



No./NITRR/EE/EO/Tender/2018/

0025

Raipur, Dated : 26 /06/2018

NOTICE INVITING TENDER (1st Call)

Tenders are invited by the REGISTRAR, NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR. For the under mentioned work from the eligible registered contractors with CPWD /PWD or any State or Central Govt. Undertaking Organization.

S. No.	Name of Work	Estimated amount put to tender	EMD	Time limit for completion	Cost of Tender Form (Rs.)	Last date & time for submission of sealed tender form
1	2	3	4	5	6	8
01	Construction of Extended part of Industrial Engineering Lab in Mechanical Engg. Department of NIT Raipur	<u>Estimated Cost</u> 2415523/-	48310/-	90 Days	1180/-	17/07/2018 Upto 1500 Hrs.

The blank tender document may be downloaded from website <https://eprocure.gov.in/cppp/> and from website [www. nitrr.ac.in](http://www.nitrr.ac.in), however, the cost of tender document (in the form of DD/Bankers Cheque) payable to “Director NIT Raipur”) to be enclosed with the technical bid

The Sealed tender documents super-scribed with name of the work and tender inquiry no. to be submitted / forwarded to the Registrar, NIT Raipur. The last date of submission is **17/07/2018 up to 1500 Hrs.** and the tender will be opened in the office of Dean (P&D) on same day **17/07/2018 at 1600 Hrs.**

The bid should be submitted in two bid system i.e. technical bid & price bid. Each bid will be submitted in separate envelop. The Technical bid must contain EMD & cost of tender document form (as per tender T&C) failing which, the bid submitted by the bidder shall be treated as cancelled & price bid for the same will not be opened. The bidder should read the tender document and sign on each page of tender document during submission of tender.

NOTE: - Please Quote separately for each tender enquiry mentioning the tender enquiry no. On the top of the envelope.

C.c To:

1. P.S. To Director, NIT, Raipur.
2. Dean (P&D).
3. AR (F&A) NIT Raipur.
4. Web Master, for uploading Tender.
5. Prof. (I/c) Estate Office (Civil).
6. Estate Office for Notice Board
7. Executive Engineer Estate Office, NIT Raipur
8. SPO for Advertisement.
9. Executive Engineer, CPWD Office, for Notice Board.

Sd-

Registrar



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Raipur, Dated : 26 /06/2018
N.I.T., Raipur (C.G.)

NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR

DETAILED TENDER NOTICE TO CONTRACTORS

Sealed Tenders for work of: - Construction of Extended part of Industrial Engineering Lab in Mechanical Engg. Department of NIT Raipur. Forms are invited by the Registrar N.I.T. RAIPUR from the Registered Contractors of eligible class of CPWD, Public Works Department of Chhattisgarh State, or any other government agencies for the said work. Estimated cost noted against the work. The Tenders which would be in sealed covers addressed to the Registrar, N.I.T. Raipur with the name of work written at the top of envelop will be received on or before **17/07/2018 up to 1500 Hrs (I.S.T.)** in the office of **The Registrar N.I.T. Raipur** and will be opened on **17/07/2018 at 1600 Hrs p.m. hours** in the presence of bidders or their authorized agents who may choose to be present. Any amendment/ corrigendum / pre bid conference shall be notified if required to the website mentioned in the tender document (please see page 1) from time to time. The bidder should keep in touch with the website to get recent updates of the said tender.

TENDER PROCEDURE:-

1. Manner of Submission of Tender:-

Tender to be submitted in two separate sealed envelopes

The Tenderer shall submit the tender and documents in two sealed envelopes as below.

1.1 Technical Bid:

The first envelope clearly marked, as “**Technical Bid**” shall contain the following documents.

