85	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	8.00

It. No	Description	Unit	Qty
86	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	30.00
87	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 upto 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
88	Supplying & laying of approved make and brand of scratch proof, flexible & homogeneous P.V.C. Vinyl flooring conforming to IS:3462 - 1982 in required finish, fixed with synthetic acrylic adhesive after preparing the floor, levelling & smothering when necessary with suitable putty, as per the design & instruction of the Engineer-in-charge.(i) 2 mm thick (Plain)	Sqm	41.00
89	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	each	80.00
90	Cleaning of choked sewer line by manual means by bakhari/ metal wires fixed with Gunny bags at one side etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by flowing water manually by big buckets for sewer line from 150mm dia upto 300mm	Metre	80.00
91	Taking out Aluminium Door and Refixing after realignment including changing of gasket, taper clip and angle all complete as directed by Engineer-in-Charge.	sqm	21.00
92	Cleaning and removing silts from urinal waste Pipe attached to bottle trap/ Surface drain/ Inspection pit of different dia by Mathor Labour all complete as directed by Engineer-in-Charge.	Meter	50.00
93	Cleaning and removing sediments from Bottle Trap, S/P trap etc. by Mathor labour. all complete as directed by Engineer-in-Charge.	each	50.00

It. No	Description	Unit	Qty
94	Providing and fixing CP Brass 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes. Weighing not less than 200 gms as directed by Engineer-in-Charge.	each	20.00
95	Supply of labour for maintenance work and shifting work at CSIR-IICB TRUE, Saltlake and Jadavpur Campus, Kolkata. Unskilled Labour	each	10.00
96	Supply of labour for maintenance work and shifting work at CSIR-IICB TRUE, Saltlake and Jadavpur Campus, Kolkata. Semi skilled Labour	each	10.00
97	Supply of labour for maintenance work and shifting work at CSIR-IICB TRUE, Saltlake and Jadavpur Campus, Kolkata. Skilled Labour	each	10.00
98	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40 mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, 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.	Sqm	100.00
99	Providing and fixing vertical venetian blind of approved make (Mac/Vista)	Sqm	39.00
100	Supplying and laying Polythene Sheet (150gm / sq.m.) over All furniture and instrument at CSIR-IICB, Salt lake Campus and Jadvpur Campus, Kolkata.	Sqm	50.00
101	Disposal of building Garbage/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	30.00
102	Easing and oiling, cleaning collapsible gate and repairing to locking arrangements.	Sqm	8.00
103	Labour for taking out rolling shutter (only shutter portion) dismantling by parts for repair or (replacement of damaged parts only), rehangng and refitting the same in position after necessary repairs (excluding the cost of supply of new parts).	Sqm	80.00

It. No	Description	Unit	Qty
104	Oiling and greasing of rolling shutter and repair to in side lock.	Sqm	80.00
105	Renewing profile of rolling shutter including fitting fixing complete as per existing size and shape.	Metre	27.00
106	Renewing spring of rolling shutter as per existing size and shape including fitting fixing complete	Each	10.00
107	Pumping out water from ponds or tanks (payment if permitted will be made on the quantity of water calculated on the basis of initial water level and final level on consideration being made for any water that may have been made for any water that may have been added through percolation or otherwise)	Cum	577.00
108	Extra over the corresponding item of earth work for removing semi liquid mud or slushy earth by iron pans, buckets etc.(This item is to be done with approval of Engineer-in-charge)	Cum	332.00
109	Removing scum form the bottom floor of service U.G.W.R. washing the floor thoroughly and treating the same with liberal sprinkling of bleaching powder (including cost of bleaching power)	Sqm	1313.00
110	Supplying, fitting, Fixing Fly / Mosquito proof nylon net on any type of window, door shutter frame with necessary fixing arrangements complete.	Sqm	19.00
111	Supplying Weather Silicone sealant of approved make and brand for fixing of grove line between the Glasses as per direction of Engineer-in-charge. for Structural Glazing/Curtain wall. Weather Silicone sealant for filling the Grove line between Glasses or any other material for facial work	Metre	1481.00
112	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	Cum	10.00

It. No	Description	Unit	Qty
113	Providing and fixing white vitreous wall hanging water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :Wall hanging W.C. pan with ISI marked white solid plastic seat and lid (Hindware / Parryware)	Each	2.00
114	Providing and Fixing of Watch Your Step Anti Skid/AntiSlip Tape (50 mm width) Fall Resistant with PET Material and Solvent Acrylic Adhesive Tape for Slippery Floors, Staircase, Ramps, Indoor, Outdoor Use all complete as directed by Engineer in Charge at CSIR-IICB, Jadavpur and Saltlake Campus, Kolkata.	Meter	1500.00
115	Providing and fixing Heavy quality Godrej make Brass 200 mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	3.00
116	Providing and fixing 12 mm thick frameless toughened glass door shutter (Including polishing and moulding) of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fitting, decorative CP Brass Door Handle of size 450 mm height, CP brass door stopper, lock, opaque white colour film etc included all complete as per direction of Engineer in Charge.	Sqm	15.10

PROFORMA OF ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT MADE AT _____ this _____ day of _____
 BETWEEN the Council of Scientific & Industrial Research, New Delhi, a society registered under the Societies Registrations Act 1860 (Hereinafter referred to as the Employer, which expression shall include its successor and assignees and authorised officers of the Society) of the one part and _____ trading in the name and style of _____ (herein after referred to as the contractor(s) which expression shall include his/ their respective heirs, executors, administrators and permitted assignees) of the other part.

WHEREAS the Employers is desirous of getting the work ofdone and has caused drawings, schedule of Quantities and Specifications describing the work to be prepared.

AND Whereas the said specifications and the schedule of quantities and other documents have been signed by on behalf of the parties.

Now it is hereby agreed and declared by and between the parties hereto as follows:

1. In consideration of the payments to be made to them as hereinafter provided the Contractor shall upon and subject to the conditions hereinafter contained executed and complete, the work at the rates specified in the attached schedule of quantities and with such materials as are provided for and in accordance in all respect with specifications, designs, drawings and instructions in writing. Time for carrying out the work will be.....and the date of commencement be reckoned from the **tenth day** of issue of award letter.
2. The Employer shall pay to the Contractors such sum as shall become payable hereunder at the items and in the manner specified in the said conditions.
3. This agreement contains the following documents in addition to pages of Articles of Agreement.
 - (i) General Conditions of Contract Page No _____ to _____.
 - (ii) Special Conditions Page No _____ to _____.
 - (iii) Additional Conditions Page No _____ to _____.
 - (iv) Indenture for Secured Advance Page No _____ to _____.
 - (v) Original tender document along with the covering letter of the firm dated Page No: 1 to _____.
 - (vi) _____.
 - (vii) _____.
 - (viii) _____.

In witness whereof the parties hereto have set their respective hands the day and year in above written.

Signed by, for and on behalf of Employers _____

In the presence of

(1) _____ (2) _____.

Signed by the said contractor

In the presence of

(1) _____ (2) _____.

GENERAL CONDITION OF CONTRACT

1. Interpretation

- (a) In construing these conditions, the Specifications, the Schedule of Quantities, Tender, Special Conditions and Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise requires.
- (b) This contract shall comprise of the Articles of Agreement, General Conditions of Contract, Special Conditions. Additional Special Conditions, the Schedule of Quantities, Specifications, letter of acceptance of tender and other documents mentioned in the contents sheet attached hereto and including those to which only reference is made herein.

Work or Works: Shall mean all work or works defined in schedule of quantities, specification and such other work or works as the contractor may be entrusted with for carrying out under this contract.

Engineer: Shall mean the Engineer designated by the Employer 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 successors of such Firm or Company and the permitted assignees of such individual or Firm or Firms or Company.

Site: Shall mean the site of the contract works including any buildings and erections thereon and any other land adjoining thereto (inclusive) as aforesaid allotted by the Employer or the Engineer for the contractor's use.

Compensation: Shall mean all sums payable by way of compensation under any of the conditions shall be considered as reasonable compensation without reference to the actual loss or damage sustained and whether or not any damage sustained, and whether or not any damage shall have been sustained. Words imputing persons include firms and corporation; Words imputing the singular only also include the plural and vice versa where the context so required.

The headings are given to the clauses for convenience and they will not limit the meaning or scope of the clauses in any way.

2. Drawings and Specifications

The Contractor shall execute whole and every part of the work in the most substantial and workmanlike manner both as regards material and otherwise in every respect in accordance with the specifications. The contractor shall also confirm exactly and faithfully to the design, drawings and instructions given in the respect of the work by the Engineer. The contractor shall be furnished free of charge one- copy of such specifications and all such designs, drawings and instructions as are not included in the printed publications.

3. Contractor to Provide Everything Necessary

- (a) The contractor shall provide at his own cost all materials (except such materials, if any as may in accordance with the contract be supplied by the Employer) plants, tools, appliances, implements, ladders, scaffolding, temporary works, etc. requisite or 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 Engineer, 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 or materials. Failing his so doing, the same may be provided by the Engineer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract and or from his Security Deposit.
- (b) 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 Employer, the contractor shall pay for the water at one percent of the total cost of the work done except on Electrical Work, Air-conditioning work and Furniture work. The contractor shall make own arrangement for water connection and laying of further pipelines from the source of supply of the Employer. 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 breakdown 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 breakdowns. However, if the contractor is permitted to make his own arrangement to draw water from a well, hand-pump, or natural river or pond of the Employer, no charges will be made for the water drawn from the same, but the contractor will make good any damage done to the installations and ensure that the quality of water used in the work is conforming to BIS codes and provide for any treatment at his own cost.
- (c) The contractor shall be allowed to construct temporary wells in Employer's land for taking water for construction purpose only after he/she has permission of the Employer in writing. No charges shall be recovered from the contractor on this account but the contractor shall be required to provide necessary safety arrangement to avoid any accident or damage to adjacent buildings, roads and service lines. He/she shall be responsible for any accident or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.

