

**INDIAN INSTITUTE OF ASTROPHYSICS  
2<sup>nd</sup> BLOCK, KORAMANGALA, SARJAPUR ROAD,  
BANGALURU – 560034.**

## **TENDER DOCUMENT**

***Name of Work:* Construction of additional floors over binding unit/carpentry and canteen building at I.I.A, Bangalore.**

**Tender Notice No.14 /IIA/CIVIL/BNG/CANTEEN & BIDNING/2014-15 Dated 13 .02.2015**

**INDIAN INSTITUTE OF ASTROPHYSICS**

**Ph.080-2554 1200/1259/1359 , Fax: 25534043**

**Website: [www.iiap.res.in](http://www.iiap.res.in), E-mail: [astron@iiap.res.in](mailto:astron@iiap.res.in)**



**INDIAN INSTITUTE OF ASTROPHYSICS**  
**2ND BLOCK, KORAMANGALA, SARJAPUR ROAD,**  
**BANGALORE-560 034**

**TENDER NOTICE NO: 14 /IIA/CIVIL/BNG/CANTEEN & BIDNING/  
2014-15 Dated 13 .02.2015**

The Director, Indian Institute of Astrophysics invites sealed item rate tenders in the prescribed form for the following work from appropriate registered contractors in state PWD, CPWD, MES, Scientific institutions and private body contractors who have executed works of similar nature.

| Sl. No. | Name of the work   | Estimated cost in Rs. | Time for completion | EMD Rs.  | Cost of tender document |
|---------|--|-----------------------|---------------------|----------|-------------------------|
| 1.      | <b>Construction of additional floors over binding unit/carpentry and canteen building at I.I.A, Bangalore.</b> | 33.80<br>Lakhs        | 6 Months            | 70000.00 | 500=00                  |

The Tender Document can be viewed and downloaded from our website [www.iiap.res.in/tenders.htm](http://www.iiap.res.in/tenders.htm). The interested tenderers may at their option download the same, as **“NO” hard copies of Tender document shall be provided from this office** and submit their offers along with EMD (refundable) & Tender fee (non-refundable) prescribed therein, only in the form of Demand Draft drawn in favour of Director, IIA.

The Offers containing complete tender document duly filled with price (Bill of Quantities) and complete credentials including experience certificates should be submitted in sealed cover super scribing the envelope with **“Construction of additional floors over binding unit/carpentry and canteen building at I.I.A, Bangalore., Notice No. and due date”**, shall be submitted addressed to The Director, Indian Institute of Astrophysics, 2<sup>nd</sup> Block, Koramangala, Bangalore–560 034. **The last date of submission of bid is 06.03.2015 on or before 3:00 pm.** The bids will be opened at **3.30 pm.** on the same day in the presence of attending tenderers or their authorized representatives.

2. The firms who fulfil the following requirements shall be eligible to submit their Bids. Joint ventures are not acceptable.

- (1) Tendering Company shall be professionally managed and resourceful for taking up similar jobs.
- (2) Tenderer should have completed atleast one similar single work for a minimum value of Rs.35.00 lakhs or two similar works of minimum value of Rs. 20.00 lakhs in the last 5 financial years (i.e., current year and four previous financial years)

3. Technical/Commercial/price Bids supported by the above information should be submitted in a Sealed envelope duly superscribed with the name of work, tender notice No., Last date of submission. The completed Bids will be received by this office **upto 15:00 Hrs. on 06.03.2015**. If any information furnished by the tenderers is found incorrect at a later stage, the firm shall be liable to be debarred from tendering and taking up of work in I.I.A. The Institute reserves the right to verify the particulars furnished by the tenderers.

5.The firms should submit their offers along with EMD/Tender fee of prescribed amount **upto 15:00 Hrs. Latest by 06.03.2015**. The bids will be opened on the same day in presence of the bidders or their authorized representatives **at 15:30 Hrs at I.I.A, Bangalore**.

6. Incomplete Technical Bids are liable for rejection.

7.Late & / delayed offer will not be considered.

8.IIA is not responsible for any delay / loss of documents in transit.

9. The Tenders will be opened on **06.03.2015 at 15:30 hours** in the presence of bidders or their authorized representatives. The representatives of the tenderers should bring authorization letter / identification while attending opening of tenders.

10. IIA reserves the right to reject any or all tenders without assigning any reasons.

**Administrative Officer  
IIA, Bangalore-34.**

**INDIAN INSTITUTE OF ASTROPHYSICS**

2<sup>nd</sup> Block, Koramangala, Bangalore-560 034

**TENDER NOTICE NO:14 /IIA/CIVIL/BNG/CANTEEN & BIDNING/ 2014-15**

**Dated 13 .02.2015**

M/s.

Dear Sirs,

The Director, Indian Institute of Astrophysics, Bangalore invites Sealed Tenders for the work of **“Construction of additional floors over binding unit/carpentry and canteen building at I.I.A, Bangalore..”**. The Tender Terms enclosed are also may be noted carefully. If you are in a position to quote for the work in accordance with the requirement, please submit your quotation in the attached Tender Form.

Your Tender must reach this office on or before the date and time indicated in the Tender Schedule.

Thanking you,

Yours faithfully,

Encl: as above.

**(P. Kumaresan)**  
Administrative Officer  
For Director

### 3. INSTRUCTIONS TO THE TENDERERS

1. The tenderers should submit the entire tender document with duly filled with price and technical details of the firm. All the pages of document shall be duly signed.
2. The Offers should be submitted in sealed envelope super scribed with “Tender for **Construction of additional floors over binding unit/carpentry and canteen building at I.I.A, Bangalore..**”, Notice No. and due date”.
3. If any clarification is required should be obtained before filling Tender Document.
4. If any discrepancy is there between figures and words for quoted rates, the lower of the two will be considered for the purpose of evaluation.
5. The tenderers who do not fulfill all or any of the tender conditions or if the tender is Incomplete in any respect, will be summarily rejected.
6. The Institute is not bound to accept the lowest tender.
7. Even though the Tenderers meet the above criteria, they are subject to be disqualified if they have (The Institute reserves the right to verify the particulars furnished by the tenderers.)
  - Made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirement, Conditional bid / proposal: and / or
  - Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.
8. Any effort by the contractor to influence the client in the bid evaluation, bid comparison or contract award decision results in rejection of the contractors bid.
9. Incomplete Technical Bids are liable for rejection. Commercial/price bids will be Considered for opening only for the Qualified Technical Bidders, which are recommended by the Technical evaluation committees being constituted for the purpose.
10. Late & / delayed offer will not be considered at all.
11. IIA is not responsible for any delay / loss of documents in transit.
12. No bids will be considered if prescribed Tender Fee and EMD is not found with Technical bids (Part I).