- 1) Certificate as registered contractor with the CPWD / PWD of Govt. of Chhattisgarh, or any government /Semi. Govt. agencies as may be applicable.
- 2) PAN No of the firm
- 3) GST Registration certificate copy.
- 4) Demand Draft/FDR of any Nationalised Scheduled Bank for the amount of earnest money.
- 5) Details of other works tendered for and in hand with the value of work unfinished on the last date of submission of tender (Copy of latest Work Order issued by other Govt. Department). The certificate from the Heads of the Officers under whom the works are in progress should be enclosed.
- 6) Attested copy of partnership deed / memorandum and articles of association, as the case may be if the tenderer is a partnership firm or joint work company.



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- 7) Should have a solvency of 40% of estimated cost issued by his bankers. The solvency certificate should be issued after 31.03.2018.
- 8) Attested copy of license having registered with Asstt. Commissioner of Labour as required as per Contract Labour (Regulation Abolition). Act of 1970 and Chhattisgarh Contract Labour (Regulation and Abolition) Rules of 1971.
- 9) Power of attorney on behalf of firms issued in the name of person/s authorized to sign agreements / bills etc. and collect cheques from N.I.T. Raipur for the work done as applicable.
- 10) Certificate of Work Experience.
 - (i) Three similar works, each of value not less than 40% of the estimated cost put to tender, or
 - (ii) Two similar works, each of value not less than 50% of the estimated cost, or
 - (iii) One similar work of value not less than 80% of the estimated cost, all amounts rounded off to a convenient full figure. The work experience should be within the last 5 years calculated from the last date of submission of tender.
- 11) Annual Turnover certificate with Minimum Annual turnover should be 30% of the estimated cost of tender.

The Definition of similar work is any Civil work related to:- Building construction work of Government residential /non residential buildings/Institutional buildings or any other buildings or civil work related to Renovation/ up gradation of any Government residential/non residential building / Institutional building . (Experience certificate should be certified by the officer not below the rank of Executive Engineer or equivalent.)

1.2 Price Bid Tender :

The second envelope clearly marked “Price Bid” shall contain only the main tender including the common set of conditions / stipulations issued by the Department after the pre-tender conference. A tender submitted without this would be considered as invalid.

1.3 Submission of Tender :

The two sealed Technical and Price Bid shall be again put together in one common cover and sealed. This sealed cover shall be marked on the left hand top corner ‘**Tender for the work of Construction of Extended part of Industrial Engineering Lab in Mechanical Engg. Department of NIT Raipur**’. The full name and address of the tenderer shall be written on the bottom left hand corner. If submitted by post the



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sealed envelope marks as above shall be enclosed in another cover properly addressed and shall be sent by registered Post Acknowledgement Due.

1.4 Pre-Bid Conference:

There shall be a pre-bid conference in which the doubts of the intending tenders shall be, clarified, besides discussions on and additional suggestion proposed by the tenderes. If found necessary, corrigendum to the tender documents would be issued to all the intending tenderes, and thereafter no further query/condition shall be entertained.

1.5 Opening of Tenders :

On the date specified in tender notice following procedure will be adopted for opening of the tender

1.6 Technical Bid: {Envelop – A}

First of all, Technical Bid of the tender will be opened to verify its contents as per requirements. If the various document contained in this envelope do not meet the requirements of the Department, a note will be recorded accordingly by the tender opening authority and the said tenders Envelope B will not be considered for further action and the same will be recorded.

1.7 Price Bid: {Envelop – B}

This Envelope shall be opened after evaluation of the Envelope A only, if contents of Envelope A are found to be acceptable to N.I.T. Raipur. The tendered rates in percentage above / below the estimated rates shall then be read out.

2) Earnest Money:

As per the enclosed statement Earnest money should be paid in the form of DD/FDR in name of the Director, N.I.T. Raipur from Nationalised / Scheduled banks, described as earnest money of the tender to the above work and the receipt challan should be enclosed with the tender. Earnest money in the form of cheque or cash of interest bearing security will not be accepted. The Earnest money will be refunded in case the tenders are not accepted. In case of successful tenders the Earnest money will be refunded after recovering initial security deposit and completion of contract documents by the Tenders. The amount of Earnest money will be forfeited by N.I.T. Raipur in case the successful contractor does not pay the amount of initial security Deposit within the specified time limit.