- (d) The Employer on no account shall be responsible for the expenses incurred by the contractor for hired ground water obtained from elsewhere.
- (e) Subject to availability the Employer 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/her own cost. These shall be in the custody of the Employer. If there is any hindrance caused to other works the contractor shall reroute or remove such temporary lines without any extra cost. Such temporary lines shall be removed after the completion of work. The cost of power consumed by the contractor shall be payable to the employer at rates fixed by the Employer, which would be deducted from the running account bills. However, the Employer does not guarantee the supply of power and no compensation for any failure or short supply of power shall be entertained.

4. Authorities, Notice & Patents

- (a) The contractor shall confirm to any regulations and bye-laws of any corporation and of any electricity supply company and authorities with whose systems the structure is proposed to be connected, and shall before making any variations from the drawing and specifications that may be necessitated for so conforming by giving written notice to the Engineer specifying the variations proposed to be made, the reasons for making it and apply for instructions thereon. If the compliance with this clause involves any extra work not included in this contract, he shall specify these items of work and the allowance of extra payment required on their account.
- (b) The contractor shall give all notices required by the said regulations or bye-laws to be given to any Authority and pay to such Authority or to any public office all fees that may be chargeable in respect of the works and lodge the receipts with the bill to the Engineer for reimbursement.

5. Rates to include all Taxes

- (a) Rates quoted by the contractor shall include GST, duties, Octroi, Freight, toll tax, realties and all other taxes in respect of this contract and the Employer shall not entertain any claim whatsoever in this respect. Tendered rates are inclusive of all taxes 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 Statutes, after the date of receipt of tenders and the contractor there upon 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 execution of work within the control of the contractor.
- (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 tax 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.

6. Materials

- (a) If the specifications of schedule of items provide for the use of any material to be supplied by the Employer's stores or if it is required that the contractor shall use certain stores to be provided by the Employer as shown in the schedule of materials hereto annexed, the contractor shall be bound to procure and shall be supplied such materials and stores as are from time to time required to be used by him/her for the purpose of the contract only and value of the materials so supplied at the rates specified in the said schedule of materials and of the quantities incorporated in the work may be set off or deducted from any sums then due, or thereafter to become due to contractor under the contract or otherwise or against or from the Security deposit. All materials so supplied to the contractor by the Employer shall remain the absolute property of the Employer and the contractor shall be the trustee of the materials so supplied procured and the said materials shall not be removed/disposed of from the site of the work on any account and shall be at all times open for inspection by the Engineer or Employer. The contractor shall bear all incidental charges for cartage, storage and safe custody of all materials and against damage due to 'dampness, rain, sun, fires and theft and be fully responsible for their storage and maintenance. Any such material unused and in perfectly good condition in the opinion of the Employer at the time of the completion of work or termination of the contract or earlier shall be returned to the Employer at a place directed by the Engineer at contractor's cost and at rates stipulated in the said schedule but in case the Employer decides not to take back the materials the contractor shall have no claim for compensation on account of any such materials supplied to him/her as aforesaid being unused by him or for any wastage or damage to any such materials.
- (b) If for any reason there is delay or non-supply of material as shown in the schedule, the contractor shall procure the same and complete the work in time after due intimation and approval of the Employer. The difference in price (between his procurement price and price shown in the schedule) shall be paid to the contractor. However, in case approval of the Employer is not given, only suitable extension of time would be considered and no other claim of compensation/damages shall be payable by the Employer.
- (c) After completion of the work or on determination/ termination of the contract, the theoretical quantity of cement to be used in work shall be calculated on the basis of statement showing quantity of cement to be used in different items of work provided in current Schedule for the purpose printed by CPWD. In case any item is executed for which the standard constants for the consumption of cement are not available in the above mentioned statement or cannot be derived from this statement, the same shall be calculated on the basis of standard formula to be laid down by the Engineer. Over this theoretical quantity of cement shall be allowed a variation up to 3% plus/minus for works

estimated cost of which as put to tender is not more than Rs.10 lakhs and up to 2% plus/ minus for works estimated cost of which as put to tender is more than Rs. 10 lakhs. The difference in the quantity actually issued to the contractor and the theoretical quantity including authorized variation if not returned by the contractor, shall be recovered at twice the issue rate, without prejudice to the provision of other conditions regarding return of material governing the contract. In the event of its being discovered that the quantity of cement which is less than the quantity ascertained as herein before provided (allowing variation on minus side as stipulated above) the cost of quantity of cement not so used, shall be recovered from the contractor on the basis of stipulated issue rates and cartage to site.

- (d) The provisions of foregoing sub-clause shall apply Mutatis-Mutandis in the case of steel reinforcement or structural steel sections (each diameter/ section or category shall be considered separately) except that the theoretical quantity of the steel shall be taken as the quantity required as per design or as authorized by the Engineer, including lappages, plus 3% wastage due to cutting into pieces. Over this theoretical quantity 2% plus/ minus shall be allowed as variation due to wastage.
- (e) The provision of foregoing sub-clause shall apply Mutatis-Mutandis in the case of cables; (other than under-ground cables) wires, conduits/ GI pipes, GI/ MS sheets used in various items of work shall be calculated on the basis of measurements recorded in the measurement books for the purpose of payment and for assessing the Consumption of materials used in the works. Over this quantity a variation of 5% plus shall be allowed for wastage of materials during execution in case of cables (other than under-ground cables), wires, conduits /GI pipes, and 10% plus in case of GI/ MS Sheets.
- (f) The provisions made above are without prejudice to the right of the Employer to take action against the contractor under the conditions of the contract for not doing the work according to the prescribed specifications.

7. Testing of Materials

The contractor shall provide assistance, instruments, materials, labour and any other arrangement normally required for testing, checking of materials and workmanship as stipulated in the specifications and by statutory authority at his own cost. The Employer has the right to appoint the testing authorities. The contractor shall pay for the cost of test samples, its packing, transportation including testing fees. Failings his so doing, the same shall be provided by the Engineer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract and/ or from the Security Deposit or proceeds thereof or of a sufficient portion thereof.

8. Contractor's Engineers / Foreman & Workman

- (a) The contractor shall give all necessary personals superintendence during the execution of the work and as long thereafter as the Engineer may consider necessary until the expiration of the Defects Liability Period. The contractor shall employ competent Site-Engineer/ Foreman as per CPWD norms and as approved by the Engineer whose qualification must conform to the requirement specified by the Engineer who shall be constantly in attendance of the work while the men are at work. Any directions, explanations, instructions or notices given by the Engineer to such Site-Engineer or Foreman or any other authorized agent shall be held to be given to the contractor.
- (b) The contractor shall on the request of the Engineer immediately dismiss from the works any person employed thereon who may in the opinion of the Engineer be unsuitable or incompetent or who may in the opinion of the Employer misconduct himself.
- (c) Contractor's Site Superintendence Staff to be employed by contractor on works: The contractor shall engage the following technical staffs throughout the execution of work:

One Civil Engineer either Graduate with minimum 2 years' experience or Diploma with minimum 5 years' experience.

Rate at which recovery shall be made from the contractor in the event of not fulfilling for the aforesaid criteria: Rs. 15,000.00 (Fifteen thousand) per month per person.

9. Access

- (a) The Engineer, and the Employer or its representatives shall at all reasonable time have free access to the works and/or workshops, factories or other places the materials are being prepared or constructed for the contract and also to any place where the materials are lying or from which they are being obtained and the contractor shall give every facility to them for inspection. Except the representatives of statutory authorities and those mentioned above no other person shall be allowed on the works at any time without the permission of the Engineer.
- (b) If any work is to be done at a place other than the site of works, contractor shall obtain written permission of the Engineer.

10. Variation & Price for Variation

- (a) The Engineer with the approval of the Employer shall have powers to make any alterations/ omissions/ additions and/ or substitutions from the original specifications, drawings, designs and written instructions and such alterations, omissions, additions, substitutions shall not invalidate the contract and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work. The rates for such altered, additional or substituted work under this clause shall be worked out in accordance with the following provisions in their respective order.

- (b) If the rates for the altered, additional, or substituted work are specified in the contract for the work, the contractor is bound to carry out the altered, additional, or substituted work at the same rates as are specified in the contract for the work.
- (c) If the rates for the altered, additional, or substituted work are specifically provided in the contract for the work, the rates will be derived from the rates or a similar class of work as is specified in the contract for the work.
- (d) If the rates for the altered, additional, or substituted work cannot be determined in the manner specified in sub-clause (b) and (c) above, then the contractor shall, with 10 working days from the date of receipt of the order to carry out the work through notice in writing; inform the Engineer of the rate which it is his intention to charge for such class of work, supported by analysis of the rate claimed which shall be based on actual cost of work plus 10% as contractor's profit and overheads except in case of departmental materials for which contractors profit and over-heads shall be 2.5%. When such notice has been given, the Engineer with the consent of the Employer may agree to such a rate but if the Engineer does not agree to the contractor's rate the Engineer may cancel his order to carry out such class of work and arrange to carry out in such a manner as he may consider advisable.
- (e) Under no circumstances, the contractor shall suspend the work on the plea of non-settlement of rates of items falling under the clause.

11. Faulty Materials, Workmanship & Defects After Completion

- (a) The Engineer shall have powers to require the removal from the site of all materials and work which in his opinion are not in accordance with specifications and in case of default, the Engineers 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 costs which may attend such removal and / or substitution are to be borne by the contractor.
- (b) If it shall appear to the Engineer or / to the Employer based on audit / technical examination that any work has been executed with unsound, imperfect, or unskillful workmanship or with materials of any inferior description, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract, any defects, shrinkage or other faults which may appear within the defects liability period of 12 months from the date of completion arising in the opinion of the Engineer, the contractor shall on demand in writing which shall be made within 12 months of the completion of the work from the Engineer specifying the work, materials, articles defects or other faults complained of notwithstanding that the same may have been passed, certified and paid for, forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may requires or as the case may be, remove the materials or articles so specified and provide other proper and suitable

materials or articles at his own cost. In case of any such failures, the Engineers may rectify or remove or re-execute the work or remove and replace with others, the material or articles complained of as the case may be at the risk and cost in all respects of the contractor.

- (c) In lieu of rectifying the work not done in accordance with the contract, the Employer may, allow such work to remain, and in that case make allowance for the difference in value, together with such further reduction as in his opinion may be reasonable.
- (d) Provided always that nothing in this clause shall relieve the contractor from his liability to execute the works in all respects in accordance with the terms and conditions of this contract, or from his liability to make good all defects.

