

**INDIAN INSTITUTE OF ASTROPHYSICS
2ND BLOCK, KORAMANGALA,
BENGALURU – 560034.**

TENDER DOCUMENT

***Name of Work:* Renovation of guest rooms at canteen building,
CREST campus, I.I.A, Hosakote.**

Tender Notice No.: 47/IIA/CIVIL/CREST/HOSAKOTE/2021-22 Dated 01.10.2021

INDIAN INSTITUTE OF ASTROPHYSICS

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

Website: www.iiap.res.in



INDIAN INSTITUTE OF ASTROPHYSICS

2ND BLOCK, KORAMANGALA,

BENGALURU-560 034.

Tender Notice No.: 47/IIA/CIVIL/CREST/HOSAKOTE/2021-22 Dated 01.10.2021

The Director, Indian Institute of Astrophysics invites sealed item rate tenders in the prescribed format 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	Cost of tender document Rs.
1.	Renovation of guest rooms at canteen building, CREST campus, I.I.A, Hosakote.	36,40,000.00	08 Months	NIL Bid security declaration from should be submitted by the bidder (format attached)	1,000/-

The Tender Document can be viewed and downloaded from our website 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 Tender fee (non-refundable) prescribed therein, only in the form of Demand Draft drawn in favor of **“Indian Institute of Astrophysics”** payable at Bangalore. The DD shall be valid for a period of ninety days (90) from the date of opening of bids.

The Offers containing complete tender document duly filled with all necessary particulars complete credentials including experience certificates, tender document fee, EMD etc. should be submitted in sealed cover (COVER -1) and priced Bill of Quantities in sealed Cover (Cover -2). Both Cover 1 & 2 shall be put in Cover -3 super scribing the envelope with **“Renovation of guest rooms at canteen building, CREST campus, I.I.A, Hosakote.”**. Notice No. and due date”, shall be submitted addressed to **The Director, Indian Institute of Astrophysics, 2nd Block, Koramangala, Bengaluru – 560 034. The last date of submission of bid is 11.11.2021 on or before 15:00 hrs. The bids will be opened at 15:30 hrs on the same day** in the presence of attending tenderers or their authorized representatives.

ELIGIBILITY CRITERIA

The firms who fulfill the following requirements shall be eligible to submit their bids. Joint ventures are not acceptable.

- (i) Tendering Company shall be professionally managed and resourceful for taking up similar jobs.
- (ii) The experience of having successfully completed similar work during last 5 years as on 31.08.2021 should be either of the following:
- a) One similar completed work costing not less than the amount equal to 80% of the estimated cost.
- OR
- b) Two similar completed works costing not less than the amount equal to 50% of the estimated cost.
- OR
- c) Three similar completed works costing not less than the amount equal to 40% of the estimated cost.

Similar work shall mean:

Similar work experience shall mean that the bidder shall have an experience in **Construction / Repair & Renovation of Building**. In support of this, the bidder must submit completion Certificate / work orders from the Client, and the same shall be included in the Bid as Supporting Documents.

Documentary Proof for Eligibility

Self attested/certified copy of work orders and completion certificates issued by the authority concerned to establish work experience shall be attached to the tender document. Photographs of such works shall be attached for reference. Copies of the Income Tax Returns along with Financial Statements such Balance Sheet, Assessment report issued by Income Tax dept, P&L Account etc for the last 3 Financial Years shall be attached to the tender document.

Valid Contract License issued by the competent authority shall be enclosed.

OTHER CONDITIONS

1. Technical & price Bids supported by the above information should be submitted in a Sealed envelope duly super scribed with the name of work, tender notice No., Last date of submission. The completed Bids will be received by this office **up to 15:00 Hrs. on 11.11.2021.**
2. 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.
3. The firms should submit their offers along with Tender fee of prescribed amount up to **15:00 Hrs. on 11.11.2021.**
4. Incomplete Technical Bids are liable for rejection.
5. Late & / delayed offer will not be considered.
6. IIA is not responsible for any delay / loss of documents in transit.
7. The Tenders will be opened **on 11.11.2021 at 15:30 hours at I.I.A, Bengaluru** in the presence of

bidders or their authorized representatives. The representatives of the tenderers should bring authorization letter / identification while attending for opening of the tenders.

8. IIA reserves the right to reject any or all tenders without assigning any reasons.
9. **The lowest quoted bidder cannot claim as lowest bidder unless the bidder satisfies all the tender conditions, technical qualifications and eligibility with supported documents complete in all respect.**

Administrative Officer
IIA, Bengaluru -34.

INDIAN INSTITUTE OF ASTROPHYSICS
2nd Block, Koramangala, Bengaluru - 560 034.

Tender Notice No.: 47/IIA/CIVIL/CREST/HOSAKOTE/2021-22 Dated 01.10.2021

M/s.

Dear Sir,

The Director, Indian Institute of Astrophysics, Bengaluru invites Sealed Tenders for the work of **“Renovation of guest rooms at canteen building, CREST campus, I.I.A, Hosakote.”**. The Tender Terms enclosed herewith 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.