3) Security Deposit:



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3A- The security deposit shall be collected by deduction from the running bill of the contractors at the rate mentioned below, and the earnest money that is deposited at the time of tender, shall be treated as part of the security deposit. The security deposit can also be deposited in cash or in the form of Government Securities, Fixed Deposit Receipts. etc. Earnest money shall be adjusted first in the security deposit and further recovery of security deposit shall commence only when the upto date amount of security deposit starts exceeding the earnest money.

3B- A sum @5% 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 amounts to security deposit@ 5% of the tendered amount of the work. Such deductions shall be made unless the contractor has deposited the amount of security at the rate mentioned in cash or Government Securities or Fixed Deposit Receipts.

4) Time Limit:

The work is to be completed within the time limit as specified in the enclosed statement, which shall be reckoned from the date of written order commencing the work and shall be inclusive of monsoon period.

5) Tender Rate:

No alteration in the form of tender and the schedule of tender and no additions in the scope of stipulation will be permitted. Rates quoted for the tender shall be taken as applicable to all leads and lifts.

6) Correction:

No corrections shall be made in the tender documents. Any corrections that are to be made by crossing the incorrect portion and writing the correct portions above shall bear the initials of tenders

7) Tender's Acceptance:

Acceptance of tender will rest with the Director, N.I.T. Raipur who reserves the right to reject any of all tenders without any reasons. The tender whose tender is accepted will have to enter into a regular agreement within 15 days or being notified to do so. In case of failure on the part of Tenders to sign the agreement within the stipulated time, the earnest money paid by him shall stand forfeited by the N.I.T. Raipur and the offer of the tender shall be considered as withdrawn by him.

8) Conditional Tender:

The tenders which do not fulfil the conditions of the notification and the general rules and directions for the guidance to contractor in the agreement form or are incomplete in any respect are likely to be rejected without assigning any reason therefore.

12) Drawing Specifications and Quarries



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- (a) The Tenders shall be presumed to have carefully examined the drawings, conditions and specifications of the work and have fully acquainted themselves with all details of the site, the conditions of rock and its joints, pattern, river, weather characteristics labour conditions and in general with all the necessary information and data pertaining to the work, prior tendering for the work.
- (b) The data whatsoever supplied by the Department along with the tender documents are meant to serve only as guide to the tenders while tendering and the Department accept

Power of Attorney

If the tenders are firm of company, they should in their forwarding letter mention the names of all the partners together with the name of the person who holds the Power of Attorney authorizing him to conduct all transactions on behalf of the body, along with the tender.

- 13) The tenders may in the forwarding letter mention any points he may wish to make clear but right is reserved to reject the same of the whole of the tenders if the same become conditional tender thereby.
- 14) The contractors of the firms tendering for the work shall inform N.I.T. Raipur if they appoint their authorized agent on the work.
- 15) Due to non-availability of foreign exchange no foreign exchange will be released by N.I.T. Raipur for the purchase of Plants and Machinery for the work by the Contractor.
- 16) Any dues arising out of contract will be recovered from the contractor as arrears of Land Revenue if not paid amicably. Moreover, recovery if N.I.T. Raipur dues from the contractor will be effected from the payment due to the Contractor from any other N.I.T. Raipur works under execution with them.
- 17) All pages of tender documents, conditions, specifications corrections slips etc. shall be initiated by the tenderer. The tender should bear full signature of tender, or his authorized power of Attorney holder in case of firm.
- 18) The income tax including surcharge in force from time of at the rate as intimated by the competent Income Tax authority shall be deducted from bill amount.
- 19) **Validity Period :**
The offer shall remain open for acceptance for minimum period of **90 days** from the date fixed for opening the same and thereafter until it is withdrawn by the contractor by notice in writing duly addressed to the Director, N.I.T. Raipur and sent by Registered Post Acknowledgement due.
- 20) The tendered rates/ quoted rate by the bidder shall be inclusive of all taxes & liabilities.
- 21) The Water consumption charges for the work will be recovered @ 1% of the billed amount from the contractor's bill, if it is supplied by the institute.