12. Works to Be Open for Inspection

- (a) All work under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer and the contractor shall at all times, during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer to visit the works shall have been given to the contractor, either himself be present to receive order and instruction or have a responsible agent duly accredited in writing present for that purpose.
- (b) The contractor shall give not less than seven days' notice in writing to the Engineer before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is so covered up or placed beyond the reach of measurement and shall not cover up and place beyond the reach of measurement, any work without the consent in writing of the Engineer and the Engineer shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurement without such notice having been given or the Engineer's consent obtained the same shall be uncovered at the contractors expense or in default thereof. No payment or allowance shall be made for such work or the materials with which the same was executed.

13. Assignment or Sub-Letting

- (a) The contract shall not be assigned or sublet without the written approval of the Employer. And if the contractor shall assign or sub-let his contract or attempt to do so or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so or if any bribe, gratuity or gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor or any of his servants or agents to any person in the employment of the Employer in any way relating to his office or employment, or if any such employee or person shall become in any way directly or indirectly interested in the contract, the Employer shall have the power to adopt any of the courses specified under clause-24 as may be best suited to the interest of the Employer and in the event of any of the courses being adopted the consequences specified in the said clause shall ensure.

- (b) Where the contractor is a partnership firm, the approval in writing of the Employer shall be obtained before any changes in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained the contractor enters into any partnership agreement hereunder the partnership firm would have the right to carry out the work hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned or sublet in contravention of clause 13 (a) and the same action may be taken and the same consequences shall ensue as provided in the said clause 13 (a).

14. Indemnifying Against Damages to Persons, Property & Statutes

The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of work.

- (a) The contractor shall be responsible for all injury to persons, animals or things, and for all damage, whether such injury or damage arises from carelessness or accident in any way connected therewith. This clause shall be held to include inter alia any damage due to causes as aforesaid to work, building (whether immediately adjacent or otherwise) and to roads, streets, foot paths, bridges or ways as well as all damage caused to the buildings and works forming the subject of this contract by inclemency of weather. The contractor indemnifies the Employer and holds him harmless in respect of all expenses arising from such injury or damages as aforesaid and also in respect of any award of compensation or damage consequent upon such claim including legal costs.
- (b) The contractor shall reinstate all damage of every sort mentioned in this clause, so as to deliver the whole of the contracted works complete and perfect in every respect and so as to make good and otherwise satisfy all claims for damage as aforesaid to the property of third parties.
- (c) The contractor also indemnifies the Employer against all claims which may be made upon the Employer for acts during the currency of this contract by any employee or representative of an employee of the contractor or any sub-contractors, employed by him, for any injury to or loss of life, of such employees, or for compensation payable under any law for the time being in force to any workmen or to the representative of any deceased or incapacitated workmen.
- (d) The contractor also indemnifies the Employer against all claims which may be made upon the Employer for acts during the currency of this contract by the Central/ State Government or local Municipal authorities for the noncompliance of any laws, regulations, rules pertaining to wages act, in force and any amendments thereof in respect of all labour and apprentices directly or indirectly employed in the work under this contract.

- (e) The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages, compensation costs, charges and/ or expenses arising or accruing from or in respect of any such claim and/ or damages as aforesaid from any sum or sums due or to become due to the contractor or security deposit.
- (f) The contractor shall indemnify the employer against any action, claim or proceedings relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against the Employer in respect of any such matters as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from. Provided that the contractor shall not be liable to indemnify the Employer if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the said Employer or his authorized representative.

15. Lien in Respect of Claim in Other Contracts

- (a) Any sum of money due and payable to the contractor including the security deposit under the contract may be withheld or retained by way of lien by the Employer or Government or any other contracting person or persons against any claim of the Employer or Government or such other persons in respect of payment of sum of money arising out of or under any other contract made by the contractor with the Employer or Government or with such other persons.
- (b) It is agreed term of the contract that the sum of money so withheld or retained under this clause by the Employer will be kept withheld or retained as such by the Employer or till his claim arising out of in the same contract or any other contract is either mutually settled or determined by the Arbitrator if the contract is governed by arbitration clause or by the competent court as the case may be, and that the contractor shall have no claim for interest or damages whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

16. Withholding & Lien in Respect of Sums Claimed

- (a) Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the contractor, the Employer shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security deposit if any deposited by the contractor and for the purpose aforesaid, the Employer shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security deposit being insufficient to cover the claimed amount or amounts or if no security deposit has been taken from the contractor, the Employer shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which at any time thereafter may become payable to the contractor under the same or any other contract, with the, Employer or any contracting person pending finalization or adjudication of any such claim.

It is an agreed terms of the contract that the sum of money so withheld or retained under the lien referred above, will be kept withheld or retained as such by the Employer till the claim arising out of or under the contract is determined by the Arbitrator (if the contract is governed by the arbitration clause) or by the competent court as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company the Employer shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum payable to any Partner/ Limited company as the case may be, whether in his individual capacity or otherwise.

- (b) The Employer shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been over paid in respect of any work done by the contractor under the contract or any work claimed by him to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over payment and it shall be lawful for the Employer to recover the same from him in the manner prescribed in sub-clause (a) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under-payment shall be duly paid by the Employer to the contractor.

Provided that the Employer shall not be entitled to recover any sum over-paid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Employer on the one hand, and the contractor on the other hand under any term of contract permitting payment for work after assessment by the Employer.

17. In-Case of Death of Contractor

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Employer shall have the option of terminating the contract without compensation to the contractor.

18. Sub-Contractors

The Employer reserves the right to use the premises and any portion of the site for the execution of any work not included in the contract. The contractor is to afford all reasonable facilities to all sub-contractor, specialists, merchants, tradesmen and others who may at any time be appointed by the Employer for executing any work or supplying any goods relating to the construction, servicing, equipping or furnishing of the work under this contract.

19. Compliance to Labour Laws & Apprentice Act

The contractor shall comply with the provisions of the Minimum Wages Act, 1948, Contract Labour (Regulation and Abolition) Act, 1970, and rules and orders framed there under and other labour laws affecting contract labour and Apprentice Act, 1961 and the rules and orders framed there under that may be in force or brought into force from time to time.

20. Compensation for Delay

- (a) The time for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall be deemed to be the essence for the contract on the part of the contractor. The work shall throughout the stipulated period of the contract be proceeded with all due diligence and the 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 amount of the whole work as shown in the agreement, for every week that the work remains uncommenced or unfinished after the proper dates.
- (b) And further to ensure good progress during the execution of the work, the contractor shall be bound in all cases in which the time allowed for any work exceeds one month (say for special jobs) to complete one-eighth of the whole of the work before one-fourth of the whole time allowed under the contract has elapsed: three-eighths of the work before one-half of such time has elapsed, and three-fourths of the work before three-fourths of such time has elapsed. However, for special jobs if a time schedule has been submitted by the contractor and the same has been accepted by the Employer, the contractor shall comply with the said time schedule. In the event of the contractor failing to comply with this condition, he shall be liable to pay as compensation an amount equal to one per cent or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the said cost of the work for every week that the due quantity of work remains incomplete. Provided that the entire compensation to be paid under the provisions of this clause shall not exceed ten percent on the cost of the work as shown in the agreement.

21. Damage to Workers in Consequence of Hostilities or War-Like Operation

- (a) The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and others things connected therewith shall be at the risk of the contractor until the work has been delivered to the Employer and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or war-like operations, the contractor shall, when ordered in writing by the Employer, remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site debris, stacking, removal of serviceable materials and for the reconstruction of all works ordered by the Employer such payment being addition to compensation up to the value of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for the compensation shall be assessed by the employer, the contractor shall be paid for the damage/ destruction suffered and for restoring the material at the rates based on the analysis of rates tendered for in accordance with the provision of this agreement. The certificate of the Employer regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on the contractor.

- (b) Provided always that no compensation shall be payable for any loss in consequence of hostilities or war-like operations (i) unless the contractor has taken all such precautions against Air Raid as are deemed necessary by the A. R. P. Officers or the Employer, (ii) for any materials etc., not on the site of the work or for any tools and plant, machinery, scaffolding, temporary buildings and other things not intended for the work.
- (c) In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Employer.

22. Extension of Time

- (a) If the contractor shall desire an 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 Employer within thirty days of the date of hindrance on account of which he desires extension-as aforesaid, and the Employer shall, if 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.
- (b) 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 increased value of work.

23. Suspension of Work by Contractor

- (a) The Employer may without prejudice to his right against the contractor in respect of any delay or inferior workmanship or otherwise or to any claims for damages in respect of any breaches of the contract and without prejudice to any rights or remedies under any of the provisions of this contract or otherwise and whether the date for completion has or has not elapsed by notice absolutely determine the contract in any of the following cases:
 - i. If the contractor having been given by the Engineer a notice to rectify, reconstruct or replace any defective work or that the work is being performed in any inefficient' or otherwise improper or unworkman-like manner shall omit to comply with the requirements of such notice for a period of seven days thereafter or if the contractor shall delay or suspend the execution of the work so that in the judgment of the Employer (which shall be final and bindings) he will be unable to ensure completion of the work by the date for completion or he has already failed to complete the work by that date.
 - ii. If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court of creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.
 - iii. If the contractor commits breach of any of the terms and conditions of this contract.
 - iv. If the contractor commits any acts mentioned in clause-13 hereof.