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 rates quoted by the tenderer in the schedule shall be inclusive of all taxes and levies. Such rates should provide the break-up of the cost and applicable taxes, levies etc.**
3. The Offers should be submitted in sealed envelope super scribed with Tender for “**Renovation of guest rooms at canteen building, CREST campus, I.I.A, Hosakote.**”. Notice No. and due date”.
4. If any clarification is required should be obtained before filling Tender Document.
5. 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.
6. 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.
7. The Institute is not bound to accept the lowest tender.
8. 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.
9. 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.
10. Financial offer will be considered if the bidders fulfill all the technical and financial eligibility criteria as per tender.
11. Late & / delayed offer will not be considered at all.
12. IIA is not responsible for any delay / loss of documents in transit.
13. No bids will be considered if prescribed Tender Fee and bid security declaration form are not found with the bid.
14. All overwriting and corrections shall be duly attested with stamp & signature.
15. Corrigendum’s / modifications / corrections, if any, will be published in the website only.
16. The Director, Indian Institute of Astrophysics reserves the right to accept or reject the tenders in full or part without assigning any reason thereof.

17. Performance certificates of the completed works issued by the clients to be enclosed in the technical bid.
18. 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.
19. All the pages of the tender document to be signed by the contractor and submit them in the respective sealed covers.
20. The successful contractor will have to execute an Agreement with the Institute within 21 days of receipt of Letter of Intent / Work Order.
21. The lowest quoted bidder cannot claim as lowest bidder unless the bidder satisfies all the tender conditions, technical qualifications and eligibility with supported documents complete in all respect.
- 22. 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 clarification is required, the same may got cleared before submitting their offers in writing by contacting the following persons:**

M.V.Ramaswamy
Ph. No. 080-2254 1207
Mobile: 9742410480
E-mail.: mramaswamy@iiap.res.in

23. All the bidders are requested to visit Institute website www.iiap.res.in/tenders.htm till last date of submission of bids for latest updates on addendum, corrigendum, extensions etc. which will be notified only in website. No individual information will be provided.

INDIAN INSTITUTE OF ASTROPHYSICS
2ND BLOCK, KORAMANGALA,
BENGALURU – 560 034.

Name of Work: **“Renovation of guest rooms at canteen building, CREST campus, I.I.A, Hosakote.”**

Tender Notice No.: 47/IIA/CIVIL/CREST/HOSAKOTE/2021-22 Dated 01.10.2021

Name of

The Firm:

Address:

Phone No:

Last date for submission: 11.11.2021 up to 15:00 hrs

FORMAT FOR SUBMISSION OF TECHNICAL & ORGANIZATIONAL 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 PAN (photocopy to be enclosed)

GSTIN No (photocopy to be enclosed)

1.7 Details of the staff as per the following format.

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

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 possession 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: _____

5. INSURANCE

Accident Insurance

Insured with: _____

Policy No.: _____

6. Details of Arbitration cases :

7. 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,
BENGALURU – 560034.**

PRICE BID

***Name of Work: “Renovation of guest rooms at canteen building,
CREST campus, I.I.A, Hosakote.”***

Tender Notice No.: 47/IIA/CIVIL/CREST/HOSAKOTE/2021-22 Dated 01.10.2021

Name of

The Firm: _____

Address: _____

Phone No: _____

Last date for submission: 11.11.2021at 15:00 hrs

Tender for the “Renovation of guest rooms at canteen building, 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. 36,40,000.00 (Thirty six lakhs forty thousand rupees only)**

Time of completion : **Eight (08) Months.**

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

Retention money/Security Deposit : 5% to be deducted from each RA bill and final bill, shall be released after one year of completion of work, deducting the cost 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 : Liquidated Damages will be deducted from the bill amount while making final payment for delay in completion of work if any, as per the extant rules of the CPWD.

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.

Tax deduction at source : Statutory taxes will be deducted while making payment from time to time as applicable.

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 words worked out by the contractor shall be taken as correct.

- If the amount of an item is not worked out properly 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 in words 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 in competent 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 there under 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 5.3.4 (TABLE 5.4) in CPWD specifications for works 2019 vol. 1 to be considered for conversion of length of various sizes of M.S bars and tor steel bars in to weight.

- ❑ The entire work is to be completed within the period stipulated i.e. **Eight (08) months** from the 7th 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 (12) 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-operations 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. Such rates should provide the break-up of the cost and applicable taxes, levies etc.
- 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 incompetent 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 week's 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,
Bengaluru - 560034

Dear Sir,

**Sub: Tender for project: “Renovation of guest rooms at canteen building,
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 as per the standard format and submit the same to the Institute for checking and issue of Certificates for Payment. A proper tax invoice (with breakup of the cost and taxes) shall be submitted and bill shall be settled within 30 days of receipt at IIA. Running account bills shall be prepared and submitted and payment is subject to consideration of the engineer in Charge/IIA.

PAYMENT OF BILLS:

The contractor shall be paid by the Employer from time to time based on the certificate from the architect/project in charge for running bill accounts and final bill.

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 workmanlike 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.

9. 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.

10. 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.