13. All overwriting and corrections shall be duly attested with stamp & signature.
14. Corrigendum's / modifications / corrections, if any, will be published in the website only.
15. The Director, Indian Institute of Astrophysics reserves the right to accept or reject the tenders in full or part without assigning any reason thereof.
16. Performance certificates of the completed works issued by the clients to be enclosed in the technical bid.
17. The committee constituted by the director may inspect the previously completed or the ongoing works of the bidders to assess their technical suitability for the tendered work.
18. All the pages of the tender document to be signed by the contractor and submit them in the respective sealed covers.
19. **All the bidders are requested to visit the site before quoting the rates. The complete document shall be read and understood in all respect. If any clarifications is required, the same may got cleared before submitting their offers in writing.**

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**INDIAN INSTITUTE OF ASTROPHYSICS  
2ND BLOCK, KORAMANGALA, SARJAPUR ROAD,  
BANGALORE – 560034.**

*Name of Work:* “Construction of additional floors over binding unit/carpentry  
and canteen building at I.I.A, Bangalore.”

**TENDER NOTICE NO: 14 /IIA/CIVIL/BNG/ CANTEEN & BIDNING/ 2014-15**  
**Dated 13 .02.2015**

Name of  
The Firm: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone No: \_\_\_\_\_

**Last date for submission: 06.03.2015 up to 3:00 PM.**

**FORMAT FOR SUBMISSION OF TECHNICAL & ORGANISATIONAL DETAILS.**

**NAME OF THE FIRM :**

**1. OFFICE SET UP OF THE FIRM**

1.1 Office Address : .....

1.2 Year of Establishment: .....

1.3 Contact Person Shri.....  
With Designation .....

Ph No.....

Fax No.....

E-mail.....

1.4 Details of registration if any: .....

1.5 Organizational setup of the firm  
Total staff strength both technical  
and Administration with their name, age  
qualification and experience :  
.....

1.6 Details of the staff as per the following format.

| Sl. No | Profession/discipline | Name | Age | Qualification | Experience (total years) | Field of experience |
|--------|-----------------------|------|-----|---------------|--------------------------|---------------------|
|        | Civil                 |      |     |               |                          |                     |
|        | Electrical            |      |     |               |                          |                     |



## **2 TENDERER'S EXPERIENCE**

Details of Works carried out and on hand during last five years with details such as name of work, year of completion, client name and address, cost of work, time period of construction, nature of work, etc., (It shall enclose a certificate from the owner that the service rendered by the firm has been satisfactory)

| Sl. No. | Name & description of work | Value of work and date. | Period of construction and date. | Client persons to whom reference may be made. |
|---------|----------------------------|-------------------------|----------------------------------|---|
|         |                            |                         |                                  |   |

**3.**

**TOOLS AND EQUIPMENT LIST**

The tenderer shall indicate herein below the equipment he has in possess and the equipment he proposes to bring to the site, in case the work is awarded to him.

| Sl. No | Type and Description of the equipment. | Numbers the bidder has in possession | Numbers he proposes to bring on to site |
|--------|--|--------------------------------------|---|
|        |  |                                      |   |

Tenderers hereby confirms that the quantity and type of tools he will employ for construction will not be less than those listed above and agree to bring more equipment if so warranted in the opinion of the Engineer-in-charge.

**4. FINANCIAL**

Bank Name: \_\_\_\_\_

Branch: \_\_\_\_\_

Account No.: \_\_\_\_\_

Average Annual Turnover for last 5 Years: \_\_\_\_\_

**6. INSURANCE**

Accident Insurance

Insured with: \_\_\_\_\_

Policy No.: \_\_\_\_\_

7. Details of Arbitration cases : .....

8. Any other detail you would like to intimate in support of your technical bid for appointment : .....

Signature of the authorized Person with seal of the firm

(Note: Attach separate sheet for furnishing information in case the space in the format is insufficient)

**INDIAN INSTITUTE OF ASTROPHYSICS  
2ND BLOCK, KORAMANGALA, SARJAPUR ROAD,  
BANGALORE – 560034.**

## **PRICE BID**

*Name of Work:* “*Name of Work:* “Construction of additional floors over binding unit/carpentry and canteen building at I.I.A, Bangalore.”

**TENDER NOTICE NO:** 14 /IIA/CIVIL/BNG/ CANTEEN & BIDNING/ 2014-15  
**Dated** 13 .02.2015

Name of  
The Firm: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone No: \_\_\_\_\_

**Last date For submission: 06.03.2015 @ 3.00 P.M**

**Tender for the “Construction of additional floors over binding unit/carpentry and canteen building at I.I.A, Bangalore.,”  
.”**

**Conditions of contract.**

Sealed item rate tenders are invited by Indian institute of Astrophysics for the above mentioned work

Estimated cost : Rs 33.80 Lakhs (Thirty three lakhs Eighty thousand only)

Time of completion : Six (06) Months.

Period of commencement : 7 days from the date of receipt of work order

Percentage of retention money: : 5% to be deducted from each RA bill and shall be released as under i)(50% on completion of works and along the final bill .ii) Balance 50% less recovery, if any towards the cost of defects rectified by employer due to lack of response of the contractor on completion of defects liability period and on certification by the engineer –in charge.

Defects liability period : 12 Months.

Amount of liquidated damage : 1% (one percent) per week subjected to the maximum of 10% of the value of contract.

Escalation : In view of the short duration of the contract, no escalation will be paid to the contractor on account of changes in the market prices of any items of work or changes in the cost of living indices etc.

The Director, Indian institute of Astrophysics reserves the right to reject any or all the tenders without assigning any reason whatsoever.

The tenderer shall be responsible for arranging and maintaining at his own cost all **materials, tools and plants, water, electricity, facilities for workers, safety norms** and all other services required for executing the work.

Timely completion of work and quality of workmanship are of prime importance and the work shall be completed within the stipulated period. Cement consumption must match with standard theoretical calculations. Recovery to be effected in the event of not fulfilling the cement consumption. The waterproofing is the main work for which five year performance guarantee need to be provided by the applicator.

I/ We have read the tender notice, specifications, schedule, drawings, general rules and all other contents of the tender conditions, and Understand that IIA is not bound to accept the lowest or any tender you may receive.

I/ we hereby tender for the execution for the work specified above within the time specified above, at the rates specified in the attached bill of quantities and in all respects with these specifications, design, drawings and instructions.

I/we agree that if I/we fail to commence the work specified in the above memorandum, an amount equal to amount of earnest money mentioned in the form of invitation of tender shall be absolutely forfeited to the Director.

**Dated: -----**

**Signature of the contractor  
With stamp**

## **General conditions of contract.**

### **Item rate tender for works.**

- ❑ The institute reserves the right to alter the scope /or reduce quantum of work before issue of work order and the contractor shall not have any claim what so ever on this account.
- ❑ Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall be taken as correct.
- ❑ If the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or words, then the rate quoted by the contractor in the words shall be taken as correct.
- ❑ When the rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly the rate quoted by the contractor will be taken as correct and not the amount.
- ❑ The contractor shall take all precautionary measures to prevent entry of dust, dirt and noise pollution to the adjacent buildings and keep the premises neat and tidy, remove surplus materials and rubbish and shall not cause inconvenience to the staff of IIA. If the contractor or his working people or servants shall break, deface, injure or destroy any part of a building in which they may be working or any buildings, road, kerbs, fence, enclosure, water pipes cables, drains, electric and telephone posts or wire, trees grass or garden. The cost of any such damage and risks arising out of this shall be entirely borne by the contractor.
- ❑ A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer- in charge. All the measurements of the work may be recorded jointly by the Engineer-in charge and the contractor or their respective representatives. The measurements will be taken at site, as per latest IS code of practice for measurements. All measurements shall be taken with steel tapes only.
- ❑ The Engineer- in -Charge shall have full powers to the removal from the premises of all materials and bad workmanship, which in his opinion are not in accordance with the specifications.