- (b) When the contractor has made himself liable for action under any of the cases aforesaid, the Employer shall have the following powers:
- i. To determine or rescind the contract as aforesaid (of which termination or rescission notice in writing to the contractor under the hand of the Employer shall be conclusive evidence). Upon such determination or recession, the security deposit of the contractor shall be liable to be forfeited and shall be absolutely at the disposal of the Employer.
 - ii. The Engineer may employ labour paid by the Employer and to supply materials to carry out the work or any part of the work debiting the contractor with the cost of the labour and the price of the materials (of the amount of which cost and price certified by the Engineer shall be final and conclusive against the contractor) and crediting him with the value of the work done in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Engineer as to the value of the work done shall be final and conclusive against the contractor, provided always that action under the sub- clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the Employer are less than amount payable to the contractor at his agreement rates, the difference should not be paid to the contractor.
 - iii. After giving notice to the contractor to measure up the work of the contractor and to take such part thereof as shall be unexecuted out of his hands and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor if the whole work had been executed by him (of the amount of which exceed the certificate in writing of the Engineer shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by the Employer under this contract or any other account whatsoever or from his security deposit.
 - iv. In the event anyone or more of the above courses being adopted by the Employer the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagement or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provisions aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

24. Secured Advance

The contractor on signing an indenture in the form specified by the Employer during the progress of the execution of the work may be paid if agreed by the Employer up to 75 percent of the estimated value which shall take into account the market value and contractor's tendered rates for the finished item of any material which in the opinion of the Engineer is likely to be incorporated in the work within next three months, are non-perishable and are in accordance with the contract and which have been brought on the site in connection

therewith and are adequately stored and protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this clause are incorporated in the work the amount of such advance shall be deducted from the next payment made under any of the clause of clauses of this contract.

25. Certificates & Payments

- (a) No payments shall be made for a work estimated cost Rupees ten thousand or less till the whole of the work shall have been completed and certificate of completion given. But in the case of a work estimated to cost more than Rupees ten thousand, the contractor shall, on submitting the bill entitled to receive a monthly payment proportionate to the part of the work executed and to the satisfaction of the Engineer, whose certificate of the sum so payable shall be final and conclusive against the contractor, provided the amount of work done is as per the value of intermediate certificate or for a lesser amount at the discretion of the Engineer as mentioned in the NIT. All such intermediate payments shall be regarded as payments by way of advance against the/ final payment only and not as payments for work actually done and completed and shall not preclude the requiring of bad, unsound, imperfect or unskilled work to be removed and taken away and reconstructed, or recreated or be considered as an admission of the due performance of the contract, or any part thereof in any respect or the accruing of any claim nor shall it conclude, determine, or affect in any way the powers of the Employer under these conditions or any of them as to the final settlement and adjustment of the accounts or in any other way vary the effect of the contract. The final bill shall be submitted by the contractor within two months of the date fixed for the completion of work or of the date of the certificate of completion furnished by the Employer and payments shall be made within three months if the value of the completed works is up to Rupees Two lakhs and in six months if the same exceeds Rupees Two lakhs of the submission of such bill. If there shall be any dispute about any item or items of the work then the undisputed item or items only shall be paid within the said period of three months or six months as the case may be.
- (b) Whenever there is likely to be delay in recording detailed measurements for making a running payment, advance payment without detailed measurements for work done worked out at 75 percent of the tendered rates for assessed quantities may be made in running account bills by the Employer on the basis of a certificate from the Engineer. The advance payments so allowed shall be adjusted in the subsequent running bills by taking detailed measurements thereof. Final payments shall be made only on the basis of detailed measurements.
- (c) A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer on printed forms obtainable from the Engineer's office. The Engineer shall take or cause to be taken the requisite measurements for the purpose of having the same verified and the claim, as far as admissible, adjusted as far as possible, before the expiry of ten days from the presentation of the bills. If the contractor does not submit the bill within the time fixed as aforesaid the Engineer may take action within seven days of the date fixed as aforesaid, an authorized representative to measure up the said work in the presence of the contractor whose signature to the measurement will be sufficient warrant and the Engineer may prepare the bill from such measurements.

- (d) Before taking any measurement of any work the Engineer or his authorized representative deputed by him shall give reasonable notice to the contractors. If the contractor fails to attend after such notice or fails to sign or to record the difference within a week from the date of measurement in the manner required by the Engineer then in any such event the measurements taken by the Engineer or by the authorized representative deputed by him as the case may be, shall be final and binding on the contractor and the contractor shall have no right to dispute the same.
- (e) The charges in the bills shall always be entered at the rates specified in the agreement or in the case of any extra work ordered in pursuance of these conditions and not mentioned or provided for in the agreement at the rate determined as per-clause-11. However, in case of partially executed items of work, the Employer at his discretion allows proportionate rates for such items of work as determined by the Engineer whose certificate of the sum so payable shall be final and conclusive against the contractor.

26. Security Deposit

- (a) 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 the 5% tender value of the work. 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 issued to him.
- (b) In case a fixed deposit receipt of any scheduled bank is furnished by the contractor to the Employer as part of the Security deposit and the bank goes into liquidation or for any reason is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Employer to make good the deficit of such sum from the running bill as mentioned above. Such deductions will be held by the Employer by way of security deposit, provided always that the Employer for this purpose shall be entitled to recover the said percentage of the amount from each running bill till the balance of the amount of security deposits is realized. All compensation or the other sums of money payable by the contractor under the terms of this contract may be deducted from the security deposit or from the interest arising there from or from any sums which may be due to or may become due to the contractor by the Employer on any account whatsoever and in the event of his security deposit being reduced by reason of any such deductions aforesaid, the contractor shall within ten days make good in cash or further fixed deposit receipt pledged in favour of the Employer. The security deposit shall be collected from the running bills of the contractor at the rates mentioned above.
- (c) The contractor if he so desires may furnish fixed deposit receipt in advance towards the security deposit. Such fixed deposit receipt shall be of a minimum value of Rs.25,000/- each. (The last such fixed deposit receipt could be of a lower value on the basis of the amount) In case any recovery is effected from running account bills, such recovered amount shall not be replaced with fixed deposit receipt. It is in the contractor's interest to keep a watch about the adequacy of the fixed deposit receipt submitted.

- (d) No partial refund of security deposit shall be made during the defect liability period. In case the final bill is not settled within stipulated period for reasons beyond control and the Employer is satisfied that the security deposit is not required for adjustment of Employer dues or whatsoever dues either in this or any other contract then this security deposit either in full or in part could be refunded at the sole discretion of the Employer.
- (e) In case of termination of contract, this security deposit shall be forfeited and amount necessary to makeup this amount shall be recovered from money due to the contractor under this contract, or any other Contract with the Employer.

27. Completion Certificate

Within ten days of the completion of the work, the contractor shall give notice of such completion to the Employer and within ten days of the receipt of such notice the-Engineer shall inspect the work. If there is no defect in the work the Employer shall furnish the contractor with a certificate of completion otherwise a certificate of completion indicating defects shall be issued but the work shall not be considered to be completed until the contractor shall have removed from the premises on which the work shall be executed. All the scaffolding, surplus material, rubbish, and all huts and sanitary arrangements required for his work, people on the site in connection with execution of the works as shall have been erected or constructed by the contractor and cleaned of the dirt, splashes, droppings of finishing items from all wood work, doors, windows, walls, floors or other parts of any building, in upon or about which the work is to be executed or of which he may have had possession for the purpose of the execution thereof. If the contractor shall fail to comply with requirements of this clause on or before the date fixed for the completion of the work, the Employer may at the risk and cost of the contractor take action as he may think fit and the contractor shall have no claim except for any sum actually realized by the sale thereof.

28. Escalation

- (a) If the prices of materials not being supplied by the Employer and/ or wages of labour required for execution of the works increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contractor shall accordingly be varied, subject to the condition that compensation for escalation in prices shall be available only for the work done during the stipulated period of the contract including such period for which the contract is validly extended under the provisions of Clauses-22 of General Conditions of Contract without levy of compensation under Clause-20 of General Conditions of Contract and also subject to the condition that no such compensation shall be payable for a work for which the stipulated period of completion is eighteen months or less. Such compensation for escalation in the price of materials and labour when due shall be worked out based on the following provisions.
 - i. The base date for working out such escalation shall be last date on which the tenders were stipulated to be received.

ii. The cost of work on which escalation will be payable shall be reckoned as 85% of the cost of the work as per the bills, running or final, and from this amount the value or material supplied by the Employer and proposed to be recovered in the particular bill shall be deducted before the amount of compensation for escalation is worked out. In case of materials brought to site for which secured advance is included in the bill full value of such materials as assessed by the Engineer in charge (and not the reduced amount for which secured advance has been paid) shall be included in the cost of work done for operation of this clause. Similarly, when such materials are incorporated in the work, the secured advance is deducted from the bill. The full assessed value of the materials originally considered for operation of this clause shall be deducted from the cost of work shown in the bill running or final. Further the cost of work shall not include any work for which payment is made for any item at prevailing market rates.

iii. The compensation for escalation for materials & labour shall be worked out as per the formula given below:

$$VM = W X A / 100 X (MI - MIO) / MIO.$$

VM = Variation in material cost i.e. increase or decrease in the amount rupees to be paid or recovered

W = Cost of work done worked out as indicated in sub para (ii) above.

A = Component of materials expressed as percent of the total value of work and is predetermined as 75

MI = Index numbers of Wholesale Prices in India for all commodities published by the Reserve Bank of India for the period under reckoning

MIO = Index numbers of Wholesale prices in India for all commodities published by the Reserve Bank of India on the stipulated date of receipt of tenders

$$VL = W X B / 100 X (LI - LIO) / LIO$$

VL = Variation in labour cost, that is, increase or decrease in the amount in rupees to be paid or recovered

W = Value of work done, worked out as indicated in sub para (ii) above.

B = Component of labour expressed as percent of the total value of work and is predetermined as 75

LI = All India consumer price index numbers for industrial workers published by the Reserve Bank of India for the period under reckoning as for the period under consideration

LIO = All India consumer price index numbers for industrial workers published by the Reserve Bank of India and valid on the stipulated date of receipt of tenders.

- (b) The following principle shall be followed while working out indices mentioned in sub para (iii) above.
- i. The compensation for escalation shall be worked out at half yearly intervals and shall be with respect to the cost of work done during the six calendar months of the said work. The first such payment shall be made at the end of the six months after the month (excluding) in which the tender was accepted and thereafter at six monthly intervals. At the time of completion of work, the last period for payment might become less than six months, depending on the actual date of completion.
 - ii. The index (MI or LI) relevant to any six months for which such compensation is paid shall be the arithmetical average of the indices relevant to the six calendar months. If the period upto date of completion after the six months covered by the last such installment of payment, is less than six months the index MI or LI shall be the average of indices for the months falling within that period.
 - iii. The base index (MIO or LIO) shall be the relating to the months in which the tender was stipulated to be received.
- (c) In the event the price of materials and/ or wages of labour required for execution' of the work decreases there shall be downward adjustment of the cost of work so that the price of materials and/or wages of labour shall be deductible from the cost of work under this contract and in this regard formula herein before stated under this clause shall mutatis mutandis apply, provided that no such adjustment for the decrease in the prices of materials and/ or wages of labour aforementioned would be made in case of contracts in which the stipulated period of completion of the work is six months or less.