11. REPORTS BY CONTRACTOR:

- 11.1 The contractor shall file daily category-wise labour return. The report shall indicate scheduled requirement against actual strength.
- 11.2 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.
- 11.3 The contractor shall submit monthly report along with monthly bills.
- 11.4 Further progress charts and schedules shall be prepared by the contractor as directed by the Architect.
- 11.5 The contractor shall submit re-conciliation statement of all the materials supplied by the Client, if any, along with every running & final bill.

12. FORCE MAJEURE:

If the work(s) be delayed by:-

- (i) Force majeure, or
- (ii) Abnormally bad weather, or
- (iii) Serious loss or damage by fire, or
- (iv) Civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or
- (v) Delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executing work not forming part of the Contract, or
- (vi) Non-availability of stores, which are the responsibility of Government to supply or
- (vii) Non-availability or break down of tools and Plant to be supplied or supplied by Government or

- (viii) Any other cause which, in the absolute discretion of the Engineer-in-Charge is beyond the Contractor's control.

Then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the authority as indicated in Schedule but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works.

13. PERFORMANCE GUARANTEE:

To ensure due performance of the contract, performance security or Performance Bank Guarantee (PBG) is to be obtained from the successful bidder awarded the contract. Performance security should be for an amount of three (3) percent of the value of the contract or as per the prevailing notification on the date of work order.

In works contract it is usual to take three percent of contract value Performance Security. Performance security may be furnished in the form of an account payee demand draft, fixed deposit receipt from a commercial bank, bank guarantee issued/ confirmed from any of the commercial bank in India or online payment in an acceptable form, safeguarding the client's interest in all respects.

Performance Security is to be furnished by a specified date generally 21 (twenty-one) days after notification of the award and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the contractor, including Defect Liability Period (DLP).

The performance security will be forfeited and credited to the procuring entity's account in the event of a breach of contract by the contractor. It should be refunded to the contractor without interest, after he duly performs and completes all obligations under the contract but not later than 365 days of completion of the Defect Liability Period (DLP). Return of Bid/ Performance Securities should be monitored and delays should be avoided. If feasible, so as to make the process transparent and visible.

14. ARBITRATION:

All disputes or differences which may arise between the IIA and the contractor, with regard to the meaning or interpretation or matter or things done or to be done in pursuance thereof, shall be resolved as per the Indian Arbitration Act 1996 by the Sole Arbitrator. The Director IIA is the sole arbitrator and his decision shall be final and binding on both the parties.

In case any dispute or difference shall arise between the IIA and the contractor either during the progress or after the completion or abandonment of the works as to the construction of this contract or as to any matter or thing of whatsoever nature arising there under or in connection therewith, then such dispute or difference shall be and is hereby referred to the Arbitration of a common Arbitrator, if agreed upon or otherwise to two Arbitrators one to be appointed by each party to the dispute and the Arbitration shall be governed by the Arbitration Act, for the time being in force.

TECHNICAL SPECIFICATION-CIVIL WORK

1. All materials to be used in the execution of Civil & structural works shall be governed by the requirements of this specification.
2. Whenever any reference to IS codes is made, the same shall be taken as the latest revision (with all amendments issued) as on the date of submission of the bid.
3. In case of any variation/ contradiction in provisions between IS codes and this specification, the provisions given in this specification shall be followed with the approval of the Engineer in Charge.
4. All materials shall be of standard quality and shall be procured from renowned sources/ manufactures approved by the Engineer Incharge. It shall be the responsibility of the Contractor, to get all materials prior to procurement and placement of order.
5. Quality and acceptability of materials not covered under this specification shall be governed by the relevant IS codes. In case IS code is not available for the particular material, other codes e.g. BS or DIN or ASTM shall be considered. The decision of the Engineer-in-Charge in this regard shall be final and binding on the contractor.
6. The quality of all materials once approved shall be maintained throughout the period of construction and periodical tests shall be carried out to ensure that it is maintained. Such routine tests shall be listed under the different materials and/or as may be ordered by the Engineer from time to time.
7. Where a particulars "Brand" or "Make" of material is specified in the Schedule of Items or Technical Specifications, such "Brand" or Make" of material alone shall be used on the work. Should it become necessary for any reason such as non-availability, to use any material other than the specified "Brand" or "Make", the Contractor shall submit sample of the same to the Engineer for approval together with test certificates and other documents necessary for examining and giving approval thereof before using the material.

SPECIFICATIONS FOR THE MATERIALS USED

1. Cement used shall be of Grade 43 Ordinary Portland Cement conforming to IS: 8112. Grade 53 Ordinary Portland Cement conforming to IS : 12269. The cement used shall confirm to the IS standards, of best quality.
2. Aggregates for concrete shall be produced from approved source conforming to the specifications of IS:383 and shall be chemically inert, clean, strong, durable, with limited porosity and free from deleterious materials which cause corrosion of reinforcement or may impair the strength and durability of concrete.
3. Steel reinforcement for concrete shall be round/ ribbed bars (TMT), unless otherwise specified and shall

comply with IS 1786.