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22) The Electricity consumption charges for the work will be recovered as per actual from the contractor's bill, if it is supplied by the institute.

23) Performance Security

- a. Within 21 days of receipt of the Letter of Acceptance, the successful Contractor shall deliver to the Employer a Performance Security in any of the forms given below for an amount equivalent to 5% of contract price.
 - i) A bank guarantee in the appropriate form or
 - ii) Bank draft/FDR in Favour of Director, N.I.T. Raipur payable at Raipur.
- b. If the performance security is provided by the successful Contractor in the form of a Bank Guarantee, it shall be issued either (a) at the Contractor's option, by a Nationalized / Scheduled Bank.
- c. Failure of the successful Contractor to comply with the requirements shall constitute a breach of contract, cause for annulment of the award, forfeited of the bid security, and any such other remedy the Employer may take under the and the Employer may resort to awarding the contract to the next ranked Contractor.

Contractor

Registrar
N.I.T. Raipur



NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR

Name of work: Construction of Extended part of Industrial Engineering Lab in Mechanical Engg.
Department of NIT Raipur.

PERCENTAGE RATE FOR WORK

General rules and directions for the guidance of contractors:

1. All work proposed to be executed by contract shall be notified in a form of invitation to tender pasted on a board hung up in office of the Estate office (Civil) and signed by the DIRECTOR, N.I.T. Raipur. The form will state the work to be carried out as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender and the amount of security deposit to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. It will also state whether a refund of quarry fees, royalties, and ground rents will be granted. Copies of the specifications, designs and drawings and estimated rates, scheduled rates and other documents required in connection with the work which will be signed by the Professor In charge (Estate office, Civil) for the purpose of identifications shall also be open for inspection by contractors at the office of the estate office civil division during office hours.
2. In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof, and in the event of the absence of any partner it shall be signed on his behalf by a person holding a power of attorney authorizing.

Where the works are proposed to be executed according to the specifications recommended by a contractor and approved by a competent authority on behalf of N.I.T. Raipur. Specifications with design and drawings shall form part of the accepted tender.

- i) The contractor shall pay Earnest money along with the Tender. The contractor may pay the said amount by forwarding along with the tender a DD for the said amount for a period



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of one year issued a Nationalised / Scheduled bank in the name of Director, N.I.T. Raipur.

The said amount of earnest money shall not carry any interest whatsoever.

- ii) In the event of his tender being accepted, subject to the provision of sub clause (iii) below, the said amount of earnest money shall be appropriated towards the amount of security deposit, payable by him under condition of General Conditions of Contract.
- iii) If after submitting the tender the contractor withdraws his offer or modifies the same or if after the acceptance of his Tender, the contractor fails or neglects to furnish the balance security deposit, without prejudice to any other rights and powers of N.I.T. Raipur or in law N.I.T. Raipur shall be entitled to forfeit the full amount of earnest money deposited by him.
3. Receipt for payments made on account of any work, when executed by a firm, should also be signed by all partners, except where the contractors are described in their tender as a firm, in which case the receipts shall be signed in the name of the firm by one of the partners, or by some other person having authority to give effectual receipts for the firm.
4. Any person who submits a tender shall fill up the usual printed form including the column total according estimated quantities stating at what rate he is willing to undertake each work specified in the said form if invitations to tender, or in the time allowed for carrying out the work, or which contains any other conditions of any sort, will be liable to rejection. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit a separate tender for each. Tender shall have the name and the number of work to which they refer written outside the envelope.
5. The Chairman tender opening committee (civil)) will open tenders in the presence of any intending contractors who may be present at the item and will enter the amount of several tenders in a comparative statement in a suitable form. In the event of tender being accepted, the contractor shall thereupon, for the purpose of identification, sign copies of the specifications and other documents mentioned in Rule 1. In event of a tender being rejected, the authority shall refund the amount of earnest money deposited by the contractor making the tender, on his giving a receipt for the return of the money.
6. The Director / Officers competent to dispose of the tenders shall have the rights of rejecting any or all of the tenders.
7. No receipt for any payment alleged to have been made by a contractor in regard to any matter relating to this tender or the contract shall be valid and binding on N.I.T. Raipur unless it is signed by the competent authority of NIT Raipur.