29. Arbitration

- (a) In the event of any question / dispute / difference arising under the agreement or in connection herewith (except as to matters the decision of which is specially provided under this agreement) the same shall be referred to the Delhi International Arbitration Centre for appointment of Arbitrator to adjudicate the dispute.
- (b) The award of the Arbitrator shall be final and binding on the parties. The Arbitrator may give interim award(s) and / or directions, as may be required.
- (c) Subject to the aforesaid provision, the arbitration and conciliation act, 1996 and the rules made hereunder and any modification thereof from time to time being in force shall be deemed to apply to the Arbitration proceedings under this clause.

30. Dismantled Material:

The contractor shall treat all material obtained during dismantling of a structure, services sub systems/ installations, excavation of the site for a work etc., as employer's property and such material shall be disposed of to the best advantage of the Employer according to the instructions

issued in writing by the Engineer.

SPECIAL CONDITIONS

1. These special conditions are meant to amplify the general specifications and general conditions of contract.
2. Work shall be done as per CPWD specification.

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

- i. Schedule of quantities
- ii. General conditions of contract
- iii. Special conditions. Additional Conditions & Additional Specifications.
- iv. Specialist's work, the specifications of which are attached.
- v. Additional specifications for Electrical works – conduit laying, boxes etc.
- vi. CPWD latest Civil and Electrical specifications
- vii. IS Codes
- viii. International codes
- ix. Best Engineering Practice.

3. STEEL

- i. Steel to be issued as stated elsewhere in the contract shall be for reinforcement bars for RCC work. For all other items of steel work the contractor shall procure the same.
- ii. Reinforcement bars for RCC work will be issued in available coils and straight length. No claim for straightening the bars whatsoever shall be entertained.
- iii. Issued of steel of diameters above 10mm dia. will be regulated on sectional weight basis, weight being calculated with the help of the standard sectional weights as given in the CPWD latest specifications for conversion of length to weight. However, for bars up to and including 10mm dia the following procedure shall be adopted. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The actual weight of steel issued shall be modified to take into account the variations between the actual and the standard co-efficient and the contractor's account will be debited by the cost of this modified quantity only.
- iv. For theoretical consumption of steel reinforcement bars will be balanced diameter wise for the purpose of penal recovery as envisaged in the contract.

4. CEMENT

Cement to be issued as stated elsewhere in the contract shall be only for site work for factory made products such as pre-tiles, hollow, concrete blocks RCC pipes etc. cement shall not be issued.

5. Unless otherwise provided in the schedule of quantities the rates tendered by the contractor shall apply for all heights, lifts, leafs and depths of the work and nothing extra shall be payable on this account.
6. The surplus excavated earth which is beyond the requirement of the Employers work may be allowed by the Employer to be disposed of by the contractor on his own or sell the surplus excavated earth to private parties at his discretion but nothing extra will be paid for the carriage of disposal of surplus earth if the same is not required on any other work of the Employer.

ADDITIONAL CONDITIONS

1. The structural and architectural drawings, shall at all times be properly correlated before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and drawings relating to the relevant item the former shall prevail unless and otherwise given in writing by the Engineer.
2. No payment shall be made to the contractor for any damage caused by rain, snowfall, floods or any other natural cause whatsoever during the execution of work. The damage to work will be made good by the contractor at his own cost, and no claim on this account shall be entertained.
3. All materials used shall be as per specifications and ISI marked wherever applicable. ISI marking referred relate to latest BIS code as published by Bureau of Indian Standards up to 30 days before the date of opening the tender.
4. The contractor shall give a performance test of the entire installation(s) as per standard specifications and / or directed by the Engineer and will also submit. Test certificates as are required by Municipal / Electrical authority of any other authority. Nothing extra shall be payable for the same other than the fees paid to such authorities which shall be reimbursed on production of receipts.
5. Rates for identical items shall be the same throughout: otherwise the lowest rate for the item shall be payable.
6. The use of the word "throughout" in this condition means "throughout" the agreement and cannot be limited to a particular sub-head of a schedule.

INDENTURE FOR SECURED ADVANCE

The indenture made the.....day of20... between.....(hereinafter called the contractor which expression shall where the context so admits or implies be deemed to include his heirs, executors, administrators and permitted assignees) of the one part and Council of Scientific & Industrial Research, New Delhi, a Society registered under the Societies Registration Act 1860 (hereinafter called the Employer which expression shall include its successors and assignees and authorizes officers of the Society) of the other part.

WHEREAS by an agreement dated.....(hereinafter called the said agreement) the contractor has agreed AND WHEREAS the contractor has applied to the Employer that he may be allowed advances on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges) AND WHEREAS the Employer has agreed to advance to the contractor the sum of Rs.....(Rupees.....) on the security of materials the quantities and other particulars of which are detailed in accounts of secured advances attached to the running account bill for the said works signed by the contractor on..... and the Employer has reserved to himself the option of making any further advances or advance on the security of other materials brought by the contractor to the site of the said works. Now THIS INDENTURE witnessed that in pursuance of the said agreement and in consideration of the sum of Rs on or before the execution of these presents paid to the contractor by the Employer (the receipt whereof the contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the contractor doth hereby covenant and agree with the Employer and declare as follows.

1. That the said sum of Rs advanced by the Employer to the contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the contractor in or towards expending the execution of the said works and for no other purpose whatsoever.
2. That the materials detailed in the said account of secured advance which have been offered to and accepted by the Employer as security are absolutely the contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the contractor indemnifies the Employer against all claims to any materials in respect of which an advance has been made to him as aforesaid.
3. That the materials detailed in the said account of secured advances and all other materials on the security of which any further advances or advance may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the contractor solely in the execution of the said works in accordance with the directions of the Engineer and the terms of the said agreement.

4. That the contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protections against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the contractor's custody and on his own responsibility and shall at all times be open to inspection by the Employer or any officer authorized by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Engineer.
5. That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Employer or any officer authorized by him on that behalf.
6. That the advances shall be repayable in full when or before the contractor receives payments from the Employer of the prices payable to him for the said works under the terms and provisions of the said agreement. However if any intermediate payments are made to the contractor on account of work done then on the occasion of each such payment the Employer will be at liberty to make a recovery from the contractor's bill for such payment by deducting therefrom the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
7. That the contractor shall at any time make any default in the performance or observance in any respect of any of the terms or provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Employer shall immediately on the happening of such default be repayable by the contractor to the Employer together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs. Charges, damages and expenses incurred by the Employer in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the contractor and the contractor hereby covenants and agrees with the Employer to repay and pay the same respectively to him accordingly:
8. That the contractor hereby charges all the said materials with repayment to the Employer of the said sum of Rs.....and any further sum or advances as aforesaid and all cost charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith the Employer may at any time thereafter adopt all or any of the following courses as he may deem best:

- (a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the contractor in accordance with the provisions in that behalf contained in the said agreement debiting the contractor with the actual cost of effecting such completion and amount due in respect of advances under these presents and crediting the contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the contractor, he is to pay same to the Employer on demand.
- (b) Removed and sell by public auction the seized materials or any thereof and out of the moneys arising from the said retain all the sums aforesaid repayable or payable to the Employer under these presents and pay over the surplus (if any) to the contractor.
- (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the contractor under said agreement.

9. That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable.

In witness whereof the said.....and.....by the order and under the direction of the Employer have hereunto set their respective hands the day and year first above written.

Signed sealed and delivered
by the said contractor:

In the presence of

Signature:.....
Name:.....
Address:.....
Signed by:.....

by the order and direction
of the Employer:.....

In the presence of

Signature:.....
Name:.....
Address:.....

PERFORMANCE GUARANTEE

To

CSIR-Indian Institute of Chemical Biology

In consideration of Indian Institute of Chemical Biology, Kolkata-700032, under the Council of Scientific & Industrial Research, New Delhi, a Society registered under the Societies Registration Act 1860 (Hereinafter referred to as the Employer, which expression shall include its successors and assignees and authorized officers of the Society) awarded to M/s..... [Name of work] a Company registered under the Companies Act 1956 (hereinafter) called the contractor, a contract for (hereinafter) called the said contract under the terms and conditions of an Agreement made between the CSIR-Indian Institute of Chemical Biology, Kolkata-32 and the Contractor hereinafter called the said agreement and CSIR- Indian Institute of Chemical Biology, Kolkata-32 agreed to accept a Deed of Guarantee as herein provided for Rs...../= (Rupeesonly) from a Scheduled Bank towards due performance of the contract by the Contractor as per the terms and conditions of the contract on the condition that the bank on demand from the CSIR-Indian Institute of Chemical Biology, Kolkata-32 and without demur pay to the CSIR-Indian Institute of Chemical Biology, Kolkata-32 the aforesaid amount.

3. We,.....Bank Ltd., (hereinafter) referred to as the bank do hereby undertake to pay to the CSIR-Indian Institute of Chemical Biology, Kolkata-32 an amount not exceeding Rs...../= (Rupeesonly) against any loss or damage caused to or suffered or would be caused to or suffered by the CSIR-Indian Institute of Chemical Biology, Kolkata-32 by reasons of any breach or breaches of any of the terms of conditions of the said agreement by the said contractor.

4. We,Bank Ltd., do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the CSIR-Indian Institute of Chemical Biology, Kolkata-32 by stating the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the CSIR-Indian Institute of Chemical Biology, Kolkata-32 for reasons of any breach by the said contractor(s) of any of the terms & conditions contained in the said Agreement or by reason of the contractor(s) failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs...../= (Rupeesonly).

5. This guarantee shall come into force immediately and continue in force and remain valid till six months after the completion of all works under the said contract which according to the terms of the said contract, should be six months from the probable date of completion viz., theday of if however, the period of the completion of the works under the said contract is for any reason extended and upon such extension if the Contractor fails, before the terms of this guarantee expires, to furnish a fresh or renewed guarantee for the extended period, the Bank shall pay to CSIR-Indian Institute of Chemical Biology, Kolkata-32 the said sum of Rs...../= (Rupees..... only) or such lesser sum as CSIR-Central Glass & Ceramic Research Institute, Kolkata-32 may demand.