4. Kota/ Shabad/ Cuddapah / Granite stone blocks / slabs/ tiles to be used for flooring, stairs, dados, skirting, lining, veneering etc. shall conform to the requirements specified in the schedule of items/ relevant codes.
5. Bricks for masonry in foundation, walls and other locations shall be hand or machine moulded and made from suitable soil and kiln burnt. They shall have regular and uniform size and colour, sharp, strength and right angled edges and deep cherry red and copper colour, uniformity well burnt throughout but not overburnt. They shall have smooth rectangular faces with parallel sides and sharp corners. Bricks shall be of class designation 75 unless otherwise stated. Generally, they shall conform to IS:1077.
6. The cubicles shall be of 12 mm thick compact grade laminate compressed with Deco papers and covered with melamine resin treated sheets passing international fire and safety security standards, bearing impact of crash and collision, scratch proof and graffiti resistant and inert to chemical reactions, insect and vermin proof with accessories of grade 304 stainless steel.
7. **Floor tiles :** These tiles should have high strength, good resistance to wear and tear, low water absorption and sufficient anti-skid properties and all shall conform to IS: 13755. Based on the properties of the glaze and hardness, floor tiles are categorized abrasion resistant-wise as group I TO V. According to the intensity of foot traffic the tile group shall be selected and used as per the specifications in the BOQ.
8. **Wall tiles :** These tiles shall be single fast fired having medium water absorption and high strength characteristics. These tiles shall have high glaze and better adhesion to wall and shall conform to IS : 13753. Wall tiles shall be glossy/ semi-glossy, matt glaze finish, white or coloured, plain or printed special printed and premium printed as per the specifications in the BOQ.
9. **Vitrified ceramic unpolished/ polished tiles:.** The tiles shall be homogeneous and compact through out the entire body with very high strength, low porosity and extreme surface hardness, high resistance to abrasion by chemicals and shall conform to IS:4457.
10. **Enamel paint:** Paint and enamel shall be of approved quality Colour for enamels shall conform to IS:5. These shall always meet the requirements (colour and space) of IIA.
11. **Primer :** Primer shall be Zinc Phosphate.
12. **Plastic emulsion paint:** Plastic emulsion paint for interior and exterior use shall conform to IS:5411 (parts 1 & 2) respectively.
13. **Acrylic emulsion paint:** It shall be water based acrylic Co-polymer emulsion with rutile titanium-dia-oxide and other selected pigment and fungicide. It shall exhibit excellent adhesion to plaster and cement surface and shall resist deterioration by alkalis salts. The paint film shall allow the moisture in the wall to escape without any deterioration in colour or without showing flaking, blistering or peeling.
14. **False ceiling :** The ceiling boards shall conform to the requirements specified in the schedule of items or in the drawings. They shall be strong and with uniform texture without cracks, holes or any other defects. Gypsum Board Tiles with Seamless Joins. The above shall be of the best quality from India Gypsum or equivalent as approve by the architect. It shall be formed by enclosing and bonding together a core of set gypsum plaster by two sheets of heavy paper. It shall offer high standards of safety, thermal efficiency and aesthetics. It shall be light weight, offer good fire resistance. It shall be a non-resonant material, rendering

sound insulation. It shall be strong, durable and dimensionally stable. It shall offer a smooth surface which can be painted, tiled or wall-papered. It shall block this passage of heat and shall retard the spread of fire. It shall reduce upto 60 db of sound. Gypsum boards shall conform to IS:2095-1982 & IS:2542-1981.

15. WATER PROOFING MATERIALS

Integral Cement Waterproofing Compounds

Integral cement waterproofing compounds, i.e. admixture for waterproofing purposes shall fully comply with the requirements of IS: 2645. Properties like permeability, setting time, compressive strength shall be in accordance with the requirements of this code when tested as per procedure laid therein. Calcium chloride content of the product used shall be made known to Engineer before use.

Surface Application Materials

Waterproofing material for application on mortar or concrete surface shall conform to IS: 9862. The primer shall be suitable for spray or brush application. It shall have properties enabling it to penetrate through pores or cracks and fill them up, making the surface impervious.

16. DRAINAGE & SANITATION (INTERNAL)

All materials, pipes, specials, fittings, fixtures etc., to be used in the works shall be of best quality and class specified in relevant IS Code. Where specified these shall be of specific manufacture and quality and shall be procured from manufacturer or their accredited stock lists and be marked with manufacturers' names and trade mark.

PVC /UPVC Pipe

This shall conform to relevant IS unless otherwise specified. Polythene unplasticised pipes be procured from reputed and approved manufacturer in accordance with relevant Indian Standards

Gully Trap

Each gully trap shall have one C.I. grating 150 mm x 150 mm and one water tight precast R.C. cover 300 x 300 x 40 mm thick with 1:1 1/2:3 mix concrete (one cement: one and half sand : 3 stone chips 20 mm down) including neat cement finish. GI Manhole Cover Manhole cover shall be GI type 450mm dia (internal) light duty 25 kg weight (cover and frame), heavy duty 128kg weight (cover & frame), 560 mm dia (internal) and shall be either single seal or double seal as specified in the Schedule of Items.

Valves

Unless otherwise mentioned in the Schedule of Quantities these shall be of gun metal fullway valves of medium type and shall be of approved manufacture. These shall conform to relevant Indian Standard specifications.

Washers

Spring washers conforming to latest edition of IS: 3063 shall be used near the pumps to take care of vibration. In other places plain washers conforming to IS: 2016 shall be used.