- The Engineer –in- Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors employ upon the work who may be incompetent or misconduct himself.
  
- For working on Sundays, holidays and late hours prior permission will be accorded by the Engineer-in charge on the application made by the contractor.
  
- All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in charge who shall be entitled to direct at what point or points and in what manner they are to be commenced and from time to time carried on.
  
- The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work etc as institute’s property and such materials shall be disposed off to the best advantage of the institute.
  
- The contractor shall execute the whole and every part of the work in the most substantial and workman like manner and in strict accordance with the specifications of the CPWD / DOS / Bureau of Indian Standards. In case of any class of work for which there is no such specifications the contractor shall carry out the work in all respects in accordance with the instructions in writing of the Engineer- in charge.
  
- The Engineer-in charge shall have powers to make any alterations in, omissions from, additions to or substitutions for the original specifications, drawings, designs and instructions that may appear to him necessary or advisable during the progress of the work and the contractor shall carry out the work in accordance. The rates for such additional, altered or substituted items of work shall be worked out in accordance with the standard procedure followed in CPWD / DOS.
  
- If at any time after the commencement of the work, the director shall for any reason whatsoever not require the whole thereof as specified in the tender to be carried out, the Engineer- in-Charge shall give notice in writing of the fact to the contractor who shall have no claim to payment of compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full, but which he did not derive in consequence of the full amount of the work not having been carried out, neither shall he have any claim for compensation by reason of any alterations having been made in the original specifications , drawings ,designs and instructions which shall involve any curtailment of the work as originally contemplated.



- The contractor shall obtain a valid license under the Contract Labour (R&A) act 1970 and the contract labour (Regulation & Abolition) central rules, 1971 before the commencement of the work and continue to have a valid license until the completion of the work. No labour below the age of eighteen years shall be employed on the work. The contractor shall pay to labour employed by him either directly or through sub contractors, wages not less than fair wages as defined in the provision of the contract labour (R&A) act 1970 and the contract labour (R&A) central rules 1971 wherever applicable.
  
- The contractor shall at his own expenses arrange for the safety provision as per safety code framed from time to time and shall at his own expenses provide for all facilities in connection therewith.
  
- The contractor shall comply with all the provisions of the payment of wages act 1936, Minimum Wages Act 1948, Employees liability act 1938, Workmen's Compensation act 1923, Industrial Disputes Act 1961 and the Contractors Labour (R&A) Act 1970 or the modifications thereof or any other laws relating thereto and the rules made thereunder from time to time. The regulations aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract. Security deposit will not be refunded till clearance certificate from Labour Officer is obtained by contractor.
  
- The contractor shall make his /their own arrangements for water required for the works and nothing extra will be paid for the same, as the water available from the institute source may not be sufficient to meet the construction.
  
- The contractor shall have all the tools and plants necessary to carry out the work such as concrete mixer, vibrator and hoist. The contractor shall employ one graduate engineer during the execution of the work
  
- Certified plumbers should be employed by the contractor on the plumbing and sanitary work.
  
- The standard sectional weights referred to as standard tables in para 5.3.3 in CPWD specifications for works 1977 vol. 1 to be considered for conversion of length of various sizes of M.S bars and tor steel bars in to weight.

Size (diameter MM) Weight Kg/M

| Size | Weight |
|------|--------|
| 6    | 0.222  |
| 8    | 0.395  |
| 10   | 0.617  |
| 12   | 0.888  |
| 16   | 1.579  |
| 18   | 1.999  |
| 20   | 2.467  |
| 22   | 2.985  |
| 25   | 3.855  |
| 28   | 4.836  |
| 32   | 6.316  |

- The entire work is to be completed within the period stipulated i.e.Six months (6) from the 15<sup>th</sup> day of issue of Letter of Intent/Work Order. The period includes monsoon period also. Time shall be the essence of the contract. After the work awarded, the contractors shall furnish detailed time schedules for the approval of the Engineer-in charge which after approval shall form part of the contract and are to be strictly adhere to.
  
- The maintenance period for the work shall be twelve months and any defects noticed during the period shall have to be rectified by contractor at his cost, failing which the action taken for maintenance Engineer-in charge shall be final over which the contractor will not have any claim.
  
- The contractor shall extend all co-operation to the contractors executing works such as electrical, air conditioning etc who might be working at the site and shall permit to use scaffolding etc already put up by him.
  
- The Engineer-in charge will have the right to get any item of the work included in this tender or not executed through other agencies. Schedule of probable quantities in respect of the work and specifications are enclosed. The schedules of probable quantities are liable to alterations by emission, deduction or additions at the discretion of the Engineer-in charge.

- ❑ The rates quoted by the tenderer in the schedule shall be inclusive of all taxes and levies payable under respective statutes, inclusive of all sales taxes, sales tax on components/ materials/ consumables and also sales tax on works contract in pursuant to constitution (forty sixth amendment) act 1982, control duty and /or any other duty levied by the government or other public bodies. The rates shall be firm and shall not be subject to exchange variations, labour conditions or any condition.
  
- ❑ Sales tax will be deducted from the amount payable to the contractor as per the relevant sales tax act, applicable for the contracted work as amended from time to time, at the rates specified from time to time.
  
- ❑ Samples of all materials to be incorporated in the works shall be submitted to the Engineer-in charge for his approval without claiming any extra cost. Materials not confirming strictly to the samples are liable to be rejected.
  
- ❑ The employment of any sub-contractors will be subjected to the approval of the Engineer-in-charge. If at any time during the progress of the work the Engineer-in charge determines that any sub-contractor is in competent or undesirable the contractor shall take steps immediately to cancel such sub-contractor. The contractor shall be entirely responsible for all the work included in the contract whether executed by him or through his sub-contractors. In particular it may be noted that the contractor shall obtain steel doors and windows from a reputed manufacturer and before placing order for these, the contractor shall obtain the concurrence of the department for the agency from whom he proposes to obtain steel doors and windows.
  
- ❑ The contractor shall prepare a CPM / PERT /BAR chart/ Detailed estimate programme within a weeks time of issue of Work Order.
  
- ❑ All materials and articles brought by the contractor to the work site shall have to be declared at the security gate. Similarly no materials shall be taken out from the departmental premises without proper gate pass which will be issued by the Engineer-in charge.
  
- ❑ Unless otherwise provided in the schedule of quantities the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.
  
- ❑ Sample of various materials required for testing shall be provided free of charge by the contractor. Testing charges, if any unless otherwise provided, shall be borne by the department. All other expenditure required to be incurred for taking the samples, conveyance, packing etc. shall be borne by contractor himself. In case of concrete and reinforced concrete work, the contractor shall be required to make arrangement for carrying out compression strength tests at his own cost including preparation of cubes curing etc. complete.