6. This guarantee shall not be affected by any change in the constitution of the Bank or of the Contractor.

7. Notwithstanding anything hereinbefore contained, the liability of the Bank this guarantee is restricted to Rs...../= (Rupeesonly) and the guarantee shall remain in force tillday of unless claim or demand under this guarantee is presented to the Bank within that date all the rights of CSIR-Indian Institute of Chemical Biology, Kolkata-32 under this guarantee shall be forfeited and the Bank shall be released and discharged from all obligations here in under.

VI) SPECIAL CONDITIONS – II

These special conditions are meant to amplify the general specifications and general conditions of contract.

1. If any discrepancy is noticed between these conditions and specifications, general conditions of contract, drawing, etc., the order of precedence would be mentioned in Contract Document.
2. **Inspection of Site:** The Contractors must visit site before giving tender and must get acquainted with the working conditions. They should include in their rates all preliminary work such as jungle clearance construction of temporary approach roads, cleaning rubbish, pumping out water where necessary to make the area fit for further work etc., to start work and also complete it. .

The contractor will be deemed to have included in their tender rates allowance for all such preliminary works.

3. **Water Charges for Building Work Including Services:**
Please refer 3 (b) of Contract Document for works.

4. **Rates:**
Please refer Clause (5) of Contract Document.

5. **Increase In Rate on Account Of Increase In Basic Price:**
Please refer Clause (5) and (28) of Contract Document.

6. Rates for doors, windows, glazing, louvers should also include cost of fixing them in RCC columns and walls.

Rates shall also include shutters being fixed side hung, bottom hung, or centrally pivoted.

7. **Work in Patches and Different Shapes, Cement Slurry Under Flooring etc.,**
Even if not specifically mentioned in the schedule of quantities, including preamble of Schedule of quantities, the contractor shall be deemed to have allowed necessary materials, labour, tools and plants etc., required for satisfactory completions of the items of work as indicated in drawings and description given in building specification which shall mean CPWD Specification for works at Delhi Vol, I and II, 1977, unless the item specifies labour only or otherwise. Rate quoted also apply for work in patches strip, small or large areas, and for different shapes. The rates for flooring shall include the cost of cement slurry at bases where required as per specification.

8. Quantities:

All the quantities given in the schedule of Quantities are provisional. The contractors shall be

deemed to have given Balanced Rates for each item, irrespective of the quantity to any extent the contractor shall be paid at accepted contract rates only. Council reserves the right to increase or decrease to any extent.

9. Measurements

Under each trade head, various items are given such as RCC Slab, beams, chajjas etc., In case of dispute between the contractor and the employer or any ambiguity as to under which items a particular work is to be measured, the decision of Architect/ Engineer shall be final and binding on both the parties to the Contract.

10. Mode of Measurements Not Specified:

If for any items, mode of measurements is not specified the decision of the Architect/Engineer about the mode of measurement shall be final and binding both the parties to the control.

11. Schedule of Rates and Specifications:

"CPWD" Specifications are to be generally followed. However, the contractor shall include in his rates all such items of works which might have been specified as payable extra in CPWD schedule of rates but not specifically included in the tender schedule but are required to be executed to complete the work in accordance with the drawings additional specifications etc., The Employer is not bound to follow the practice and mode of measurements followed by other departments.

12. Work on Holidays:

Contractor shall not carry out work on any Government holidays except with the permission of the Civil Engineer-In-charge. The contract period will be inclusive of such holidays.

13. Labour Wages:

In labour wages either due to market conditions or by notification or legislation nor any claim on that account will be entertained.

14. Cement Consumption:

Please refer Clause (6) of Contract Document.

15. Other Contractors:

The contractor shall afford every facility to other contractors working in the same building or compound. In case of delay in completion of his work due to other contractor's work the contractor shall only have a right to ask for extension of time but no other claims on this or any other account shall be entertained by the Employer.

16. Extension of Time:

Contractor hereby agrees that extension of time required for by the contractor, and granted by the employer shall be treated as an extension of time without any claim of contractor for compensation or damages for any reasons whatsoever including those for which the extension is granted.

17. Drawings, Designs, etc:

Department will make all efforts to give all drawings, designs, decisions etc. time to time and the contractors shall make request, for the same. No claim whatsoever shall however be entertained for compensation of delay in supply of drawings, designs, decisions, running payment etc. from the department. Drawings shown at the time of issue of tenders and forming part of the contract shall indicate scope of work and drawings issued subsequently during the execution of work shall be deemed to be the drawings elaborating the basic scheme. If any detailed drawings show an item for execution, the contract with his claim in any, for final decision. Decision of the Engineer/ Architect, as to whether it is an extra item or not or whether it is covered by contract items and if not, what extra rate should be paid shall be final and binding on both the parties to the contract i.e. contractor and employer.

18. Running Bills:

Minimum value of work for interim certificate shall be contract amount divided by original completion period in months. At the discretion of Civil Engineer a running payment may be allowed for a lesser amount but not more than one running payment will be made in a month. All interim payments will be certified for payment by the Civil Engineer-in-charge of the work and only the final bill will be sent by him to the Engineer I Architect mentioned in the Agreement for certification. Secured Advance payment will not be treated as running bill if paid separately.

19. Security Deposit:

A sum@1 0% 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 work 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 of ward issued to him. In case of termination of contract, this Security Deposit shall be forfeited and amount necessary to make up this amount shall be recovered from money due to the contractor under this contract, or any other contract with COUNCIL OF SCIENTIFIC & INDUSTRIAL, RESEARCH.

20. Work in Subsoil Water/ Rain Water/ Water:

If during execution of work, sub-soil water is met with, or water enters the working space due to rains or any other cause the contractor shall dewater the same by using pumps or manual labour and also carry out additional work consequent thereupon, including shoring, strutting, work in liquid, slush etc., without extra payment.

21. Heights:

Contractor's rate shall include lifts upto all heights given in drawings or as required during execution. Contractors would satisfy themselves for correctness and allow for variation if necessary. Nothing extra include in their rate allowance for works at extra heights, required double of multiple staging, tall centering, scaffolding, etc., for all items including extra labour if any.

22. Steel in RCC Work:

All materials, workmanship and supervising for plain or RCC construction shall be in accordance with Indian Standard 456 latest edition.

23. Concrete Work (Plain and Reinforced):

- a) Concrete members may be required to be finished with plaster or left (fair faced) as per drawing or as directed by Architect/ Engineer, The plaster shall include for facing out the surfaces required to be plastered. Shuttering required for exposed faced concrete shall be measured and paid for separately, over normal shuttering if specifically ordered.
- b) Grooves up to 20mm X 20mm as per design will be made between exposed fair masonry and (fair faces) exposed RCC members without any extra charges, if required, during the execution of work. .
- c) All RCC columns, beams, lintels may be required to be chamfered at the edges upto 20mm or as directed by the Architects/ Engineer for which no extra payment will be made whether such chamfering is shown in drawing or not. Before making the shuttering, the contractor shall have instructions from Architect/ Engineer whether such chamfering is to be done or not.

24. RCC Work:

Mechanical mixers and vibrators will be used for RCC work. Hand mixing and waiving use of Vibrator under unavoidable circumstance, may be allowed by the Civil Engineer in-Charge. Concrete work plain or RCC (labour, material supervision) WILL CONFIRM to IS 456 latest edition. If the item does not give RCC mix by proportion but gives grade concrete, suitable mix that will give required strength by getting preliminary cubes tested but minimum quantity of cement as mentioned must be used. Strength, quality of material workmanship and quality of work should conform to IS 456. Tests cubes will be prepared and got tested by the contractor and when directed by the Civil Engineer from approved Test House. Contractor shall be responsible to ensure that required test results are obtained. Incase the concrete is found to be giving weaker test results, the contractor shall have to dismantle and redo the work. However, Architect/ Engineer may accept the substandard work at reduced rates if he is otherwise satisfied about its functional utility and rates thus decided shall be final and binding on both the parties. All charges connected with preparation

of moulds, preliminary mix, testing of moulds at the preliminary mix stage and during the course of work including testing charges will be borne by the contractor. Concrete shall also mean an item of materials for the purpose of testing. Concrete referred to in RCC shall be controlled concrete. Preliminary cubes shall be taken whenever change of material takes place like change of source etc. Preliminary mix may be designed by trial at site or approved at laboratory and the expenditure involved shall be borne by the contractor at the preliminary mix stage and during the course of work including testing charges will be borne by the contractor. Concrete shall also mean an item of materials for the purpose of testing. Concrete referred to in RCC shall be controlled concrete. Preliminary cubes shall be taken whenever change of material takes place like change of source etc. Preliminary mix may be designed by trial at site or at approved laboratory and the expenditure involved shall be borne by the contractor.

25. Drip Groove:

The contractor shall provide drip groove at all ends of slabs/ lintels/ beams if required, to protect rain water from entering inside the boundary of the structure, within quoted rates of RCC work.

26. Projection:

Slab projection beyond the face of wall/ column shall be measured under item RCC work in slabs and not under items RCC work in chajjas.

27. Concealed RCC Beams/ Lintels:

If in RCC SLAB, extra bars or steel cages is provided to act as a lintel or a beam over an opening the same will be measured as slab and not as beam/ lintel. If in case of RCC Wall, extra bars or steel cage is provided to as a lintel or beam over an opening the same will be measured as wall and not as Lintel/ beam. RCC Column integrated in shear wall shall be measured as wall if the same thickness and as RCC column if its thickness is more than that of shear wall.

28. Cantilever Beams, Slabs, Lintels etc.:

Nothing extra will be paid for work in cantilevers and quoted rates shall include work in and connected with cantilevers also, including extra cost for keeping centering and shuttering for a longer period.

29. Grade Concrete:

a) Minimum quantity of cement to be used in different grades of concrete for nominal mix shall be as given below:

M-100	200 Kg	per cubic meter	} Seven days & 28 days cube test strength shall be given as per ISI for grade concrete even if mix is given by
M-150	300 Kg.	___do___	
M-200	375 Kg	___do___	

M-250 500 Kg. ____do____ proportion.