SPECIAL NOTE TO THE BIDDERS

1. The bidders are requested to visit the site and to get complete knowledge about the site conditions before quoting the rates.
2. The availability of materials, transportation of materials etc. to be ascertained before quoting the rate.
3. No labour will be allowed to work/stay beyond working hours and during institute holidays. If need to work/stay beyond working hours/on holidays, prior permission from the Engineer in Charge/Scientist in Charge should be obtained in writing.
4. No water and electricity will be supplied by IIA and separate arrangement has to be made by the contractor.
5. Quality and time for completion are the main essence of the contractor and contractor has to keep in mind while quoting the rates.
6. Since the area under renovation is scientific activity area, proper care to be taken to avoid disturbance to the working personnel. Any work which causes some hindrance to the working staff should be informed well in advance and take permission before executing the work. Any damage caused due to negligence will be viewed seriously and cost of damage shall be borne by the contractor.
7. All the debris shall be kept in one place as directed by the Engineer in Charge and disposed off outside the campus on working days. Working area/surrounding area shall be kept neat and clean every day after the work is completed.
8. All the materials shall be approved by IIA by providing sample/ mock up before executing the complete work. Clarification regarding tender clauses, technical specification, rate analysis etc. will be confirmed by referring to CPWD guidelines, works manual, specifications and analysis of rate which is binding on the contractor. Indian Standards (IS) shall be followed for execution of works. The specifications, method of execution etc. shall be as per the standard guidelines of Indian Standards (IS Specifications), notifications issued by MORTH (Ministry of road, Transport & Highways). The same will be referred for any clarification during execution of works.
9. The lowest quoted bidder cannot claim as lowest bidder unless the bidder satisfies all the tender conditions, technical qualifications and eligibility with supported documents complete in all respect.
10. **Please find the check list enclosed in the last page of this tender document and comply accordingly. (No document will be considered without check list compliance)**

COVID-19 Guidelines for Construction Workers

- ❖ IIA is committed for protecting the health and safety of construction workers and workplaces during the COVID-19 pandemic. The contractor is hereby informed to adhere the following steps to reduce risk of spread to the corona virus for construction workers:
- ❖ Instruct workers who are sick/ having symptoms to stay away from site.
- ❖ Implement physical distancing practices to maintain at least 2 mts between co-workers/contractors/visitors, including while inside work trailers.
- ❖ Minimize close discussions at site among workers and visitors (including toolbox talks and safety meetings).
- ❖ Provide and have all workers wear face coverings (i.e., cloth face coverings or surgical masks) that have at least two layers of tightly woven breathable fabric, unless their work task requires a respirator. Face coverings should be provided at no cost to workers.
- ❖ Continue to use other normal control measures, including personal protective equipment, necessary to protect workers from other job hazards associated with construction activities.
- ❖ Provide and ensure workers use the supplies necessary for good hygiene practices. If workers do not have immediate access to soap and water, use alcohol-based hand sanitizers that contain at least 60 percent ethanol or 70% isopropanol.
- ❖ Do not allow workers to share tools and equipment. If sharing cannot be eliminated, clean and disinfect between each use.
- ❖ Clean and disinfect portable jobsite toilets and fill hand sanitizer dispensers regularly.
- ❖ IIA will take safety measures in view of COVID-19 at main gate by way of thermal scanning and hand sanitization for which all workers should cooperate.

LIST OF APPROVED MAKES

WOOD WORKS

SL No.	PARTICULARS	MAKE
1.	Float Glass/ toughened glass :	Modi Guard, Indo Asahi , Pilkington ,St. Gobain
2.	Expansion Bolts :	Hilti , Fischer
3.	Glazing Sealant :	Dow Corning , GE Sealant ,Wacker
4.	Resin based Adhesive :	Fevicol , Vamicol
5.	Laminate :	Sitatex, Novapan ,Greenlam, Marino
6.	Locks :	Godrej / Dorset ML-101 or equivalent with separate keyhole ring
7.	Pivots, Handle bars etc. :	Dorma, Dorset or equivalent in SS finish
8.	Brass/powder coated Hardware :	Jarods, Palladium, Parmar, Earl Bihari / as approved
9.	Pre-laminated Particle Board :	Novapan, Anchor, Merino, Bhutan Board, Green (Exterior Grade) . Lam, Duro, Durian ,Action Tesa, Sitatex,
10.	Modular Furniture Modular Furniture a) L Shaped Workstation :	Featherlight/Blow plast b) FABRICATED FURNITURE AT SITE
i)	MDF Board :	Novapan/ Merino/ Duratuff , Bajaj Eco-tech, Anchor, Nuwud , Green Ply
ii)	Plywood :	Green ply ,Arc hid ,Mayur, Century, DURO, Anchor, Alpro, Merino ,Bhutan
iii).	Wood preservative :	Bison by British Paints, Termiseal by PCI, Pidilite
iv)	Laminates (1mm th) :	Greenlam/ Formica/ Merino/Sun Mica, Green Ply .Durian, Century, Silicon
v)	Door Closer- Extended Pelmet :	Arm Ozone/Dorset/ Dorma/ Hafele (at least 2 yrs warranty)
vi)	Floor Springs- dual speed :	Ozone/Dorset/ Dorma/ Hafele (at least 2 yrs warranty)
vii)	Locks :	Ozone/Dorset/ Ebco/ Godrej/ Hafele/ Dline/Dorma
viii)	Hardware- Handles etc :	SS Ozone 'H' shaped 2 long/ Dorma
ix)	Adhesives :	Fevicol SH, Araldite of Ciba-Geigy, Vamicol
11.	Gypsum Board- False ceiling :	India Gypsum Co. Ltd.,Lafarge ,Armstrong , Saint gobain , Anutone ,Daiken ceiling
12.	Patch fittings for glass :	Ozone/Dorma
13.	vertical Blinds :	Vista Levlor/ Aerolux
14.	Drawer Channels :	Ozone/Telescopic- Ebco
15.	Keyboard tray :	Ozone/Ebco
16.	CPU Trolley :	Ozone/Ebco
17.	HINGES	
i)	Auto closing Hinges :	Hettich/Ebco
ii)	"W" & "Z" Hinges for shutters :	Hettich/Ebco/Medium/ Heavy- S.S Hinges
iii)	Butt Hinges for door :	Hettich/Ebco/Heavy- S.S Hinges