- ❑ For the purpose of recording measurements and preparing running account bills, the abbreviated nomenclature shall be accepted along with the item number.
- ❑ The contractor shall along the tender submit a schedule of machinery to be used on the work in support of his assurance to adhere to the time schedule specified in the proforma given.
- ❑ I /We declare that the work will be carried out as per the specifications in tender document and as per the specifications said above. The items of work not covered in the specifications said above will be carried out as per the specifications in the relevant CPWD specifications, and if not covered in CPWD specifications the work will be carried out as in the relevant IS specifications, and if not covered in the any of the above, the work will be carried out as directed in writing by the Engineer- in charge.
- ❑ I / We declare that the rates quoted by me/us are on the basis of the above.

**Dated:** -----

**Signature of the contractor  
With stamp**

## **TENDER FORM**

To,

The Director,  
Indian institute of Astrophysics,  
Koramangala,  
Bangalore - 560034

Dear Sir,

**Sub: Tender for the work of : “Construction of additional floors over binding unit/carpentry and canteen building at I.I.A, Bangalore.”**

With reference to the tender invited by you for the above proposed work, I /we write this after having:

- a). Examined the designs, drawings, detailed specifications to tenders, sample agreement, the general conditions of contract and special conditions of contract annexed there to (here in after called ‘the contract documents’) relating to construction.
- b). Visited and examined the site of the proposed work and acquired the requisite information relating to or affecting the tender. We are agreed to the decisions of the pre bid meeting by signing and stamping the minutes of the meeting which is enclosed along with this tender.

I/We undersigned hereby offer to construct the proposed work in strict accordance with the contract document for the consideration to be calculated in terms of the priced schedule of quantities.

I/We undertake to complete the whole of the works as per the attached schedule from the date of issue of intimation by you that our tender has been accepted and up on being permitted to enter site. I/We further undertake that on failure, subject to the conditions of contract relating to extension of time, I/We shall be agreed ‘Liquidated damages’ for the period during which the work shall remain incomplete.

I/We hereby deposit with you as earnest money **Rs..... (RUPEES  
.....ONLY)**  
[carrying no interest] and I/We fail to take up the contract when called up on to do so.

Our Bankers are

1.

2.

Place:

Date:

Signature of the tenderer

Name of the partners of the firm

Or

Name of the person having power of attorney to sign the contract

## SPECIAL CONDITIONS

### GENERAL:

**SPECIAL CONDITIONS OF CONTRACT shall be read in conjunction with GENERAL CONDITIONS OF CONTRACT and both form an integral part of contract. Where the two are at variance, the conditions stipulated in this as SPECIAL CONDITIONS shall supersede relevant GENERAL CONDITIONS.**

#### **1. SPECIAL CONDITIONS:**

##### **HELMETS :**

As a measure of safety, persons employed on the site, Engineers and Supervisors shall wear a helmet of approved make at all times when they are at the site. No visitors shall be allowed on work site without wearing helmet.

Contractors shall make arrangements to provide safety helmets to all the persons employed on the site, Engineers and Supervisors at his cost.

Contractors shall display safety and warning signs at strategic locations at the site.

##### **CHILD LABOUR:**

Contractor or his Sub-contractor shall not employ any child labourers on the work site, either permanently or temporarily. It shall be the responsibility of the main Contractor to make sure that no child labour is employed at the site. Contractor shall indemnify the Employer against any consequences statutory or otherwise, that may arise out of employing child labour on the site.

##### **TEMPORARY ELECTRICAL WIRING:**

It shall be the responsibility of the main Contractor to make sure that the temporary wiring for construction activity shall adhere to minimum safety precautions as per Electricity Act. All wires / cables shall be drawn on wooden poles properly fixed and shall be drawn overhead.

#### **2. MATERIALS SUPPLY / PROCUREMENT:**

No materials will be supplied by the Institute.

#### **3. PAYMENT OF BILLS:**

The contractor shall submit the bill to the Director after completing the quantum of work.

#### **4. REPAIR OF WORKS DONE BY OTHER AGENCIES:**

The civil contractor shall make up any deficiency in the finishing of the areas damaged by other agencies in a workmanlike manner to

achieve uniform finishing of the building at no extra cost.

5. **MATERIAL TESTS:**

The contractor shall provide such assistance, instruments, machines, labour and materials as are normally required for examining, measuring and testing.

The contractor shall install a compression testing machine at site to test concrete cubes and solid blocks.

The contractor shall maintain a record of all the test results in an approved format and periodically submit the same for Architect's/Employer's scrutiny.

6. **PLANT & MACHINERY:**

The contractor is obliged to furnish to the Employer detailed list of equipment, plant, machinery & personnel proposed to be deployed in this project.

7. **REPORTS BY CONTRACTOR:**

7.1 The contractor shall file daily category-wise labour return. The report shall indicate scheduled requirement against actual strength.

7.2 The contractor shall prepare weekly reports of planned and actual progress of work and subsequent week's scheduled work. These will also include material procurement status.

7.3 The contractor shall submit monthly report along with monthly bills.

7.4 Further progress charts and schedules shall be prepared by the contractor.

7.5 The contractor shall submit re-conciliation statement of all the materials supplied by the Client, if any, alongwith every running bill.



## **SPECIAL CONDITIONS OF CONTRACT**

- a) The agency should visit the site and make sure the nature of work to be carried out before quoting the rates
- b) During the visit the agency should make sure of the availability of materials and stacking of materials
- c) The toilets are being used by the staff and it is essential to complete the job as per planning, time schedule with quality
- d) All the rates quoted by the agency shall be inclusive of all taxes and duties. No additional payment will be made for the reason whatsoever.
- e) The agency should make sure about the working plan so that no disturbance shall occur to the working environment. Such type of works which makes sound shall be carried out during holidays and off the working hours with the prior permission of the Institute.
- f) The work may be carried out on Sundays and holidays with the prior permission of the Incharge, Security Unit in view of security aspect. The details of the labourers with address & photo shall be handed over to the security for record.
- g) All the sample materials shall be approved by the Institute before procurement of required quantity.