1:2:4	RCC mix shall be nominal	M-150
1:1 1/2:3	____do____	M-200
1:1:2	____do____	M-250

b) Design Mix: As per IS 456 of Latest edition.

30. Measurements for RCC:

The rates for RCC items are inclusive of rendering and plastering with cement mortar 1:3, not more than 6mm thick. The thickness of RCC work shall be taken before rendering is done.

31. RCC in Steps, Waistes etc. :

The rates are inclusive of inclined surface finish shuttering, cantilevered steps of shapes, and size as per design or zig zag shaped steps.

32. Precast or Cast Insitu RCC Shelves:

Rate for shelves shall include cost of cutting chases in brick or stone work and fixing them and making good. No deduction for bearing of slab in brick or stone work is made. RCC in shelves shall be paid including RCC in bearings.

33. M.S. Reinforcement:

Rate quoted for placing in position and fabrication of mild steel or ribbed Tor steel reinforcement should include for straightening and cleaning including removing the rust of the bars at work site, cutting, cranking, hooking, hoisting at required levels, cost of providing and binding wire of 18 to 20 G. etc. complete and no separate payment will be made on this accounts.

34. Brick Work:

Rate shall include for tapering of bricks over column footing of in an over walls, steps, etc., and for exposed brick work, or any other work. Rate for brick work also includes work in pillars and small horizontal courses.

35. Brick Works: Heights/Depths

The height or width of foundation steps and superstructures will be measured as per actual. The contractors shall use suitable bricks and adjust the thickness and mortar joints to make up the widths or heights as per drawings with due regard to size of bricks available.

36. Scaffolding, Centering and Shuttering:

Contractors shall use external scaffolding to ensure true line in vertical and horizontal Planes, Centering, Shuttering, Scaffolding requiring for execution of this work may vary from single floor height to multifloor heights, which may require multiple staging scaffolding, Centering and Shuttering. Since the payments will be made to the contractor at net quoted rates irrespective of the heights involved the contractors must see and study the drawings carefully before tendering their rates.

37. Exposed Brick Work:

All brick work which will be exposed shall be done in one plane surface on exposed face and all horizontal joints shall be kept truly horizontal in one line and all vertical joints shall be truly vertical. Rates of brick work shall be inclusive of exposed brick work, and nothing extra will be paid on this account.

38. Frames Shutters:

Allowance for curved or tapered or any shape for shutters and frame.

39. Measurements of Shutters of Doors:

Actual area of wooden shutters provided shall be measured. For rolling shutters, only size of opening covered shall be measured.

40. Flush Doors:

Rates shall include forming rebates for double leaf shutters to be provided suitably for double leaf opening.

41. Steel Window Painting:

For payment of painting to steel window on both the sides, the actual area of steel windows as painted shall be multiplied as per IS 1200 and taken as area of painting for payment if not covered by schedule item for steel windows. For wooden doors and windows coefficients given in general specification shall be followed.

42. Paintings:

Where wire gauge shutters are provided in addition to normal shutters for painting to wire gauge shutters, area of wire gauge shutters multiplied by co-efficient shall be paid for. Fixed glazing will be treated as full glazed doors for painting.

43. Glazing:

If glass of required thickness is not available in the market the contractor shall have to use next higher thickness available without any extra payment. Thickness of glass to be used is 3mm for area up to 2 sq. ft. and for areas between 2 sq. ft. and 10 sq. ft. the thickness of glass shall be 4mm. If the area of panel is 10 sq. ft. or more the thickness of glass should be 5.5 mm and the cost should

include for providing and fixing the glass as per above details with mastic patty etc. Fixed glazing shall be measured clear between the rebate of frame.

44. Pelmets:

Measurements shall be taken on front face only the sides shall not be measured.

45. Flooring:

Rate for flooring includes work in staircase steps, forming nosing including front and sides if required and work in panels. For flooring in steps only top surface would be measured and not sides and front though quoted rate shall include finishing sides and front as floor.

46. Terrazzo Flooring:

Terrazzo work in tiles- or in situ flooring and dado skirting should be of approved make and will have the desired shade, colour and size of marble chips (white, black, green, brown & chocolate etc.) in specified proportion. The rate quoted should include for flooring in curves etc.

47. Staircases:

Flooring over steps and in nosing shall be paid under the item of flooring and the contractors rates shall include for extra shuttering for nosing of required shape with or without thread line terrazzo/ plain concrete finish as on steps for exposed of and nosing etc., Finishing on risers of steps shall be paid under the items of skirting/ dado and nothing extra will be paid for work in steps or risers.

48. Plastering and Skirting:

Minimum 1/2" plaster from wall face should be done, skirting should project 1/4" from wall plaster and the quoted rate should include for this irrespective of actual thickness of plaster, dado or skirting. The rate quoted for plastering or skirting should include for the work in circular shape or curved walls etc. and for giving thread line in plaster at junction of RCC and brick work if necessary. The rates should also include for additional thickness required on stone works. No additional payment shall be made for increase in thickness of plaster on uneven surface.

49. Measurements for Flooring Skirting and Dado Plaster and Finishing Items like Snowcem Distemper etc.:

Measurements for all these items shall be taken clear between the walls/ columns. Actual area of skirting, dados and finishing items/ like snowcem, distemper, plastic emulsion, white/ colour wash shall be measured and paid for as per IS 1200. Area of opening, doors and windows shall be deducted on both faces and jambs, sills/ soffits shall be measured as per actuals.

50. Mortice Lock:

These shall be with heavy gauge iron body 2 1/2" in width, with brass levers 4 not. C.P. Iron keys in duplicate with C.P. Iron handles 2 Nos. per lock, cover and looking place of C.P. iron complete.

51. Mortice Latch:

These shall be with heavy gauge iron body 2 1/2" in width C.P. iron handles 2 Nos. per latch, brass safety latch, cover and locking plants of C.P. iron complete. Mortice lock and mortice latch shall be paid for separately.

52. Beading:

Wooden beading for fixing glass panels and over wooden or board panels of panelled shutters will be deemed to be included in the rate of fixing glazing or glazed panelled shutters. Wooden beading around door and window frames will be paid for separately.

53. Screws:

All screws to be steel screws, chromium plated for aluminum and C.P. fitting and oxidized steel for iron fittings.

54. Dimensions:

If fittings, of given dimensions are not manufactured, higher manufactured size shall be used at same cost.

55. Works Programme:

The contractor shall give a phased programme for execution of his work, after award of work and also give his requirement for cement and steel in a phased programme.

56. Works Supervisor:

Contractor shall keep a qualified and experienced Engineer for supervision of building work to ensure best quality work.

57. Essentiality Certificates/ Permits/ recommendation Letter for Material Available at Controlled Rates:

These would be given by the department, if required by the contractor. It will, however, be the responsibility of the contractor to obtain material against the certificates or otherwise, and no claim on this account will be entertained by the department. Contractor shall use materials thus procured exclusively in this work and for misuse if any, he shall be solely responsible.

58. Making Holes in RCC Slabs:

For forming holes up to one sq ft size in RCC slab, no deductions in concrete or shuttering shall be made at the same time nothing extra will be paid for forming such opening including any extra cost of material or labour.

59. Architect/ Engineer:

The words "Architect/ Engineer", wherever appear in the agreement shall be read as "CSIR ARCHITECT".

60 Payment by measurements specified in these conditions as applicable to only those items of schedule of quantities, where quantities are given in Cum/ Sqm/etc. where amount is called for, and given in lump-sum, it shall be deemed to include the works specified against such items.

61. Cement and Steel:

Steel and Cement shall be supplied to contractor as stated in appendix sheet. If for any reason cement and steel is not available, the contractor shall procure the same and complete the work in time after due intimation of the same the Civil Engineer-in-Charge. The quantities brought by the contractor would be replenished to the contractor at issue rates given in appendix when received during or after completion of work but before payment of final bill.

If steel of required diameters is not available but contractor could get substituted diameters by exchanging available diameters, in the interest of work, such an exchange would be authorised with the permission of the Civil Engineer but without any extra cost of department.

Contractors's rates shall be deemed to have been based on issue rates of cement and steel given in the appendix sheet of tender, any they shall have to use materials issued departmentally as per Appendix.

(a) Forming Slits in Facias and Parapet Walls:

Slits shall be formed in RCC or brick work as per design for which nothing extra would be paid either for foming them or for extra labour in plastering it.

62. Regarding Weight of Materials Supplied Departmentally:

When cement is issued in bags, variation in its weight shall be deemed to have been allowed for loss in handling as per clause 6c/ Gen. condo. Each bag shall be deemed to weigh 50 Kg. If bags are tom, underweight or partially set or damaged, the contractor must point out the same in writing while taking delivery, to the issuing authority.

For reinforcement steel (Mild or Tor) round, the weight for issue purpose shall be the actual weight, i.e. P.R.I weight if supplied by wagons direct or the truck weigh bridge weight recorded at producer's works or suppliers stockyard if delivery is by road.

If steel is issued from CSIR lab. Stores the contractor should arrange for necessary labour for weighment and shifting, loading etc. If the store has no arrangement for weighing the contractor will have to take steel to any approved weigh bridge. For this purpose, the truck will be either arranged by concerned laboratory or alternatively, the contractor may be required to arrange truck

for which only transportation charges on actual tripe performed will be paid to him. Steel may alternatively be issue by length multiplied by standard co-efficients, for which labour will be arranged by the contractor.

Since payment for steel would be made on basis of standard co-efficients on length, the contractors should ensure that each dia. of rods issued conforms to standard co-efficients, and incase it is not, he should at once report to the Architect/ Engineer and get standard co-efficient established for specific diameter and specific quantity. Weight of steel shall be measured correct to three decimal places.

Standard co-efficient will be established in presence of (a) contractors representative (b) stores officer or his representative (c) Civil Engineer-in-charge of work. (d) a representative of Administrative Officer, and information supplied to contractors and Architect/ Engineer.

If steel is issued departmentally as stated in Appendix sheet, it shall be meant mild steel rounds and tor steel for holdfast, squares, flats, etc. are to be procured by the contractor.

