

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

## **TENDER DOCUMENT**

***Name of Work:* RENOVATION OF THE CANTEEN ROOF  
AND GUEST ROOM TOILETS AT CREST  
CAMPUS, I.I.A, HOSAKOTE.**

Tender Notice No.06 /IIA/CIVIL/CREST/canteen reno/2012-13 Dated 19.12.2012

**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, BANGALURU-560 034**

**PUBLIC TENDER NOTICE NO:** 06/IIA/CIVIL/CREST/canteen reno /2012-13  
**Dated 19.12.2012**

The Director, Indian Institute of Astrophysics invites Quotations/Bids from reputed firms for the work of “**RENOVATION OF THE CANTEEN ROOF AND GUEST ROOM TOILETS AT CREST CAMPUS, I.I.A, HOSAKOTE**”, with the following specifications. The firm(s) interested in offering bids should have executed similar items/works.

No	Name of the work	Estimated cost in Rs	Time for completion	EMD	Cost of tender document
1.	RENOVATION OF THE CANTEEN ROOF AND GUEST ROOM TOILETS AT CREST CAMPUS, I.I.A, HOSAKOTE.	9.72 Lakhs	3 Months	20000.00	1000=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 “**RENOVATION OF THE CANTEEN ROOF AND GUEST ROOM TOILETS AT CREST CAMPUS, I.I.A, HOSAKOTE.**, Notice No. and due date”, shall be submitted addressed to The Director, Indian Institute of Astrophysics, 2<sup>nd</sup> Block, Koramangala, Bangaluru – 560 034. **The last date of submission of bid is 10.01.2013 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.

- (a) Tendering Company shall be professionally managed and resourceful for taking up similar jobs.
- (b) Tenderer should have completed atleast one similar single work for a minimum value of Rs.8.00 lakhs or two similar works of minimum value of Rs. 5.00 lakhs in the last 5 financial years (i.e., current year and two 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 10.01.2013**

4. 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 10.01.2013.** 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 **10.01.2013 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

06/IIA/CIVIL/CREST/canteen reno /2012-13 Dated 19.12.2012

M/s.

Dear Sirs,

The Director, Indian Institute of Astrophysics, Bangalore invites Sealed Tenders for the work of “**RENOVATION OF THE CANTEEN ROOF AND GUEST ROOM TOILETS AT CREST CAMPUS, I.I.A, HOSAKOTE**”,. 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)**  
Admn. 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 envelop super scribed with “Tender for **“RENOVATION OF THE CANTEEN ROOF AND GUEST ROOM TOILETS AT CREST CAMPUS, I.I.A, HOSAKOTE.,”**, 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:* RENOVATION OF THE CANTEEN ROOF AND GUEST  
ROOM TOILETS AT CREST CAMPUS, I.I.A, HOSAKOTE.**

**Tender Notice No.06/IIA/CIVIL/CREST/canteen reno /2012-13 Dated 19.12.2012**

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

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

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

**Last date for submission: 10.01.2013 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:* **“RENOVATION OF THE CANTEEN ROOF AND GUEST  
ROOM TOILETS AT CREST CAMPUS, I.I.A, HOSAKOTE”**

**Tender Notice No: 06/IIA/CIVIL/CREST/canteen reno /2012-13 Dated 19.12.2012**

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

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

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

Last date For submission: **10.01.2013 @ 3.00 P.M**

**TENDER FOR THE ‘RENOVATION OF THE CANTEEN ROOF  
AND GUEST ROOM TOILETS AT CREST CAMPUS, I.I.A,  
HOSAKOTE.,,**

**Conditions of contract.**

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

Estimated cost : Rs 9.72 Lakhs (Nine Lakhs Seventy two thousand only)

Time of completion : Three (03) 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 you are 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 should 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. four months 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 statues, 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 project : “RENOVATION OF THE CANTEEN ROOF AND  
GUEST ROOM TOILETS AT CREST CAMPUS, I.I.A, HOSAKOTE”**

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 LABOUR SHEDS:**

Labour sheds shall be constructed with non-combustible materials like GI sheets or Asbestos sheets. Contractor will not be permitted to use combustible materials such as palm leaves etc., for the construction of the labour sheds.

**3. MATERIALS SUPPLY / PROCUREMENT:**

No materials will be supplied by the owner. If any increase on the material procurement cost/ labour, P&M will not be entertained for any kind of escalation till completion of the project.

4. **BILLING, CERTIFICATION & PAYMENT OF BILLS:**

**BILLING:**

The contractor shall prepare measured bills after completing the quantum of work mentioned In the Appendix-A and submit the same to the Architects for checking and issue of Certificates for Payment.

**PAYMENT OF BILLS:**

The contractor shall be paid by the Employer from time to time based on the certificate for payment issued by the architects as mentioned in the Appendix A.

5. **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 work manlike manner to achieve uniform finishing of the building at no extra cost.

6. **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.

7. **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.

8. **CLIENT'S & ARCHITECT'S OFFICES & FACILITIES:**

The contractor shall supply, erect and satisfactorily maintain in good repair until final completion of works, a well lighted temporary site office.