CIVIL, WATER SUPPLY AND SANITARY FIXTURES

SL No.	Material description	Approved Manufacturer / Brand Name
1	TMT bars	Fe 500D SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd, JSW Ltd
2	Structural Steel Plates/ISMB/Structural sections	TATA, SAIL, JSPL, JSW, RINL
3	Cement (PPC)	ACC/Birla/L&T
4	Ceramic/glazed Tiles	RAK, Johnson, Nitco, Kajaria of approved design, color and shade.
5	White Cement & white cement based putty	Birla White, J.K. White, or equivalent.
6	Primers, distemper, all types of paints (Low VOC) (i/c water proofing cement paint) etc but excluding fire resistant paint	Nerolac, Asian, Berger, ICI-Dulux
7	Roofing sheet of Zinalume	Tata Blue Scope, JSW, Kirby, Everest, Lloyds
8	Wash Basin and WC Pan & CP Brass fittings & accessories As specified in item of schedule. When not specified then	
9	G.I. pipes and accessories	Tata, Jindal-Hissar, Prakash Surya, NVR
10	Cement Admixture/Plasticizer	FOSROC, SIKKA, PIDILITE, CICO, BASF
11	Centrifugally Cast Iron Spun Pipes & fittings	NECO, HEPCO, SKF, RIF
12	Flush valves	Jaquar, Kohler, Grohe, Roca, CERA, Hindware.
13	Aluminium sections (Anodised/ Powder coated by approved anodizing/powder coating firm)	Hindalco, Jindal, Indian Aluminium Co., NALCO Page 108 & hinges
14	Water proofing compound	WEBER, FOSROC, Pidiproof, CICO, BASF,SIKA
15	Stainless steel sink	Neelkanth, Nirali, PRAYAG, Parryware
16	PVC tanks	Sintex, Plasto,Supreme,Astral
17	Vitrified tiles Floor Tiles (Vitrified tiles to be doubly charged)	First quality of RAK, Johnson, Rustile, Nitco, Kajaria of approved design, color and shade.
18	Acrylic Exterior Paint	Asian Paint, Berger, ICI Dulux, Nerolac
19	Dash Fasteners/Anchor Fasteners	Hilti/ Fischer/ Bosch/ Canon
20	Anti - Termite Treatment	Osolin, ESSAR- CHLORO, DURSBAN, GIBRALTOR or Equivalent.
21	Flush Door Shutters	Greenply/Century/Kutty/Jayna/Kitply/National
22	Thermal insulation for water pipe	M/s Lloyd Insulations India Limited, Armacell, Thermaflex or equivalent
23	UPVC pipes & fittings conforming to IS : 13592	Supreme / Finolex / Kisan/Astral
24	C.P. Fittings	Jaquar, Kohler, Grohe, Roca, CERA, Hindware.
25	Bathroom accessories	Jaquar, Kohler, Grohe, Roca, CERA, Hindware.
26	C.P. Fittings	Jaquar, Kohler, Grohe, Roca, CERA, Hindware.
27	Bathroom accessories	Jaquar, Kohler, Grohe, Roca, CERA, Hindware.
28	CI Grating & MH frame & cover	NECO/ Approved equivalent

Note : Wherever makes are not specified, the same shall be as per approval of Engineer-In- Charge.

BILL OF QUANTITIES

Bill of Quantities for the work of “Renovation of guest rooms at canteen building, CREST campus, I.I.A, Hosakote.”