63. Return of Steel:

While receiving the surplus structural steel back from the contractor after the end of the project the department shall not accept cut pieces less than three meters of length. The contractor should take care while cutting rod that the wastage is minimum i.e. he should cut of required length in such a way that maximum steel is used out of quantity supplied or as directed at site by Engineer. Variation over 5% will be allowed by the Architect/Engineer, if he is satisfied about abnormal wastage.

64. Nomenclature of Item:

Nomenclatures of the items of work mentioned in the priced schedule is only a brief description of work. The work shall have to be executed in accordance with the relevant specifications which shall mean CPWD specifications.

To the satisfaction of Architect/ Engineer in charge of the work. Any omission in description will not absolve the contractor from his responsibilities to complete the work in a satisfactory manner.

- 65.** Where RCC surface are to be plastered to bring them in line with the brick and or stone wall plaster, of the same mix, payment for such plaster will be made under the item of plastering only irrespective of the fact whether there is any increase due to odd or even surface of brick or stone work below and/or adjoining it.

66. Wood Work:

Sizes mentioned in schedule of quantity or in drawings are the finished sizes. Contractor shall allow

necessary increase in sizes for planning required. In case the sizes of wooden member fixed are less than the one shown in the drawing of schedule of quantity allowing for tolerance, payment will be made for actual size used at site. The rate quoted also will include the allowance for curved or tapered or any other shape of the wooden member unless a separate item is provide for it.

67. Random Rubble Masonry:

The rates shall include cost of hammer dressing square edges of walls, jambs, sills etc.

68. Metric Units:

The bill of quantity indicates the unit of Metric System: The mode of measurement of different items of work shall be as per details contained in specification and special conditions, with the equivalent of the units mentioned in Metric system.

69. The Recovery from Running Account Bills:

Recovery for the materials issued departmentally shall be made in full or on the basis of the quantity used in the work as assessed by the Engineer-in-Charge giving a due allowance for wastage. The contractor shall submit once in a month a statement showing the materials received consumed and the balance carried over to subsequent month so that watch could be maintained on the materials for which payment of advance could be considered by the DepC3Jlment.

70. The Fittings:

To be used in the work shall be presented for approval well in advance. Approved fittings shall be kept in the Office of Civil Engineer in a mounted lockable board.

71. The work may be measured in British Units and finally covered in abstract to Metric Units, Alternatively it could be measured in metric units if found convenient at site as per drawings issued.

72 Schedule of fittings generally to be provided to doors, windows and ventilator is given below:

- | | | | |
|-----|---------------------------|-------------------------------|-------|
| (a) | Butt hinges | 100 X 30 X 1.5mm | 3Nos. |
| (b) | Rubber Block | 2"/Wooden cleat with 2 hinges | 1No |
| (c) | Tower Bolts (Barrel type) | 29mm X 10 mm (shoot dia) | 2Nos. |
| (d) | Tower Bolts (Barrel Type) | 150 mm X 10 mm (shoot dia) | 1No. |

(a) Doors Fittings per Leaf:

- | | | |
|-----|--|--------|
| (a) | Butt hinges - 10 X 30 X 1.5 mm | 3 Nos. |
| (b) | Sand Block of size 15cm X 5cm X 8cm duly painted | 1 No. |
| (c) | Wooden cleat with hinges 50 X 16 X 1.5 mm of approved quality with paintings etc. complete | 1 No. |

- | | | |
|-----|--|--------|
| (d) | Grip handle 10mm | 2 Nos. |
| | (In case of double leaves, 3 grips handles shall be. provided instead of four numbers) | |
| (e) | Tower bolts (barrel type) 250X 10 mm (shoot dia) | 1 No. |
| (f) | Tower bolt (barrel type) 150 X 10 mm (shoot dia) | 1 No. |
| (g) | Sliding door bolt 300mm X 16mm | 1 No. |

(b) Windows Fittings per Leaf:

- | | | |
|-----|---|-------|
| (a) | Butt hinges 80X25X1.50mm (3 Nos. if height is more than 4'0") | 1 No. |
| (b) | MS Hooks and eyes 150 mm | 1 No. |
| (c) | Barrel type tower bolt - 100 X 100 mm (shoot dia) | 1 No. |
| (d) | Barrel Type tower bolts- 200 X 10 mm (shoot dia) | 1 No. |
| (e) | Grip Handle 100 mm | 1 No. |
| (f) | Sand block of size 15cm X5cm X8cm painted etc., complete | 1 No. |

(The size of tower bolts shall be 250 X 10 cm, instead of (c) and (d) specified above for windows placed at skirting level) The rate quoted shall include for providing and fixing with 3 cm (minimum) long Iron Screws. The sliding bolts shall be fixed with bolts and nuts. In lieu of sand block 2 Nos. rubber buffers 2" dia. may be required to be provided.

(c) Folding doors per Leaf:

- | | | |
|-----|---|--------|
| (a) | Butt hinges 100 X30 X1.50 (heavy type) | 3 Nos. |
| (b) | Barrel Type, tower bolt 250 X 10 mm (shoot dia) | 1 No. |
| (c) | Barrel type tower bolt - 200 X 10 mm (shoot dia) | 1 No. |
| (d) | 125 mm Grip plate handle with screw, in addition to this two Rubber buffers | 1 No. |

fixed on walls and one Grip 125 mm plate handle on locking leaf shall also be provided.

(d) Fittings for Ventilators

- | | | |
|------------------|--------------------------------------|--------|
| (a) Central Hung | i. Fin - Light pivots (sets) | 2 Nos. |
| | ii. Fanlight catches | 1 No. |
| (b) Bottom Hung | i. Fanlight catches | 1 No. |
| | ii. Chain with hook | 1 No. |
| | iii. Butt hinges 80 X 25 X 1.50 mm | 2 Nos. |
| (c) Top Hung | i. Fanlight catches | 1 No. |
| | ii. Eyes and hooks 25 mm long S.W.G. | 2 Nos. |
| | iii. Butt hinges 80 X 25 X 1.50 mm | 2 Nos. |

73. Appendix, Notice inviting Tender, Abstract of cost and additional special conditions to water supply & sanitary installation and Electrical, shall form part of special conditions.

Preparation of Running and Final Bills:

The Civil Engineer/Superintending/Junior Engineer shall take measurements in presence of contractors representative and record them in Measurement Book from time to time and shall prepare abstract for running and final bill including recovery statements. The bill abstract shall be prepared on either standard CPWD form or on contractors letter head, on basis of Civil Engineer's abstract in triplicate. The contractor should sign the bill and Measurement Book with remark "Measurement and bill accepted". However in the final bill, the contractor shall have to certify, the bill accepted in full and final settlement of all claims and demands against this work".

In case, a large amount is blocked in the final bill, pending technical/ audit check, advance up to the extent of 75% of net final amount may be paid to the contractor. With the approval of the Architect/ Engineer at his discretion even after the completion date is over.

74. Bitumen/ tar felting:

The items of Bitumen / Tar felting should be executed through approved specialist firms, agencies and a guarantee of 10 years should be given in the name of Director of Laboratory Institute where the work is to be executed from a Specialist firm doing work. His security deposits shall be released after a guarantee bond is received and after defect liability period as given in the appendix.

75. The contractor, at his own cost shall arrange for carryout all mandatory tests on materials to be used in the construction, listed in Annexure, and such other test which Architect may require him to carry out.

ANNEXURE- I

LETTER OF TRANSMITTAL

Request for Eligibility

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

Ref.No. **CSIR_IICB / Admn 26 (947) / E / 2026**

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 hereby also declare that I/we have not any track record of litigation / arbitration cases and / or have not been imposed levy of compensation for committing delay in completing works in the organizations as stipulated in the Notice Inviting Tender.

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 at any stage of tendering.

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 bankbranch..... vide DD/Pay Order No..... as well as 'Cost of Tender' amounting to Rs.....from scheduled bankbranch..... 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:

ANNEXURE-II

Bid-Securing Declaration Form
(required for exemption of EMD)
[To be submitted by the firm in their letter Head]

Date:

Tender No.: **CSIR_ICB / Admn 26 (947) / E / 2026**

To,
The Director
CSIR-Indian Institute of Chemical Biology (IICB)
4, Raja S. C. Mullick Road,
Jadavpur
Kolkata – 700 032.

Name of the Work: **Day to day civil repairing, refurbishing and maintenance work of the Institute buildings and different labs of the Institute at CSIR-IICB, Kolkata.**

Sir,

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signature of Tenderer with Date & Seal

ANNEXURE-III

Self Certification/Declaration

[To be submitted by the firm in their letter Head]
(Certificate is to be addressed to the Director, CSIR-IICB)

[Certificate is being provided in line with Government of India (GOI) Public Procurement Order No. P-45021/2/2017-BE-II dated 15.06.2017, P-45021/2/2017-PP (BE-II) dated 28.05.2018, P-45021/2/2017-PP (BE-II) dated 29.05.2019, P-45021/2/2017-B.E.II dated 04.06.2020 and P-45021/2/2017-PP (BE-II) dated 16.09.2020 regarding "Public Procurement (Preference in Make in India), order 2017-Revision"]

To

The Director
CSIR-Indian Institute of Chemical Biology (IICB)
4, Raja S. C. Mullick Road,
Jadavpur
Kolkata – 700 032.

Sir

We have read and understood the GOI notification No. P-45021/2/2017-B.E.II dated 04.06.2020 & "P-45021/2/2017-PP (BE-II) dated 16.09.2020 regarding "Public Procurement (Preference in Make in India), order 2017-Revision" and other orders as mentioned above issued by Department of Commerce and Industry. Accordingly, we certify/declare the followings against IICB's Enquiry No. dated.....

- (i) Offered item pertains to (Name of the make/Model – to be filled by the supplier)
- (ii) (a) M/s. (Name of the supplier) is local supplier meeting requirement of minimum local content (50%) defined in as above order (Class-I local supplier).

OR

- (b) M/s. (Name of the supplier) is local supplier meeting requirement of minimum local content (20%) defined in as above order (Class-II local supplier).

[Local content means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent]

- (iii) Details of location at which local value addition has been made/being made is as follows:-

.....
.....

- (iv) We also understand, false declaration will be breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature of Tenderer with Date & Seal