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8. All works shall be measured net by standard measure and according to the rules and customs of the CPWD without reference to any local custom.
 9. Under no circumstances shall any contractor be entitled to claim enhanced rates for any items in this contract.
 10. The measurement of work will be taken according to the usual method on the CPWD and no proposal to adopt alternative methods will be accepted. The competent authority's decision as to what is "the usual method in use in Central Public Works Department" will be final.
 11. The tender will be liable to be rejected. If while submitting if, the tendered of in the case of a firm, each partner thereof does not sign or the signature/signatures is /are not attested by a witness on page 11 of the tender in the space provided for the purpose.
 12. Every tendered shall submit along with the tender information regarding the income tax circle of ward of the district in which he is assessed to income tax, the reference to number of the assessment and the assessment year.
 13. The contractor will have to construct shed for storing controlled and valuable materials issued to him under Schedule 'A' of the agreement. The materials will then be taken for use in the presence of the departmental person. No materials will be allowed to be removed from the site of works.
 14. The tendering contractor should furnish a detailed statement of works in hand, showing the costs of works in hand, the works completed against each with certificate from head of the office concerned.

GENERAL SPECIFICATION FOR CIVIL WORKS

1. Except for the items, for which particular specifications are given or where it is specifically mentioned otherwise in the description of items in the schedule of quantities the work shall generally be carried out in accordance with the "CPWD specifications 2009 Vol. 1 and Vol. 2 (with upto date corrections slips). (Hereinafter to be referred to as CPWD specifications) and instructions of Engineer-in-Charge. Wherever CPWD specifications are silent the latest IS codes/specification shall be followed.
2. The order of preference in case of any discrepancy as indicated in condition No. 8.1 under "Conditions of Contract" give in standard CPWD contract form may be read as the following:
 - i) Nomenclature of items as per schedule of quantities.
 - ii) Particular specification and special condition, if any.
 - iii) CPWD specifications.
 - iv) Architectural Drawings
 - v) Indian standard specifications of B.I.S.
 - vi) Sound Engineering Practice



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A reference made to any Indian Standard specification in these documents, shall imply to the latest version of that standard. Including such revision/amendments as issued by the bureau of Indian standard upto last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian standard applicable to the work at site.

3. The proposed building is a prestigious project and quality of work is paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like stone masonry & stone cladding works, stone flooring, structural glazing, PVDF coating aluminium composite panel and other specialised flooring work, Wood work will specially require engagement of skilled workers having experience particularly in execution of such items.
4. Samples of all materials and fittings to be used in the work in respect of brand manufacturer and quality shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work. Articles bearing BIS certifications mark shall only be used unless no manufacturer has got BIS mark for the particular material. Any material/fitting whose sample has not been approved in advance and any other unapproved material brought by the contractor shall be immediately removed as soon as directed.
5. The contractor (s) shall quote all inclusive rates against the items in the schedule of quantities and nothing extra shall be payable for any of the conditions and specifications mentioned. In the tender documents unless specifically specified otherwise.
6. Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping/baling out water, if necessary, for which no extra payment shall be made. Those conditions shall be considered to include water from any source such as inflow of flood, surface and sub-soil water etc. and shall apply to the execution in any season.
7. The rate for all items in which the use of cement is involved is inclusive of charges for curing.
8. The foundation trenches shall be kept free from water while works below ground level are in progress.