# LIST OF APPROVED MATERIALS

## CIVIL

| Sl.No. | Material                  | Make                            |
|--------|---------------------------|---------------------------------|
| 1      | Steel                     | SAIL – TMT, VIZAG STEEL         |
|        | Cement                    | ACC/Birla/L&T                   |
| 2      | Acrylic Exterior Emulsion | Asian Paints                    |
| 3      | Plastic Emulsion Paint    | Asian Paints                    |
| 4      | Enamel Paint              | Asian Paints                    |
| 5      | Aluminium                 | Jindal, Indal, Hindalco         |
| 6      | Glass                     | Saint Gobain, Modi              |
| 7      | Flush Door                | Kutty's Bond Wood, Hunsur Board |
| 8      | Vitrified tiles           | nitco/RAK                       |
| 9      | Ceramic tiles             | NITCO                           |

## WATER SUPPLY AND SANITARY WORKS

| Sl.No. | Material                         | Make   |
|--------|----------------------------------|--|
| 1      | G.I. Pipes                       |  |
| 2      | G.I. Fittings                    |  |
| 3      | PPR                              | Kisan/Amitex                                     |
| 4      | UPVC                             | a) Kisan / Prince                                |
| 5      | Ball valves                      | Hawa / R.B.                                      |
| 6      | G.M. non-return valves           | Kirloskar/Zoloto                                 |
| 7      | Sanitary ware                    | Hindware/approved equivalent                     |
| 8      | C.P. Fittings                    | Jaquar/approved equivalent                       |
| 9      | Bathroom accessories             | Jaquar/approved equivalent                       |
| 10     | SFRC manhole frame and Covers    | Southern Concrete Industries/approved equivalent |
| 11     | Kitchen sink                     | Nirali/ Approved Equivalent                      |
| 12     | Anchor bolts/pipe support system | Hilti / approved equivalent                      |
| 13     | CI Grating & MH frame & cover    | NECO/ Approved equivalent                        |

# **BILL OF QUANTITIES**

**ABSTRACT OF BILL OF QUANTITIES**

**NAME OF THE WORK: CONSTRUCTION OF ADDITIONAL FLOORS OVER  
BINDING UNIT/CARPENTRY AND CANTEEN BUILDING AT I.I.A, BANGALORE**

|        | DESCRIPTION OF WORK  | TOTAL AMOUNT (RS.) |
|--------|--|--------------------|
| PART 1 | Construction of Second Floor for Binding /<br>Carpentry Building         |                    |
| PART 2 | Construction of Second floor for student rooms<br>above canteen building |                    |
|        | <b>GRAND TOTAL</b>   | <b>Rs.</b>         |

**(Grand total amount in words Rs. ....)**

.....**only)**

Date :

Signature of the Contractor with stamp

Place:

**NAME OF THE WORK: CONSTRUCTION OF ADDITIONAL FLOORS OVER BINDING UNIT/CARPENTRY  
AND CANTEEN BUILDING AT I.I.A, BANGALORE**

**PART-1- Construction of Second Floor for Binding / Carpentry Building**

| SL. No | Description   | Qty.   | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|--------|-------|---------------|----------|-----------------|
|        |   |        |       | In Figures    | In words |                 |
| 1      | Demolishing RCC work including stacking of steel bars and disposal of unserviceable materials within 50mtrs lead.                                 | 1.50   | Cum   |               |          |                 |
| 2      | Extra for cutting reinforcement bars in R.C.C. work. Rate is cost per sqmt of sectional area of the R.C.C work.                                   | 10.00  | Sqm   |               |          |                 |
| 3      | Demolishing Brick work in cement mortar including stacking of the serviceable material and disposal of unserviceable material with in 50mts lead. | 7.00   | Cum   |               |          |                 |
| 4      | Demolishing existing surki covering of average thickness 150mm.   | 50.00  | Sqm   |               |          |                 |
| 5      | Dismantling CC Flooring of average thickness 50mm.  | 100.00 | Sqm   |               |          |                 |

| SL. No | Description  | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|-------|-------|---------------|----------|-----------------|
|        |  |       |       | In Figures    | In words |                 |
| 6      | Providing and laying cement concrete using 20mm and downsize jelly for RCC 1:1.5:3 works laid in 15cms thick layers and well compacted, vibrating, curing, finishing with necessary cement mortar wherever necessary, complete (Exclusive of cost of steel and fabrication charges and excluding cost of form work.). The rates are inclusive of all heights and all floors. Curing using gunny bags and straw ropes. Vibrator and concrete mixer to be used for all the concrete works. Items as below. |       |       |               |          |                 |
| 6.1    | For columns  | 3.00  | Cum   |               |          |                 |
| 6.2    | For beams, slabs and lintels.  | 17.00 | Cum   |               |          |                 |
| 6.3    | For sills, coping and bond slab  | 2.00  | Cum   |               |          |                 |
| 7      | Providing rigid and water tight centering and shuttering using best quality wooden planks/ plywood sheets/ steel centering sheets including strutting, propping, bracing,  |       |       |               |          |                 |

| SL. No | Description  | Qty.   | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|--------|-------|---------------|----------|-----------------|
|        |  |        |       | In Figures    | In words |                 |
|        | staging etc complete. For all RCC items fixed in position as required including labour for careful removal of formwork etc complete all as per specifications in horizontal/ vertical/ slanting surfaces in all floors and all heights. (Floor to Floor height may be considered as 4.0 m).          |        |       |               |          |                 |
| 7.1    | For columns  | 50.00  | Sqm   |               |          |                 |
| 7.2    | For beams, slabs and lintels.  | 160.00 | Sqm   |               |          |                 |
| 7.3    | For sills, coping and bond slab  | 25.00  | Sqm   |               |          |                 |
| 8      | Providing reinforced fascia 5cms thick by providing and fixing chicken mesh, 8mm steel rods 15cms centre to centre both ways and plastering with cement mortar 1:3 and with drip moulding including centering, form work, curing etc complete. (Inclusive of cost of steel and fabrication charges). | 8.00   | Sqm   |               |          |                 |
| 9      | Providing and fixing plaster mesh manufactured in the galvanized steel   | 60.00  | Rmt   |               |          |                 |

| SL. No | Description  | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|-------|-------|---------------|----------|-----------------|
|        |  |       |       | In Figures    | In words |                 |
|        | strip of 0'7" width, 0.35mm nominal thickness and of approximate weight of 0.095 kgs per running mts of arpitha make at junctions of concrete and masonry including fixing it in position.   |       |       |               |          |                 |
| 10     | Providing and constructing Brick masonry in cement mortar CM 1:6 using approved well burnt bricks of class designation "10.0" (minimum average compressive strength not less than 10.0N/sqmm) including raking out joints 10mm deep, scaffolding, curing, etc, complete as per specifications in superstructure in all floors and at all levels. complete. | 30.00 | Cum   |               |          |                 |
| 11     | Providing and constructing half Brick masonry walls/ partition walls in cement mortar CM 1:4 using approved well burnt bricks of class designation "10.0" (minimum average compressive strength not less than 10.0N/sqmm) including raking out joints 10mm deep, scaffolding, curing, etc, with reinforced concrete band of                                | 25.00 | Sqm   |               |          |                 |



| SL. No | Description   | Qty.   | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|--------|-------|---------------|----------|-----------------|
|        |   |        |       | In Figures    | In words |                 |
|        | 50mm thick in CC 1:2:4 at every one meter level with mild steel reinforcements 2 rows of 6mm dia complete as per specifications in superstructure in all floors and at all levels.  |        |       |               |          |                 |
| 12     | Providing 20mm thick sand and cement plastering in CM 1:5 to masonry / concrete surface including providing and removing scaffolding rounding of all corners wherever required, smooth rendering, curing etc. complete at all heights and all floors (for external surfaces). Including forming horizontal/ vertical grooves of uniform size 12mm x 12mm at regular intervals as per the directions of engineer- in charge. | 160.00 | Sqm   |               |          |                 |
| 13     | Providing cement plastering 12mm thick in CM 1:5 to masonry walls including lime rendering over mortar plastering including providing and removing scaffolding, rounding of all corners wherever required, smooth. Rendering, curing etc. complete in all   | 100.00 | Sqm   |               |          |                 |