The contractor shall provide at all times for the duration of the contract survey instruments for the exclusive use of consultants as directed by consultants for carrying out of his duties in connection with the contract.

Such instruments which must be approved by the Architect, shall include but not limited to the following:

- One theodolite & tripod capable of reading to 20 seconds
- One level with horizontal circle and tripod.
- Two metric leveling staffs not less than 3.5mtr high.
- One 100 metre rustless steel band, one 30 metre rustless steel tape and two 30 metre linen tapes.
- An adequate number of ranging rods drop arrows, wooden setting-out pegs, etc.

The contractor shall be solely responsible for all such instruments and



equipment's and shall ensure that they are at all times in good repair and adjustment.

**10. SANITATION & DRAINAGE DURING CONSTRUCTION:**

The contractor shall provide sanitation and drainage facilities on the site as stated subsequently.

The contractor shall strictly control the labour so that the site is not polluted, made dirty or littered with debris, wastes or the likes. Any person found creating mess or litter or pollution shall be removed from the site immediately at contractor's cost.

The contractor shall provide sanitation facilities at convenient locations on site to preserve the cleanliness of the site. The effluent shall be directed as follows:

- Waste water : Collection and pumping out and disposal off the site in approved manner.
- Sewage : Septic tank provision - sludge to be collected and disposed off at intervals as directed.

The location of the above provisions shall be as marked on the site mobilization scheme drawing.

**11. DISCREPANCIES:**

The contractor shall bring to the notice of the Architect any discrepancies within or between contract drawings and/or the other contract documents prior to preparation of working drawings and commencement of work and shall not proceed with work until the Architect gives clarifications and instructions to proceed.

**12. REPORTS BY CONTRACTOR:**

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

12.2 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. These reports shall be submitted to Architect and shall be reviewed during weekly co-ordination meeting.

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

12.4 Further progress charts and schedules shall be prepared by the contractor as directed by the Architect.

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

# **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, Berger Paints
3	Plastic Emulsion Paint	Asian Paints, Berger Paints
4	Enamel Paint	Asian Paints, Berger Paints
5	Aluminium	Jindal, Indal, Hindalco
6	Glass	Saint Gobain, Modi
7	Flush Door	Kutty's Bond Wood
8	Vitrified tiles	Johnson/nitco/RAK/somany
9	Ceramic tiles	Johnson/NITCO/Somany

## 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**

**NAME OF THE WORK: RENOVATION OF THE CANTEEN ROOF AND GUEST ROOM TOILETS AT CREST CAMPUS, I.I.A, HOSAKOTE.**

SL. No	Description	Qty.	Units	Rate (Rupees)		Amount (Rupees)
				In Figures	In words	
1	Demolishing brickwork in cement mortar 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.	01	Cum			
2	Dismantling Asbestos Cement sheet roofing including ridges, hips, valleys and gutters etc; and stacking the materials within 100mts lead.	900	Sqm			
3	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per the direction of Engineer-in-charge. 1:3:6 or richer mix	1	Cum			
4	Dismantling of existing dado including sorting dismantled materials, disposal of unserviceable materials, stacking the serviceable materials, cost of all labour charges complete as per specifications	200	Sqm			
5	Dismantling tile work in floors and roofs laid in cement mortar including					

	stacking material within 50 metres lead.					
5.1	For thickness of tiles 10 mm to 25 mm	50	Sqm			
6	Providing and constructing BRICK MASONRY in cement mortar as per mixes stipulated below using approved well burnt bricks of "CLASS DESIGNATION" (Classification as per I.S. 1077-1986) as specified below including raking out joints 10mm deep, scaffolding, curing, etc; complete as per specifications IN SUPERSTRUCTURE UPTO FLOOR V LEVEL. (Mix ratio specified is for cement : coarse sand)					
6.1	USING BRICKS OF CLASS DESIGNATION "5.0" (Minimum average compressive strength not less than 5.0 N/sqmm) in cement mortar 1:4	1	Cum			
7	Providing and laying in position REINFORCED CEMENT CONCRETE using graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry including mechanical mixing, vibrating, compaction, finishing, curing, etc; complete all as per specifications but excluding the cost					

	of form works and steel reinforcement. (Rate to include labour for keeping embedments if any, wherever required while casting). Mix ratio specified is for (cement : coarse sand : graded stone aggregate) ALL WORKS ABOVE PLINTH UPTO 8M HEIGHT.					
7.1	R.C.C 1:2:4	0.5	Cum			
8	Steel reinforcement for all R.C.C items including decoiling, cutting, hooking, bending, cranking, fabricating to required shape, placing in position and tying the system with soft drawn annealed binding wire of diameter not less than 1.00mm with 2 strands etc; complete all as per specifications at all heights (binding wire will not be measured for payment).					
8.1	With high yield strength deformed bars.	500	kg			
9	Providing and laying dado/floor with 6-8mm thk 300mm x 300mm ceramic glazed tiles over a bed of 15-25 mm thick cement plaster of mix 1:3 (1 cement: 3 coarse sand)with 3mm spacers and epoxy grout of approved quality and make etc	318	Sqm			