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Contractor

Registrar
N.I.T. Raipur

TENDER OF WORKS

I / We _____ hereby tender for the execution, for the National Institute of Technology, Raipur (hereinbefore and hereinafter referred to as N.I.T. Raipur) of the works specified in the under memorandum within the time specified in such Memorandum showing items of work to be carried out) and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to the annexed conditions of contract and agree that when materials for the work are provided by N.I.T. Raipur such materials and the rates to be paid for them shall be as provided in Schedule 'A' hereto.

MEMORANDUM

a) General Description	_____
b) Estimated cost	Rs. _____
c) The amount of earnest money to be deposited while submitting the tender	Rs. _____
d) Security Deposit payable on account of tender.	
I. Adjustment of earnest money towards security deposit	Rs. _____
II. To be paid in D.D. Within 10 days from the date of receipt of intimation of acceptance of tender.	Rs. _____
III. To be deducted from current running on account bil @5% or maximum	Rs. _____



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	Total Rs. -----

e) Time allowed for the work from the date of written order to commence _____ months	Should this tender be accepted I/We _____ hereby agree that this offer shall remain open for acceptance for a minimum period of 120 days from the day fixed for opening the same and thereafter until it is withdrawn by us / by notice in writing duly addressed to the Director N.I.T. Raipur opening the tenders and sent by registered post A.D. or otherwise delivered at the office of such authority DD No. _____ dated _____ in receipt of sum of Rs. _____ representing the earnest money is herewith liable to be forfeited to N.I.T. Raipur Should I / We fail to (1) abide stipulation to keep the offer open for the period mentioned above (2) sign and complete and the contract documents required by the engineer and furnish the security deposit it as specific in item (d) of memorandum contained in paragraph I above within the time limit laid down in clause (i) of the annexed general conditions of the contract. The amount of earnest money may be adjusted towards the security deposit or refunded to me / us if so desired by me / us in writing unless the same or any part of thereof has been forfeited as aforesaid.
	Signature of Contractor Before Submission of tender
Address of Contractor	
Date the _____ day of _____	
	Signature of witness to contractors Signature



राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
(Institute of National Importance)
G.E. Road, Raipur – 492010 (C.G.)

Phone: (0771) 225 42 00
Fax: (0771) 225 46 00
Email: director@nitrr.ac.in
Website: www.nitrr.ac.in

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Address of Witness		
Occupation		

I hereby accept the above tender on behalf of N.I.T. Raipur.

Signature of Officers
by whom accepted

Dated

Registrar
NIT Raipur (C.G.)



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PRICE SHEDULE

SCHEDUL-A CIVIL WORK

REGARDING CIVIL WORKS IN IM-LAB, AT NITRR.

Sl. No	DSR-2016 Item No.	Description & Item Specification	Unit	Rate	Appro x. Qty.	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan). Including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	Cum	166.40	58.32	9704.45
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidation earth deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	125.75	36.00	4527.00
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidation and dressing complete.	Cum	917.75	50.00	45887.50
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				



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	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 nominal size).	Cum	4927.00	12.10	59616.70
5	4.10	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4graded stone aggregate 12.5mm nominal size).	Sqm	263.10	11.74	3088.79
6	5.9	Centering and shuttering including strutting, propping etc. and removal of form for all heights:				
	5.9.1	Foundations, footings, busses of columns, etc. for mass concrete .	Sqm	193.95	17.28	3351.46
	5.9.3	Suspended floors, roofs, landing, balconies and access platform.	Sqm	422.30	105.00	44341.50
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	342.90	155.00	53149.50
	5.9.6	Columns, pillars, piers, abutments, posts and struts.	Sqm	467.85	125.00	58481.25
7	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
	5.22.5	Hard drawn steel wire fabric.	Kg	71.30	2568.00	183098.40
8	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
	5.22A.2	Hard drawn still wire.	Kg	66.70	3150.00	210105.00
9	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering , shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS : 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge "(Note :- Cement content considered in this item is @ 330 kg/cum. " Excess/ less cement used as per design mix is payable/ recoverable separately).				
	5.33.1	All works upto plinth level.	Cum	6446.45	32.00	206286.40
	5.33.2	All works above plinth level upto floor V level.	Cum	7250.05	34.99	253679.25
10	6.32	Brick work with clay fly ash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :				