| SL. No | Description   | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|-------|-------|---------------|----------|-----------------|
|        |   |       |       | In Figures    | In words |                 |
|        | floors and all heights. (For internal surfaces).  |       |       |               |          |                 |
| 14     | Providing 12mm thick plastering to ceiling with cement mortar CM 1:3 with necessary scaffolding and curing including lime rendering etc. complete in all floors.  | 50.00 | Sqm   |               |          |                 |
| 15     | Providing patti/ cornice of width upto 15cms two or three in ceiling/ parapet wall/ chejjas or any other place as per the design finished with cement mortar 1:3 including scaffolding etc. complete.   | 60.00 | Rmt   |               |          |                 |
| 16     | Providing and fabricating steel reinforcement with thermo mechanically treated bars (Fe – 415) for all RCC items including decoiling straightening, cutting, bending, hooking placing in position with binding wire of approved quality of diameter not less than 1mm with two strands, and gauge including the cost of binding wire and anchoring to the adjoining members including all laps and wastage's etc. complete as per | 5.00  | M.T.  |               |          |                 |

| SL. No | Description  | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|-------|-------|---------------|----------|-----------------|
|        |  |       |       | In Figures    | In words |                 |
|        | the designs. (Rate inclusive of binding wire ) at all levels and all floors..  |       |       |               |          |                 |
| 17     | Structural steel works Supplying, fabricating, assembling hoisting/erecting and fixing in position at all heights and with all leads, structural steel works of welded built up sections, using I – sections, Channel sections, Angles, Plates or any other section as per the directions of the Engineer in charge at all levels and at all floors. | 0.50  | M.T.  |               |          |                 |
| 18     | Providing and fixing mechanical anchor bolts of 16mm diameter of HILTI or equivalent including drilling in concrete with necessary inserts and scaffolding etc, complete job (For MS chejja's) at all levels and at all floors.  | 20.00 | Each  |               |          |                 |
| 19     | Providing and fixing poly carbonate multi wall 16mm thick with necessary fixing clips etc, complete job.   | 15.00 | Sqm   |               |          |                 |
| 20     | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs   | 0.20  | cum   |               |          |                 |

| SL. No | Description   | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|-------|-------|---------------|----------|-----------------|
|        |   |       |       | In Figures    | In words |                 |
|        | or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).<br>Second class teak wood  |       |       |               |          |                 |
| 21     | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 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 | 6.00  | sqm   |               |          |                 |
| 22     | Supplying and fixing hydraulic door closer confirming to IS 3564 (Everite) or equivalent make of size 3 (to carry a door width upto 1000mm).  | 3.00  | Each  |               |          |                 |
| 23     | Providing and fixing appropriate Aluminum hand Rail section NO:19206, Weight – 1.210Kg/Mt. Jindhal Make with color anodizing of pale sham pine color, 15 to 18 microns, cutting   | 30.00 | Rmt   |               |          |                 |

| SL. No | Description  | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|------|-------|---------------|----------|-----------------|
|        |  |      |       | In Figures    | In words |                 |
|        | to the required length, joints mitred and to be stiffened with clips and corner angles etc, fixed to the existing MS flat with necessary steel screws for the existing MS frame work at all floors.  |      |       |               |          |                 |
| 24     | providing and fixing UPVC openable windows using veka AD 60AL or equivalent make with SS mesh as per approved drawings with double shutters including cutting masonry or concrete and making good masonry or concrete and making good the original surface as per details with drip section at bottom + sealanting etc all complete                                      | 15   | Sqm   |               |          |                 |
| 25     | Providing and laying ceramic/vitrified tile flooring/dadoing using approved quality ceramic tiles as per size specified below, colour and thickness varying from 6.5mm to 10mm according to the dimension of tiles and having a scratch hardness (Mohrs scale min 5) and other parameter confirming to IS 13630 of regular series (Bell or Navin or Spartek or Kajariya, |      |       |               |          |                 |

| SL. No | Description  | Qty.   | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|--------|-------|---------------|----------|-----------------|
|        |  |        |       | In Figures    | In words |                 |
|        | RAK, equivalent make) laid over a be/<br>backing of 12mm thick cement mortar<br>1:3 with cement slurry mixed with<br>approved matching pigment and<br>finishing to required level curing etc.<br>complete all as per specification and<br>as per the directions of engineer in<br>charge at all floors |        |       |               |          |                 |
| 25.1   | In flooring / skirting using (600X600) size<br>vitrified tiles jointures .<br>Basic Rate 800 per sqm   | 150.00 | Sqm   |               |          |                 |
| 25.2   | Bath room flooring / skirting using<br>(400X400) anti skid tiles (Bath Room,<br>Ground Floor).<br>Basic Rate: 450. per Sqm   | 4.00   | Sqm   |               |          |                 |
| 25.3   | Dadoing 200X300 tiles.<br>Basic Rate: 450. per Sqm   | 15.00  | Sqm   |               |          |                 |
| 26     | Painting Internal plastered surfaces<br>with three coats of Emulsion of 1st<br>Quality and approved colour to give<br>an even shade over a coat of water<br>thinnable cement primer/oil based  | 450.00 | Sqm   |               |          |                 |

| SL. No | Description   | Qty.   | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|--------|-------|---------------|----------|-----------------|
|        |   |        |       | In Figures    | In words |                 |
|        | cement primer including patty, cleaning the surfaces, filling the crevices with approved filler, scaffolding etc complete (Rate to include cost of Primer also). All floors and at all heights.   |        |       |               |          |                 |
| 27     | Painting plastered surfaces (external) with three or more coats of polyvinyl based exterior emulsion paint (Apex of Asian paints) of 1st Quality and approved colour to give an even shade including cleaning the surfaces, filling the crevices with approved filler, scaffolding etc complete.  | 300.00 | Sqm   |               |          |                 |
| 28     | Painting wood work with two or more coats of synthetic enamel paint of 1st Quality and approved colour to give an even shade over a coat of synthetic enamel primer including cleaning the surfaces, filling the crevices with approved filler, scaffolding etc complete .all as per specifications. (Rate inclusive of the cost of synthetic enamel primer.) | 10.00  | Sqm   |               |          |                 |

| SL. No | Description  | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|-------|-------|---------------|----------|-----------------|
|        |  |       |       | In Figures    | In words |                 |
| 29     | Providing and laying cement concrete interlocking paver blocks flooring using approved shape, size and colours of blocks having 65mm thick load bearing strength not less than M20 grade manufactures by M/s. Besser Blocks / M/s Nitco / M/s Malu Group or equivalent, close jointed over bed of 75mm thick river sand to a tight pattern, laid to proper line and level, including bedding down the completed surface with a plate vibrator or by firmly topping with a plate vibrator or by firmly topping level with mallet ad a large flat piece of timber, finishing by brushing clean dry sand over the surface to fill all the joints thoroughly including fixing the edge restraint laying blocks etc.,. complete all as per manufactures specification and directions of Engineer in charge. (Rate to include cost of paver blocks, sand and labor including removal and resetting of Kerb Stones etc). The arrangement of | 75.00 | Sqm   |               |          |                 |