(NOTE: Rates shall be quoted after reading the complete specifications, special instruction to tenderer and understanding site conditions)

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
<u>Tile work and UPVC windows</u>						
1	Dismantling tile work in floors and wall laid in cement mortar including stacking material within 50 metres lead.					
1.1	For thickness of tiles 10 mm to 25 mm	300.00	sqm			
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
2.2	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	15.00	cum			
3	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps :					
3.1	100 mm diameter	75.00	Metre			

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
4	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge.	10.00	each			
5	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	10.00	each			
6	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineerin- Charge. (a) Internal Work-concealed in wall	200.00	metre			
7	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :					
7.1	Of area beyond 3 sq. metres	25.00	Each			
8	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	250.00	sqm			
9	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge.	150.00	cum			
	CEMENT PLASTER (IN COARSE SAND)					

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
10	12 mm cement plaster of mix :					
10.1	1:4 (1 cement: 4 coarse sand)	274.00	Sqm			
11	Water proofing of SUNKEN Areas Two coats of Latex Bituminous Emulsion from an approved company applied on 5cm cement –sand screed on the floors of bathrooms, including corner fillets, also another coat after pipes installation applied at the joints and where required and cover with (30)mm cement sand screed as a protective layer on top before tiling as specified in the drawings	50.00	sqm			
12	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.(Basic price of Tile Rs.75/Sft) Approved Make: Nitco/ Kajaria/ RAK/ Marbonite/ Johnson/ approvedequivalent.					
12.1	Size of Tile 600x600 mm	285.00	Sqm			

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
13	Providing and laying Ceramic glazed floor tiles (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.(Basic price of tile : Rs.60/Sft) Approved make : Nitco/ Marbonite/ Johnson/ Kajaria/ Somany/ approved equivalent.	70.00	sqm			
14	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. (Basic price of tile : Rs.60/Sft) Approved make : Nitco/ Marbonite/ Johnson/ Kajaria/ Somany/ approved equivalent.	310.00	sqm			

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
15	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Base cost of stone including taxes: INR 265/ per sqft.					
15.1	Granite of any colour and shade					
15.2	Area of slab over 0.50 sqm	15.00	sqm			
16	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). (Basic price of tile : Rs.60/ Sft)					
16.1	Medium shade pigment using 50% white cement 50% Grey cement	100.00	Sqm			

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
17	<p>Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from rollforming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately)Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p>					

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
17.1	Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).	70.00	sqm			
18	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					
18.1	Fixed to steel windows by welding	1000.00	Kg			
19	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	200.00	each			
20	Repairing of 450mm overall rectangular plain GI gutter, incl. brackets, bolts, nuts, washers and rain water pipe connection excluding the cost of pipes, 24g sheets	120.00	Rm			

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
21	CINDER FILLING: Providing and filling Cinder to the Toilet area including water proofing works in sunken slab area as per instructions of architect/ bank's engg. (Burnt dry ash or equivalent)	18.00	cum			
				Sub total (A)		
<u>Sanitary And Plumbing works</u>						
22	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-Cera make/ Jaquar/ hindware/RAK Approved Equivalent.					
22.1	White Vitreous China Wash basin size 550x400 mm with a 15 mm SS single hole basin mixer	10.00	each			
23	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete. Cera make/ Jaquar/ hindware/RAK Approved Equivalent.	10.00	each			
24	Providing and fixing toilet paper holder :					
24.1	S S - Cera make/ Jaquar/ hindware/RAK as per approval of Engineer-In- Charge.	10.00	Each			

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
25	Providing and fixing S S Waste Coupling for wash basin and sink, of approved quality and colour.Cera make/ Jaquar/ hindware/RAK Approved or Equivalent.					
25.1	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms Cera make/ Jaquar/ hindware/RAK Approved or Equivalent.	10.00	each			
26	Providing and fixing CP Brass/ S.S 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.Cera make/ Jaquar/ hindware/RAK Approved or Equivalent.	10.00	each			
27	Providing and fixing wall mixer of quality & make as approved by Engineer in charge.Cera make/ Jaquar/ hindware/RAK Approved or Equivalent.					
27.1	15 mm nominal dia	8.00	Each			
27.2	Providing Over head shower(Jaguar make)	8.00	Each			
28	Providing and fixing S.S towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality Cera make/ Jaquar/ hindware/RAK Approved Equivalent.					
28.1	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms. Cera make/ Jaquar/ hindware/RAK Approved Equivalent.	10.00	each			

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
29	Providing and fixing automatic liquid soap dispenser of approved quality and colour.Cera make/ Jaquar/ hindware/RAK Approved Equivalent.	12.00	each			
30	Providing and fixing angle valve for basin mixer and geyser points of approved quality conforming to IS:8931Cera make/ Jaquar/ hindware/RAK Approved Equivalent.					
30.1	15mm nominal bore	25.00	Each			
31	Providing and fixing long nose two way bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.Cera make/ Jaquar/ hindware/RAK Approved Equivalent.					
31.1	15 mm nominal bore	10.00	Each			
32	Providing and fixing uplasticised PVC connection pipe with brass unions :Cera make/ Jaquar/ hindware/RAK Approved or Equivalent.					
32.1	45 cm length (15 mm nominal bore)	40.00	Each			
33	Providing and fixing pillar cock of approved quality (Jaguar make)Cera make/ Jaquar/ hindware/RAK Approved or Equivalent/ slection					
33.1	15 mm nominal bore, less	10.00				