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	6.32.1	Cement mortar 1:4 (1 cement : 4 coarse sand).	Cum	5487.70	50.00	274385.00
11	8.11	Providing and fixing machine cut, mirror/eggshell polished, Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-charge.				
	8.11.1	18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	Sqm	6647.35	37.00	245951.95
12	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	9.1.1	Second class teak wood.	Cum	92743.05	0.10	9274.31
13	9.7	Providing and fixing paneling or paneling and glazing in paneled or paneled and glazed shutters for doors, windows and clearstory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Paneling for paneled or paneled and glazed shutters 25 mm to 40 mm thick:				
	9.7.1	Second class teak wood.	Sqm	2037.05	6.52	13281.57
14	9.72	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete:				
	9.72.1	125x85x5.5 mm (heavy type).	Each	205.95	16.00	3295.20
15	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete:				
	9.74.3	150x10 mm.	Each	193.45	4.00	773.80
16	9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete:				
	9.75.1	300x16x5 mm.	Each	227.05	2.00	454.10
17	9.78	Providing and fixing bright finished brass night latch of approved quality including necessary screws etc. complete:	Each	794.55	2.00	1589.10
18	9.81	Providing and fixing bright finished brass handles with screws etc. complete:				
	9.81.1	125 mm.	Each	171.20	8.00	1369.60
19	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	Each	85.85	4.00	343.40



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20	10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitered and welded, including fixing of necessary butt hinges and screws and applying coat of approved steel primer.				
	10.13.2	Fixing with carbon steel galvanized dash fastener of required dia and size (to be paid for separately).	Kg	70.45	268.00	18880.60
21	11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS : 15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of Joints (Payment for grouting of joints to be made separately).				
	11.49.2	Size of Tile 600x600 mm	Sqm	1169.55	112.00	130989.60
22	12.45	Providing and fixing False Ceiling at all height including Providing and fixing of frame work made of special Section, power pressed from M.S. sheet and galvanized in accordance with zinc coating of 120 gms/sqm (both side inclusive) as per IS:277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 27 mm and 37 mm at 1200 mm centre to centre one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x 10x 0.50 mm of required length, with nuts & bolts of reand other end of angle hangers being fixed with nut bolts of required size and other end of angle hanger fixed with intermediate G.I. Channels 45x15x0.9mm running at the Specing of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having lips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing Perimeter channels 0.5 mm thick 27 mm high having flanges of 20mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the helo of dry wall screws of size 3.5 x				



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		25mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in charge but excluding the cost of painting with :				
	12.45.3	12.5 mm thick tapered edge gypsum moisture resistant board.	Sqm	958.65	125.00	119831.25
23	13.1	12 mm cement plaster of mix :				
	13.1.2	1:6 (1 cement : 6 fine sand).	Sqm	160.35	446.00	71516.10
24	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.48.1	Two or more coats applied on walls @ 1.25 ltr./10 sqm over and including one coat of Special primer applied @ 0.75 ltr./10sqm.	Sqm	98.95	446.00	44131.70
25	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	13.61.1	Two or more coats on new work.	Sqm	78.40	20.00	1568.00
26	13.26	Providing and applying plaster of Paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	118.70	446.00	52940.20
27	15.7	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.				
	15.7.4	In cement mortar.	Cum	842.75	11.00	9270.25
28	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
	15.12.1	Of area 3 sq. metres and below.	Each	157.85	2.00	315.70



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29	21.1	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 junction, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, stright, mitered 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 th directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.2	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).				
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron).	Kg	444.90	128.00	56947.20
30	21.3	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) :				
	21.3.1	With float glass panes of 4.0 mm thickness.	Sqm	741.50	13.50	10010.25
Total Amount Rs. =						2202436.07

SCHEDULE - B (ELECTRICAL WORKS)

New Wiring Work for (I. M. LAB) at Department of Mechanical.