| SL. No | Description   | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|-------|-------|---------------|----------|-----------------|
|        |   |       |       | In Figures    | In words |                 |
|        | pattern of blocks shall be as per architectural drawing.  |       |       |               |          |                 |
| 30     | Providing and fixing 75mm dia (OD) rigid PVC pipe water spouts confirming to IS 4985-1988 inclusive of specials (Tee) of working pressure 6Kg/sqcm .The out let end shall be provided with PVC (Tee) and the inlet end shall be flush with inner face of Facias/ parapets, fixing in cement mortar 1:3 etc complete all as per specifications | 30.00 | Metre |               |          |                 |
| 31     | Providing and fixing EWC with flush valve type with S-trap/P trap, CP flush valve having inlet 25mm and outlet 32mm consisting of Cp. wall flange including seat cover etc complete.  | 1.00  | Each  |               |          |                 |
| 32     | Providing and fixing granite counter wash hand basin of oval shape and size 550X400mm of approved make with basin at bottom including fixing of 15mm CP pillar cock of approved make, 15mm heavy quality flexible PVC inlet pipe connection and 15mm CP brass stop cock, 32mm CP brass  | 1.00  | Each  |               |          |                 |

| SL. No | Description  | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|-------|-------|---------------|----------|-----------------|
|        |  |       |       | In Figures    | In words |                 |
|        | waste coupling, 32mm CP waste pipe etc complete all fittings inclusive.  |       |       |               |          |                 |
| 33     | Providing and fixing   |       |       |               |          |                 |
| 33.1   | Best quality approved make mirror of 6mm thick, with 4mm ply wood backing.   | 1.50  | Sqm   |               |          |                 |
| 34     | Providing and fixing best Quality liquid soap holder   | 1.00  | Each  |               |          |                 |
| 35     | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. |       |       |               |          |                 |
| 35.1   | 15mm NB(1.23Kg/Mtr)  | 10.00 | Metre |               |          |                 |

| SL. No | Description  | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|-------|-------|---------------|----------|-----------------|
|        |  |       |       | In Figures    | In words |                 |
| 35.2   | 20mm NB (1.59 Kg/mtr)  | 10.00 | Metre |               |          |                 |
| 36     | Clearing the debris away from the institute campus including loading and unloading with all leads and lifts complete as per the instructions of Engineer-in charge   | 30.00 | Cum   |               |          |                 |
| 37     | Providing and laying 20mm thick Pre-polished granite slabs of approved colour and pattern, for stair treads and risers including machine cutting, semi circle, bull nosing for treads overlaid over 20mm thick mortar CM 1:4 bed, cement slurry, pointing with tinted white cement, granite slab of approved quality laid to the pattern as directed by the EIC including curing waxing etc. in all floors and all levels complete.<br>(Basic rate of granite @ Rs 150/- per SFT). | 50.00 | Sqm   |               |          |                 |
| 38     | Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound  | 54    | Sqm   |               |          |                 |

| SL. No | Description   | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|------|-------|---------------|----------|-----------------|
|        |   |      |       | In Figures    | In words |                 |
|        | <p>consisting of applying :</p> <p>a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.</p> <p>b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.</p> <p>c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around.</p> <p>d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. For the purpose of measurement the entire treated surface will be measured.</p> |      |       |               |          |                 |

| SL. No | Description   | Qty. | Units     | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|------|-----------|---------------|----------|-----------------|
|        |   |      |           | In Figures    | In words |                 |
| 39     | Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete. | 54   | Sqm       |               |          |                 |
|        | <b>Sub total for PART -1</b>  |      | <b>Rs</b> |               |          |                 |
|        |   |      |           |               |          |                 |

**PART-2- Construction of Second floor for student rooms above canteen building**

| SL. No | Description  | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|------|-------|---------------|----------|-----------------|
|        |  |      |       | In Figures    | In words |                 |
| 1      | 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 | 12   | cum   |               |          |                 |
| 2      | Demolishing RCC work including stacking of steel bars and disposal of unserviceable materials within 50mtrs lead.  | 1.5  | cum   |               |          |                 |
| 3      | Extra for cutting reinforcement bars in R.C.C. work. Rate is cost per sqmt of sectional area of the R.C.C work.  | 10   | sqm   |               |          |                 |
| 4      | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per the direction of Engineer -in-charge.  | 3    | cum   |               |          |                 |
| 5      | Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, glass,  | 1    | nos.  |               |          |                 |

| SL. No | Description  | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|------|-------|---------------|----------|-----------------|
|        |  |      |       | In Figures    | In words |                 |
|        | architrave, holdfasts etc. complete within 50 metres lead: For working at height upto 10m the scaffolding to be provided.<br>Of area beyond 3 Sq.metre               |      |       |               |          |                 |
| 6      | Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of:   |      |       |               |          |                 |
| 6.1    | Asbestos sheet/Galvelum sheet  | 120  | Sqm   |               |          |                 |
| 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 | 50   | sqm   |               |          |                 |
| 8      | Dismantling the tile work in floors and walls laid in cement mortar including stacking materials within 50 metres lead.<br>For thickness of tiles 10mm to 25mm.      | 120  | sqm   |               |          |                 |

| SL. No | Description  | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|------|-------|---------------|----------|-----------------|
|        |  |      |       | In Figures    | In words |                 |
|        |  |      |       |               |          |                 |
| 9      | Supplying and fixing of aluminium Zinc Alloy Coated Steel Sheet Sandwiched puff Panel of thickness 40 mm having top sheet of 0.5mm and bottom sheet of 0.45mm roofing sheets   | 250  | sqm   |               |          |                 |
| 10     | Supply and fixing of gable flashing using colour coated sheets of thickness 0.45 mm and 300mm girth of approved colour.  | 60   | sqm   |               |          |                 |
| 11     | Providing and laying cement concrete using 20mm and downsize jelly for RCC 1:1.5:3 works laid in 15cms thick layers and well compacted, vibrating, curing, finishing with necessary cement mortar wherever necessary, complete (Exclusive of cost of steel and fabrication charges and excluding cost of form work.). The rates are inclusive of all heights and all floors. Curing using gunny bags and straw ropes. Vibrator and concrete mixer to be used for all the concrete works. Items as below. |      |       |               |          |                 |



| SL. No | Description   | Qty.  | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|-------|-------|---------------|----------|-----------------|
|        |   |       |       | In Figures    | In words |                 |
| 11.1   | For columns   | 3.00  | Cum   |               |          |                 |
| 11.2   | For beams and lintels.  | 5.25  | Cum   |               |          |                 |
| 11.3   | For sills, coping and bond slab   | 2.00  | Cum   |               |          |                 |
| 12     | Providing rigid and water tight centering and shuttering using best quality wooden planks/ plywood sheets/ steel centering sheets including strutting, propping, bracing, staging etc complete. For all RCC items fixed in position as required including labour for careful removal of formwork etc complete all as per specifications in horizontal/ vertical/ slanting surfaces in all floors and all heights. (Floor to Floor height may be considered as 4.0 m). |       |       |               |          |                 |
| 12.1   | For columns   | 50.00 | Sqm   |               |          |                 |
| 12.2   | For beams and lintels.  | 80.00 | Sqm   |               |          |                 |
| 12.3   | For sills, coping and bond slab   | 25.00 | Sqm   |               |          |                 |