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
			each			
34	Providing and fixing towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms. Cera make/ Jaquar/ hindware/RAK Approved or Equivalent.	10.00	each			
35	Providing and fixing grating circular 100 to 150mm	22.00	Each			
36	providing and fixing S S Louvered grating for toilet doors of approved quality	10.00	each			
37	Supply of PVC (SWR) floor trap with grating and 50mm water seal including jointing with solvent cement complete(AstraL/ Ashirwad/ Oriplast/ Supreme brand)	22.00	each			
38	Supply of PVC (SWR) pipes single socketed, in any length with solvent cement / rubber ring joints, laid in trenches or in floors complete.(AstraL/ Ashirwad/ Oriplast/ Supreme brand) (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials.					
38.1	50mm	50.00	Rm			
38.2	75mm	25.00	Rm			
38.3	110mm	50.00	Rm			

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
39	Internal work- 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. (AstraL/Ashirwad/ Oriplast/ Supreme brand) (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials.					
39.1	15 mm nominal outer dia Pipes	160.00	Metre			
39.2	20 mm nominal outer dia Pipes	30.00	Metre			
39.3	25 mm nominal outer dia Pipes	85.00	Metre			
40	External work- Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.(AstraL/Ashirwad/ Oriplast/ Supreme brand) (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials.					

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
40.1	20 mm nominal outer dia Pipes	40.00	Metre			
40.2	32 mm nominal outer dia Pipes	140.00	Metre			
41	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :					
41.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	6.00	each			
42	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth, roots etc. and disposal of same, all as per the direction of Engineer-in-charge.	20.00	each			
				Sub total (B)		

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
<u>Wood work</u>						
43	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.					
43.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	50.00	sqm			
44	Wardrobe Providing and fixing of wardrobes in Guest rooms the size shall be 1200L x 500 D x 1900ht with mirror Made of 18mm thick Pre laminate particle board with PVC edge band of 2.0mm thickness.The shutter are provided with individual locks and recessed handles, with Provision of Hanging rod - one number . The colour shade will as per the approved shade by Engineer in charge / Architect. One locker lock and key and one drawer lock and key for the extent of ward robe lock and key shall be provided .	10.00	Each			
45	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete	15.00	each			

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
46	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	15.00	each			
47	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	15.00	each			
48	Providing and fixing bright finished brass handles with screws etc. complete:					
48.1	150mm	15.00	Each			
49	Providing and fixing bright finished brass tower bolts with necessary screws etc. complete :					
49.1	200x10 mm	30.00	Each			
50	Providing and fixing beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	20.00	each			
51	providing and fixing of curtain made out of fabric of any colour and design as per the direction of Engineer -in charge with necessary accessories to fix the curtain etc	85.00	sqm			
52	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete.					

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
52.1	25 mm diameter.	40.00	Metre			
				Sub total (C)		
<u>Painting work</u>						
53	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	200.00	sqm			
54	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
54.1	Water thinnable cement primer	1000.00	sqm			
55	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	450.00	sqm			
56	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.					
56.1	Two coats	1350.00	sqm			
57	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					

Sl. No.	Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Rate in figures (Rs.)	Rate in words (Rs.)	
57.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	750.00	sqm			
58	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
58.1	Two or more coats on new work	300.00	Sqm			
Sub total (D)						
Total (A+B+C+D)=E						
GST% on E=F						
Grand Total (E+F)=G						

Grand Total amount in words Rs.....
.....)

Date:

Place:

Signature of the contractor with seal

CHECK LIST

ALL THE BIDDERS ARE REQUESTED TO COMPLETE THE CHECK LIST WITH NECESSARY DOCUMENTS AND COMPLY ACCORDINGLY

Sl.No.	Document to be furnished	YES/NO	REMARKS
1	Tender document fee (Non Refundable)		
2	Bid security declaration from		
3	Complete tender document duly signed by contractor/authorized representative. Power of Attorney to be attached in case of partnership firm)		
4	Please mention the name of the work, tender number, contractor address etc. on cover/envelop		
5	Valid Contractor License issued by PWD/CPWD etc.		
6	PAN Details		
7	GST Details with latest 3 GST paid receipts		
8	Experience certificate in respect of supporting documents for technical eligibility criteria i.e. work orders, completion certificates etc. issued by competent authority		
9	Financial Documents like turnover certificate, IT returns for last 3 Financial Years, assessment order issued by Income Tax dept.		

Signature of the Contractor with Stamp

FORMAT OF BID SECURITY DECLARATION FROM BIDDERS IN LIEU OF EMO

(On Bidders Letter head)

I / We, the authorized signatory of M/s ,
participating in the subject tender No for the item / job
of..... , do hereby declare:

- a. That I / we have availed the benefit of waiver of EMD while submitting our offer against the subject Tender and no EMD being deposited for the said tender.
- b. That in the event we withdraw / modify our bid during the period of validity Or I/we fail to execute formal contract agreement within the given timeline OR I/we fail to submit a Performance Security within the given timeline Or I/we commit any breach of Tender Conditions / Contract which attracts penal action of forfeiture of EMD and I/we will be suspended from being eligible for bidding / award of all future contract(s) of Indian Institute of Astrophysics for a period of one year from the date of committing such breach.

Signature and Seal of Authorised Signatory of bidder

Name of Authorized Signatory

Company Name