Sl. No.	DSR Item No. 2014	Description of Item	Unit	Rate	Qty	Amount (Rs.)
Section –I (Wiring)						



No./NITRR/EE/EO/Tender/2018/ 0025 Raipur, Dated : 26 /06/2018

1	1.1	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.				
	1.10.2	Group B	Point	615.00	25	15375.00
	1.10.3	Group C	Point	757.00	10	7570.00
2	1.7	Circuit/sub-main wiring in steel conduit: Wiring for circuit /sub-main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed steel conduit as required.				
	1.7.2	2 X 2.5 sq.mm + 1 X 2.5 sq.mm earth wire	Metre	206.00	150	30900.00
	1.7.3	2 X 4 sq.mm + 1 X 4 sq.mm earth wire	Metre	237.00	100	23700.00
3	1.24	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate. Etc. as required.				
	1.24.1	5/6 amps switch	Each	84.00	30	2520.00
	1.24.3	15/16 amps switch	Each	114.00	15	1710.00
	1.24.4	3 pin 5/6 amp socket outlet	Each	81.00	30	2430.00
	1.24.5	6pin 15/16 amp socket outlet	Each	153.00	15	2295.00
4	1.27	S/F modular boxes, base & cover plate : Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
	1.27.6	12 Module (200mm X 150mm)	Each	344.00	12	4128.00
5	1.33	Supplying and fixing 3 pin 5amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	46.00	35	1610.00
6	1.45	Installation testing commissioning of ceiling fan including wiring down rod of slandered length (up to 30 cm) with 1.5 sqmm FRLS PVC insulated copper conductor single core cable including providing and fixing phonemic laminated sheet cover on the fan box etc as required	Each	132.00	12	1584.00
7	1.48	Supplying and fixing extra down rod of 20 cm length 15mm dia heavy gauge including painting etc as required.	Each	25.00	24	600.00

Section –II (MCCB,MCB & DB'S)



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8	2.4	Supplying and fixing following way, horizontal type three pole and neutral. Sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Each			
	2.4.1	4 Way (4+12), Double Door	Each	2198.00	1	2198.00
9	2.10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.10.1	Single pole	Each	173.00	12	2076.00
	2.10.5	TPN	Each	891.00	1	891.00
10	2.18	Supplying and fixing 20 amps, 240 Volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps. "C" Curve, SPMCB, in sheet still enclosure, of surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	980.00	4	3920.00
Section –III (Earthing)						
11	5.6	Earthing with copper earth plate 600mm x 600 mm x 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/coke and salt as required.	Set	8289.00	2	16578.00
12	5.14	Providing and fixing of 25mm x 5mm copper strip on surface or in recess for connections etc. as required.	Metre	698.00	10	6980.00
13	5.17	Providing and fixing 4mm dia copper wire on surface or in recess for connections etc. as required.	Metre	87.00	40	3480.00
Section –V (Non DSR Item)						
14	Market Rate	Supplying and installation testing commissioning of energy efficient five star ceiling fan make - CG, Havells, Usha ,Bajaj				
	(a)	Size - 1400 mm sweep , 350 rpm , 3 blade	Each	3067	12	36804.00
15	Market Rate	Supplying and installation testing commissioning of panel light LED type with all fitting accessories (Make - CG, Havells, Philips,Bajaj				
	(a)	Size -(300 x 300mm) , 18watt ,	Each	2541	18	45738.00
Estimated Cost						213087.00



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0025

Raipur, Dated : 26 /06/2018

Tender cost of SEC-A + SEC-B

2415523.00

I/We hereby agree to carry out above work (in figure) % **Above/Below**

(in words) % Above/ Below (in words) at rates given.

Seal & Signature of contractors

Date.....

Place.....