| SL. No | Description   | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|------|-------|---------------|----------|-----------------|
|        |   |      |       | In Figures    | In words |                 |
| 13     | <b>Reinforcing Steel:</b><br>Providing & placing in position Thermo Mechanically Treated (TMT) of Grade Fe 415 bars in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge annealed steel wire etc.,   | 600  | kg    |               |          |                 |
| 14     | <b>Brick masonry for walls:</b><br>Providing and constructing brick masonry in 1:6 cement mortar using approved well burnt bricks of I class (minimum average compressive strength not less than 3.5 N/sq.mm) (as per IS 1 077 -1986) including raking out joints 10mm deep   | 40   | cum   |               |          |                 |
| 15     | 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), including grouting the joints with white cement and matching pigments etc., | 245  | sqm   |               |          |                 |

| SL. No | Description  | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|------|-------|---------------|----------|-----------------|
|        |  |      |       | In Figures    | In words |                 |
|        | complete. Size of Tile 600x600 mm<br>Basic cost of the tile Rs. 800.00/Sqmts   |      |       |               |          |                 |
| 16     | Providing and laying Vitrified tiles in different sizes 15 (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.<br>Size of Tile 600x600 mm<br>Basic cost of the tile Rs. 800.00/Sqmts | 15   | sqm   |               |          |                 |
| 17     | <b><u>Interior Plastering:</u></b><br>Plastering 12 mm thick with Cement mortar 1:3, finished smooth with lime neeru, including scaffolding, curing etc., complete for Internal Surfaces of walls, beams, ribs, sills, jambs, ceiling etc., up to II floor level   | 130  | sqm   |               |          |                 |
| 18     | <b><u>Exterior Plastering:</u></b><br>Plastering 20mm thick with cement  | 131  | sqm   |               |          |                 |

| SL. No | Description  | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|------|-------|---------------|----------|-----------------|
|        |  |      |       | In Figures    | In words |                 |
|        | mortar specified below, finished rough including scaffolding, curing, etc; complete for internal surfaces inclusive of sills, jambs, soffits, ceilings, etc; complete as per specification for heights upto II floor level   |      |       |               |          |                 |
| 19     | <b>Painting internal plastered surfaces</b> with two or more coats of super acrylic emulsion paint of approved brand and colour (Berger and Asian or equivalent) to give an even shade with required finish over a coat of water thinnable cement primer including cleaning as per the direction of the engineer in charge | 265  | sqm   |               |          |                 |
| 20     | <b>Painting EXTERNAL PLASTERED SURFACE</b> with two or more coats of 100% acrylic exterior premium emulsion paint of approved make and color - Apex, having protection against fungal growth, flaking, fading, alkali and UV degradation and to give an even shade   | 250  | Sqm   |               |          |                 |

| SL. No | Description   | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|------|-------|---------------|----------|-----------------|
|        |   |      |       | In Figures    | In words |                 |
| 21     | <b>Painting wood work</b> with two or more coats of synthetic enamel paint of 1 <sup>st</sup> quality and approved colour to give an even shade over a coat of synthetic enamel primer and an approved putty work including cleaning the surfaces, filling the crevices with approved filler, scaffolding, etc. complete all as per specifications, (Rate to include cost of synthetic enamel primer and putty work at all levels and at all floors). |      |       |               |          |                 |
| 21.1   | One or more coats on old work   | 50   | Sqm   |               |          |                 |
| 22     | Demolishing existing surki covering of average thickness 150mm.   | 100  | sqm   |               |          |                 |
| 23     | Structural steel works Supplying, fabricating, assembling hoisting/erecting and fixing in position at all heights and with all leads, structural steel works of welded built up sections, using I - sections, Channel sections, Angles, pipes, tubes, Plates or any other section as per the directions of the Engineer in charge at all levels   | 3    | MT    |               |          |                 |

| SL. No | Description  | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------|--|------|-------|---------------|----------|-----------------|
|        |  |      |       | In Figures    | In words |                 |
|        | and at all floors.   |      |       |               |          |                 |
| 24     | Providing and fixing mechanical anchor bolts of 16mm diameter of HILTI or equivalent including drilling in concrete with necessary inserts and scaffolding etc, complete job (For MS chejja's) at all levels and at all floors.  | 20   | each  |               |          |                 |
| 25     | Providing and fixing poly carbonate multi wall 16mm thick with necessary fixing clips etc, complete job.   | 15   | Sqm   |               |          |                 |
| 26     | 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 ( including the cost of all hardware like hold fast lugs or dash fastener etc.,).<br>Second class teak wood | 0.3  | cum   |               |          |                 |
| 27     | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical   | 6    | sqm   |               |          |                 |

| SL. No | Description   | Qty. | Units  | Rate (Rupees) |          | Amount (Rupees) |
|--------|---|------|--------|---------------|----------|-----------------|
|        |   |      |        | In Figures    | In words |                 |
|        | 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  |      |        |               |          |                 |
| 28     | providing and fixing UPVC openable windows using veka AD 60AL or equivalent make with SS mesh as per approved drawings with double shutters including cutting masonry or concrete and making good masonry or concrete and making good the original surface as per details with drip section at bottom + sealanting etc all complete | 30   | Sqm    |               |          |                 |
| 29     | Supplying and fixing hydraulic door closer confirming to IS 3564 (Everite) or equivalent make of size 3 (to carry a door width upto 1000mm).  | 3    | each   |               |          |                 |
| 30     | Providing and fixing 75mm dia (OD) rigid PVC pipe water spouts confirming to IS 4985-1988 inclusive of  | 30   | metres |               |          |                 |

| SL. No                               | Description  | Qty. | Units | Rate (Rupees) |          | Amount (Rupees) |
|--------------------------------------|--|------|-------|---------------|----------|-----------------|
|                                      |  |      |       | In Figures    | In words |                 |
|                                      | specials (Tee) of working pressure 6Kg/sqcm .The out let end shall be provided with PVC (Tee) and the inlet end shall be flush with inner face of Facias/ parapets, fixing in cement mortar 1:3 etc complete all as per specifications |      |       |               |          |                 |
| 31                                   | Clearing the debris away from the institute campus including loading and unloading with all leads and lifts complete as per the instructions of Engineer-in charge   | 30   | cum   |               |          |                 |
|                                      |  |      |       |               |          |                 |
|                                      | <b>SUB TOTAL FOR PART 2</b>  |      |       |               | Rs.      |                 |
| <b>GRAND TOTAL FOR PART 1+PART 2</b> |  |      |       | <b>RS.</b>    |          |                 |

(Grand Total in words Rs.....)

Date:  
Place:

(Signature of the bidder with stamp)