	complete. Note : This item includes plastering					
10	Internal Plastering Plastering 15 mm thick with Cement mortar 1:4, finished smooth including scaffolding, curing etc., complete for internal surfaces of walls, beams, ribs, sills, jambs etc., up to II floor level.	5	Sqm			
11	Exterior Plastering Plastering 20-25 mm thick with Cement mortar 1:4, finished rough including scaffolding, curing etc., complete for External Surfaces of walls, beams, ribs, sills, jambs etc., up to II floor level.	5	Sqm			
12	INTERNAL PAINTING: Painting internal plastered surfaces with two or more coats of super acrylic emulsion paint of approved brand and colour (Asian paints) to give an even shade with required finish over a coat of water thinnable cement primer (Asian paints ) including cleaning the surfaces, filling the crevices with approved filler, scaffolding, curing etc., complete.	1200	Sqm			
13	EXTERNAL PAINTING : Painting external plastered surfaces with two or more coats of Premium	1100	Sqm			



	exterior emulsion paint of approved brand and colour (Asian paints ) having protection against fungal growth , flaking , fading , alkali and UV degradation and to give an even shade with required finish over a base coat (Asian paints ) including cleaning the surfaces free from old paint, filling the crevices with approved filler, scaffolding, curing etc., complete.					
14	Painting wood work with two or more coats of synthetic enamel paint (Asian Paints) of 1st 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). One or more coats on old work	100	Sqm			
15	Fixing of Aluminium zinc alloy coated steel puff roof sheeting with required overlaps using self drilling and tapping screws of approved brand.	1000	Sqm			

	All work to be carried out as per the design drawings and instruction of the Engineer In charge Note: Sheets will be provided by the institute.					
16	Supply & Fixing vitreous china wall/floor mounting type (European type) water closet with C.P.Bolts, nuts, C.I. Chair or other hanging/fixing arrangement solid plastic seat with lid, C.P. brass hinges and rubber buffers, 32 mm dia flush pipe with clamp and adaptor, low level flushing cistern, C.P. brass screws and washers complete, including cutting and making good the walls floors where required. (Hindware Make ARMADA Cat.No.92036 cistern is CONCEALO Cat.No. 506743)	10	Each			
17	Supply & Fixing of CP bib cock of approved make, etc., complete with all accessories. Make Jaquar Continental Cat. No.039)	10	Each			
18	Supply & Fixing 15 mm C.P. brass Angle valve with C.P. copper connecting pipe, 375 mm long & nuts, washer and C.P. brass flange complete, including cutting and	10	Each			

	making good the wall where required. Make Jaquar Florentine Cat.no.5053					
19	Supply & Fixing C.P brass Toilet paper holder with stainless steel roller complete, including cutting and making good the walls where required. ( Make Jaquar Continental cat.No. 1153N)	10	Each			
20	Providing and fixing PVC 110mm dia Nahani trap With SS grating including fixing to the floor with cement mortar. (Model No: OPT-1 VIKING, OPT-2 CHILLI)	15	Each			
21	Providing & laying uPVC pipes 6 Kg/cm <sup>2</sup> confirming to IS: 4985 including fittings wherever required e.g., tees, bends of any degree, couplings, adapters, plugs, unions etc. and jointing as manufacturer recommondation etc. complete. (For soil & waste water)					
21.1	160 mm O.D pipe	300	Rmt			
21.2	75 mm O.D pipe	50	Rmt			
22	Providing and fixing 40mm thick Jet Black Granite counter tops/flooring including nosing, sealants etc. with provision for accomodating					

22.1	Two wash basin counter top (size 1500mm x 600mm)	1	Each			
22.2	Single wash basin counter top (size 1000 mm x 600mm)	5	Each			
23	<p>Providing, fixing, testing and commissioning of white colour round/oval counter top/ bottom wash basin installed with brackets, 15mm dia CP pillar cock/mixer 32mm dia CP waste coupling, 32mm dia CP brass bottle trap, 15mm dia angle stop cocks, 15mm dia inlet CP pipes. The work shall include cutting and making good the walls and floors, painting the bracket, clamp, etc. complete.</p> <p>White colour wash basin - Oval shape (Cat No.10038) size 55cm x 40cm.</p> <p>Central hole basin mixer JAQUAR 123 with swan neck tap with left hand operating knobs. With CP inlet connection 450mm long with check nut 32mm dia CP waste coupling - JAQUAR705/709 continental 32mm dia CP bottle trap JAQUAR 773 CP angle stop cock with wall flange MS or CI bracket support for WB if required (for below counter type)</p>	7	Each			

	make as per standard with screws, nuts and bolts etc., - JAQUAR 051/053.					
24	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.					
24.1	20 mm nominal outer dia Pipes	125	Rmt			
<b>TOTAL</b>						

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

**Date:**

**Place:**

**(Signature of the bidder with stamp)**